

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, 2021 through June 30th, 2021

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June 1st, 2021 through June 30th, 2021

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Prepared for:



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Acronyms and Abbreviations

AMSR ______ Air Monitoring Summary Report 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 fiber/cm³ _____ fiber per cubic centimeter Gilbane Gilbane Federal HPNS _____ Hunters Point Naval Shipyard L/min ______ liters per minute mg/m³ milligrams per cubic meter Navy _____ U.S. Department of the Navy NIOSH ______ National Institute for Occupational Safety and Health PEL ______ permissible exposure limit PM10 particulate matter less than 10 microns in diameter RAWP Remedial Action Work Plan TSP total suspended particulates TWA ______ time-weighted average μg/m³ _____ micrograms per cubic meter

1.0 Introduction

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

This summary report describes the following:

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

This AMSR summarizes the air monitoring activities conducted by Gilbane at HPNS from June 1st, 2021 through June 30th, 2021 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

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 Hunters Point Station (Bayview Manor - KCASANFR1775) published at Weather Underground (www.wunderground.com). Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at www.wunderground.com (see **Attachment 1**). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

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

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2.0 Monitoring Site Locations

3.0 Analytical Methods

3.1 Asbestos

Air samples were sampled and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400, from the NIOSH Manual of Analytical Methods (NIOSH, 1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters fitted with conductive cowlings at a sampling rate of between 0.5 liters per minute (L/min) and 16 L/min. Each sample was collected over a period of less than 24 hours. Asbestos results were reviewed for anomalies and compliance with the action levels listed below.

3.2 PM10, Copper, Lead, and Manganese

Filter-based PM10 data are collected to ensure the protection of public health and safety during construction operations. Filter-based PM10 data are generated by sampling with calibrated air monitoring equipment that are operated continuously over a period of time (usually 8 or 24 hours) in accordance with the Bayview Manor - KCASANFR1775 U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in Title 40 Code of Federal Regulations (CFR), Part 50, Subpart J. During the sampling, measurements are taken to precisely calculate the volume of air that has passed through the filter media sample. The period sampled is dependent on the duration of the work activity. The sample is then shipped to a certified analytical laboratory where the concentration is gravimetrically determined. The sample results are reviewed for field and laboratory anomalies to provide confidence in the data and compared to air quality criteria to ensure compliance with the action levels listed below. In this way the precise amount of PM10 present in each cubic meter of air is determined.

Once the PM10 concentration was gravimetrically determined, the filter was analyzed for copper, manganese and lead in accordance with EPA Method 6020 (equivalent to IO-3.5 in the Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air [EPA, 1999]), and for lead in accordance with a modified EPA Method 12.

3.3 TSP

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with EPA's reference sampling method for TSP, described in 40 CFR 50, Subpart B. Each sample was collected on a filter over an approximately 8 to 24-hour period (depending on the duration of the work activity). The filter was then weighed to determine the amount of TSP collected. The resulting concentration was compared to the HPNS Basewide level listed below to minimize permissible dust releases from the site.

3.4 Radionuclides of Concern

Radiological air samples were collected on filter media with a LV-1 low-volume air sampler. The air filter concentration is counted onsite following a decay period and are compared with public air concentration limits published in 10 CFR Part 20. Radiological air sampling methods and procedures are detailed in Gilbane Radiological Procedure PR-RP-150 Radiological Survey and Sampling (Gilbane, 2019b).

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

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

4.0 Air Monitoring Data Interpretation and Action Levels

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

The resulting deltas for PM10 and TSP and analytical data from air monitoring metals and radiological samples were compared with the threshold criteria listed in **Table 4-1** reproduced from Table 1 of the approved DMCP (Appendix E of the RAWP [Gilbane, 2019a]. The PM10 delta was additionally compared to the criterion taken from the *Technical Memorandum: Draft Dust Action Levels for Parcel E, Hunters Point Shipyard, San Francisco, California* (Department of Toxic Substances Control [DTSC] 2017) of 50 micrograms per cubic meter (ug/m³).

Table 4-1: Air Monitoring Threshold Criteria

Test Parameter	Threshold Criteria	Threshold Criteria Reference					
rest Parameter	Threshold Chleria	Tillesiloid Criteria Reference					
Asbestos	0.1 fiber/cm ³	Cal/OSHA PEL					
PM10 ^a	5,000 ug/m ³	Cal/OSHA PEL					
		Basewide HPNS Level selected to					
TSP	0.5 mg/m ³	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	Occupational and public air concentration					
	Concentration	limits for ROCs are published in 10 Code of					
	Values	Federal Regulations Part 20, Appendix B.					

Notes:

μg/m³ = micrograms per cubic meter

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

fiber/cm³ = fiber per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter less than 10 microns in diameter

TSP = total suspended particulates

^a = Cal/OSHA PEL for particulates not otherwise regulated (respiratory) used for PM10.

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4.0 Air Monitoring Data Interpretation and Action Levels

5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as **Attachment 1**. Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from June 1st to June 30th, 2021, during which Gilbane was breaking concrete, clearing lay-down pad, organizing concrete, importing soil, potholing, grading and preparing site for excavation. 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 through June 30th, 2021, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from June 1st through June 30th, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10, lead, manganese, and copper results from June 1st through June 30th, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 3** and **Attachment 4**.

TSP results from June 1st through June 30th, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from June 1st through June 30th, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 6**.

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

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5.0 Air Monitoring Results

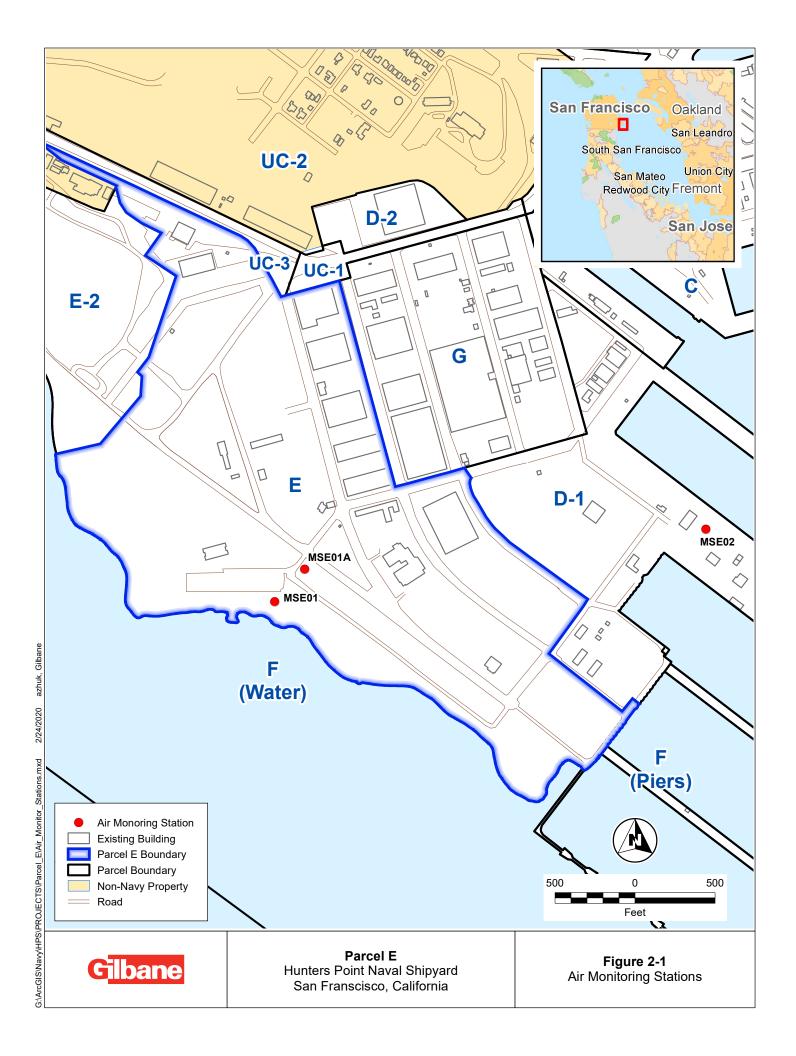
6.0 References

- 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), 1998. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.
- Gilbane Federal, 2019a. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October
- Gilbane Federal, 2019b. Radiological Procedure PR-RP-150 Radiological Survey and Sampling, Version 01, October 1.

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6.0 References

FIGURES



Figures

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

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

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
6/1/2021	29.93	54.11	WSW
6/2/2021	29.89	53.59	WSW
6/3/2021	29.86	55.96	SW
6/4/2021	29.96	54.36	SW
6/7/2021	29.92	55.44	W
6/8/2021	30.08	55.48	W
6/9/2021	30.19	55.42	W
6/10/2021	30.24	58.14	WSW
6/14/2021	30.06	59.27	WSW
6/15/2021	30.05	62.37	WSW
6/16/2021	29.90	64.92	WSW
6/17/2021	29.77	68.42	W
6/21/2021	29.92	62.36	WSW
6/22/2021	29.89	62.61	SW
6/23/2021	29.96	61.29	WSW
6/24/2021	30.03	62.41	WSW
6/28/2021	29.81	57.48	WSW
6/29/2021	29.81	58.37	WSW
6/30/2021	29.90	58.12	SW

Notes:

 ${\bf Data\ collected\ using\ wunderground.com\ from\ Bayview\ Manor\ -\ KCASANFR1775}.$

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2 ASBESTOS MONITORING RESULTS

Attachment 2: Asbestos Monitoring Results

Sample, Date a	nd 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/cm³)	Exceedance (Yes/No)	
MSE01-060121	06/01/21	1	470	940	15.5	0.008	No	
MSE02-060121	06/01/21	2	472	944	16.0	0.008	No	
MSE01-060221	06/02/21	1	488	976	22.5	0.011	No	
MSE02-060221	06/02/21	2	476	952	15.0	0.007	No	
MSE01-060321	06/03/21	1	484	968	16.5	0.008	No	
MSE02-060321	06/03/21	2	475	950	20.0	0.010	No	
MSE01-060421	06/04/21	1	384	768	21.0	0.013	No	
MSE02-060421	06/04/21	2	408	816	18.5	0.011	No	
MSE01-060721	06/07/21	1	445	890	20.0	0.011	No	
MSE02-060721	06/07/21	2	400	800	14.5	0.009	No	
MSE01-060821	06/08/21	1	445	890	23.5	0.013	No	
MSE02-060821	06/08/21	2	449	898	18.5	0.010	No	
MSE01-060921	06/09/21	1	500	1000	15.5	0.008	No	
MSE02-060921	06/09/21	2	512	1024	13.5	0.006	No	
MSE01-061021	06/10/21	1	472	944	24.5	0.013	No	
MSE02-061021	06/10/21	2	494	988	12.5	0.006	No	
MSE01-061421	06/14/21	1	455	910	20.0	0.011	No	
MSE02-061421	06/14/21	2	503	1006	21.5	0.010	No	
MSE01-061521	06/15/21	1	499	998	18.5	0.009	No	
MSE02-061521	06/15/21	2	509	1018	12.5	0.006	No	
MSE01-061621	06/16/21	1	503	1006	13.0	0.006	No	
MSE02-061621	06/16/21	2	521	1042	13.5	0.006	No	
MSE01-061721	06/17/21	1	461	922	11.5	0.006	No	
MSE02-061721	06/17/21	2	465	930	13.0	0.007	No	
MSE01-062121	06/21/21	1	501	1002	14.5	0.007	No	
MSE02-062121	06/21/21	2	465	930	16.0	0.008	No	
3	06/22/21	1	466	932	16.0	0.008	No	

Attachment 2: Asbestos Monitoring Results

Sample, Date a	nd Station	Information	Sampler Run	Information	Asbestos Fibers			
Sample Start Date Monitorin		Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm³)	Exceedance (Yes/No)	
MSE02-062221	06/22/21	2	475	950	9.0	0.005	No	
MSE01-062321	06/23/21	1	457	914	12.5	0.007	No	
MSE02-062321	06/23/21	2	463	926	14.0	0.007	No	
MSE01-062421	06/24/21	1	466	932	19.5	0.010	No	
MSE02-062421	06/24/21	2	469	938	14.5	0.008	No	
MSE01-062821	06/28/21	1	468	936	13.5	0.007	No	
MSE02-062821	06/28/21	2	477	954	11.0	0.006	No	
MSE01-062921	06/29/21	1	502	1004	9.5	0.005	No	
MSE02-062921	06/29/21	2	531	1062	9.0	0.004	No	
MSE01-063021	06/30/21	1	470	940	9.0	0.005	No	
MSE02-063021	06/30/21	2	495	990	9.5	0.005	No	

Notes:

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

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

min = minutes

L = liter

fibers/cm³ = fibers per cubic centimeter

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

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

Sample, Date and St	Sampler Run	PM10								
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concen- tration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m³)	Delta between Downwind and Upwind (ug/m³)	Cal/OSHA PEL (ug/m³)	Exceedance (Yes/No)	HERO Action Level ³ (ug/m ³)	Exceedance (Yes/No)
GILBANEPM051321-1203	1	6/2/21	1746.53	0.013						
GILBANEPM051321-1204	2	6/2/21	1735.34	0.0074	-0.006	-5.6	5,000	No	50	No
GILBANEPM051321-1205	1	6/3/21	1737.14	0.0033						
GILBANEPM051321-1206	2	6/3/21	749.97	0.0023	-0.001	-1.0	5,000	No	50	No
GILBANEPM051321-1207	1	6/4/21	1704.85	0.021						
GILBANEPM051321-1208	2	6/4/21	1673.13	0.023	0.002	2.0	5,000	No	50	No
GILBANEPM051321-1209	1	6/4/21 ²	466.44	0.023						
GILBANEPM051321-1210	2	6/4/21 ²	493.31	0.025	0.002	2.0	5,000	No	50	No
GILBANEPM051321-1211	1	6/8/21	1750.43	0.017						
GILBANEPM051321-1212	2	6/8/21	1684.65	0.0078	-0.009	-9.2	5,000	No	50	No
GILBANEPM051321-1213	1	6/9/21	1668.48	0.0087						
GILBANEPM051321-1214	2	6/9/21	1660.13	0.013	0.004	4.3	5,000	No	50	No
GILBANEPM051321-1215	1	6/10/21	1743.64	0.0072						
GILBANEPM051321-1216	2	6/10/21	1733.84	0.014	0.007	6.8	5,000	No	50	No
GILBANEPM051321-1217	1	6/10/21 ²	577.46	0.0066						
GILBANEPM051321-1218	2	6/10/21 ²	598.95	0.012	0.005	5.4	5,000	No	50	No
GILBANEPM051921-1219	1	6/15/21	1669.52	0.0072						
GILBANEPM051921-1220	2	6/15/21	1682.51	0.0062	-0.001	-1.0	5,000	No	50	No
GILBANEPM051921-1221	1	6/16/21	1729.39	0.021						
GILBANEPM051921-1222	2	6/16/21	1730.52	0.022	0.001	1.0	5,000	No	50	No
GILBANEPM051921-1223	1	6/17/21	1742.72	0.038						
GILBANEPM051921-1224	2	6/17/21	1742.72	0.032	-0.006	-6.0	5,000	No	50	No
GILBANEPM051921-1225	1	6/17/21 ²	559.15	0.055						
GILBANEPM051921-1226	2	6/17/21 ²	573.10	0.043	-0.012	-12.0	5,000	No	50	No
GILBANEPM051921-1227	1	6/22/21	1754.56	0.0066						
GILBANEPM051921-1228	2	6/22/21	1726.14	0.0079	0.001	1.3	5,000	No	50	No
GILBANEPM061721-1272	1	6/23/21	1722.54	0.0068						

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

Sample, Date and St	Sampler Run	PM10								
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m ³)	Delta between Downwind and Upwind (ug/m³)	Cal/OSHA PEL (ug/m³)	Exceedance (Yes/No)	HERO Action Level ³ (ug/m ³)	Exceedance (Yes/No)
GILBANEPM061721-1273	2	6/23/21	1737.32	0.0061	-0.001	-0.7	5,000	No	50	No
GILBANEPM061721-1274	1	6/24/21	1729.53	0.0050						
GILBANEPM061721-1275	2	6/24/21	1731.70	0.0068	0.002	1.8	5,000	No	50	No
GILBANEPM061721-1276	1	6/24/21 ²	561.53	0.0039						
GILBANEPM061721-1277	2	6/24/21 ²	570.27	0.0058	0.002	1.9	5,000	No	50	No
GILBANEPM061721-1278	1	6/29/21	1704.51	0.0093						
GILBANEPM061721-1279	2	6/29/21	1717.48	0.0075	-0.002	-1.8	5,000	No	50	No

Notes:

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

m³ = cubic meters

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

 PM_{10} = particulate matter smaller than 10 microns in diameter

ug/m³ = micrograms per cubic meter

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

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

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

ATTACHMENT 4 COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Attachment 4

Attachment 4: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Сорр	Copper		d	Manganese	
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Exceedance (Yes/No)	Concentration in Air (mg/m³)	Exceedance (Yes/No)	Concentration in Air (mg/m³)	Exceedance (Yes/No)
GILBANEPM051321-1203	1	6/2/21	1746.53	0.000048	No	0.0000021	No	0.0000065	No
GILBANEPM051321-1204	2	6/2/21	1735.34	0.000020	No	0.0000013	No	0.0000033	No
GILBANEPM051321-1205	1	6/3/21	1737.14	0.000012	No	0.0000011	No	0.0000019	No
GILBANEPM051321-1206	2	6/3/21	749.97	0.000029	No	0.00000089 J	No	0.0000024	No
GILBANEPM051321-1207	1	6/4/21	1704.85	0.000028	No	0.0000022	No	0.000006	No
GILBANEPM051321-1208	2	6/4/21	1673.13	0.000150	No	0.0000017	No	0.000005	No
GILBANEPM051321-1209	1	6/4/21 ²	466.44	0.000054	No	0.0000039	No	0.0000076	No
GILBANEPM051321-1210	2	6/4/21 ²	493.31	0.000220	No	0.0000023 J	No	0.000008	No
GILBANEPM051321-1211	1	6/8/21	1750.43	0.000027	No	0.0000027	No	0.0000035	No
GILBANEPM051321-1212	2	6/8/21	1684.65	0.000047	No	0.0000047	No	0.000011	No
GILBANEPM051321-1213	1	6/9/21	1668.48	0.000012	No	0.000001	No	0.0000019	No
GILBANEPM051321-1214	2	6/9/21	1660.13	0.000260	No	0.0000037	No	0.000003	No
GILBANEPM051321-1215	1	6/10/21	1743.64	0.000009	No	0.00000094	No	0.000002	No
GILBANEPM051321-1216	2	6/10/21	1733.84	0.000094	No	0.0000019	No	0.0000068	No
GILBANEPM051321-1217	1	6/10/21 ²	577.46	0.000015	No	0.0000014 J	No	0.0000028	No
GILBANEPM051321-1218	2	6/10/21 ²	598.95	0.000063	No	0.000003	No	0.0000074	No
GILBANEPM051921-1219	1	6/15/21	1669.52	0.000021	No	0.0000012	No	0.0000024	No
GILBANEPM051921-1220	2	6/15/21	1682.51	0.000011	No	0.0000011	No	0.0000027	No
GILBANEPM051921-1221	1	6/16/21	1729.39	0.000056	No	0.0000059	No	0.0000042	No
GILBANEPM051921-1222	2	6/16/21	1730.52	0.000022	No	0.0000017	No	0.0000043	No
GILBANEPM051921-1223	1	6/17/21	1742.72	0.000060	No	0.0000047	No	0.000010	No
GILBANEPM051921-1224	2	6/17/21	1742.72	0.000086	No	0.0000023	No	0.0000062	No
GILBANEPM051921-1225	1	6/17/21 ²	559.15	0.000095	No	0.0000070	No	0.000022	No

Attachment 4: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Copper		Lead		Manganese	
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Exceedance (Yes/No)	Concentration in Air (mg/m³)	Exceedance (Yes/No)	Concentration in Air (mg/m³)	Exceedance (Yes/No)
GILBANEPM051921-1226	2	6/17/21 ²	573.10	0.000130	No	0.0000058	No	0.000013	No
GILBANEPM051921-1227	1	6/22/21	1754.56	0.000030	No	0.0000012	No	0.0000029	No
GILBANEPM051921-1228	2	6/22/21	1726.14	0.000095	No	0.0000007	No	0.0000025	No
GILBANEPM061721-1272	1	6/23/21	1722.54	0.000026	No	0.0000032	No	0.0000036	No
GILBANEPM061721-1273	2	6/23/21	1737.32	0.000081	No	0.00000061 J	No	0.0000021	No
GILBANEPM061721-1274	1	6/24/21	1729.53	0.000022	No	0.0000011	No	0.0000025	No
GILBANEPM061721-1275	2	6/24/21	1731.70	0.000047	No	0.00000079	No	0.0000031	No
GILBANEPM061721-1276	1	6/24/21 ²	561.53	0.000023	No	0.0000026	No	0.000003	No
GILBANEPM061721-1277	2	6/24/21 ²	570.27	0.000096	No	0.000002 J	No	0.0000046	No
GILBANEPM061721-1278	1	6/29/21	1704.51	0.000054	No	0.000001	No	0.0000028	No
GILBANEPM061721-1279	2	6/29/21	1717.48	0.000016	No	0.0000008	No	0.0000017	No

Notes:

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

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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

ATTACHMENT 5 TOTAL SUSPENDED PARTICULATES MONITORING RESULTS

Attachment 5

Attachment 5: Total Suspended Particulates Monitoring Results

Sample, Date and Stat	ion Informati	ion	Sampler Run Information	Tota	ıl Suspende	d Particula	tes
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m ³)	Basewide HPNS Level (mg/m³)	Exceedance (Yes/No)
GILBANETSP051321-1203	1	6/2/21	1660.44	0.0197538			
GILBANETSP051321-1204	2	6/2/21	1736.01	0.0153801	-0.004	0.5	No
GILBANETSP051321-1205	1	6/3/21	1645.95	0.0078374			
GILBANETSP051321-1206	2	6/3/21	754.98	0.0098016	0.002	0.5	No
GILBANETSP051321-1207	1	6/4/21	1615.32	0.0347919			
GILBANETSP051321-1208	2	6/4/21	1677.75	0.0270601	-0.008	0.5	No
GILBANETSP051321-1209	1	6/4/21 ²	444.51	0.0332951			
GILBANETSP051321-1210	2	6/4/21 ²	499.49	0.0360368	0.003	0.5	No
GILBANETSP051321-1211	1	6/8/21	1721.46	0.0406632			
GILBANETSP051321-1212	2	6/8/21	1594.10	0.0363842	-0.004	0.5	No
GILBANETSP051321-1213	1	6/9/21	1653.88	0.0169903			
GILBANETSP051321-1214	2	6/9/21	1583.13	0.0162337	-0.001	0.5	No
GILBANETSP051321-1215	1	6/10/21	1735.45	0.0155003			
GILBANETSP051321-1216	2	6/10/21	1649.20	0.0196459	0.004	0.5	No
GILBANETSP051321-1217	1	6/10/21 ²	569.82	0.0150925			
GILBANETSP051321-1218	2	6/10/21 ²	569.01	0.0140595	-0.001	0.5	No
GILBANETSP051921-1219	1	6/15/21	1673.56	0.0138029			
GILBANETSP051921-1220	2	6/15/21	1639.24	0.0078085	-0.006	0.5	No
GILBANETSP051921-1221	1	6/16/21	1736.49	0.0346100			
GILBANETSP051921-1222	2	6/16/21	1660.05	0.0337339	-0.001	0.5	No

Attachment 5: Total Suspended Particulates Monitoring Results

Sample, Date and Stat	ion Informati	ion	Sampler Run Information	Tota	Il Suspende	d Particula	tes
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m³)	Basewide HPNS Level (mg/m³)	Exceedance (Yes/No)
GILBANETSP051921-1223	1	6/17/21	1771.23	0.0627248			
GILBANETSP051921-1224	2	6/17/21	1663.31	0.0410026	-0.022	0.5	No
GILBANETSP051921-1225	1	6/17/21 ²	541.98	0.0957600			
GILBANETSP051921-1226	2	6/17/21 ²	544.86	0.0565283	-0.039	0.5	No
GILBANETSP051921-1227	1	6/22/21	1793.02	0.0121583			
GILBANETSP051921-1228	2	6/22/21	1670.02	0.0105388	-0.002	0.5	No
GILBANETSP061721-1272	1	6/23/21	1726.90	0.0188778			
GILBANETSP061721-1273	2	6/23/21	1653.93	0.0105204	-0.008	0.5	No
GILBANETSP061721-1274	1	6/24/21	1718.90	0.0132643			
GILBANETSP061721-1275	2	6/24/21	1649.68	0.0085471	-0.005	0.5	No
GILBANETSP061721-1276	1	6/24/21 ²	576.51	0.0098871			
GILBANETSP061721-1277	2	6/24/21 ²	549.02	0.0087429	-0.001	0.5	No
GILBANETSP061721-1278	1	6/29/21	1694.25	0.0159363			
GILBANETSP061721-1279	2	6/29/21	1636.46	0.0122826	-0.004	0.5	No

Notes:

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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

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

ATTACHMENT 6 AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

Attachment 6

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AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

				Р	roject Inform	ation					Effluent	Air Con	centration		Sa	mpling Per	iod	Value < 0.1 x Effluent Conc (i.e., < 10%)					
Contract /	Task Order Nu	umber: I	Project Title	e / Locatio	on:		Gilbane Project N	Number:					Alpha	Beta	Air s	amples colle	ected		Value < 0).1 x Efflue	ent Conc (i.e	e., < 10%)	
N62473	3-17-D-0005 /	F4332		Parcel E	RA HPNS, SI	F, CA	J3	10000400			Radi	onuclide	Ra-226	Sr-90	between	01 Jun 202	21		Value > 0).1 x Efflue	ent Conc (i.e	e., > 10%)	
			Inforr	mation ef	fective as of:	14 Jul 2021				Ef	ffluent Conc	(μCi/ml)	9.E-13	6.E-12	and	30 Jun 202	21		Value >	> Effluent	Conc (i.e., >	100%)	
				S	Sample Colle	ction							Count I	nformatio	n				Sample	Results		lni	tials
Sample	Sample	Sam	ple	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data
Number	Туре	Loca		No	Rate (lpm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer
AS-0199	Perimeter	MSE		PE09	60	6/1/21 6:49	6/1/21 15:50	541	3.2E+07	С	06/08/21	1	cpm	0.20	4.35	0.6	8.9	7.8E-15	1.2E-13	0.9%	2.1%	DVT	BCS
AS-0200	Perimeter	MSE	02	PE10	60	6/1/21 7:00	6/1/21 15:40	520	3.1E+07	С	06/08/21	1	cpm	0.25	4.00	0.7	8.0	1.0E-14	1.1E-13	1.1%	1.9%	DVT	BCS
AS-0201	Perimeter	MSE		PE09	60	6/2/21 5:10	6/2/21 15:45	635	3.8E+07	С	06/08/21	1	cpm	0.00	3.95	0.0	7.8	0.0E+00	9.2E-14	0.0%	1.5%	DVT	BCS
AS-0202	Perimeter	MSE	02	PE10	60	6/2/21 5:05	6/2/21 15:30	625	3.8E+07	С	06/08/21	1	cpm	0.15	3.65	0.4	7.0	5.1E-15	8.4E-14	0.6%	1.4%	DVT	BCS
AS-0203	Perimeter	MSE	01	PE09	60	6/3/21 5:05	6/3/21 15:40	635	3.8E+07	С	06/08/21	1	cpm	0.05	3.60	0.1	6.8	1.7E-15	8.1E-14	0.2%	1.3%	DVT	BCS
AS-0204	Perimeter	MSE	02	PE10	60	6/3/21 5:10	6/3/21 15:00	590	3.5E+07	С	06/08/21	1	cpm	0.15	3.90	0.4	7.7	5.4E-15	9.8E-14	0.6%	1.6%	DVT	BCS
AS-0205	Perimeter	MSE	01	PE09	60	6/4/21 5:05	6/4/21 13:29	504	3.0E+07	С	06/08/21	1	cpm	0.15	4.05	0.4	8.1	6.3E-15	1.2E-13	0.7%	2.0%	DVT	BCS
AS-0206	Perimeter	MSE	02	PE10	60	6/4/21 5:00	6/4/21 13:49	529	3.2E+07	С	06/08/21	1	cpm	0.10	4.80	0.3	10.2	4.0E-15	1.5E-13	0.4%	2.4%	DVT	BCS
AS-0207	Perimeter	MSE	01	PE09	60	6/7/21 6:42	6/7/21 15:25	523	3.1E+07	С	06/14/21	1	cpm	0.35	4.85	1.0	10.4	1.4E-14	1.5E-13	1.6%	2.5%	DVT	BCS
AS-0208	Perimeter	MSE	02	PE10	60	6/7/21 7:19	6/7/21 15:30	491	2.9E+07	С	06/14/21	1	cpm	0.20	4.30	0.6	8.8	8.6E-15	1.3E-13	1.0%	2.2%	DVT	BCS
AS-0209	Perimeter	MSE	01	PE09	60	6/8/21 5:05	6/8/21 15:30	625	3.8E+07	С	06/14/21	1	cpm	0.30	3.90	0.8	7.7	1.0E-14	9.2E-14	1.1%	1.5%	DVT	BCS
AS-0210	Perimeter	MSE	02	PE10	60	6/8/21 5:00	6/8/21 15:35	635	3.8E+07	С	06/14/21	1	cpm	0.30	4.05	0.8	8.1	1.0E-14	9.6E-14	1.1%	1.6%	DVT	BCS
AS-0211	Perimeter	MSE	01	PE09	60	6/9/21 4:30	6/9/21 15:40	670	4.0E+07	С	06/14/21	1	cpm	0.10	3.40	0.3	6.3	3.1E-15	7.0E-14	0.3%	1.2%	DVT	BCS
AS-0212	Perimeter	MSE	02	PE10	60	6/9/21 4:20	6/9/21 14:30	610	3.7E+07	С	06/14/21	1	cpm	0.05	4.55	0.1	9.5	1.7E-15	1.2E-13	0.2%	2.0%	DVT	BCS
AS-0213	Perimeter	MSE	01	PE09	60	6/10/21 4:45	6/10/21 15:15	630	3.8E+07	С	06/14/21	1	cpm	0.15	3.45	0.4	6.4	5.0E-15	7.6E-14	0.6%	1.3%	DVT	BCS
AS-0214	Perimeter	MSE	02	PE10	60	6/10/21 4:35	6/10/21 15:00	625	3.8E+07	С	06/14/21	1	cpm	0.30	4.90	8.0	10.5	1.0E-14	1.3E-13	1.1%	2.1%	DVT	BCS
AS-0215	Perimeter	MSE	01	PE09	60	6/14/21 6:42	6/14/21 15:00	498	3.0E+07	С	06/21/21	1	cpm	0.00	3.80	0.0	7.4	0.0E+00	1.1E-13	0.0%	1.9%	DVT	BCS
AS-0216	Perimeter	MSE	02	PE10	60	6/14/21 6:32	6/14/21 15:15	523	3.1E+07	С	06/21/21	1	cpm	0.15	4.85	0.4	10.4	6.0E-15	1.5E-13	0.7%	2.5%	DVT	BCS
AS-0217	Perimeter	MSE	01	PE09	60	6/15/21 5:00	6/15/21 15:15	615	3.7E+07	С	06/21/21	1	cpm	0.15	3.30	0.4	6.0	5.1E-15	7.3E-14	0.6%	1.2%	DVT	BCS
AS-0218	Perimeter	MSE	02	PE10	60	6/15/21 4:50	6/15/21 15:30	640	3.8E+07	С	06/21/21	1	cpm	0.05	4.25	0.1	8.7	1.6E-15	1.0E-13	0.2%	1.7%	DVT	BCS
AS-0219	Perimeter	MSE	01	PE09	60	6/16/21 5:05	6/16/21 15:05	600	3.6E+07	С	06/21/21	1	cpm	0.25	3.15	0.7	5.5	8.8E-15	6.9E-14	1.0%	1.2%	DVT	BCS
AS-0220	Perimeter	MSE	02	PE10	60	6/16/21 4:55	6/16/21 15:15	620	3.7E+07	С	06/21/21	1	cpm	0.25	4.45	0.7	9.2	8.5E-15	1.1E-13	0.9%	1.9%	DVT	BCS
AS-0221	Perimeter	MSE	01	PE09	60	6/17/21 4:50	6/17/21 15:15	625	3.7E+07	С	06/21/21	1	cpm	0.35	4.70	1.0	9.9	1.2E-14	1.2E-13	1.3%	2.0%	DVT	BCS
AS-0222	Perimeter	MSE	02	PE10	60	6/17/21 4:40	6/17/21 15:30	650	3.9E+07	С	06/21/21	1	cpm	0.35	4.75	1.0	10.1	1.1E-14	1.2E-13	1.3%	1.9%	DVT	BCS
AS-0223	Perimeter	MSE	01	PE09	60	6/21/21 6:30	6/21/21 15:30	540	3.2E+07	С	06/28/21	1	cpm	0.25	4.15	0.7	8.4	9.8E-15	1.2E-13	1.1%	1.9%	DVT	BCS
AS-0224	Perimeter	MSE	02	PE10	60	6/21/21 6:33	6/21/21 15:45	552	3.3E+07	С	06/28/21	1	cpm	0.15	3.95	0.4	7.8	5.7E-15	1.1E-13	0.6%	1.8%	DVT	BCS
AS-0225	Perimeter	MSE	01	PE09	60	6/22/21 5:05	6/22/21 15:15	610	3.7E+07	С	06/28/21	1	cpm	0.05	4.15	0.1	8.4	1.7E-15	1.0E-13	0.2%	1.7%	DVT	BCS
AS-0226	Perimeter	MSE	02	PE10	60	6/22/21 4:55	6/22/21 15:00	605	3.6E+07	С	06/28/21	1	cpm	0.15	3.55	0.4	6.7	5.2E-15	8.3E-14	0.6%	1.4%	DVT	BCS
AS-0227	Perimeter	MSE	01	PE09	60	6/23/21 4:55	6/23/21 15:00	605	3.6E+07	С	06/28/21	1	cpm	0.10	3.15	0.3	5.5	3.5E-15	6.9E-14	0.4%	1.1%	DVT	BCS
AS-0228	Perimeter	MSE	02	PE10	60	6/23/21 4:50	6/23/21 14:45	595	3.6E+07	С	06/28/21	1	cpm	0.00	3.50	0.0	6.5	0.0E+00	8.2E-14	0.0%	1.4%	DVT	BCS
AS-0229	Perimeter	MSE	01	PE09	60	6/24/21 6:45	6/24/21 15:30	525	3.2E+07	С	06/28/21	1	cpm	0.05	3.15	0.1	5.5	2.0E-15	7.9E-14	0.2%	1.3%	DVT	BCS
AS-0230	Perimeter	MSE	02	PE10	60	6/24/21 6:30	6/24/21 15:15	525	3.1E+07	С	06/28/21	1	cpm	0.10	3.50	0.3	6.5	4.0E-15	9.3E-14	0.4%	1.6%	DVT	BCS
AS-0231	Perimeter	MSE	01	PE09	60	6/28/21 7:12	6/28/21 15:30	498	3.0E+07	С	07/06/21	1	cpm	0.10	3.50	0.3	6.5	4.2E-15	9.9E-14	0.5%	1.6%	DVT	BCS
AS-0232	Perimeter	MSE	02	PE10	60	6/28/21 7:21	6/28/21 15:25	484	2.9E+07	С	07/06/21	1	cpm	0.05	4.60	0.1	9.7	2.2E-15	1.5E-13	0.2%	2.5%	DVT	BCS

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AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

				P	roject Inform	nation					Effluent	Air Con	centration		Sa	mpling Per	iod	Color Codes					
Contract /	Task Order N	umber:	Project Title	e / Locatio	on:		Gilbane Project N	Number:					Alpha	Beta	Air s	amples coll	ected		Value < 0).1 x Efflue	ent Conc (i.e	e., < 10%)	
N62473	3-17-D-0005 /	F4332		Parcel E	RA HPNS, S	F, CA	J3	10000400			Radi	onuclide	Ra-226	Sr-90	between	01 Jun 202	21				ent Conc (i.e		
			Infor	mation ef	fective as of:	14 Jul 2021				Ef	fluent Conc	(μCi/ml)	9.E-13	6.E-12	and	30 Jun 202	21		Value >	> Effluent (Conc (i.e., >	100%)	
				9	Sample Colle								Count I	nformatio					Sample			Init	tials
Sample	Sample	Sam	-	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross			dpm		(µCi/ml)		Conc (%)	Count	Data
Number	Туре	Loca		No	Rate (lpm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer
AS-0233	Perimeter	MSE		PE09	60	6/29/21 5:00	6/29/21 15:20	620	3.7E+07	С	07/06/21	1	cpm	0.05	3.85	0.1	7.5	1.7E-15	9.1E-14	0.2%	1.5%	DVT	BCS
AS-0234	Perimeter	MSE		PE10	60	6/29/21 4:55	6/29/21 15:10	615	3.7E+07	С	07/06/21	1	cpm	0.25	3.80	0.7	7.4	8.6E-15	9.0E-14	1.0%	1.5%	DVT	BCS
AS-0235	Perimeter	MSE		PE09	60	6/30/21 5:05	6/30/21 15:30	625	3.8E+07	С	07/06/21	1	cpm	0.10	3.75	0.3	7.2	3.4E-15	8.7E-14	0.4%	1.5%	DVT	BCS
AS-0236	Perimeter	MSE	Ξ02	PE10	60	6/30/21 4:55	6/30/21 15:15	620	3.7E+07	С	07/06/21	1	cpm	0.20	4.75	0.6	10.1	6.8E-15	1.2E-13	0.8%	2.0%	DVT	BCS
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ATTACHMENT 7 LABORATORY REPORTS

Attachment 7

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Job ID: 21060458



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

Client Project Name : HPNS Parcel E Phase II J310000400

Report To: Client Name: Gilbane Total Number of Pages: 4

Attn: P.O.#.: J310000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received: 06/04/2021 15:20

City, State, Zip: Concord, California, 94520 Sample Collected By:

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-060121	6/1/2021 15:30	Cassette	21060458.01
MSE02-060121	6/1/2021 15:50	Cassette	21060458.02
MSE01-060221	6/2/2021 15:52	Cassette	21060458.03
MSE02-060221	6/2/2021 15:58	Cassette	21060458.04



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ab-q210-0321



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT NALYSIS CONDUCTED BY A & R ENVIRONMENTAL SERVI

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC. AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 6/10/2021

Job ID: 21060458

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	е		Project: HPI	NS Parcel E F	Phase II I	31000040	00				ı	Attn:			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21060458.01	MSE01-060121	06/01/2021	Area	2			470	940	100	15.5	19.745	0.008		06/10/21	
21060458.02	MSE02-060121	06/01/2021	Area	2			472	944	100	16.0	20.382	0.008		06/10/21	
21060458.03	MSE01-060221	06/02/2021	Area	2			488	976	100	22.5	28.662	0.011		06/10/21	
21060458.04	MSE02-060221	06/02/2021	Area	2			476	952	100	15.0	19.108	0.007		06/10/21	



Sample Condition Checklist

A&B	AB JobID : 21060458 Date Received : 06/04/2021	Time I	Received: 3	:20PM		
Clier	ient Name : Gilbane					
Tem	mperature : 24.8-0.1CF=24.7°C Sample pH : N/A					
Ther	ermometer ID : 1709629 pH Paper ID : N/A					
Pers	erservative :					
	Check Points			Yes	No	N/A
1.	. Cooler seal present and signed.			Х		
2.	. Sample(s) in a cooler.				Х	
3.	. If yes, ice in cooler.					Х
4.	. Sample(s) received with chain-of-custody.			Х		
5.	. C-O-C signed and dated.			Х		
6.	. Sample(s) received with signed sample custody seal.				Х	
7.	. Sample containers arrived intact. (If no comment).			Х		
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube	Bulk	Badge	Food	Oth	er
0.]
9.	. Sample(s) were received in appropriate container(s).			Х		
10.	O. Sample(s) were received with proper preservative					Х
11.	L. All samples were logged or labeled.			Х		
12.	2. Sample ID labels match C-O-C ID's			Х		
13.	Bottle count on C-O-C matches bottles found.			Х		
14.	3. Sample volume is sufficient for analyses requested.			Х		
15.	5. Samples were received within the hold time.			Х		
16.	5. VOA vials completely filled.					Х
17.	7. Sample accepted.			Х		
18	Has client been contacted about sub-out					Х
Com	omments : Include actions taken to resolve discrepancies/problem:					
Samp	nples received in a box with a custody sealANA 6-4-21.					

Received by: Check in by/date / 06/04/2021

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane											Cl	hain	-Of	-Cus	tody	,
Project Name and Number: Project Manager Site Location: Hunters Point	HPNS Parcel F			00		Labora Addre	ss:	Name: A&B 10100 East Fu Houston TX 7		Contac	t Name:			Date: _6 Page: <u>1</u>		
lob ID-044					Ī	Ţ		Analysis:						T		
Job ID:21(Date Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	iner Type:						Flow Rate	uctions/Com	
MSE01-060121 01A	6/1/2021	1530	NA	NA	1	AA	X						-	Total Time	e (min)	
MSE02-060121 UZA	6/1/2021	1550	NA	NA	1	AA	Х							472		
MSE01-060221 U3A	6/2/2021	1552	NA	NA	1	AA	Х							488		
MSE02-060221 (9A	6/2/2021	1558	NA	NA	1	AA	X							476		
Sampled By:				Sample	ec						Courier/A	irbill No.: Fe	edEx/ 77	39 0327 5951		
Special Instructions: Nove			R	telinquis	shed B	y/Affilia	ti ớ n:	,	Date:	Time:		By/ Affiliation			Date:	Time:
Gend edawson@gilba Results to: ktom@gilbaneco																
Furnaround Time: Standard															1	

10: Page 4 of 4 6 29

TEMP: 24.8-0-1=24.7°C

Job ID: 21060873



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

Client Project Name : HPNS Parcel E Phase II J310000400

Report To: Client Name: Gilbane Total Number of Pages: 4

Attn: P.O.#.: J310000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received: 06/09/2021 17:20

City, State, Zip: Concord, California, 94520 Sample Collected By

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-060321	6/3/2021 15:52	Cassette	21060873.01
MSE02-060321	6/3/2021 15:58	Cassette	21060873.02
MSE01-060421	6/4/2021 13:35	Cassette	21060873.03
MSE02-060421	6/4/2021 14:17	Cassette	21060873.04
MSE01-060721	6/7/2021 15:45	Cassette	21060873.05
MSE02-060721	6/7/2021 15:32	Cassette	21060873.06



Analyst:

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ab-q210-0321

Report Number: RPT210621076



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 6/21/2021

Job ID: 21060873

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	2		Project: HPI	NS Parcel E I	Phase II :	31000040	00				ı	Attn:			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21060873.01	MSE01-060321	06/03/2021	Area	2			484	968	100	16.5	21.019	0.008		06/18/21	
21060873.02	MSE02-060321	06/03/2021	Area	2			475	950	100	20.0	25.478	0.010		06/18/21	i
21060873.03	MSE01-060421	06/04/2021	Area	2			384	768	100	21.0	26.752	0.013		06/18/21	
21060873.04	MSE02-060421	06/04/2021	Area	2			408	816	100	18.5	23.567	0.011		06/18/21	
21060873.05	MSE01-060721	06/07/2021	Area	2			445	890	100	20.0	25.478	0.011		06/18/21	
21060873.06	MSE02-060721	06/07/2021	Area	2			400	800	100	14.5	18.471	0.009		06/18/21	i



Received by:

Sample Condition Checklist

A&B	JobID: 21060873	Date Received: 06	/09/2021		Time I	Received: 5	:20PM		
	t Name : Gilbane	Date Received 1 CC	, 00, 1011		1				
	_	Carrala all i /-							
	perature : 34.0-0.1cf=33.9°C	Sample pH: n/a							
	mometer ID : 1709629	pH Paper ID : n/a							
Pers	ervative :								
		Check Point	:s				Yes	No	N/A
1.	Cooler seal present and signed.						Х		
2.	Sample(s) in a cooler.							Χ	
3.	If yes, ice in cooler.								Х
4.	Sample(s) received with chain-of-cus	stody.					Х		
5.	C-O-C signed and dated.						Х		
6.	Sample(s) received with signed sam	ple custody seal.						Х	
7.	Sample containers arrived intact. (If	no comment).					Х		
	Matrix Water Soil Liquid	d Sludge Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.	: 0 0 0		V]
9.	Sample(s) were received in appropria	ate container(s).					X		
10.	Sample(s) were received with proper	preservative							Х
11.	All samples were logged or labeled.						Х		
12.	Sample ID labels match C-O-C ID's						Х		
13.	Bottle count on C-O-C matches bottle	es found.					Х		
14.	Sample volume is sufficient for analy	ses requested.					Х		
15.	Samples were received within the ho	ld time.					Х		
16.	VOA vials completely filled.								Х
17.	Sample accepted.						Х		
18	Has client been contacted about sul	b-out							Х
Com	ments : Include actions taken to resol	ve discrepancies/probl	em:				1		I
	red in box with C/S attachedVH 06-10-21								

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Check in by/date / 06/10/2021

Gilban	е								Chain-Of	f-Custody
Project Name and Numb Project Manager: Site Location: Hunter	ber.	IPNS Parcel E San Francisco			00		_abora Addres	tory Name: A&B Labs s: 10100 East Fwy Ste. 100 Houston TX 77029	Contact Name:	Date: 6/8/2021 Page: 1 of _1
사람이 하다 박 사용을 가가 있을 가득하다.	Job ID:21060873				Sample Depth (bottom)	of Containers	fatrix	Analysis:		
Sample ID		Date	Time	Sample Depth (top)	Sample D	No. of Co	Sample Matrix	Preservative: None Container Type: Filter		Flow Rate = 2 L/min Special Instructions/Comments Total Time (min)
	DIA DZA DZA DYA DSA DUA	6/3/2021 6/3/2021 6/4/2021 6/4/2021 6/7/2021 6/7/2021	1552 1558 1335 1417 1545 1532	NA NA NA NA NA	NA NA NA NA NA	1 1 1 1	AA AA AA AA AA	X X X X X		484 475 384 408 445 400
Property of the second	No on@gilba	aneco.com		ļ	Sample		ру <i>н</i> чина	Date:	Courier/Airbill No.: FedEx/ Time: Received By/ Affiliation:	7739 4004 9585 Date: Time:

Job ID: 21061093



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

Client Project Name : HPNS Parcel E Phase II J310000400

Report To: Client Name: Gilbane Total Number of Pages: 4

Attn: P.O.#.: J310000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received: 06/11/2021 12:45

City, State, Zip: Concord, California, 94520 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-060821	6/8/2021	Cassette	21061093.01
MSE02-060821	6/8/2021	Cassette	21061093.02
MSE01-060921	6/9/2021	Cassette	21061093.03
MSE02-060921	6/9/2021	Cassette	21061093.04





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ab-q210-0321

6/18/2021

Page 1 of 4 Report Number: RPT210618079



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 6/18/2021

Job ID: 21061093

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	Client: Gilbane Project: HPNS Parcel E Phase II J310000400														
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
21061093.01	MSE01-060821	06/08/2021	Area	2			445	890	100	23.5	29.936	0.013		06/18/21	
21061093.02	MSE02-060821	06/08/2021	Area	2			449	898	100	18.5	23.567	0.010		06/18/21	
21061093.03	MSE01-060921	06/09/2021	Area	2			500	1000	100	15.5	19.745	0.008		06/18/21	
21061093.04	MSE02-060921	06/09/2021	Area	2			512	1024	100	13.5	17.197	0.006		06/18/21	



Received by:

Sample Condition Checklist

A&B	JobID: 21061093	Date Received : 0	6/11/2021	Time	Received :	12:45PM		
Clier	t Name : Gilbane							
Tem	perature : 15.3-0.1cf=15.2°C	Sample pH: N/	A					
Ther	mometer ID : 1709629	pH Paper ID : N/	A					
Pers	servative :							
		Check Poir	nts			Yes	No	N/A
1.	Cooler seal present and signed.							Х
2.	Sample(s) in a cooler.						Χ	
3.	If yes, ice in cooler.							Х
4.	Sample(s) received with chain-of-cu	ıstody.				Х		
5.	C-O-C signed and dated.	Х						
6.	Sample(s) received with signed sam		Χ					
7.	Sample containers arrived intact. (I	f no comment).				Х		
8.	Matrix Water Soil Liqu	Food	Oth	er				
			L	<u> </u>				
9.	Sample(s) were received in appropr					X		Х
10.	Sample(s) were received with prope	er preservative				X		^
11.	All samples were logged or labeled.							
12.	Sample ID labels match C-O-C ID's					X		
13.	Bottle count on C-O-C matches bott					X		
14.	Sample volume is sufficient for anal					X		
15.	Samples were received within the horizontal VOA vials completely filled.	ola time.				X		.,
16.			Х					
4-								
17.	Sample accepted.					X		
18	Sample accepted. Has client been contacted about su					X		Х
18 Com	Sample accepted. Has client been contacted about suments: Include actions taken to reso	lve discrepancies/pro	blem:			X		X
18 Com	Sample accepted. Has client been contacted about su	lve discrepancies/pro	blem:			X		Х
18 Com	Sample accepted. Has client been contacted about suments: Include actions taken to reso	lve discrepancies/pro	blem:			X		Х

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

CIL										
Gilbane									Chain-Of-C	Custody
Project Name and Number:	HPNS Parcel 1	E Phase II J	3100004	100		Labor	atory Name: A&B Labs			Date: 6/10/2021
Project Manager.					_	Addre		Contact Name		
Site Location: <u>Hunters Point</u>	, San Francisc	co, CA 941	124		_		Houston TX 77029		· P	Page: 1of _1
						1	Analysis:			
	٩	٩	Sample Depth (top)	Sample Depth (bottom)	of Containers	Sample Matrix	Preservative: None		Fic	ow Rate = 2 L/min
Sample ID	Date	Time	Sam	Sam	No.	Samp	Container Type: Filter		Spe	ecial Instructions/Comments
MSE01-060821 OIA	6/8/2021	1552	NA	NA	1	AA	X		10	tal Time (min)
MSE02-060821 02A	6/8/2021	1540	NA	NA	1	AA	X			
MSE01-060921 03A	6/9/2021	1539	NA	NA	1	AA	X		44	
MSE02-060921 04A	6/9/2021	1540	NA	NA	1	AA	X	v	50	
						AA	^		51	2
Job ID:21										
Sampled By.			_	Sample				Cour	ier/Airbill No.: FedEx/ 7739 66	550 0717
Signature: Special Instructions: No-			_ R	elinquis	hed by	/Annat	Date:		ived By/ Affiliation:	Date: Time:
TV GC	~									
Send edawson@gilban Results to: ktom@gilbaneco.			_							
Turnaround Time: Standard			_							

TEMP: 15.3 - 0. (f=15.7° 17/00/100

Job ID: 21061413



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

Client Project Name : HPNS Parcel E Phase II J310000400

Report To: Client Name: Gilbane Total Number of Pages: 4

Attn: P.O.#.: J310000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received: 06/16/2021 16:39

City, State, Zip: Concord, California, 94520 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-061021	6/10/2021	Cassette	21061413.01
MSE02-061021	6/10/2021	Cassette	21061413.02
MSE01-061421	6/14/2021	Cassette	21061413.03
MSE02-061421	6/14/2021	Cassette	21061413.04



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ab-q210-0321

6/23/2021

Report Number: RPT210623065



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 6/23/2021

Job ID: 21061413

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilban	е		Project: HPN	NS Parcel E F	Phase II I	31000040	00					Attn:			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21061413.01	MSE01-061021	06/10/2021	Area	2			472	944	100	24.5	31.210	0.013		06/23/21	
21061413.02	MSE02-061021	06/10/2021	Area	2			494	988	100	12.5	15.924	0.006		06/23/21	
21061413.03	MSE01-061421	06/14/2021	Area	2			455	910	100	20.0	25.478	0.011		06/23/21	
21061413.04	MSE02-061421	06/14/2021	Area	2			503	1006	100	21.5	27.389	0.010		06/23/21	



Sample Condition Checklist

A&B	JobID: 21061413	Date Receive	d: 06	/16/2021		Time	Received :	4:39PM					
Clien	t Name : Gilbane	<u>.L</u>				I							
Temp	perature : 22.3-0.1cf=22.2°C	Sample pH:	n/a										
Ther	mometer ID : 1709629	pH Paper ID	: n/a										
Pers	ervative :												
		Chec	k Point	ts				Yes	No	N/A			
1.	Cooler seal present and signed.							Х					
2.	Sample(s) in a cooler.								Χ				
3.	If yes, ice in cooler.									Х			
4.	Sample(s) received with chain-of-c	Х											
5.	C-O-C signed and dated.	Х											
6.	Sample(s) received with signed sample		Χ										
7.													
8.	Matrix Water Soil Liqu	id Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er			
0.				~									
9.	Sample(s) were received in approp	iate container(s	s).					Х					
10.	Sample(s) were received with prop	er preservative								Х			
11.	All samples were logged or labeled.							Х					
12.	Sample ID labels match C-O-C ID's							Х					
13.	Bottle count on C-O-C matches bott	les found.						Х					
14.	Sample volume is sufficient for ana	yses requested.						Х					
15.	Samples were received within the h	old time.						Х					
16.	VOA vials completely filled.									Х			
17.	Sample accepted.							Х					
18 Has client been contacted about sub-out													
Com	ments : Include actions taken to res	lve discrepancie	es/prob	em:									
Receiv	ed in box with custody sealVH 6-16-21												
1100011	,,,												

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

	Gilbane												Chain-	Of-Cu	stody	
	Project Name and Number: Project Manager: Site Location: Hunters Point	HPNS Parcel E			00		abora Addres	s: 10	0100 Ea ouston	TX 77	Ste. 100	Contact	Name:	Date:	6/15/2021 1 of 1	_
100 2PA	Sample ID MSE01-061021 MSE02-061021 MSE01-061421 MSE02-061421	6/10/2021 6/10/2021 6/14/2021 6/14/2021	1505 1519 1545 1600	ZZZZ Sample Depth (top)	Sample Depth (bottom)	1 1 1 No. of Containers	A A B Sample Matrix	-Non	iner Typ				061413	Special	Rate = 2 L/mi Instructions/Cor Fime (min)	
	Sampled By: _			- [Sample		1				15-1-	Trace	Courier/Airbill No.: Fed	77.10.37.10	1871 Date:	Time:
	Signature:Special Instructions:	ı		_	Relinqui:	shed B	By/Affilia	ation:			Date:	Time:	Received By/ Affiliation		Date.	Time.
	Send <u>edawson@gilloane</u> Results to: ktom@gilbane	eco.com		=												
	Turnaround Time: Standard															

Job ID: 21061680



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

Client Project Name : HPNS Parcel E Phase II 1310000400

Report To: Client Name: Gilbane Total Number of Pages: 5

Attn: P.O.#.: J310000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received : 06/21/2021 08:00

City, State, Zip: Concord, California, 94520 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-061521	6/15/2021 15:33	Cassette	21061680.01
MSE02-061521	6/15/2021 15:30	Cassette	21061680.02
MSE01-061621	6/16/2021 15:31	Cassette	21061680.03
MSE02-061621	6/16/2021 15:35	Cassette	21061680.04



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ab-q210-0321

6/30/2021

Page 1 of 5 Report Number: RPT210630064



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 6/30/2021

Job ID: 21061680

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	9		Project: HPI	NS Parcel E I	Phase II	13100004	00								
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
21061680.01	MSE01-061521	06/15/2021	Area	2			499	998	100	18.5	23.567	0.009		06/30/21	
21061680.02	MSE02-061521	06/15/2021	Area	2			509	1018	100	12.5	15.924	0.006		06/30/21	
21061680.03	MSE01-061621	06/16/2021	Area	2			503	1006	100	13.0	16.561	0.006		06/30/21	
21061680.04	MSE02-061621	06/16/2021	Area	2			521	1042	100	13.5	17.197	0.006		06/30/21	



Sample Condition Checklist

A&B	JobID :	2106168	30		ate Receiv	ed: 06	5/21/2021		Time	Received:	8:00AM		
Clien	t Name :	Gilbane											
Tem	perature :	22.5-0.	1cf=22.	4°C S	Sample pH	n/a	1						
Ther	mometer ID	: 170962	29	р	H Paper ID	: n/a	1						
Pers	servative :												
	Ī											T	1
					Che	ck Poin	ts				Yes	No	N/A
1.	Cooler sea	l present a	nd signe	d.							Х		
2.	Sample(s)	in a coole	r.									Х	
3.	If yes, ice i	in cooler.											Х
4.	Sample(s)	received v	with chair	n-of-custo	dy.						Х		
5.	C-O-C sign	ed and da	ted.								Х		
6.	Sample(s)	received v	with signe	ed sample	custody se	eal.						Х	
7.	Sample co	ntainers a	rrived int	act. (If no	comment)						Х		
8.	Matrix	Badge	Food	Oth	ıer								
	-						V]
9.	Sample(s)	were rece	ived in a	ppropriate	container((s).					Х		
10.	Sample(s)	were rece	ived with	proper pi	reservative								Х
11.	All samples	s were log	ged or la	beled.							Х		
12.	Sample ID	labels ma	tch C-O-(C ID's							Х		
13.	Bottle cour	nt on C-O-	C matche	es bottles f	found.						Х		
14.	Sample vo	lume is su	fficient fo	or analyses	s requested	l.					Х		
15.	Samples w	ere receiv	ed within	the hold	time.						Х		
16.	VOA vials	completely	filled.										Х
17.	Sample acc	cepted.									Х		
18	Has client	been con	tacted ab	oout sub-o	out								Х
Com	ments : Incl	ude action	ns taken t	to resolve	discrepanc	ies/prob	lem:						
		-						· · · · · · · · · · · · · · · · · · ·		<u>-</u>			

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane													Cl	nai	n-O	f-Cus	tody	/
Project Name and Number:	HPNS Parcel E	Phase II J3	100004	00	- 1	abora	atory N	lame:	A&E	B Labs						Date: _6	/17/2021	
Project Manager:					/	Addres	ss: <u>1</u>	0100	East Fy	vy Ste. 10	00 C	Contact	Name _			Page: 1	of _1	
Site Location: Hunters Poin	nt, San Francisc	o, CA 941	24				Ŧ	Iousto	on TX 7	77029					8			
3 9 20 20			1			[Ana	lysis:									
Job ID:21061	1680		(0	ttom)			sc											
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	ainer T								Flow Rate	ructions/Co	
MSE01-061521	6/15/2021	1533	NA	NA	1	AA	Х					9				499		DIA
MSE02-061521	6/15/2021	1530	NA	NA	1	AA	X								100	509		02A
MSE01-061621	6/16/2021	1531	NA	NA	1	AA	Х									503		D3A
MSE02-061621	6/16/2021	1535	NA	NA	1	AA	X									521		DYA
Sampled By:				Sample	er:								Courier/	Airbill No	: FedEx/	7740 2846 8078	3	
Signature:Special Instructions:N0	2.40	20 14	_	Relinquis	shed B	y/Affilia	ation:			Dat	te:	Time:	Received	d By/ Affi		7710 2010 0071	Date:	Time:
Send _edawson@gi	170907	I III																
Results to: ktom@gilban																		
Turnaround Time: Standard			_															



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Job ID: 21062060



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

Client Project Name : HPNS Parcel E Phase II J310000400

Report To: Client Name: Gilbane Total Number of Pages: 5

Attn: P.O.#.:

Client Address: 1655 Grant Street, Suite 1200 Date Received : 06/23/2021 14:45

City, State, Zip: Concord, California, 94520 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-061721	6/17/2021 14:53	Cassette	21062060.01
MSE02-061721	6/17/2021 14:44	Cassette	21062060.02
MSE01-062121	6/21/2021 15:25	Cassette	21062060.03
MSE02-062121	6/21/2021 15:18	Cassette	21062060.04



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ab-q210-0321

6/30/2021

Report Number: RPT210630048

J310000400-0015



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 6/30/2021

Job ID: 21062060

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane Project: HPNS Parcel E Phase II J310000400 Attn:											Attn:				
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21062060.01	MSE01-061721	06/17/2021	Area	2			461	922	100	11.5	14.650	0.006		06/30/21	
21062060.02	MSE02-061721	06/17/2021	Area	2			465	930	100	13.0	16.561	0.007		06/30/21	
21062060.03	MSE01-062121	06/21/2021	Area	2			501	1002	100	14.5	18.471	0.007		06/30/21	
21062060.04	MSE02-062121	06/21/2021	Area	2			465	930	100	16.0	20.382	0.008		06/30/21	



TGillespie

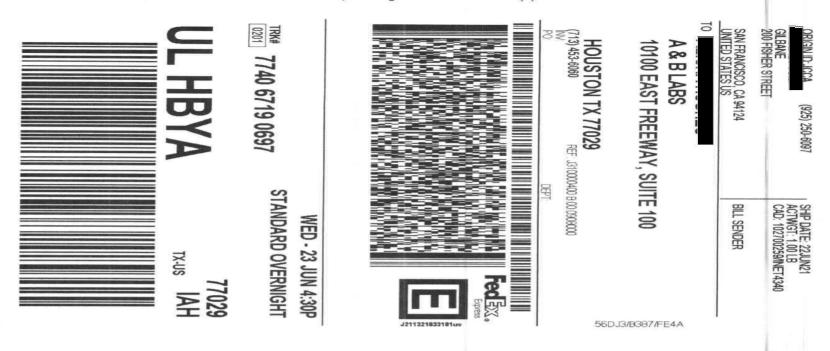
Sample Condition Checklist

A&B	JobID: 21062060	Date Received: 06/23/2021 Time Received: 2:	45PM		
Clier	t Name : Gilbane	<u> </u>			
Tem	perature : 22.9-0.1cf=22.8°C	Sample pH: n/a			
	mometer ID : 1709629	pH Paper ID: n/a			
Pers	servative :				
		Check Points	Yes	No	N/A
1.	Cooler seal present and signed.		Х		
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-cus	stody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sam	ple custody seal.		Х	
7.	Sample containers arrived intact. (If	no comment).	Х		
	Matrix Water Soil Liquid	d Sludge Solid Cassette Tube Bulk Badge	Food	Oth	er
8.					1
			<u> </u>		!
9.	Sample(s) were received in appropria		X		
9. 10.		ate container(s).	X		X
	Sample(s) were received in appropris	ate container(s).	X		
10.	Sample(s) were received in appropria	ate container(s).			
10. 11.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled.	r preservative	X		
10. 11. 12.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's	r preservative es found.	X		
10. 11. 12. 13.	Sample(s) were received in appropriate Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle	es found. ses requested.	X X X		
10. 11. 12. 13.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy	es found. ses requested.	X X X		
10. 11. 12. 13. 14.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho	es found. ses requested.	X X X		X
10. 11. 12. 13. 14. 15.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled.	es found. ses requested. Id time.	x x x x x x x		X
10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropriate Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the how VOA vials completely filled. Sample accepted.	es found. ses requested. Id time.	x x x x x x x		X
10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled. Sample accepted. Has client been contacted about suf	es found. ses requested. Id time.	x x x x x x x		X
10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received in appropria Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled. Sample accepted. Has client been contacted about suf	es found. ses requested. Id time.	x x x x x x x		X

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Project Name and Number: HENS Parcel E Phase II 110000100	1	Gilbane						-							Ch	ain	-Of	-Cust	tody	
Sine Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029	ı		HPNS Parcel E	Phase II J3	1000040	00	· L	abora	itory N	lame:	A&B	Labs						Date: _6	/22/2021	
Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029	- 1	Project Manager: Brett Woma	ck					Addres	s: <u>1</u>	0100 E	East Fw	y Ste. 10	<u>00</u> Co	ntact N	lame: <u>Alis</u>	ha Hugh	es	— Page: <u>1</u>	of _1	
Sample ID Samp				o, CA 941	24				I	Iouston	n TX 77	029								
MSE01-061721 6/17/2021 1453 NA NA 1 AA X 465 MSE02-061721 6/17/2021 1444 NA NA 1 AA X 465 MSE01-062121 6/21/2021 1525 NA NA 1 AA X 501 MSE02-062121 6/21/2021 1518 NA NA 1 AA X 501 MSE02-062121 6/21/2021 1518 NA NA 1 AA X 501 Sampled By: Sampled By: Signature: Special Instructions: Send Results to: Results		Job ID:21062	060 			(Analy	rsis:									
MSE02-061721 6/17/2021 1444 NA NA 1 AA X MSE01-062121 6/21/2021 1525 NA NA 1 AA X MSE02-062121 6/21/2021 1518 NA NA 1 AA X MSE02-062121		Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom	No. of Containers	Sample Matrix	Nor Conta	ne ainer Ty								Special Ins	tructions/Co	
MSE01-062121 6/21/2021 1525 NA NA 1 AA X MSE02-062121 6/21/2021 1518 NA NA 1 AA X MSE02-062121 6/21/2021 1518 NA NA 1 AA X MSE02-062121 6/21/2021 1518 NA NA 1 AA X MSE02-062121 MSE02-0621	A	MSE01-061721	6/17/2021	1453	NA	NA	1	AA	Х									461		
MSE01-062121 6/21/2021 1525 NA NA 1 AA X		MSE02-061721	6/17/2021	1444	NA	NA	1	AA	X									465		
Sampled By: Signature: Special Instructions: Send Results to: Re		MSE01-062121	6/21/2021	1525	NA	NA	1	AA	X									501		
Signature:		MSE02-062121	6/21/2021	1518	NA	NA	1	AA	X									465		
Signature:																				
Signature: Special Instructions: Send Results to: Relinquished By/Amiliation: Date: Time: Received By/ Affiliation: Date: Received By/ Affiliation: Date: Time: Received By/ Affiliation: Date: Time: Received By/ Affiliation: Results to: ktom@gilbaneco.com	-					Camala		1							Courier/A	irbill No :	EndEy/	1		
Signature: Special Instructions: NINC Send Results to: ktom@gilbaneco.com ktom@gilbaneco.com					— L													7740 6719 069		-
Send edawson@gilbaneco.com Results to: ktom@gilbaneco.com	1				F	Relinquis	shea B	y/Amiia	ation:			Da	ite: Ti	ime:	Received	By/ Affilia	ition:		Date:	Time:
Results to: ktom@gilbaneco.com			ì		_										2				l last	
T Standard		Deculto to			_ [_									
Turnaround Time: Statituaru		Turnaround Time: Standard																		



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Job ID: 21062293



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

Client Project Name : HPNS Parcel E Phase II J310000400

Report To: Client Name: Gilbane Total Number of Pages: 5

Attn: P.O.#.: J310000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received : 06/28/2021 10:00
City, State, Zip: Concord, California, 94520 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-062221	6/22/2021 15:18	Cassette	21062293.01
MSE02-062221	6/22/2021 15:15	Cassette	21062293.02
MSE01-062321	6/23/2021 15:00	Cassette	21062293.03
MSE02-062321	6/23/2021 14:55	Cassette	21062293.04

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on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

7/6/2021

ab-q210-0321

Page 1 of 5 Report Number: RPT210706071



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 7/6/2021

Job ID: 21062293

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	е		Project: HPI	NS Parcel E I	Phase II .	31000040	00					Attn:			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21062293.01	MSE01-062221	06/22/2021	Area	2			466	932	100	16.0	20.382	0.008		06/30/21	
21062293.02	MSE02-062221	06/22/2021	Area	2			475	950	100	9.0	11.465	0.005		06/30/21	
21062293.03	MSE01-062321	06/23/2021	Area	2			457	914	100	12.5	15.924	0.007		06/30/21	
21062293.04	MSE02-062321	06/23/2021	Area	2			463	926	100	14.0	17.834	0.007		06/30/21	



Sample Condition Checklist

A&B	A&B JobID: 21062293 Date Received: 06/28/2021 Time Received: 10														
Clien	t Name : Gilbane	.1													
Tem	perature : 21.2-0.1cf=21.1°C	Sample pH:	n/a												
Ther	mometer ID : 1709629	pH Paper ID :	n/a												
Pers	ervative :														
		Chec	k Point	:s				Yes	No	N/A					
1.	. Cooler seal present and signed.														
2.	Sample(s) in a cooler.								Х						
3.	If yes, ice in cooler.									Х					
4.	Sample(s) received with chain-of-co	ıstody.						Х							
5.	C-O-C signed and dated.							Х							
6.	Sample(s) received with signed sar	nple custody sea	al.						Χ						
7.	Sample containers arrived intact. (I	f no comment).						Х							
8.	Matrix Water Soil Liqu	id Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	-					
0.				~						<u> </u>					
9.	Sample(s) were received in appropr	iate container(s).					Х							
10.	Sample(s) were received with prope	r preservative								Х					
11.	All samples were logged or labeled.							Х							
12.	Sample ID labels match C-O-C ID's							Х							
13.	Bottle count on C-O-C matches bott	les found.						Х							
14.	Sample volume is sufficient for anal	yses requested.						Х							
15.	Samples were received within the h	old time.						Х							
16.	VOA vials completely filled.									Х					
17.	Sample accepted.							Х							
18	Has client been contacted about so	ıb-out								Х					
Com	Comments : Include actions taken to resolve discrepancies/problem:														
Receiv	Received in box with custody seal. TG 06-28-2021														

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

	Cilbane												Ch	ain-	-Of-	Custo	ody	
ı	Project Name and Number:	HPNS Parcel E	Phase II J3	1000040	00	. 1	abora	tory N	ame.	A&B	Labs					_ Date: 6/24	4/2021	
	Project Manager:						Addres			ast Fw	y Ste. 100	Contact	Name:			- Page: 1	_of _1	
-1	Site Location: Hunters Point	, San Francisco	o, CA 941	24		2		H	ousto	n TX 77	029	===						
1									Analy	sis:				, ,				
	Job ID:2106		ae	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Non	rvative e iner Ty							Flow Rate =		
	Sample ID	Date	Time	San	San	No	San	Filt	er	pe.						Special Instruc Total Time	(min)	iments
IA	MSE01-062221	6/22/2021	1518	NA	NA	1	AA	Х						1		466		
AS	MSE02-062221	6/22/2021	1515	NA	NA	1	AA	X								475		
30	MSE01-062321	6/23/2021	1500	NA	NA	1	AA	Χ								457		
4A	MSE02-062321	6/23/2021	1455	NA	NA	1	AA	X								463		
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	Signature:			F	Relinquis	shed B	y/Affilia	ation:			Date:	Time:	Received I	By/ Affiliation	on:		Date:	Time:
	Special Instructions: NUVE	1	111															
	192																	
	Send edawson@gilb																	
	ktom@gilbaneo	co.com																
	Turnaround Time: Standard			_														

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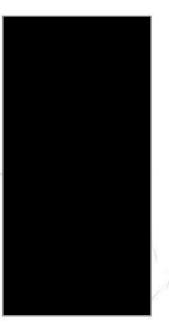
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Laboratory Analysis Report

Job ID: 21070111



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Client Project Name : HPNS Parcel E Phase II J310000400

Report To: Client Name: Gilbane Total Number of Pages: 4

Attn: P.O.#.: J310000400-0015

Client Address: 1655 Grant Street, Suite 1200 Date Received : 06/30/2021 16:2

City, State, Zip: Concord, California, 94520 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-062421	6/24/2021 15:00	Cassette	21070111.01
MSE02-062421	6/24/2021 14:51	Cassette	21070111.02
MSE01-062821	6/28/2021 15:28	Cassette	21070111.03
MSE02-062821	6/28/2021 15:19	Cassette	21070111.04



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ab-q210-0321

7/8/2021

Page 1 of 4 Report Number: RPT210708058



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 7/8/2021

Job ID: 21070111

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilban	е		Project: HPN	NS Parcel E F	Phase II I	31000040	00				ı	Attn:			
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21070111.01	MSE01-062421	06/24/2021	Area	2			466	932	100	19.5	24.841	0.010		07/08/21	
21070111.02	MSE02-062421	06/24/2021	Area	2			469	938	100	14.5	18.471	0.008		07/08/21	
21070111.03	MSE01-062821	06/28/2021	Area	2			468	936	100	13.5	17.197	0.007		07/08/21	
21070111.04	MSE02-062821	06/28/2021	Area	2			477	954	100	11.0	14.013	0.006		07/08/21	

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



Sample Condition Checklist

A&B	4:21PM						
Clier	nt Name : Gilbane						
Tem	perature : 20.2-0.1cf=20.1°C	Sample pH: N/A					
Ther	mometer ID : 1709629	pH Paper ID : N/A					
Pers	servative :						
		Check Points			Yes	No	N/A
1.	Cooler seal present and signed.				Х		
2.	Sample(s) in a cooler.					Χ	
3.	If yes, ice in cooler.						Х
4.	Sample(s) received with chain-of-cus	stody.			Х		
5.	C-O-C signed and dated.				Х		
6.	Sample(s) received with signed sam	ple custody seal.				Χ	
7.	Sample containers arrived intact. (If	no comment).			Х		
8.	Matrix Water Soil Liqui	d Sludge Solid Cas	sette Tube	Bulk Badge	Food	Other	
0.]
9.	Sample(s) were received in appropri	ate container(s).			Х		
9. 10.	Sample(s) were received in appropriate Sample(s) were received with proper				Х		Х
					X		Х
10.	Sample(s) were received with proper						X
10. 11.	Sample(s) were received with proper All samples were logged or labeled.	preservative			Х		X
10. 11. 12.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's	preservative			X X		X
10. 11. 12.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle	es found. ses requested.			X X X		X
10. 11. 12. 13.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy	es found. ses requested.			X X X		X
10. 11. 12. 13. 14.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho	es found. ses requested.			X X X		
10. 11. 12. 13. 14. 15.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the house VOA vials completely filled.	es found. ses requested. Id time.			x x x x		
10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled. Sample accepted. Has client been contacted about sufficients: Include actions taken to resol	es found. ses requested. Id time. D-out ve discrepancies/problem:			x x x x		X
10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled. Sample accepted. Has client been contacted about sufficient for analy samples were received within the hour sufficient for analy samples were received within the hour sufficient for analysis.	es found. ses requested. Id time. D-out ve discrepancies/problem:			x x x x		X
10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled. Sample accepted. Has client been contacted about sufficients: Include actions taken to resol	es found. ses requested. Id time. D-out ve discrepancies/problem:			x x x x		X
10. 11. 12. 13. 14. 15. 16. 17.	Sample(s) were received with proper All samples were logged or labeled. Sample ID labels match C-O-C ID's Bottle count on C-O-C matches bottle Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled. Sample accepted. Has client been contacted about sufficients: Include actions taken to resol	es found. ses requested. Id time. D-out ve discrepancies/problem:			x x x x		X

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

VHernandez

Gilbane												C	haiı	า-0	f-Cus	tody	/
Project Name and Number: Project Manager Site Location: Hunters Point	HPNS Parcel I			00		Labor Addre	_	0100		Labs y Ste. 100 7029	Contac	ct Name: <u>/</u>				6/29/2021 of <u>1</u>	
						Į.			llysis:								
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Solution Aspestos Von Conta	e iner T							Special Ins	e = 2 L/mir tructions/Com	
MSE01-062421 01A	6/24/2021	1500	NA	NA	1	AA	Х								Total Tim	ie (min)	
MSE02-062421 02A	6/24/2021	1451	NA	NA	1	AA	Х								469		
MSE01-062821 03A	6/28/2021	1528	NA	NA	1	AA	Х								468		
MSE02-062821 04K	6/28/2021	1519	NA	NA	1	AA	Χ								477		
Job ID:210	70111 	=		Sample	r: ¿							Courier/A	sirbill No.:	FedEx/	77741 2935 58	54	
- 0			R	elinquis	hed B	y/Affilia	tion;			Date:	Time:	Received	By/ Affilia				Times
Special Instructions: No.	aneco.com						U						C Amila	/	1	Date:	Time:
Turnaround Time: Standard			- -					-									
rumaround rime: ottomatu			_														

Page 4 of 4

20.2-0.16=20.10

Laboratory Analysis Report

Job ID: 21070251



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

Client Project Name: HPNS Parcel E Phase II J310000400

Report To: Gilbane Total Number of Pages: 5 Client Name:

Attn:

J310000400-0015 P.O.#.: Client Address: 1655 Grant Street, Suite 1200 Date Received: 07/02/2021 15:19

City, State, Zip: Concord, California, 94520 Sample Collected By:

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-062921	6/29/2021 15:32	Cassette	21070251.01
MSE02-062921	6/29/2021 15:49	Cassette	21070251.02
MSE01-063021	6/30/2021 15:38	Cassette	21070251.03
MSE02-063021	6/30/2021 15:43	Cassette	21070251.04



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7/12/2021

Page 1 of 5 Report Number: RPT210712017



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 7/12/2021

Job ID: 21070251

Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane	Client: Gilbane Project: HPNS Parcel E Phase II J310000400 Attn:														
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21070251.01	MSE01-062921	06/29/2021	Area	2			502	1004	100	9.5	12.102	0.005		07/12/21	
21070251.02	MSE02-062921	06/29/2021	Area	2			531	1062	100	9.0	11.465	0.004		07/12/21	
21070251.03	MSE01-063021	06/30/2021	Area	2			470	940	100	9	11.465	0.005		07/12/21	
21070251.04	MSE02-063021	06/30/2021	Area	2			495	990	100	9.5	12.102	0.005		07/12/21	

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



Sample Condition Checklist

A&B	3:19PM													
Clien	t Name : Gilbane													
Tem	perature : 22.2-0.1cf=22.1°C	Sample pH:	n/a											
Ther	mometer ID : 1709629	pH Paper ID :	n/a											
Pers	ervative :													
		Chec	k Point	ts				Yes	No	N/A				
1.														
2.														
3.														
4.	Sample(s) received with chain-of-c	ustody.						Х						
5.	C-O-C signed and dated.							Х						
6.	Sample(s) received with signed sa	mple custody sea	al.						Χ					
7.														
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge													
0.				~]				
9.	Sample(s) were received in approp	riate container(s).					Х						
10.	Sample(s) were received with prop	er preservative								Х				
11.	All samples were logged or labeled							Х						
12.	Sample ID labels match C-O-C ID's							Х						
13.	Bottle count on C-O-C matches bot	tles found.						Х						
14.	Sample volume is sufficient for ana	lyses requested.						Х						
15.	Samples were received within the I	nold time.						Х						
16.	VOA vials completely filled.									Х				
17.	Sample accepted.							Х						
18	18 Has client been contacted about sub-out													
Com	Comments : Include actions taken to resolve discrepancies/problem:													

s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane	2										Chai	n-Of	-Custody
Project Name and Number	: HPNS Parcel F	Phase II J3	100004	100	- 1	_abora	atory Na	me: A&B I	abs				Date: 7/01/2021
Project Manager:					- /	Addres		100 East Fwy		Contact	Name		— Page: 1of _1
Site Location: Hunters P	oint, San Francisc	co, CA 941	24				H	ouston TX 77	029				
10	700E1							Analysis:					
Job ID:210	/0251					İ							
													1
				om)		ĺ							į ·
			Sample Depth (top)	Sample Depth (bottom)	No. of Containers	rix	Asbestos						
			Del	Dep	Con	Sample Matrix	Preser	vative:					 Flow Rate = 2 L/min
Sample ID	Date	Time	nple	nple	Jo .	nple	None	ner Type:					Special Instructions/Comme
oumpte 15	Da	Ti	Saı	Saı	ž	Sar	Filt	er Type.					Total Time (min)
MSE01-062921	6/29/2021	1532	NA	NA	1	AA	Х						502
MSE02-062921	6/29/2021	1549	NA	NA	1	AA	X						531
MSE01-063021	6/30/2021	1538	NA	NA	1	AA	X						470
MSE02-063021	6/30/2021	1543	NA	NA	_1_	AA	Х						495
						İ							
						l							
						1							*
Sampled By: _			<u> </u>	Sample	er:						Courier/Airbill N	lo.: FedEx/	7741 5559 7213
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Special Instructions:	Sire												
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Ktom@gilba													
Turnaround Time: Standar	rd		_										





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ANALYTICAL REPORT

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

Laboratory Job ID: 320-74537-1

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

Revision: 1

For:

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

Attn: Ms.



·····LINKS ······

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

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

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

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Definitions/Glossary

Client: Gilbane Federal Job ID: 320-74537-1

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

Qualifiers

Metals

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Gilbane Federal

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

Job ID: 320-74537-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-74537-1

Revision

This report was revised to include narration concerning the custody seal. No data changed as a result of this revision.

The samples were received on 6/4/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.5° C.

No custody seal was noted at the time of sample receipt.

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

Job ID: 320-74537-1

Client: Gilbane Federal Job ID: 320-74537-1

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

Lab Sample ID: 320-74537-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.048	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0065	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1203

Lab Sample ID: 320-74537-2

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	19.7538	0.3011	0.3011 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1204

Lab Sample ID: 320-74537-3

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0013	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.020	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0033	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.4	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1204

Lab Sample ID: 320-74537-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	15.3801	0.2880	0.2880 ug/m3 (Air)		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1205

Lab Sample ID: 320-74537-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type
Lead	0.0011	0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.012	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0019	0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	3.3	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP051321-1205

Lab Sample ID: 320-74537-6

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	7.8374	0.3038	0.3038 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1206

Lab Sample ID: 320-74537-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00089	J	0.0016	0.00024	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.029		0.0032	0.00024	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0024		0.0016	0.00022	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	2.3		0.67	0.67	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1206

Lab Sample ID: 320-74537-8

Γ							
Analyte	Result Quali	fier RL	RL Unit	Dil Fac I	D Method	Prep Type	
Total Suspended Particulates	9 8016	0 6623	0.6623 ug/m	3 (Air) 1	40CFR50 App B	Total/NA	

This Detection Summary does not include radiochemical test results.

7/8/2021 (Rev. 1)

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-74537-1

Lab Sample ID: 320-74537-2

Lab Sample ID: 320-74537-3

Lab Sample ID: 320-74537-4

Lab Sample ID: 320-74537-5

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

Client Sample ID: GILBANEPM051321-1203

Date Collected: 06/02/21 07:38

Client: Gilbane Federal

Date Received: 06/04/21 10:10 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021	0.00069	0.00010	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:37	1
Copper	0.048	0.0014	0.00010	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:37	1
Manganese	0.0065	0.00069	0.000096	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:37	1

General Chemistry										
Analyte	Result Q	ualifier	RL	RL	Unit	D)	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.29	0.29	ug/m3				06/08/21 08:10	1

Client Sample ID: GILBANETSP051321-1203

Date Collected: 06/02/21 07:38 Date Received: 06/04/21 10:10

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result (Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	19.7538		0.3011	0.3011	ug/m3 (Air)			06/08/21 08:10	1

Client Sample ID: GILBANEPM051321-1204

Date Collected: 06/02/21 07:55

Date Received: 06/04/21 10:10 Sample Container: Folder/Filter

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0013	0.00069	0.00010	ug/m3 (Air)	_	06/11/21 06:30	06/11/21 11:47	1
Copper	0.020	0.0014	0.00010	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:47	1
Manganese	0.0033	0.00069	0.000097	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	7.4		0.29	0.29	ug/m3			06/08/21 08:10	1

Client Sample ID: GILBANETSP051321-1204

Date Collected: 06/02/21 07:55 Date Received: 06/04/21 10:10

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.3801		0.2880	0.2880	ug/m3 (Air)	_		06/08/21 08:10	1

Client Sample ID: GILBANEPM051321-1205

Date Collected: 06/03/21 07:40

Date Received: 06/04/21 10:10 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011	0.00069	0.00010	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:50	1
Copper	0.012	0.0014	0.00010	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:50	1
Manganese	0.0019	0.00069	0.000097	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:50	1

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Client Sample Results

Client: Gilbane Federal Job ID: 320-74537-1

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

Client Sample ID: GILBANEPM051321-1205

Lab Sample ID: 320-74537-5

Date Collected: 06/03/21 07:40 Matrix: Air

Date Received: 06/04/21 10:10 Sample Container: Folder/Filter

General Chemistry Analyte Unit Result Qualifier RL RL D Prepared Analyzed Dil Fac 0.29 0.29 ug/m3 06/08/21 08:10 Particulate Matter as PM 10 3.3

Client Sample ID: GILBANETSP051321-1205 Lab Sample ID: 320-74537-6

Date Collected: 06/03/21 07:40

Date Received: 06/04/21 10:10 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.3038 0.3038 ug/m3 (Air) 06/08/21 08:10 **Total Suspended Particulates** 7.8374

Client Sample ID: GILBANEPM051321-1206 Lab Sample ID: 320-74537-7

Date Collected: 06/03/21 08:00

Date Received: 06/04/21 10:10 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.0016 0.00024 ug/m3 (Air) 06/11/21 06:30 06/11/21 11:53 Lead 0.00089 0.00024 ug/m3 (Air) 0.0032 Copper 0.029 06/11/21 06:30 06/11/21 11:53 0.0016 **Manganese** 0.0024 0.00022 ug/m3 (Air) 06/11/21 06:30 06/11/21 11:53

General Chemistry Analyte Result Qualifier Prepared RL **RL Unit** Analyzed Dil Fac Particulate Matter as PM 10 0.67 0.67 ug/m3 06/08/21 08:10 2.3

Client Sample ID: GILBANETSP051321-1206 Lab Sample ID: 320-74537-8

Date Collected: 06/03/21 08:00

Date Received: 06/04/21 10:10 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 0.6623 **Total Suspended Particulates** 9.8016 0.6623 ug/m3 (Air) 06/08/21 08:10

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7/8/2021 (Rev. 1)

Matrix: Air

Matrix: Air

Matrix: Air

QC Sample Results

Client: Gilbane Federal Job ID: 320-74537-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-497578/1-B

Matrix: Air

Analysis Batch: 497741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 497587

		, 1110						
Ana	llyte Result	t Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lea	d ND	0.0012	0.00018	ug/m3 (Air)	_	06/11/21 06:30	06/11/21 11:15	1
Cop	per ND	0.0024	0.00018	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:15	1
Mar	nganese ND	0.0012	0.00017	ug/m3 (Air)		06/11/21 06:30	06/11/21 11:15	1

Lab Sample ID: LCS 320-497578/2-B

Matrix: Air

Analysis Batch: 497741

MR MR

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 497587

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.222 ug/m3 (Air) 92 86 - 111 0.240 0.226 ug/m3 (Air) 94 85 - 110 Copper 0.240 ug/m3 (Air) 95 88 - 110 Manganese 0.227

Lab Sample ID: LCSD 320-497578/3-B

Matrix: Air

Analysis Batch: 497741

Client Sample ID: Lak	Control Sample Dup
	Prep Type: Total/NA
	D 0 1 1 10 10 10 1

Prep Batch: 497587

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec Lead 0.240 0.234 ug/m3 (Air) 97 86 - 111 5 15 Copper 0.240 0.231 ug/m3 (Air) 96 85 - 110 2 15 0.240 0.234 ug/m3 (Air) 98 Manganese 88 - 110 3 15

QC Association Summary

Client: Gilbane Federal Job ID: 320-74537-1

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

Metals

Pre Prep Batch: 497578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74537-1	GILBANEPM051321-1203	Total/NA	Air	Filter to Air	
320-74537-3	GILBANEPM051321-1204	Total/NA	Air	Filter to Air	
320-74537-5	GILBANEPM051321-1205	Total/NA	Air	Filter to Air	
320-74537-7	GILBANEPM051321-1206	Total/NA	Air	Filter to Air	
MB 320-497578/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-497578/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-497578/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 497587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74537-1	GILBANEPM051321-1203	Total/NA	Air	3050B	497578
320-74537-3	GILBANEPM051321-1204	Total/NA	Air	3050B	497578
320-74537-5	GILBANEPM051321-1205	Total/NA	Air	3050B	497578
320-74537-7	GILBANEPM051321-1206	Total/NA	Air	3050B	497578
MB 320-497578/1-B	Method Blank	Total/NA	Air	3050B	497578
LCS 320-497578/2-B	Lab Control Sample	Total/NA	Air	3050B	497578
LCSD 320-497578/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	497578

Analysis Batch: 497741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74537-1	GILBANEPM051321-1203	Total/NA	Air	6020	497587
320-74537-3	GILBANEPM051321-1204	Total/NA	Air	6020	497587
320-74537-5	GILBANEPM051321-1205	Total/NA	Air	6020	497587
320-74537-7	GILBANEPM051321-1206	Total/NA	Air	6020	497587
MB 320-497578/1-B	Method Blank	Total/NA	Air	6020	497587
LCS 320-497578/2-B	Lab Control Sample	Total/NA	Air	6020	497587
LCSD 320-497578/3-B	Lab Control Sample Dup	Total/NA	Air	6020	497587

General Chemistry

Pre Prep Batch: 496709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74537-2	GILBANETSP051321-1203	Total/NA	Air	Filter to Air	
320-74537-4	GILBANETSP051321-1204	Total/NA	Air	Filter to Air	
320-74537-6	GILBANETSP051321-1205	Total/NA	Air	Filter to Air	
320-74537-8	GILBANETSP051321-1206	Total/NA	Air	Filter to Air	

Analysis Batch: 497667

Lab Sample ID 320-74537-2	Client Sample ID GILBANETSP051321-1203	Prep Type Total/NA	Matrix Air	Method 40CFR50 App B	Prep Batch 496709
320-74537-4	GILBANETSP051321-1204	Total/NA	Air	40CFR50 App B	496709
320-74537-6	GILBANETSP051321-1205	Total/NA	Air	40CFR50 App B	496709
320-74537-8	GILBANETSP051321-1206	Total/NA	Air	40CFR50 App B	496709

Analysis Batch: 497671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74537-1	GILBANEPM051321-1203	Total/NA	Air	PM10	
320-74537-3	GILBANEPM051321-1204	Total/NA	Air	PM10	
320-74537-5	GILBANEPM051321-1205	Total/NA	Air	PM10	
320-74537-7	GILBANEPM051321-1206	Total/NA	Air	PM10	

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Client: Gilbane Federal

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

Client Sample ID: GILBANEPM051321-1203

Date Collected: 06/02/21 07:38 Date Received: 06/04/21 10:10

Lab Sample ID: 320-74537-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497578	06/11/21 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	497587	06/11/21 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			497741	06/11/21 11:37	IM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0225 g	497671	06/08/21 08:10	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1203

Date Collected: 06/02/21 07:38 Date Received: 06/04/21 10:10

Lab Sample ID: 320-74537-2 Matrix: Air

Lab Sample ID: 320-74537-3

Lab Sample ID: 320-74537-4

Lab Sample ID: 320-74537-5

Matrix: Air

Matrix: Air

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			497667	06/08/21 08:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					496709	06/08/21 14:23	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1204

Date Collected: 06/02/21 07:55

Date Received: 06/04/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497578	06/11/21 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	497587	06/11/21 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			497741	06/11/21 11:47	IM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0129 g	497671	06/08/21 08:10	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1204

Date Collected: 06/02/21 07:55

Date Received: 06/04/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			497667	06/08/21 08:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					496709	06/08/21 14:23	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1205

Date Collected: 06/03/21 07:40

Date Received: 06/04/21 10:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497578	06/11/21 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	497587	06/11/21 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1	·		497741	06/11/21 11:50	IM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0058 g	497671	06/08/21 08:10	DPM	TAL SAC

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Matrix: Air

Matrix: Air

Lab Sample ID: 320-74537-7

Lab Sample ID: 320-74537-8

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

Client Sample ID: GILBANETSP051321-1205

Lab Sample ID: 320-74537-6 Date Collected: 06/03/21 07:40 Matrix: Air

Date Received: 06/04/21 10:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			497667	06/08/21 08:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					496709	06/08/21 14:23	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1206

Date Collected: 06/03/21 08:00

Date Received: 06/04/21 10:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497578	06/11/21 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	497587	06/11/21 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			497741	06/11/21 11:53	IM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0017 g	497671	06/08/21 08:10	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1206

Date Collected: 06/03/21 08:00

Date Received: 06/04/21 10:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			497667	06/08/21 08:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					496709	06/08/21 14:23	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: Gilbane Federal Job ID: 320-74537-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority		ogram	Identification Number	Expiration Date
ANAB	Der	pt. of Defense ELAP	L2468	01-20-24
Oregon		LAP	4040	01-30-23
The following analytes	are included in this repor	rt, but the laboratory is not o	certified by the governing authority.	This list may include analytes for wh
the agency does not o	offer certification.	•	, , ,	This list may include analytes for wh
0 ,	•	rt, but the laboratory is not o	certified by the governing authority Analyte	This list may include analytes for wh
the agency does not o	offer certification.	•	, , ,	

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Method Summary

Client: Gilbane Federal

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

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 320-74537-1

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Sample Summary

Client: Gilbane Federal

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-74537-1	GILBANEPM051321-1203	Air	06/02/21 07:38	06/04/21 10:10	
320-74537-2	GILBANETSP051321-1203	Air	06/02/21 07:38	06/04/21 10:10	
320-74537-3	GILBANEPM051321-1204	Air	06/02/21 07:55	06/04/21 10:10	
320-74537-4	GILBANETSP051321-1204	Air	06/02/21 07:55	06/04/21 10:10	
320-74537-5	GILBANEPM051321-1205	Air	06/03/21 07:40	06/04/21 10:10	
320-74537-6	GILBANETSP051321-1205	Air	06/03/21 07:40	06/04/21 10:10	
320-74537-7	GILBANEPM051321-1206	Air	06/03/21 08:00	06/04/21 10:10	
320-74537-8	GILBANETSP051321-1206	Air	06/03/21 08:00	06/04/21 10:10	

Job ID: 320-74537-1

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CHAIN-OF-CUSTODY

RECORD

Received by Laboratory: (Signature, Date, Time) & condition VOLUME: 1746.53 VOLUME: 1660.44 VOLUME: 1735.34 VOLUME: 1737.14 VOLUME: 1645.95 VOLUME: 1736.01 **VOLUME: 754.98 VOLUME: 749.97** Event: Parcel E Phase 2 Air Comments Shipping Date: 6/3/2021 / FedEx 7739 0329 5060 320-74537 Chain of Custody Shipping Date / Carrier / Airbill Number Monitoring Cooler Top - Bottom 0.00 Depth (ft bgs) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Sample Type ź Z Ē Ę Ē Z Ē ź 1x 250-mL Plastic, 4 Degrees C Container Preservative 1 1x Envelope, None Time Ship to: 880 Riverside Parkway, West Sacramento, CA 95605 Location ID AMSE2 **AMSE2** AMSE2 AMSE1 **AMSE2** Code | Matrix **AMSE1 AMSE1** A Code Date Time Received by: (Signature) SW6020 - Air Pb Mn Cu × × × × 48T 1iA - 0030N × × × POC: CAAIR - Air PM10 × × × Analytical Test Method Samp Init. 노 궃 꿏 Ż ¥ 노 노 노 0738 0755 0740 0800 0800 Time 0738 0755 0740 Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 06/03/2021 06/02/2021 06/03/2021 06/03/2021 06/03/2021 06/02/2021 06/02/2021 06/02/2021 Date Date Event: Parcel E Phase 2 Air Monitoring Matrix < V V ⋖ × 4 V < Relinquished by: (Signature) GILBANETSP051321-1206 GILBANETSP051321-1203 GILBANETSP051321-1204 GILBANETSP051321-1205 GILBANEPM051321-1205 GILBANEPM051321-1206 GILBANEPM051321-1203 GILBANEPM051321-1204 Project Number: J310000400 WBS Code: J310000400-016 **Turnaround Time: 5 days** 1//8/2021 (Rev. 1) Sample ID Comments: Equipment: œ က 4 2 9 9 0 Page 15 of 16

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Page 1 of 1

Client: Gilbane Federal Job Number: 320-74537-1

Login Number: 74537

List Source: Eurofins TestAmerica, Sacramento

List Number: 1
Creator

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

ANALYTICAL REPORT

America

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

Laboratory Job ID: 320-74732-1

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

For:

eurofins

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

Attn: Ms.

Authorized for release by:

·····LINKS ······

Review your project results through Total Access

Have a Question?



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

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

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

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Definitions/Glossary

Client: Gilbane Federal Job ID: 320-74732-1

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

Qualifiers

M	eta	Is

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Sacramento

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6/15/2021

Case Narrative

Client: Gilbane Federal

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

Job ID: 320-74732-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-74732-1

Comments

No additional comments.

Receipt

The samples were received on 6/9/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.7° C.

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

Job ID: 320-74732-1

Client: Gilbane Federal Job ID: 320-74732-1

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

Client Sample	ID:	GILBANEPM05 1	321-1207
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Lab Sa	mple ID	: 320-7	4732-1
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Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0022	0.00070	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.028	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0060	0.00070	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1207

Lab Sample ID: 320-74732-2

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	34.7919	0.3095	0.3095 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1208

Lab Sample ID: 320-74732-3

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Meti	nod Prep Type
Lead	0.0017	0.00072	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.15	0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0050	0.00072	0.00010	ug/m3 (Air)	1	6020) Total/NA
Particulate Matter as PM 10	23	0.30	0.30	ug/m3	1	PM1	0 Total/NA

Client Sample ID: GILBANETSP051321-1208

Lab Sample ID: 320-74732-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	27.0601	0.2980	0.2980 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1209

Lab Sample ID: 320-74732-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039	0.0026	0.00039	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.054	0.0051	0.00039	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0076	0.0026	0.00036	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23	1.1	1.1	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1209

Lab Sample ID: 320-74732-6

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	33.2951	1.1248	1.1248 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1210

Lab Sample ID: 320-74732-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023	J	0.0024	0.00036	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.22		0.0049	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0080		0.0024	0.00034	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1210

Lab Sample ID: 320-74732-8

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	36.0368	1.0010	1.0010 ug/m3 (Air)		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1211

Lab Sample ID: 320-74732-9

Analyte	Result	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.027	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Mangane	se 0.0035	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Gilbane Federal Job ID: 320-74732-1

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

Client Sample ID: GILBANEPM051321-1211 (Continued) Lab Sample ID: 320-74732-9
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Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Particulate Matter as PM 10	17	0.29	0.29 ug/m3	1 PM10	Total/NA

Client Sample ID: GILBANETSP051321-1211

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	40.6632	0.2905	0.2905 ug/m3 (Air)		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1212

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Metho	od Prep Type
Lead	0.0047	0.00071	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.047	0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.011	0.00071	0.00010	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	7.8	0.30	0.30	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP051321-1212

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.3842		0.3137	0.3137	ug/m3 (Air)	1		40CFR50 App B	Total/NA

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Lab Sample ID: 320-74732-10

Lab Sample ID: 320-74732-11

Lab Sample ID: 320-74732-12

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8

9

Client: Gilbane Federal Job ID: 320-74732-1

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

Client Sample ID: GILBANEPM051321-1207

Date Collected: 06/04/21 07:04

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

Mothod: 6020 - Metals (ICP/MS)

Wethou. 6020 - Wetals (ICP/WS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0022	0.00070	0.00011	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:32	1
Copper	0.028	0.0014	0.00011	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:32	1
Manganese	0.0060	0.00070	0.000099	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:32	1

General Chemistry

Analyte RL Result Qualifier **RL Unit** Prepared Analyzed Dil Fac 0.29 06/11/21 12:00 Particulate Matter as PM 10 21 0.29 ug/m3

Client Sample ID: GILBANETSP051321-1207

Date Collected: 06/04/21 07:04 Date Received: 06/09/21 09:50

Sample Container: Folder/Filter

General Chemistry

- Contract Charles							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.7919	0.3095	0.3095 ug/m3 (Air)	_		06/11/21 12:00	1

Client Sample ID: GILBANEPM051321-1208

Date Collected: 06/04/21 07:20

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

Method: 6020 - Metals	(ICP/MS)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017		0.00072	0.00011	ug/m3 (Air)	_	06/14/21 08:00	06/15/21 04:42	1
Copper	0.15		0.0014	0.00011	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:42	1
Manganese	0.0050		0.00072	0.00010	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:42	1

General Chemistry

Analyte Result Qualifier RL **RL** Unit Prepared Dil Fac Analyzed 0.30 0.30 ug/m3 06/11/21 12:00 **Particulate Matter as PM 10** 23

Client Sample ID: GILBANETSP051321-1208

Date Collected: 06/04/21 07:20 Date Received: 06/09/21 09:50

Sample Container: Folder/Filter

General	Chemistry

Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.0601	0.2980	0.2980 ug/m3 (Air)			06/11/21 12:00	1

Client Sample ID: GILBANEPM051321-1209

Date Collected: 06/04/21 13:35

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

Moth	~d. 6020	Motale	/ICD/MC\

Method: 0020 - Metals (101 /MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.0026	0.00039	ug/m3 (Air)	_	06/14/21 08:00	06/15/21 04:45	1
Copper	0.054		0.0051	0.00039	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:45	1
Manganese	0.0076		0.0026	0.00036	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:45	1

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Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-74732-1

Lab Sample ID: 320-74732-2

Lab Sample ID: 320-74732-3

Lab Sample ID: 320-74732-4

Lab Sample ID: 320-74732-5

Client: Gilbane Federal Job ID: 320-74732-1

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

Client Sample ID: GILBANEPM051321-1209

Lab Sample ID: 320-74732-5 Date Collected: 06/04/21 13:35 Matrix: Air

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

General Chemistry Analyte **RL** Unit Result Qualifier RL D Prepared Analyzed Dil Fac 1.1 ug/m3 1.1 06/11/21 12:00 Particulate Matter as PM 10 23

Client Sample ID: GILBANETSP051321-1209 Lab Sample ID: 320-74732-6

Date Collected: 06/04/21 13:35

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed 1.1248 1.1248 ug/m3 (Air) 06/11/21 12:00 **Total Suspended Particulates** 33.2951

Client Sample ID: GILBANEPM051321-1210 Lab Sample ID: 320-74732-7

Date Collected: 06/04/21 14:24

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.0024 0.00036 ug/m3 (Air) 06/14/21 08:00 06/15/21 04:48 Lead 0.0023 J 0.0049 0.00036 ug/m3 (Air) 06/14/21 08:00 06/15/21 04:48 Copper 0.22 0.0024 **Manganese** 0.0080 0.00034 ug/m3 (Air) 06/14/21 08:00 06/15/21 04:48

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac Particulate Matter as PM 10 1.0 1.0 ug/m3 06/11/21 12:00 25

Client Sample ID: GILBANETSP051321-1210 Lab Sample ID: 320-74732-8

Date Collected: 06/04/21 14:24

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit D Analyzed Prepared Dil Fac 1.0010 1.0010 ug/m3 (Air) **Total Suspended Particulates** 36.0368 06/11/21 12:00

Client Sample ID: GILBANEPM051321-1211 Lab Sample ID: 320-74732-9

Date Collected: 06/08/21 08:20 Date Received: 06/09/21 09:50

Sample Container: Folder/Filter

Particulate Matter as PM 10

Method: 6020 - Metals (ICP	P/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027	0.00069	0.00010	ug/m3 (Air)	_	06/14/21 08:00	06/15/21 04:52	1
Copper	0.027	0.0014	0.00010	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:52	1
Manganese	0.0035	0.00069	0.000096	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:52	1
General Chemistry								
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac

0.29

0.29

ug/m3

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Eurofins TestAmerica, Sacramento

06/11/21 12:00

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Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Client Sample Results

Client: Gilbane Federal Job ID: 320-74732-1

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

Client Sample ID: GILBANETSP051321-1211

Lab Sample ID: 320-74732-10 Date Collected: 06/08/21 08:20

Matrix: Air

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.6632	0.2905	0.2905 ug/m3 (Air)			06/11/21 12:00	1

Lab Sample ID: 320-74732-11 Client Sample ID: GILBANEPM051321-1212

Date Collected: 06/08/21 07:56

Matrix: Air

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/	•				_			
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0047	0.00071	0.00011	ug/m3 (Air)	_	06/14/21 08:00	06/15/21 04:55	1
Copper	0.047	0.0014	0.00011	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:55	1
Manganese	0.011	0.00071	0.00010	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:55	1
				• ,				

General Chemistry Analyte Dil Fac Result Qualifier RL **RL** Unit Prepared Analyzed Particulate Matter as PM 10 0.30 0.30 ug/m3 06/11/21 12:00 7.8

Lab Sample ID: 320-74732-12 Client Sample ID: GILBANETSP051321-1212

Date Collected: 06/08/21 07:56

Matrix: Air

Date Received: 06/09/21 09:50 Sample Container: Folder/Filter

General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.3842	0.3137	0.3137 ug/m	3 (Air)		06/11/21 12:00	1

QC Sample Results

Client: Gilbane Federal Job ID: 320-74732-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-498132/1-B

Matrix: Air

Copper

Manganese

Analysis Batch: 498588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 498143

	MB MB						•	
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND —	0.0012	0.00018	ug/m3 (Air)	_	06/14/21 08:00	06/15/21 04:10	1
Copper	ND	0.0024	0.00018	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:10	1
Manganese	ND	0.0012	0.00017	ug/m3 (Air)		06/14/21 08:00	06/15/21 04:10	1

Lab Sample ID: LCS 320-498132/2-B **Client Sample ID: Lab Control Sample** Matrix: Air **Prep Type: Total/NA Analysis Batch: 498588 Prep Batch: 498143** Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.237 ug/m3 (Air) 99 86 - 111 0.240 0.237 ug/m3 (Air) 99 85 - 110 Copper 0.240 0.233 ug/m3 (Air) 97 88 - 110 Manganese

Lab Sample ID: LCSD 320-498132/3-B **Client Sample ID: Lab Control Sample Dup** Matrix: Air Prep Type: Total/NA **Prep Batch: 498143 Analysis Batch: 498588** Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec Lead 0.240 0.237 ug/m3 (Air) 99

0.233

0.231

ug/m3 (Air)

ug/m3 (Air)

96

0.240

0.240

86 - 111 0 15 97 85 - 110 2 15

88 - 110

Client: Gilbane Federal Job ID: 320-74732-1

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

Metals

Pre Prep Batch: 498132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74732-1	GILBANEPM051321-1207	Total/NA	Air	Filter to Air	
320-74732-3	GILBANEPM051321-1208	Total/NA	Air	Filter to Air	
320-74732-5	GILBANEPM051321-1209	Total/NA	Air	Filter to Air	
320-74732-7	GILBANEPM051321-1210	Total/NA	Air	Filter to Air	
320-74732-9	GILBANEPM051321-1211	Total/NA	Air	Filter to Air	
320-74732-11	GILBANEPM051321-1212	Total/NA	Air	Filter to Air	
MB 320-498132/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-498132/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-498132/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 498143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74732-1	GILBANEPM051321-1207	Total/NA	Air	3050B	498132
320-74732-3	GILBANEPM051321-1208	Total/NA	Air	3050B	498132
320-74732-5	GILBANEPM051321-1209	Total/NA	Air	3050B	498132
320-74732-7	GILBANEPM051321-1210	Total/NA	Air	3050B	498132
320-74732-9	GILBANEPM051321-1211	Total/NA	Air	3050B	498132
320-74732-11	GILBANEPM051321-1212	Total/NA	Air	3050B	498132
MB 320-498132/1-B	Method Blank	Total/NA	Air	3050B	498132
LCS 320-498132/2-B	Lab Control Sample	Total/NA	Air	3050B	498132
LCSD 320-498132/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	498132

Analysis Batch: 498588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74732-1	GILBANEPM051321-1207	Total/NA	Air	6020	498143
320-74732-3	GILBANEPM051321-1208	Total/NA	Air	6020	498143
320-74732-5	GILBANEPM051321-1209	Total/NA	Air	6020	498143
320-74732-7	GILBANEPM051321-1210	Total/NA	Air	6020	498143
320-74732-9	GILBANEPM051321-1211	Total/NA	Air	6020	498143
320-74732-11	GILBANEPM051321-1212	Total/NA	Air	6020	498143
MB 320-498132/1-B	Method Blank	Total/NA	Air	6020	498143
LCS 320-498132/2-B	Lab Control Sample	Total/NA	Air	6020	498143
LCSD 320-498132/3-B	Lab Control Sample Dup	Total/NA	Air	6020	498143

General Chemistry

Pre Prep Batch: 497413

Lab Sample ID 320-74732-2	Client Sample ID GILBANETSP051321-1207	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-74732-4	GILBANETSP051321-1208	Total/NA	Air	Filter to Air	
320-74732-6	GILBANETSP051321-1209	Total/NA	Air	Filter to Air	
320-74732-8	GILBANETSP051321-1210	Total/NA	Air	Filter to Air	
320-74732-10	GILBANETSP051321-1211	Total/NA	Air	Filter to Air	
320-74732-12	GILBANETSP051321-1212	Total/NA	Air	Filter to Air	

Analysis Batch: 498210

Lab Sample ID 320-74732-1	Client Sample ID GILBANEPM051321-1207	Prep Type Total/NA	Matrix	Method PM10	Prep Batch
320-74732-1	GILBANEPM051321-1207 GILBANEPM051321-1208	Total/NA	Air Air	PM10	
320-74732-5	GILBANEPM051321-1209	Total/NA	Air	PM10	
320-74732-7	GILBANEPM051321-1210	Total/NA	Air	PM10	

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QC Association Summary

Client: Gilbane Federal Job ID: 320-74732-1

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

General Chemistry (Continued)

Analysis Batch: 498210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74732-9	GILBANEPM051321-1211	Total/NA	Air	PM10	
320-74732-11	GILBANEPM051321-1212	Total/NA	Air	PM10	

Analysis Batch: 498212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74732-2	GILBANETSP051321-1207	Total/NA	Air	40CFR50 App B	497413
320-74732-4	GILBANETSP051321-1208	Total/NA	Air	40CFR50 App B	497413
320-74732-6	GILBANETSP051321-1209	Total/NA	Air	40CFR50 App B	497413
320-74732-8	GILBANETSP051321-1210	Total/NA	Air	40CFR50 App B	497413
320-74732-10	GILBANETSP051321-1211	Total/NA	Air	40CFR50 App B	497413
320-74732-12	GILBANETSP051321-1212	Total/NA	Air	40CFR50 App B	497413

Job ID: 320-74732-1

Client: Gilbane Federal

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

Client Sample ID: GILBANEPM051321-1207

Date Collected: 06/04/21 07:04 Date Received: 06/09/21 09:50

Lab Sample ID: 320-74732-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1	•		498588	06/15/21 04:32	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0352 g	498210	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1207

Date Collected: 06/04/21 07:04 Date Received: 06/09/21 09:50

Lab Sample ID: 320-74732-2 Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497413	06/10/21 14:21	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1208

Date Collected: 06/04/21 07:20 Date Received: 06/09/21 09:50

Lab Sample ID: 320-74732-3 Matrix: Air

Lab Sample ID: 320-74732-4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			498588	06/15/21 04:42	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0381 g	498210	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1208

Date Collected: 06/04/21 07:20

Date Received: 06/09/21 09:50

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497413	06/10/21 14:21	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1209

Lab Sample ID: 320-74732-5 Date Collected: 06/04/21 13:35 Matrix: Air Date Received: 06/09/21 09:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1	•		498588	06/15/21 04:45	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0109 g	498210	06/11/21 12:00	DPM	TAL SAC

Eurofins TestAmerica, Sacramento

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6/15/2021

Matrix: Air

Job ID: 320-74732-1

Client: Gilbane Federal

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

Client Sample ID: GILBANETSP051321-1209

Date Collected: 06/04/21 13:35

Lab Sample ID: 320-74732-6

Matrix: Air

Date Received: 06/09/21 09:50

Date Received: 06/09/21 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497413	06/10/21 14:21	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1210 Lab Sample ID: 320-74732-7

Date Collected: 06/04/21 14:24

Matrix: Air

Batch Dil Initial Final Batch Prepared Method Number **Prep Type** Type Amount or Analyzed Analyst Run **Factor Amount** Lab Total/NA Pre Prep Filter to Air 498132 06/14/21 07:21 NIM TAL SAC Total/NA 3050B 498143 Prep 0.08333 06/14/21 08:00 NIM TAL SAC 100 mL Sample Total/NA Analysis 6020 498588 06/15/21 04:48 DPM TAL SAC 1 Total/NA Analysis PM10 0 g 0.0121 g 498210 06/11/21 12:00 DPM TAL SAC

Client Sample ID: GILBANETSP051321-1210

Lab Sample ID: 320-74732-8

Matrix: Air

Date Collected: 06/04/21 14:24 Date Received: 06/09/21 09:50

Batch Dil Initial Final Batch Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Pre Prep Filter to Air 497413 06/10/21 14:21 DPM TAL SAC 40CFR50 App B 498212 06/11/21 12:00 DPM Total/NA Analysis TAL SAC

Client Sample ID: GILBANEPM051321-1211

Lab Sample ID: 320-74732-9 Date Collected: 06/08/21 08:20 Matrix: Air

Date Received: 06/09/21 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1	•		498588	06/15/21 04:52	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0294 q	498210	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1211 Lab Sample ID: 320-74732-10 Date Collected: 06/08/21 08:20 Matrix: Air

Date Received: 06/09/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497413	06/10/21 14:21	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC

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6/15/2021

Lab Chronicle

Client: Gilbane Federal Job ID: 320-74732-1

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

Client Sample ID: GILBANEPM051321-1212

Lab Sample ID: 320-74732-11 Date Collected: 06/08/21 07:56 Matrix: Air

Date Received: 06/09/21 09:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			498588	06/15/21 04:55	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0131 g	498210	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1212

Date Collected: 06/08/21 07:56

Date Received: 06/09/21 09:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					497413	06/10/21 14:21	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC

Laboratory References:

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

Lab Sample ID: 320-74732-12

Matrix: Air

Accreditation/Certification Summary

Client: Gilbane Federal Job ID: 320-74732-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date
NAB		ept. of Defense ELAP	L2468	01-20-24
Oregon	NE	ELAP	4040	01-30-23
	are included in this repo	ort, but the laboratory is not t	certified by the governing authority.	This list may include analytes for which
the agency does not o	offer certification.	•	, , ,	This list may include analytes for whic
0 ,	•	Matrix	Analyte	I his list may include analytes for whic
the agency does not o	offer certification.	•	, , ,	

Method Summary

Client: Gilbane Federal

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

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 320-74732-1

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Sample Summary

Client: Gilbane Federal

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-74732-1	GILBANEPM051321-1207	Air	06/04/21 07:04	06/09/21 09:50	
320-74732-2	GILBANETSP051321-1207	Air	06/04/21 07:04	06/09/21 09:50	
320-74732-3	GILBANEPM051321-1208	Air	06/04/21 07:20	06/09/21 09:50	
320-74732-4	GILBANETSP051321-1208	Air	06/04/21 07:20	06/09/21 09:50	
320-74732-5	GILBANEPM051321-1209	Air	06/04/21 13:35	06/09/21 09:50	
320-74732-6	GILBANETSP051321-1209	Air	06/04/21 13:35	06/09/21 09:50	
320-74732-7	GILBANEPM051321-1210	Air	06/04/21 14:24	06/09/21 09:50	
320-74732-8	GILBANETSP051321-1210	Air	06/04/21 14:24	06/09/21 09:50	
320-74732-9	GILBANEPM051321-1211	Air	06/08/21 08:20	06/09/21 09:50	
320-74732-10	GILBANETSP051321-1211	Air	06/08/21 08:20	06/09/21 09:50	
320-74732-11	GILBANEPM051321-1212	Air	06/08/21 07:56	06/09/21 09:50	
320-74732-12	GILBANETSP051321-1212	Air	06/08/21 07:56	06/09/21 09:50	

Job ID: 320-74732-1

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CHAIN-OF-CUSTODY RECORD

COC # KT060821AIR

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

d	Project Name: Hunters Point Shinvard Parcel E BA Bhace 2	invard	Darrel F RA Dh	C dage			10000	T. Post		F	-					
: [Specification induced Foundation	pyara,	raicel E nA FI	ase z		Labo	ratory.	EUronin	s Environme	nt lest	Laboratory: Eurofins Environment Lesting LestAmerica-Sacramento, West Sacramento, CA	o, West S	acramer	to, CA	Event: F	Parcel E Phase 2 Air
۵	Project Number: J310000400					POC			Irpe	n@test	rpen@testamericainc.com				Monitor	Monitoring
≥	WBS Code: J310000400-016					Ship	to: 88() Riversi	de Parkway,	West 5	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605					
L						-										
ŭ	Comments:										Code Matrix					
											A Air					
											Code Container/Preservative					
											1 1x 250-mL Plastic, 4 Degrees C	egrees C				
											1 1x Envelope, None					
					podie		uO uV									
ш	Equipment:				n M tesT Isc	OtM9 iA -	92T 1iA 1 dq 1iA - 0									
					oitytisnA		2M90S0 - N0200					320-747	32 Chair	320-74732 Chain of Custody	, pody	
	Event: Parcel E Phase 2 Air Monitoring	Aonitorir	бı			-	-									
age					Samp							Sample		Depth (ft bgs)		
	Sample ID	Matrix	Date	Time	luit.						Location ID	Type		Top - Bottom	Cooler	Comments
		∢	06/04/2021	0704	Ϋ́	×	×				AMSE1	ž	0.00	00.00	-	VOLUME: 1704.85
7		∢	06/04/2021	0704	잗	- `	×				AMSE1	ž	0.00	00.0	-	VOLUME: 1615.32
က		∢	06/04/2021	0720	Ā	×	×				AMSE2	ź	00.00	00.0	-	VOLUME: 1673.13
4		∢	06/04/2021	0720	Ā		×				AMSE2	ź	0.00	0.00	-	VOLUME: 1677.75
2		∢	06/04/2021	1335	Ϋ́	×	×				AMSE1	ź	0.00	0.00	-	VOLUME: 466.44
9		∢	06/04/2021	1335	Ā	- `	×				AMSE1	ž	0.00	0.00	-	VOLUME: 444.51
7	7 GILBANEPM051321-1210	∢	06/04/2021	1424	Ϋ́	×	×				AMSE2	ž	0.00	00.00	-	VOLUME: 493.31
00		<	06/04/2021	1424	Ā	- `	×				AMSE2	ź	0.00	0.00	-	VOLUME: 499.49
တ		∢	06/08/2021	0820	Ā	×	×				AMSE1	ž	0.00	0.00	-	VOLUME: 1750.43
=	10 GILBANETSP051321-1211	∢	06/08/2021	0820	Ϋ́	^	×				AMSE1	Σ	0.00	0.00	-	VOLUME: 1721.46
-	11 GILBANEPM051321-1212	∀	06/08/2021	0756	Ā	×	×				AMSE2	ž	00.0	0.00	-	VOLUME: 1684.65
ď	Relinquished by: (Signature)		Date	Time	Received by: (Signature)	by: (Signa	(arre)			Date Time S	Shipping Date / Carrier / Airbill Number	Date / Cz	arrier / A	irbill Nin	apper
												Shipping E	ate: 6/8/	2021 / F	edEx 773	Shipping Date: 6/8/2021 / FedEx 7739 4007 6020
											41 05 1	eceived	by Labo	ratory:	Signature	Received by Laboratory: (Signature, Date, Time) & condition
L 5/15		+		Ī						+						

12/502 June 08, 2021

Page 1 of 2

Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA Event: Parcel E Phase 2 Air

Monitoring

CHAIN-OF-CUSTODY

RECORD

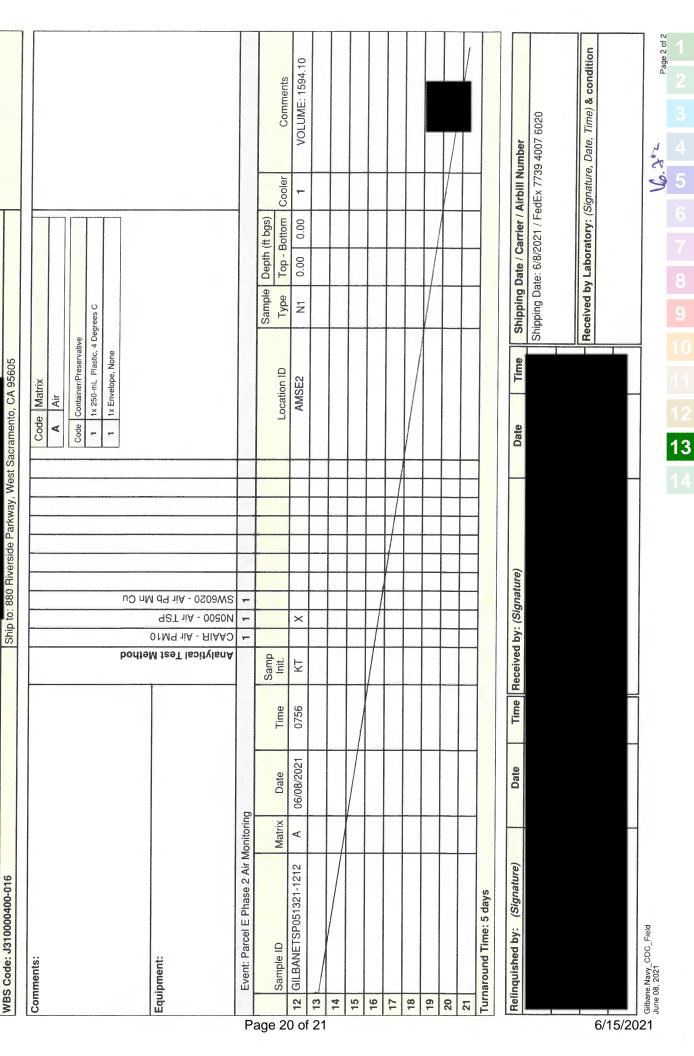
Gilbane Federal

1655 Grant Street, Suite 1200, Concord, CA 94520 bwomack@gilbaneco.com

POC:

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

Project Number: J310000400



Client: Gilbane Federal Job Number: 320-74732-1

Login Number: 74732

List Number: 1
Creator

List Source: Eurofins TestAmerica, Sacramento

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

ANALYTICAL REPORT

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

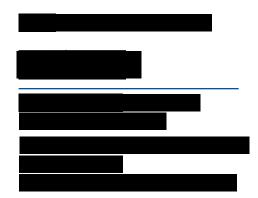
Laboratory Job ID: 320-74839-1

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

Revision: 1

For:

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



·····LINKS ······

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

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

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

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Definitions/Glossary

Client: Gilbane Federal Job ID: 320-74839-1

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

Glossary

MDA

Giossaiy	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Gilbane Federal

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

Job ID: 320-74839-1

Job ID: 320-74839-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-74839-1

Revision

This report was revised July 8, 2021 to provide a correct sample receipt checklist. No data changed as a result of this revision.

The samples were received on 6/11/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.5° C.

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

Client: Gilbane Federal Job ID: 320-74839-1

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

Client Sample	ID: GILBANEPM051321-	1213

Client Sample ID: GILBAN	EPM0513	21-1213				Lab S	3a	mple ID:	320-74839-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lood	0.0010		0.00072	0.00011	ug/m2 (Air)		_	6020	Total/NIA

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0010	0.00072	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.012	0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0019	0.00072	0.00010	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	8.7	0.30	0.30	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP051321-1213

 Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	16.9903	0.3023	0.3023 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1214

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037	0.00072	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.26	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0030	0.00072	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13	0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1214

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	16.2337		0.3158	0.3158	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051321-1215

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00094	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.0094	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0020	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.2	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1215

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Metho	d Pre	ер Туре
Total Suspended Particulates	15.5003	0.2881	0.2881 ug/m3 (Air)	1 40CFR	R50 App B Tot	tal/NA

Client Sample ID: GILBANEPM051321-1216

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0019	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.094	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0068	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051321-1216

<u>-</u>				•	
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	19.6459	0.3032	0.3032 ug/m3 (Air)	1 40CFR50 App	B Total/NA

This Detection Summary does not include radiochemical test results.

7/8/2021 (Rev. 1)

Lab Sample ID: 320-74839-2

Lab Sample ID: 320-74839-3

Lab Sample ID: 320-74839-4

Lab Sample ID: 320-74839-5

Lab Sample ID: 320-74839-6

Lab Sample ID: 320-74839-7

Lab Sample ID: 320-74839-8

Matrix: Air

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

Client Sample ID: GILBANEPM051321-1213

Date Collected: 06/09/21 07:19

Lab Sample ID: 320-74839-1

Matrix: Air

Date Received: 06/11/21 09:30 Sample Container: Folder/Filter

Client: Gilbane Federal

Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0010		0.00072	0.00011	ug/m3 (Air)		06/14/21 08:00	06/15/21 05:11	1
Copper	0.012		0.0014	0.00011	ug/m3 (Air)		06/14/21 08:00	06/15/21 05:11	1
Manganese	0.0019		0.00072	0.00010	ug/m3 (Air)		06/14/21 08:00	06/15/21 05:11	1

General Chemistry Analyte RL Result Qualifier **RL Unit** Prepared Analyzed Dil Fac 0.30 Particulate Matter as PM 10 8.7 0.30 ug/m3 06/11/21 12:00

Lab Sample ID: 320-74839-2 Client Sample ID: GILBANETSP051321-1213

Date Collected: 06/09/21 07:19

Date Received: 06/11/21 09:30 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.3023 0.3023 ug/m3 (Air) 06/11/21 12:00 16.9903

Client Sample ID: GILBANEPM051321-1214 Lab Sample ID: 320-74839-3 Matrix: Air

Date Collected: 06/09/21 07:00 Date Received: 06/11/21 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037	0.00072	0.00011	ug/m3 (Air)	_	06/14/21 08:00	06/15/21 05:14	1
Copper	0.26	0.0014	0.00011	ug/m3 (Air)		06/14/21 08:00	06/15/21 05:14	1
Manganese	0.0030	0.00072	0.00010	ug/m3 (Air)		06/14/21 08:00	06/15/21 05:14	1

General Chemistry Analyte Result Qualifier RL **RL** Unit Dil Fac **Prepared** Analyzed 0.30 0.30 ug/m3 06/11/21 12:00 **Particulate Matter as PM 10** 13

Client Sample ID: GILBANETSP051321-1214 Lab Sample ID: 320-74839-4

Date Collected: 06/09/21 07:00 Date Received: 06/11/21 09:30

Sample Container: Folder/Filter **General Chemistry** Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac 0.3158 **Total Suspended Particulates** 16.2337 0.3158 ug/m3 (Air) 06/11/21 12:00

Client Sample ID: GILBANEPM051321-1215 Lab Sample ID: 320-74839-5

Date Collected: 06/10/21 07:10 Matrix: Air

Date Received: 06/11/21 09:30 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00094		0.00069	0.00010	ug/m3 (Air)	_	06/14/21 08:00	06/15/21 05:18	1
Copper	0.0094		0.0014	0.00010	ug/m3 (Air)		06/14/21 08:00	06/15/21 05:18	1
Manganese	0.0020		0.00069	0.000096	ug/m3 (Air)		06/14/21 08:00	06/15/21 05:18	1

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Matrix: Air

Client Sample Results

Client: Gilbane Federal Job ID: 320-74839-1

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

Client Sample ID: GILBANEPM051321-1215

Lab Sample ID: 320-74839-5

Date Collected: 06/10/21 07:10 Matrix: Air

Date Received: 06/11/21 09:30 Sample Container: Folder/Filter

General Chemistry Analyte Unit Result Qualifier RL RL D Prepared Analyzed Dil Fac 0.29 0.29 ug/m3 06/11/21 12:00 Particulate Matter as PM 10 7.2

Client Sample ID: GILBANETSP051321-1215 Lab Sample ID: 320-74839-6

Date Collected: 06/10/21 07:10

Date Received: 06/11/21 09:30 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.2881 0.2881 ug/m3 (Air) 06/11/21 12:00 **Total Suspended Particulates** 15.5003

Client Sample ID: GILBANEPM051321-1216 Lab Sample ID: 320-74839-7

Date Collected: 06/10/21 06:58

Date Received: 06/11/21 09:30 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.0019 0.00069 0.00010 ug/m3 (Air) 06/14/21 08:00 06/15/21 05:21 Lead 0.00010 ug/m3 (Air) 0.0014 Copper 0.094 06/14/21 08:00 06/15/21 05:21 0.00069 0.000097 ug/m3 (Air) **Manganese** 0.0068 06/14/21 08:00 06/15/21 05:21

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 0.29 ug/m3 06/11/21 12:00 14

Client Sample ID: GILBANETSP051321-1216 Lab Sample ID: 320-74839-8

Date Collected: 06/10/21 06:58

Date Received: 06/11/21 09:30 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 0.3032 **Total Suspended Particulates** 19.6459 0.3032 ug/m3 (Air) 06/11/21 12:00

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Matrix: Air

Matrix: Air

Matrix: Air

QC Sample Results

Client: Gilbane Federal Job ID: 320-74839-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-498132/1-B

Lab Sample ID: LCS 320-498132/2-B

Lab Sample ID: LCSD 320-498132/3-B

Matrix: Air

Analysis Batch: 498588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 498143

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Lead ND 0.0012 0.00018 ug/m3 (Air) 06/14/21 08:00 06/15/21 04:10 Copper ND 0.0024 0.00018 ug/m3 (Air) 06/14/21 08:00 06/15/21 04:10 ND 0.0012 0.00017 ug/m3 (Air) 06/14/21 08:00 06/15/21 04:10 Manganese

> **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 498143

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 0.240 0.237 ug/m3 (Air) 99 86 - 111 Lead 0.240 0.237 99 Copper ug/m3 (Air) 85 - 110 0.240 ug/m3 (Air) 97 88 - 110 Manganese 0.233

> Client Sample ID: Lab Control Sample Dup **Prep Type: Total/NA**

Matrix: Air

Analyte

Matrix: Air

Analysis Batch: 498588

Analysis Batch: 498588

Prep Batch: 498143 Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Unit D %Rec

Lead 0.240 0.237 ug/m3 (Air) 99 86 - 111 0 15 Copper 0.240 0.233 ug/m3 (Air) 97 85 - 110 2 15 0.240 0.231 ug/m3 (Air) 96 Manganese 88 - 110 15

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QC Association Summary

Client: Gilbane Federal Job ID: 320-74839-1

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

Metals

Pre Prep Batch: 498132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74839-1	GILBANEPM051321-1213	Total/NA	Air	Filter to Air	
320-74839-3	GILBANEPM051321-1214	Total/NA	Air	Filter to Air	
320-74839-5	GILBANEPM051321-1215	Total/NA	Air	Filter to Air	
320-74839-7	GILBANEPM051321-1216	Total/NA	Air	Filter to Air	
MB 320-498132/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-498132/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-498132/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 498143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74839-1	GILBANEPM051321-1213	Total/NA	Air	3050B	498132
320-74839-3	GILBANEPM051321-1214	Total/NA	Air	3050B	498132
320-74839-5	GILBANEPM051321-1215	Total/NA	Air	3050B	498132
320-74839-7	GILBANEPM051321-1216	Total/NA	Air	3050B	498132
MB 320-498132/1-B	Method Blank	Total/NA	Air	3050B	498132
LCS 320-498132/2-B	Lab Control Sample	Total/NA	Air	3050B	498132
LCSD 320-498132/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	498132

Analysis Batch: 498588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74839-1	GILBANEPM051321-1213	Total/NA	Air	6020	498143
320-74839-3	GILBANEPM051321-1214	Total/NA	Air	6020	498143
320-74839-5	GILBANEPM051321-1215	Total/NA	Air	6020	498143
320-74839-7	GILBANEPM051321-1216	Total/NA	Air	6020	498143
MB 320-498132/1-B	Method Blank	Total/NA	Air	6020	498143
LCS 320-498132/2-B	Lab Control Sample	Total/NA	Air	6020	498143
LCSD 320-498132/3-B	Lab Control Sample Dup	Total/NA	Air	6020	498143

General Chemistry

Pre Prep Batch: 498175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74839-2	GILBANETSP051321-1213	Total/NA	Air	Filter to Air	
320-74839-4	GILBANETSP051321-1214	Total/NA	Air	Filter to Air	
320-74839-6	GILBANETSP051321-1215	Total/NA	Air	Filter to Air	
320-74839-8	GILBANETSP051321-1216	Total/NA	Air	Filter to Air	

Analysis Batch: 498210

Lab Sample ID 320-74839-1	Client Sample ID GILBANEPM051321-1213	Prep Type Total/NA	Matrix Air	Method PM10	Prep Batch
320-74839-3	GILBANEPM051321-1214	Total/NA	Air	PM10	
320-74839-5	GILBANEPM051321-1215	Total/NA	Air	PM10	
320-74839-7	GILBANEPM051321-1216	Total/NA	Air	PM10	

Analysis Batch: 498212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-74839-2	GILBANETSP051321-1213	Total/NA	Air	40CFR50 App B	498175
320-74839-4	GILBANETSP051321-1214	Total/NA	Air	40CFR50 App B	498175
320-74839-6	GILBANETSP051321-1215	Total/NA	Air	40CFR50 App B	498175
320-74839-8	GILBANETSP051321-1216	Total/NA	Air	40CFR50 App B	498175

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Client: Gilbane Federal

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

Client Sample ID: GILBANEPM051321-1213

Date Collected: 06/09/21 07:19 Date Received: 06/11/21 09:30 Lab Sample ID: 320-74839-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			498588	06/15/21 05:11	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0145 g	498210	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1213

Date Collected: 06/09/21 07:19

Date Received: 06/11/21 09:30

Lab Sample ID: 320-74839-2

Matrix: Air

Matrix: Air

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC
_Total/NA	Pre Prep	Filter to Air					498175	06/14/21 09:44	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1214

Date Collected: 06/09/21 07:00

Date Received: 06/11/21 09:30

Lab Sample ID: 320-74839-3 Matrix: Air

Lab Sample ID: 320-74839-4

Lab Sample ID: 320-74839-5

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			498588	06/15/21 05:14	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0224 g	498210	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1214

Date Collected: 06/09/21 07:00

Date Received: 06/11/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					498175	06/14/21 09:44	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1215

Date Collected: 06/10/21 07:10

Date Received: 06/11/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			498588	06/15/21 05:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0126 g	498210	06/11/21 12:00	DPM	TAL SAC

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Matrix: Air

Matrix: Air

Client Sample ID: GILBANETSP051321-1215

Date Collected: 06/10/21 07:10 Date Received: 06/11/21 09:30

Lab Sample ID: 320-74839-6

Matrix: Air

Lab Sample ID: 320-74839-7

Lab Sample ID: 320-74839-8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					498175	06/14/21 09:44	DPM	TAL SAC

Client Sample ID: GILBANEPM051321-1216

Date Collected: 06/10/21 06:58

Date Received: 06/11/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					498132	06/14/21 07:21	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	498143	06/14/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1	·		498588	06/15/21 05:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0249 g	498210	06/11/21 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP051321-1216

Date Collected: 06/10/21 06:58

Date Received: 06/11/21 09:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			498212	06/11/21 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					498175	06/14/21 09:44	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: Gilbane Federal Job ID: 320-74839-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

		ogram	Identification Number	Expiration Date
ANAB	Der	pt. of Defense ELAP	L2468	01-20-24
Oregon	NE	LAP	4040	01-30-23
The following analytes	are included in this repor	rt, but the laboratory is not o	certified by the governing authority.	This list may include analytes for wh
the agency does not o	offer certification.	•	, , ,	This list may include analytes for wh
0 ,	•	rt, but the laboratory is not o	certified by the governing authority Analyte	This list may include analytes for wh
the agency does not o	offer certification.	•	, , ,	

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Method Summary

Client: Gilbane Federal

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

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Job ID: 320-74839-1

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Sample Summary

Client: Gilbane Federal

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-74839-1	GILBANEPM051321-1213	Air	06/09/21 07:19	06/11/21 09:30
320-74839-2	GILBANETSP051321-1213	Air	06/09/21 07:19	06/11/21 09:30
320-74839-3	GILBANEPM051321-1214	Air	06/09/21 07:00	06/11/21 09:30
320-74839-4	GILBANETSP051321-1214	Air	06/09/21 07:00	06/11/21 09:30
320-74839-5	GILBANEPM051321-1215	Air	06/10/21 07:10	06/11/21 09:30
320-74839-6	GILBANETSP051321-1215	Air	06/10/21 07:10	06/11/21 09:30
320-74839-7	GILBANEPM051321-1216	Air	06/10/21 06:58	06/11/21 09:30
320-74839-8	GII BANETSP051321-1216	Air	06/10/21 06:58	06/11/21 09:30

Job ID: 320-74839-1

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RECORD

COC # KT061021AIR

1655 Grant Street, Suite 1200, Concord, CA 94520

bwomack@gilbaneco.com

Received by Laboratory: (Signature, Date, Time) & condition VOLUME: 1660.13 VOLUME: 1583.13 VOLUME: 1735.45 VOLUME: 1668.48 VOLUME: 1653.88 VOLUME: 1743.64 VOLUME: 1733.84 VOLUME: 1649.20 Comments Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA Monitoring Monitoring Shipping Date: 6/10/2021 / FedEx 7739 6648 3099 320-74839 Chain of Custody Shipping Date / Carrier / Airbill Number Top - Bottom | Cooler -0.00 0.00 0.00 0.00 Sample | Depth (ft bgs) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Type ź Z ź Ē ź ź ź ź 1x 250-mL Plastic, 4 Degrees C Code | Container/Preservative 1 1x Envelope, None Time 95605 Location ID AMSE2 AMSE2 AMSE1 AMSE1 AMSE1 AMSE₂ AMSE₂ Code Matrix **AMSE1** A Air Date Time | Received by: (Signature) SM6020 - Air Pb Mn Cu × × Ship to 48T 1iA - 0080V × × × × POC: OFM9 11A - AIAAO × Analytical Test Method Samp Init. 노 Ϋ́ 노 노 Ϋ́ Ż 호 궃 0719 0020 0710 0710 0719 0200 0658 0658 Time Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 06/09/2021 06/10/2021 06/10/2021 06/10/2021 06/09/2021 06/10/2021 06/09/2021 06/09/2021 Date Date Event: Parcel E Phase 2 Air Monitoring Matrix K V ⋖ ⋖ K Ø Ø Sample ID

Gall BANETSP051321-1213 Relinquished by: (Signature) GILBANETSP051321-1214 GILBANETSP051321-1215 8 GILBANETSP051321-1216 3 GILBANEPM051321-1214 GILBANEPM051321-1215 GILBANEPM051321-1216 Project Number: J310000400 WBS Code: J310000400-016 Turnaround Time: 5 days (Leld (Silbane, Navy_COC_Field Comments: Equipment: 4 S. 9 6 10

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Client: Gilbane Federal Job Number: 320-74839-1

Login Number: 74839

List Source: Eurofins TestAmerica, Sacramento

List No	ımber: 1
Croate	

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

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ANALYTICAL REPORT

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

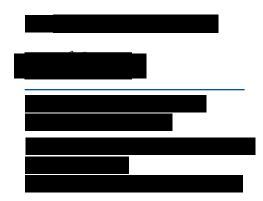
Laboratory Job ID: 320-75123-1

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

Revision: 1

For:

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



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

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

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

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Definitions/Glossary

Client: Gilbane Federal Job ID: 320-75123-1

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

Glossary

MDC

Ciossaiy	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Concentration (Radiochemistry)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

0

0

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Case Narrative

Client: Gilbane Federal

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

Job ID: 320-75123-1

Job ID: 320-75123-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Revision

This report was revised July 8, 2021 to provide a correct sample receipt checklist. No data changed as a result of this revision.

The samples were received on 6/18/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.4° C.

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

Client: Gilbane Federal Job ID: 320-75123-1

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

Client Sample	ID: GILBANEPM051921-122	1
Ciletti Sallible	ID. GILDANEFINOS 132 I-122	

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0059	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.056	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0042	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21	0.29	0.29	ua/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051921-1221

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	34.6100	0.2879	0.2879 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051921-1222

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.022	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0043	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051921-1222

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	33.7339	0.3012	0.3012 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051921-1223

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0047	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.060	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	38	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051921-1223

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	62.7248	0.2823	0.2823 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051921-1224

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.086	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0062	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051921-1224

-					
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	41 0026	0.3006	0.3006 ug/m3 (Air)	1 40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

7/8/2021 (Rev. 1)

Lab Sample ID: 320-75123-1

Lab Sample ID: 320-75123-2

Lab Sample ID: 320-75123-3

Lab Sample ID: 320-75123-4

Lab Sample ID: 320-75123-5

Lab Sample ID: 320-75123-6

Lab Sample ID: 320-75123-7

Lab Sample ID: 320-75123-8

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-75123-1

Lab Sample ID: 320-75123-2

Lab Sample ID: 320-75123-3

Lab Sample ID: 320-75123-4

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

Client Sample ID: GILBANEPM051921-1221

Date Collected: 06/16/21 07:04

Client: Gilbane Federal

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0059	0.00069	0.00010 ug/m3 (Air)		06/23/21 12:06	06/23/21 19:39	1
Copper	0.056	0.0014	0.00010 ug/m3 (Air)		06/23/21 12:06	06/23/21 19:39	1
Manganese	0.0042	0.00069	0.000097 ug/m3 (Air)		06/23/21 12:06	06/23/21 19:39	1

Manganese	0.0042	0.00069	0.000097 ug/m3 (Air)	06/23/21 12:06	06/23/21 19:39	1
General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21	0.29	0.29 ug/m3			06/21/21 10:40	1

Client Sample ID: GILBANETSP051921-1221

Date Collected: 06/16/21 07:04

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter

General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.6100		0.2879	0.2879	ug/m3 (Air)			06/21/21 10:40	1

Client Sample ID: GILBANEPM051921-1222

Date Collected: 06/16/21 06:45

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017	0.00069	0.00010	ug/m3 (Air)	_	06/23/21 12:06	06/23/21 19:49	1
Copper	0.022	0.0014	0.00010	ug/m3 (Air)		06/23/21 12:06	06/23/21 19:49	1
Manganese	0.0043	0.00069	0.000097	ug/m3 (Air)		06/23/21 12:06	06/23/21 19:49	1

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.29	0.29	ug/m3			06/21/21 10:40	1

Client Sample ID: GILBANETSP051921-1222

Date Collected: 06/16/21 06:45

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter

General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.7339	0.3012	0.3012 ug/m3 (Air)	_		06/21/21 10:40	1

Client Sample ID: GILBANEPM051921-1223 Lab Sample ID: 320-75123-5

Date Collected: 06/17/21 07:06 Date Received: 06/18/21 09:45

Sample Container: Folder/Filter	(
Method: 6020 - Metals (ICP/MS))								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					1 0 (11)			22/22/24 42 72	

Lead 0.0047 0.00069 0.00010 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:52 Copper 0.060 0.0014 0.00010 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:52 Manganese 0.010 0.00069 0.000096 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:52

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Gilbane Federal Job ID: 320-75123-1

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

Client Sample ID: GILBANEPM051921-1223

Lab Sample ID: 320-75123-5 Date Collected: 06/17/21 07:06

Matrix: Air

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	38		0.29	0.29	ug/m3			06/21/21 10:40	1

Client Sample ID: GILBANETSP051921-1223 Lab Sample ID: 320-75123-6

Date Collected: 06/17/21 07:06

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter Matrix: Air

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.2823 0.2823 ug/m3 (Air) 06/21/21 10:40 **Total Suspended Particulates** 62.7248

Client Sample ID: GILBANEPM051921-1224 Lab Sample ID: 320-75123-7

Date Collected: 06/17/21 06:50

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00069 0.00010 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:55 Lead 0.0023 0.0014 0.00010 ug/m3 (Air) Copper 0.086 06/23/21 12:06 06/23/21 19:55 **Manganese** 0.00069 0.000096 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:55 0.0062

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac Particulate Matter as PM 10 32 0.29 0.29 ug/m3 06/21/21 10:40

Client Sample ID: GILBANETSP051921-1224 Lab Sample ID: 320-75123-8

Date Collected: 06/17/21 06:50

Date Received: 06/18/21 09:45 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed D Prepared Dil Fac 0.3006 0.3006 ug/m3 (Air) **Total Suspended Particulates** 41.0026 06/21/21 10:40

Eurofins TestAmerica, Sacramento

Matrix: Air

Matrix: Air

QC Sample Results

Client: Gilbane Federal Job ID: 320-75123-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-500791/1-B

Lab Sample ID: LCS 320-500791/2-B

Analysis Batch: 501180

Analysis Batch: 501180

Matrix: Air

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 500863

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Lead ND 0.0012 0.00018 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:17 Copper ND 0.0024 0.00018 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:17 ND 0.0012 0.00017 ug/m3 (Air) 06/23/21 12:06 06/23/21 19:17 Manganese

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 500863

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 0.240 0.231 ug/m3 (Air) 96 Lead 86 - 111 0.240 0.253 105 Copper ug/m3 (Air) 85 - 110 0.240 ug/m3 (Air) 88 - 110 Manganese 0.244 102

> **Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA**

Lab Sample ID: LCSD 320-500791/3-B **Matrix: Air**

Analyte

Matrix: Air

Analysis Batch: 501180

Prep Batch: 500863 Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Unit D %Rec

Lead 0.240 0.234 ug/m3 (Air) 97 86 - 111 1 15 Copper 0.240 0.254 ug/m3 (Air) 106 85 - 110 0 15 0.240 ug/m3 (Air) 102 Manganese 0.246 88 - 110 0 15

QC Association Summary

Client: Gilbane Federal Job ID: 320-75123-1

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

Metals

Pre Prep Batch: 500791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75123-1	GILBANEPM051921-1221	Total/NA	Air	Filter to Air	
320-75123-3	GILBANEPM051921-1222	Total/NA	Air	Filter to Air	
320-75123-5	GILBANEPM051921-1223	Total/NA	Air	Filter to Air	
320-75123-7	GILBANEPM051921-1224	Total/NA	Air	Filter to Air	
MB 320-500791/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-500791/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-500791/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 500863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75123-1	GILBANEPM051921-1221	Total/NA	Air	3050B	500791
320-75123-3	GILBANEPM051921-1222	Total/NA	Air	3050B	500791
320-75123-5	GILBANEPM051921-1223	Total/NA	Air	3050B	500791
320-75123-7	GILBANEPM051921-1224	Total/NA	Air	3050B	500791
MB 320-500791/1-B	Method Blank	Total/NA	Air	3050B	500791
LCS 320-500791/2-B	Lab Control Sample	Total/NA	Air	3050B	500791
LCSD 320-500791/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	500791

Analysis Batch: 501180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75123-1	GILBANEPM051921-1221	Total/NA	Air	6020	500863
320-75123-3	GILBANEPM051921-1222	Total/NA	Air	6020	500863
320-75123-5	GILBANEPM051921-1223	Total/NA	Air	6020	500863
320-75123-7	GILBANEPM051921-1224	Total/NA	Air	6020	500863
MB 320-500791/1-B	Method Blank	Total/NA	Air	6020	500863
LCS 320-500791/2-B	Lab Control Sample	Total/NA	Air	6020	500863
LCSD 320-500791/3-B	Lab Control Sample Dup	Total/NA	Air	6020	500863

General Chemistry

Pre Prep Batch: 500231

Lab Sample ID 320-75123-2	Client Sample ID GILBANETSP051921-1221	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-75123-4	GILBANETSP051921-1222	Total/NA	Air	Filter to Air	
320-75123-6	GILBANETSP051921-1223	Total/NA	Air	Filter to Air	
320-75123-8	GILBANETSP051921-1224	Total/NA	Air	Filter to Air	

Analysis Batch: 501109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75123-1	GILBANEPM051921-1221	Total/NA	Air	PM10	
320-75123-3	GILBANEPM051921-1222	Total/NA	Air	PM10	
320-75123-5	GILBANEPM051921-1223	Total/NA	Air	PM10	
320-75123-7	GILBANEPM051921-1224	Total/NA	Air	PM10	

Analysis Batch: 501110

Lab Sample ID 320-75123-2	GILBANETSP051921-1221	Prep Type Total/NA	Matrix Air	Method 40CFR50 App B	Prep Batch 500231
320-75123-4	GILBANETSP051921-1222	Total/NA	Air	40CFR50 App B	500231
320-75123-6	GILBANETSP051921-1223	Total/NA	Air	40CFR50 App B	500231
320-75123-8	GILBANETSP051921-1224	Total/NA	Air	40CFR50 App B	500231

Eurofins TestAmerica, Sacramento

Client Sample ID: GILBANEPM051921-1221

Date Collected: 06/16/21 07:04 Date Received: 06/18/21 09:45

Lab Sample ID: 320-75123-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					500791	06/23/21 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	500863	06/23/21 12:06	NIM	TAL SAC
Total/NA	Analysis	6020		1			501180	06/23/21 19:39	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0361 g	501109	06/21/21 10:40	DPM	TAL SAC

Client Sample ID: GILBANETSP051921-1221

Date Collected: 06/16/21 07:04 Date Received: 06/18/21 09:45

Lab Sample ID: 320-75123-2

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			501110	06/21/21 10:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					500231	06/21/21 13:45	DPM	TAL SAC

Client Sample ID: GILBANEPM051921-1222

Date Collected: 06/16/21 06:45 Date Received: 06/18/21 09:45

Lab Sample ID: 320-75123-3 Matrix: Air

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Pre Prep Filter to Air 500791 06/23/21 10:00 NIM TAL SAC 3050B 500863 Total/NA Prep 06/23/21 12:06 NIM TAL SAC 0.08333 100 mL Sample Total/NA Analysis 6020 TAL SAC 501180 06/23/21 19:49 DPM 0.0375 g Total/NA Analysis PM10 0 g 501109 06/21/21 10:40 DPM TAL SAC

Client Sample ID: GILBANETSP051921-1222

Lab Sample ID: 320-75123-4 Date Collected: 06/16/21 06:45 Matrix: Air Date Received: 06/18/21 09:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			501110	06/21/21 10:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					500231	06/21/21 13:45	DPM	TAL SAC

Client Sample ID: GILBANEPM051921-1223

Date Collected: 06/17/21 07:06 Matrix: Air Date Received: 06/18/21 09:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					500791	06/23/21 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	500863	06/23/21 12:06	NIM	TAL SAC
Total/NA	Analysis	6020		1	·		501180	06/23/21 19:52	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0662 g	501109	06/21/21 10:40	DPM	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Sample ID: 320-75123-5

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-75123-6

Lab Sample ID: 320-75123-7

Lab Sample ID: 320-75123-8

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

Client Sample ID: GILBANETSP051921-1223

Date Collected: 06/17/21 07:06

Date Received: 06/18/21 09:45

Client: Gilbane Federal

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			501110	06/21/21 10:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					500231	06/21/21 13:45	DPM	TAL SAC

Client Sample ID: GILBANEPM051921-1224

Date Collected: 06/17/21 06:50

Date Received: 06/18/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					500791	06/23/21 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	500863	06/23/21 12:06	NIM	TAL SAC
Total/NA	Analysis	6020		1			501180	06/23/21 19:55	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0552 g	501109	06/21/21 10:40	DPM	TAL SAC

Client Sample ID: GILBANETSP051921-1224

Date Collected: 06/17/21 06:50

Date Received: 06/18/21 09:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			501110	06/21/21 10:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					500231	06/21/21 13:45	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: Gilbane Federal Job ID: 320-75123-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date
ANAB	De	pt. of Defense ELAP	L2468	01-20-24
Oregon	NE	ELAP	4040	01-30-23
The following analyte:	s are included in this repo	rt, but the laboratory is not	certified by the governing authority.	This list may include analytes for wh
The following analytes the agency does not o	•	rt, but the laboratory is not	certified by the governing authority.	This list may include analytes for wh
,	•	ort, but the laboratory is not on Matrix	certified by the governing authority. Analyte	This list may include analytes for wh
the agency does not o	offer certification.	,	, , ,	

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Method Summary

Client: Gilbane Federal

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

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 320-75123-1

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Sample Summary

Client: Gilbane Federal

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-75123-1	GILBANEPM051921-1221	Air	06/16/21 07:04	06/18/21 09:45	
320-75123-2	GILBANETSP051921-1221	Air	06/16/21 07:04	06/18/21 09:45	
320-75123-3	GILBANEPM051921-1222	Air	06/16/21 06:45	06/18/21 09:45	
320-75123-4	GILBANETSP051921-1222	Air	06/16/21 06:45	06/18/21 09:45	
320-75123-5	GILBANEPM051921-1223	Air	06/17/21 07:06	06/18/21 09:45	
320-75123-6	GILBANETSP051921-1223	Air	06/17/21 07:06	06/18/21 09:45	
320-75123-7	GILBANEPM051921-1224	Air	06/17/21 06:50	06/18/21 09:45	
320-75123-8	GILBANETSP051921-1224	Air	06/17/21 06:50	06/18/21 09:45	

Job ID: 320-75123-1

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Gilbane Federal Brett Womack 1655 Grant Street, Suite 1200, Concord, CA 94520 bwomack@gilbaneco.com Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 CHAIN-OF-CUSTODY RECORD

Proje	Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	, Parcel E RA PI	nase 2		<u>E</u>	orati	ony: Euro	fins Environ	ment Testi	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento CA	Cramento West 9	Sacrame	nto CA	Fyont	Parcel E Dhace 2 Air
Projec	Project Number: J310000400				Pool	0				0				Monit	Monitoring
WBS	WBS Code: J310000400-016				υ	Chin to	O COO	opide Doger	Most Wood		L			Т	,
					5	2	מפות מפס	Side rains	dy, west	ood niverside Fairway, West Sacramento, CA 95605	502			_	
Comments: Equipment:	Comments:			p-4/-10-10-10-10-10-10-10-10-10-10-10-10-10-	Analytical Test Method CAAIR - Air PM10	92T 11A - 0030V	SW6020 - Air Pb Mn Cu			Code Matrix A Air Code Container/Preservative 1 1x 250 mL Plastic, 4 D 1 1x Envelope, None	Air Container/Preservative 1x 250-mL Plastic, 4 Degrees C 1x Envelope, None	320.	75123 0	320-75123 Chain of Custody	ýpotsu
_ h	Event: Parcel E Phase 2 Air Monitoring	ing			-	1	1								
Page	Sample ID	2	i i	Samp							S		Depth (ft bgs)		
+	DAMOE 4004 4004	-	ime	<u>.</u>	-		+		+	Location ID	Type	+	Top - Bottom	Cooler	r Comments
5 d	+	06/16/2021	0704	<u></u>	×		×			AMSE1	Z	0.00	0.00	-	VOLUME: 1729.39
_	_	06/16/2021	0704	호	-	×				AMSE1	N.	0.00	0.00	-	VOLUME: 1736.49
_	\dashv	06/16/2021	0645	호	×		×			AMSE2	2	0.00	0.00	-	VOLUME: 1730.52
4	GILBANETSP051921-1222 A	06/16/2021	0645	호		×				AMSE2	Σ	0.00	0.00	-	VOLUME: 1660.05
	GILBANEPM051921-1223 A	06/17/2021	9020	조	×		×			AMSE1	Z	0.00	00.00	-	VOLUME: 1742.72
9	GILBANETSP051921-1223 A	06/17/2021	9020	호		×				AMSE1	Σ	0.00	0.00	-	VOLUME: 1771.23
7	GILBANEPM051921-1224 A	06/17/2021	0650	Ā	×		×			AMSE2	Z	0.00	0.00	-	VOLUME: 1742.72
80	GILBANETSP051921-1224 A	06/17/2021	0650	Ā		×				AMSE2	Z	0.00	0.00	-	VOLUME: 1663.31
6					-							L		_	
10					_								\parallel	\parallel	
Turna	Turnaround Time: 5 days														
Relin	Relinquished by: (Signature)	200	Ë	7	1	0									

Relinquished by: (Signature)	(Signature)	Date	Time	Time Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
						<	Shipping Date: 6/17/2021 / 7740 2848 7809
							7:1:0
						I	5.17
							Received by Laboratory: (Signature, Date, Time) & condition
0							
21							
(F							
l e							
Choane.Navy_COC_Field June 17, 2021	q						

Client: Gilbane Federal Job Number: 320-75123-1

Login Number: 75123

List Number: 1
Creator

List Source: Eurofins TestAmerica, Sacramento

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

ANALYTICAL REPORT

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

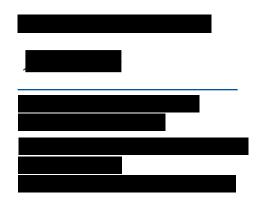
Laboratory Job ID: 320-75313-1

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

Revision: 1

For:

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



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

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

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

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Definitions/Glossary

Client: Gilbane Federal Job ID: 320-75313-1

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

Glossary

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

Method Quantitation Limit

MDC Minimum Detectable Concentration (Radiochemistry)
MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number

NC Not Calculated

MQL

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Gilbane Federal

Job ID: 320-75313-1 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75313-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-75313-1

Revision

This report was revised July 8, 2021 to provide a correct sample receipt checklist. No data changed as a result of this revision.

The samples were received on 6/23/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.9° C.

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

Client: Gilbane Federal Job ID: 320-75313-1

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

Client Sample	ID.	CII D	NIEDM	054024 4225	Τ
Client Samble	ID:	GILBA	AINEPINI	UD 19Z 1-1ZZD	

Client Sample ID: GILBANEPM051921-1225	Lab Sample ID: 320-75313-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0070	0.0021	0.00032	ug/m3 (Air)	1	6020	Total/NA
Copper	0.095	0.0043	0.00032	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.022	0.0021	0.00030	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	55	0.89	0.89	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP051921-1225

_						
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	95.7600	0.9225	0.9225 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051921-1226

– Analyte	Result Qualifie	er RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0058	0.0021	0.00031	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.13	0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013	0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	43	0.87	0.87	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051921-1226

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	56.5283	0.9177	0.9177 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051921-1227

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012	0.00068	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.030	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0029	0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.6	0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051921-1227

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	12.1583	0.2789	0.2789 ug/m3 (Air)		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM051921-1228

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00070	0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.095	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025	0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.9	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP051921-1228

_						
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	10.5388	0.2994	0.2994 ug/m3 (Air)		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 320-75313-6

Lab Sample ID: 320-75313-7

Lab Sample ID: 320-75313-2

Lab Sample ID: 320-75313-3

Lab Sample ID: 320-75313-4

Lab Sample ID: 320-75313-5

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-75313-1

Lab Sample ID: 320-75313-2

Lab Sample ID: 320-75313-3

Lab Sample ID: 320-75313-4

Lab Sample ID: 320-75313-5

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

Client Sample ID: GILBANEPM051921-1225

Date Collected: 06/17/21 14:53

Client: Gilbane Federal

Date Received: 06/23/21 10:00 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0070	0.0021	0.00032	ug/m3 (Air)		06/29/21 06:10	06/29/21 19:02	1
Copper	0.095	0.0043	0.00032	ug/m3 (Air)		06/29/21 06:10	06/29/21 19:02	1
Manganese	0.022	0.0021	0.00030	ug/m3 (Air)		06/29/21 06:10	06/29/21 19:02	1
_								

General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	55	0.89	0.89 ug/m3			06/25/21 09:15	1

Client Sample ID: GILBANETSP051921-1225

Date Collected: 06/17/21 14:53 Date Received: 06/23/21 10:00

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	95.7600		0.9225	0.9225	ug/m3 (Air)	_		06/25/21 09:15	1

Client Sample ID: GILBANEPM051921-1226

Date Collected: 06/17/21 14:44

Date Received: 06/23/21 10:00 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0058	0.0021	0.00031	ug/m3 (Air)	_	06/29/21 06:10	06/29/21 19:11	1
Copper	0.13	0.0042	0.00031	ug/m3 (Air)		06/29/21 06:10	06/29/21 19:11	1
Manganese	0.013	0.0021	0.00029	ug/m3 (Air)		06/29/21 06:10	06/29/21 19:11	1

Ocheral Ohemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	43	0.87	0.87 ug/m3			06/25/21 09:15	1

Client Sample ID: GILBANETSP051921-1226

Date Collected: 06/17/21 14:44 Date Received: 06/23/21 10:00

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.5283		0.9177	0.9177	ug/m3 (Air)	_		06/25/21 09:15	1

Client Sample ID: GILBANEPM051921-1227

Date Collected: 06/22/21 07:28

Date Received: 06/23/21 10:00 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012		0.00068	0.00010	ug/m3 (Air)	_	06/29/21 06:10	06/29/21 19:14	1
Copper	0.030		0.0014	0.00010	ug/m3 (Air)		06/29/21 06:10	06/29/21 19:14	1
Manganese	0.0029		0.00068	0.000096	ug/m3 (Air)		06/29/21 06:10	06/29/21 19:14	1

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Client Sample Results

Client: Gilbane Federal Job ID: 320-75313-1

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

Client Sample ID: GILBANEPM051921-1227

Lab Sample ID: 320-75313-5

Date Collected: 06/22/21 07:28 Matrix: Air

Date Received: 06/23/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Unit Result Qualifier RL RL D Prepared Analyzed Dil Fac 0.28 06/25/21 09:15 0.28 ug/m3 Particulate Matter as PM 10 6.6

Client Sample ID: GILBANETSP051921-1227 Lab Sample ID: 320-75313-6

Date Collected: 06/22/21 07:28

Date Received: 06/23/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.2789 0.2789 ug/m3 (Air) 06/25/21 09:15 **Total Suspended Particulates** 12.1583

Client Sample ID: GILBANEPM051921-1228 Lab Sample ID: 320-75313-7

Date Collected: 06/22/21 07:14

Date Received: 06/23/21 10:00 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00070 0.00010 ug/m3 (Air) 06/29/21 06:10 06/29/21 19:18 Lead 0.00070 0.00010 ug/m3 (Air) 0.0014 Copper 0.095 06/29/21 06:10 06/29/21 19:18 0.00070 **Manganese** 0.0025 0.000097 ug/m3 (Air) 06/29/21 06:10 06/29/21 19:18

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 0.29 ug/m3 06/25/21 09:15 7.9

Client Sample ID: GILBANETSP051921-1228 Lab Sample ID: 320-75313-8

Date Collected: 06/22/21 07:14

Date Received: 06/23/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 0.2994 **Total Suspended Particulates** 10.5388 0.2994 ug/m3 (Air) 06/25/21 09:15

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Matrix: Air

Matrix: Air

Matrix: Air

7/8/2021 (Rev. 1)

QC Sample Results

Client: Gilbane Federal Job ID: 320-75313-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-502738/1-B

Analysis Batch: 502990

Manganese

Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA Prep Batch: 502748 MD MD

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND ND	0.0012	0.00018 ug/m3	(Air)	06/29/21 06:10	06/29/21 18:39	1
Copper	ND	0.0024	0.00018 ug/m3	(Air)	06/29/21 06:10	06/29/21 18:39	1
Manganese	ND	0.0012	0.00017 ug/m3	(Air)	06/29/21 06:10	06/29/21 18:39	1

Lab Sample ID: LCS 320-502738/2-B **Client Sample ID: Lab Control Sample** Matrix: Air **Prep Type: Total/NA** Analysis Batch: 502990 Prep Batch: 502748 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.241 ug/m3 (Air) 100 86 - 111 0.240 0.252 ug/m3 (Air) 105 Copper 85 - 110 0.240 0.245 ug/m3 (Air) 88 - 110 Manganese 102

Lab Sample ID: LCSD 320-502738/3-B **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA **Matrix: Air Prep Batch: 502748 Analysis Batch: 502990** Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec Lead 0.240 0.242 ug/m3 (Air) 101 86 - 111 1 15 Copper 0.240 0.261 ug/m3 (Air) 109 85 - 110 4 15

0.251

ug/m3 (Air)

105

88 - 110

2

15

0.240

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QC Association Summary

Client: Gilbane Federal Job ID: 320-75313-1

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

Metals

Pre Prep Batch: 502738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75313-1	GILBANEPM051921-1225	Total/NA	Air	Filter to Air	
320-75313-3	GILBANEPM051921-1226	Total/NA	Air	Filter to Air	
320-75313-5	GILBANEPM051921-1227	Total/NA	Air	Filter to Air	
320-75313-7	GILBANEPM051921-1228	Total/NA	Air	Filter to Air	
MB 320-502738/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-502738/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-502738/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 502748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75313-1	GILBANEPM051921-1225	Total/NA	Air	3050B	502738
320-75313-3	GILBANEPM051921-1226	Total/NA	Air	3050B	502738
320-75313-5	GILBANEPM051921-1227	Total/NA	Air	3050B	502738
320-75313-7	GILBANEPM051921-1228	Total/NA	Air	3050B	502738
MB 320-502738/1-B	Method Blank	Total/NA	Air	3050B	502738
LCS 320-502738/2-B	Lab Control Sample	Total/NA	Air	3050B	502738
LCSD 320-502738/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	502738

Analysis Batch: 502990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75313-1	GILBANEPM051921-1225	Total/NA	Air	6020	502748
320-75313-3	GILBANEPM051921-1226	Total/NA	Air	6020	502748
320-75313-5	GILBANEPM051921-1227	Total/NA	Air	6020	502748
320-75313-7	GILBANEPM051921-1228	Total/NA	Air	6020	502748
MB 320-502738/1-B	Method Blank	Total/NA	Air	6020	502748
LCS 320-502738/2-B	Lab Control Sample	Total/NA	Air	6020	502748
LCSD 320-502738/3-B	Lab Control Sample Dup	Total/NA	Air	6020	502748

General Chemistry

Pre Prep Batch: 502939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75313-2	GILBANETSP051921-1225	Total/NA	Air	Filter to Air	
320-75313-4	GILBANETSP051921-1226	Total/NA	Air	Filter to Air	
320-75313-6	GILBANETSP051921-1227	Total/NA	Air	Filter to Air	
320-75313-8	GILBANETSP051921-1228	Total/NA	Air	Filter to Air	

Analysis Batch: 503010

Lab Sample ID 320-75313-2	Client Sample ID GILBANETSP051921-1225	Prep Type Total/NA	Matrix Air	Method 40CFR50 App B	Prep Batch 502939
320-75313-4	GILBANETSP051921-1226	Total/NA	Air	40CFR50 App B	502939
320-75313-6	GILBANETSP051921-1227	Total/NA	Air	40CFR50 App B	502939
320-75313-8	GILBANETSP051921-1228	Total/NA	Air	40CFR50 App B	502939

Analysis Batch: 503012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75313-1	GILBANEPM051921-1225	Total/NA	Air	PM10	
320-75313-3	GILBANEPM051921-1226	Total/NA	Air	PM10	
320-75313-5	GILBANEPM051921-1227	Total/NA	Air	PM10	
320-75313-7	GILBANEPM051921-1228	Total/NA	Air	PM10	

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Client Sample ID: GILBANEPM051921-1225

Date Collected: 06/17/21 14:53 Date Received: 06/23/21 10:00

Client: Gilbane Federal

Lab Sample ID: 320-75313-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					502738	06/29/21 05:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	502748	06/29/21 06:10	NIM	TAL SAC
Total/NA	Analysis	6020		1			502990	06/29/21 19:02	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0306 g	503012	06/25/21 09:15	DPM	TAL SAC

Client Sample ID: GILBANETSP051921-1225

Date Collected: 06/17/21 14:53 Date Received: 06/23/21 10:00

Lab Sample ID: 320-75313-2 Matrix: Air

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Total/NA	Analysis	40CFR50 App B		1			503010	06/25/21 09:15	DPM	TAL SAC
Į	Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Client Sample ID: GILBANEPM051921-1226

Date Collected: 06/17/21 14:44 Date Received: 06/23/21 10:00

Lab Sample ID: 320-75313-3

Lab Sample ID: 320-75313-4

Lab Sample ID: 320-75313-5

Matrix: Air

Matrix: Air

Matrix: Air

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Pre Prep Filter to Air 502738 06/29/21 05:50 NIM TAL SAC 3050B 502748 Total/NA Prep 06/29/21 06:10 NIM TAL SAC 0.08333 100 mL Sample Total/NA Analysis 6020 TAL SAC 502990 06/29/21 19:11 DPM Total/NA Analysis PM10 0 g 0.0245 g 503012 06/25/21 09:15 DPM TAL SAC

Client Sample ID: GILBANETSP051921-1226

Date Collected: 06/17/21 14:44

Date Received: 06/23/21 10:00

	Batch -	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			503010	06/25/21 09:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Client Sample ID: GILBANEPM051921-1227

Date Collected: 06/22/21 07:28

Date Received: 06/23/21 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					502738	06/29/21 05:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	502748	06/29/21 06:10	NIM	TAL SAC
Total/NA	Analysis	6020		1	·		502990	06/29/21 19:14	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0116 g	503012	06/25/21 09:15	DPM	TAL SAC

Eurofins TestAmerica, Sacramento

Job ID: 320-75313-1

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

Client Sample ID: GILBANETSP051921-1227

Lab Sample ID: 320-75313-6

Date Collected: 06/22/21 07:28 Matrix: Air

Date Received: 06/23/21 10:00

Client: Gilbane Federal

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			503010	06/25/21 09:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Client Sample ID: GILBANEPM051921-1228

Lab Sample ID: 320-75313-7 Date Collected: 06/22/21 07:14 Matrix: Air

Date Received: 06/23/21 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					502738	06/29/21 05:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	502748	06/29/21 06:10	NIM	TAL SAC
Total/NA	Analysis	6020		1			502990	06/29/21 19:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0136 g	503012	06/25/21 09:15	DPM	TAL SAC

Client Sample ID: GILBANETSP051921-1228

Lab Sample ID: 320-75313-8 Date Collected: 06/22/21 07:14 Matrix: Air

Date Received: 06/23/21 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			503010	06/25/21 09:15	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

Client: Gilbane Federal Job ID: 320-75313-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority		ogram	Identification Number	Expiration Date
ANAB	De	ept. of Defense ELAP	L2468	01-20-24
Oregon	NE	ELAP	4040	01-30-23
	are included in this repo	ort, but the laboratory is not t	certified by the governing authority.	This list may include analytes for which
the agency does not o	offer certification.	•	, , ,	This list may include analytes for whic
0 ,	•	Matrix	Analyte	I his list may include analytes for whic
the agency does not o	offer certification.	•	, , ,	

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Method Summary

Client: Gilbane Federal

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

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 320-75313-1

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Sample Summary

Client: Gilbane Federal

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-75313-1	GILBANEPM051921-1225	Air	06/17/21 14:53	06/23/21 10:00	
320-75313-2	GILBANETSP051921-1225	Air	06/17/21 14:53	06/23/21 10:00	
320-75313-3	GILBANEPM051921-1226	Air	06/17/21 14:44	06/23/21 10:00	
320-75313-4	GILBANETSP051921-1226	Air	06/17/21 14:44	06/23/21 10:00	
320-75313-5	GILBANEPM051921-1227	Air	06/22/21 07:28	06/23/21 10:00	
320-75313-6	GILBANETSP051921-1227	Air	06/22/21 07:28	06/23/21 10:00	
320-75313-7	GILBANEPM051921-1228	Air	06/22/21 07:14	06/23/21 10:00	
320-75313-8	GILBANETSP051921-1228	Air	06/22/21 07:14	06/23/21 10:00	

Job ID: 320-75313-1

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1655 Grant Street, Suite 1200, Concord, CA 94520 bwomack@gilbaneco.com Gilbane Federal **Brett Womack**

CHAIN-OF-CUSTODY

RECORD

VOLUME: 1754.56 VOLUME: 1793.02 VOLUME: 1726.14 VOLUME: 1670.02 VOLUME: 559.15 VOLUME: 541.98 VOLUME: 573.10 **VOLUME: 544.86** Event: Parcel E Phase 2 Air Monitoring Time | Shipping Date / Carrier / Airbill Number Cooler Top - Bottom 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA Sample Depth (ft bgs) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Type Z 22 ž 22 ź ź ź ź 1 1x 250-ml. Plastic, 4 Degrees C Code Container/Preservative 1 1x Envelope, None Ship to: 880 Riverside Parkway, West Sacramento, CA 95605 Location ID AMSE2 AMSE1 AMSE2 AMSE1 **AMSE2 AMSE2 AMSE1** Code | Matrix AMSE1 Ą Received by: (Signature) SW6020 - Air Pb Mn Cu × × × 92T 11A - 0020N POC: CANIR - Air PM10 × × × × Analytical Test Method Samp Init. 첫 노 노 Ā 노 노 노 노 Time 0714 1444 0728 0728 0714 Time 1453 1453 1444 Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 06/22/2021 06/22/2021 06/22/2021 06/22/2021 06/17/2021 06/17/2021 06/17/2021 06/17/2021 Date 320-75313 Chain of Custody Event: Parcel E Phase 2 Air Monitoring Matrix ⋖ Ø < ⋖ ⋖ ⋖ 4 < Event: Parcel E Phase 2 Air M

Sample ID

G 1 GILBANETSP051921-1225 4 GILBANETSP051921-1226 6 GILBANETSP051921-1227 8 GILBANETSP051921-1228 GILBANEPM051921-1226 5 GILBANEPM051921-1227 GILBANEPM051921-1228 Project Number: J310000400 WBS Code: J310000400-016 Turnaround Time: NA Equipment: Comments: 10 6

Page 1 of 1 Received by Laboratory: (Signature, Date, Time) & condition 2619 13 14 (Ken) (Localization of the state of the stat

Shipping Date: 6/22/2021/FedEx 774067211975

Date

Date

Relinquished by: (Signature)

Client: Gilbane Federal Job Number: 320-75313-1

Login Number: 75313

List Number: 1
Creator

List Source: Eurofins TestAmerica, Sacramento

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

Eurofins TestAmerica, Sacramento

ANALYTICAL REPORT

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

Laboratory Job ID: 320-75415-1

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

For:

eurofins 🔅

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



·····LINKS ······

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

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

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

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Definitions/Glossary

Client: Gilbane Federal Job ID: 320-75415-1

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

Qualifiers

M	eta	Is

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
	-

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Gilbane Federal

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

Job ID: 320-75415-1

Job ID: 320-75415-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-75415-1

Comments

No additional comments.

Receipt

The samples were received on 6/25/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.4° C.

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

Client: Gilbane Federal Job ID: 320-75415-1

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

011 4.0	ID 011 DANIEDIAGA (-0.4 40-4	_
Client Sample	: ID: GILBANEPM061721-1272	-

Client Sample ID: GILB <i>l</i>	ANEPM061721-1272			Lab Sample ID:	320-75415-1
 Analyto	Posult Qualifier	DI	MDI Unit	Dil Fac D Mothod	Pron Typo

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	d Prep Type
Lead	0.0032	0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.026	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0036	0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	6.8	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GII BANETSP061721-1272

Client Sample ID: 0	GILBANETSP061721-1272			Lab Sample ID:	320-75415-2
Amalusta	Beault Qualifier	DI	DI IImit	Dil Foe D. Method	Dren Tune

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	18.8778	0.2895	0.2895 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM061721-1273

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00061	J	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.081		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0021		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.1		0.29	0.29	ua/m3			PM10	Total/NA

Client Sample ID: GILBANETSP061721-1273

Analyte	Result (Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type
Total Suspended Particulates	10.5204		0.3023	0.3023	ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM061721-1274

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.022	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.0	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP061721-1274

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	13.2643	0.2909	0.2909 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM061721-1275

 Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00079	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.047	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0031	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.8	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP061721-1275

· · · · · · · · · · · · · · · · · · ·				•	
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	8.5471	0.3031	0.3031 ug/m3 (Air)	1 40CFR50 App E	3 Total/NA

This Detection Summary does not include radiochemical test results.

7/2/2021

Lab Sample ID: 320-75415-3

Lab Sample ID: 320-75415-4

Lab Sample ID: 320-75415-5

Lab Sample ID: 320-75415-6

Lab Sample ID: 320-75415-7

Lab Sample ID: 320-75415-8

Client: Gilbane Federal Job ID: 320-75415-1

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

Client Sample ID: GILBANEPM061721-1272

Date Collected: 06/23/21 07:19

Date Received: 06/25/21 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032	0.00070	0.00010	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:46	1
Copper	0.026	0.0014	0.00010	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:46	1
Manganese	0.0036	0.00070	0.000098	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:46	1

General Chemistry									
Analyte	Result (Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.8		0.29	0.29	ug/m3			06/28/21 11:00	1

Client Sample ID: GILBANETSP061721-1272

Date Collected: 06/23/21 07:19 Date Received: 06/25/21 09:30

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.8778		0.2895	0.2895	ug/m3 (Air)			06/28/21 11:00	1

Client Sample ID: GILBANEPM061721-1273

Date Collected: 06/23/21 07:07

Date Received: 06/25/21 09:30 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00061	J	0.00069	0.00010	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:56	1
Copper	0.081		0.0014	0.00010	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:56	1
Manganese	0.0021		0.00069	0.000097	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:56	1

General Chemistry										
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Particulate Matter as PM 10	6.1		0.29	0.29	ug/m3			06/28/21 11:00	1	

Client Sample ID: GILBANETSP061721-1273

Date Collected: 06/23/21 07:07 Date Received: 06/25/21 09:30

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	10.5204		0.3023	0.3023	ug/m3 (Air)			06/28/21 11:00	1

Client Sample ID: GILBANEPM061721-1274

Date Collected: 06/24/21 07:10

Date Received: 06/25/21 09:30 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011	0.00069	0.00010	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:59	1
Copper	0.022	0.0014	0.00010	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:59	1
Manganese	0.0025	0.00069	0.000097	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:59	1

Eurofins TestAmerica, Sacramento

Page 6 of 16 7/2/2021

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-75415-1

Lab Sample ID: 320-75415-2

Lab Sample ID: 320-75415-3

Lab Sample ID: 320-75415-4

Lab Sample ID: 320-75415-5

Client Sample Results

Client: Gilbane Federal Job ID: 320-75415-1

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

Client Sample ID: GILBANEPM061721-1274

Date Collected: 06/24/21 07:10

Date Received: 06/25/21 09:30 Sample Container: Folder/Filter

Matrix: Air

General Chemistry Analyte Result Qualifier Unit RL RL D Prepared Analyzed Dil Fac 0.29 ug/m3 0.29 06/28/21 11:00 Particulate Matter as PM 10 5.0

Client Sample ID: GILBANETSP061721-1274

Date Collected: 06/24/21 07:10

Date Received: 06/25/21 09:30 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 13.2643 0.2909 0.2909 ug/m3 (Air) 06/28/21 11:00 **Total Suspended Particulates**

Client Sample ID: GILBANEPM061721-1275 Lab Sample ID: 320-75415-7

Date Collected: 06/24/21 06:58

Date Received: 06/25/21 09:30 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00069 0.00010 ug/m3 (Air) 07/01/21 10:00 07/01/21 17:02 Lead 0.00079 0.0014 0.00010 ug/m3 (Air) 07/01/21 10:00 07/01/21 17:02 Copper 0.047 0.00069 0.000097 ug/m3 (Air) 07/01/21 10:00 07/01/21 17:02 **Manganese** 0.0031

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 0.29 ug/m3 06/28/21 11:00 6.8

Client Sample ID: GILBANETSP061721-1275 Lab Sample ID: 320-75415-8

Date Collected: 06/24/21 06:58

Date Received: 06/25/21 09:30 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 0.3031 0.3031 ug/m3 (Air) **Total Suspended Particulates** 8.5471 06/28/21 11:00

7/2/2021

Lab Sample ID: 320-75415-5

Lab Sample ID: 320-75415-6

Matrix: Air

Matrix: Air

Matrix: Air

QC Sample Results

Client: Gilbane Federal Job ID: 320-75415-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-503429/1-B

Lab Sample ID: LCS 320-503429/2-B

Matrix: Air

Matrix: Air

Manganese

Analysis Batch: 503778

Analysis Batch: 503778

Prep Type: Total/NA

Prep Batch: 503438

	III B							
Α	nalyte Result	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Le	ead ND	0.0012	0.00018	ug/m3 (Air)	_	07/01/21 10:00	07/01/21 16:24	1
C	opper ND	0.0024	0.00018	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:24	1
M	anganese ND	0.0012	0.00017	ug/m3 (Air)		07/01/21 10:00	07/01/21 16:24	1

MD MD

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 503438

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88 - 110

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.240	0.235		ug/m3 (Air)	_	98	86 - 111	
Copper	0.240	0.257		ug/m3 (Air)		107	85 - 110	
Manganese	0.240	0.249		ug/m3 (Air)		104	88 - 110	

0.240

Lab Sample ID: LCSD 320-503429/3-B **Client Sample ID: Lab Control Sample Dup Matrix: Air** Prep Type: Total/NA **Prep Batch: 503438 Analysis Batch: 503778** LCSD LCSD Spike %Rec. RPD Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 86 - 111 Lead 0.240 0.237 ug/m3 (Air) 99 1 15 Copper 0.240 0.255 ug/m3 (Air) 106 85 - 110 1 15

0.251

ug/m3 (Air)

15

0

7/2/2021

QC Association Summary

Client: Gilbane Federal Job ID: 320-75415-1

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

Metals

Pre Prep Batch: 503429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75415-1	GILBANEPM061721-1272	Total/NA	Air	Filter to Air	
320-75415-3	GILBANEPM061721-1273	Total/NA	Air	Filter to Air	
320-75415-5	GILBANEPM061721-1274	Total/NA	Air	Filter to Air	
320-75415-7	GILBANEPM061721-1275	Total/NA	Air	Filter to Air	
MB 320-503429/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-503429/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-503429/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 503438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75415-1	GILBANEPM061721-1272	Total/NA	Air	3050B	503429
320-75415-3	GILBANEPM061721-1273	Total/NA	Air	3050B	503429
320-75415-5	GILBANEPM061721-1274	Total/NA	Air	3050B	503429
320-75415-7	GILBANEPM061721-1275	Total/NA	Air	3050B	503429
MB 320-503429/1-B	Method Blank	Total/NA	Air	3050B	503429
LCS 320-503429/2-B	Lab Control Sample	Total/NA	Air	3050B	503429
LCSD 320-503429/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	503429

Analysis Batch: 503778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75415-1	GILBANEPM061721-1272	Total/NA	Air	6020	503438
320-75415-3	GILBANEPM061721-1273	Total/NA	Air	6020	503438
320-75415-5	GILBANEPM061721-1274	Total/NA	Air	6020	503438
320-75415-7	GILBANEPM061721-1275	Total/NA	Air	6020	503438
MB 320-503429/1-B	Method Blank	Total/NA	Air	6020	503438
LCS 320-503429/2-B	Lab Control Sample	Total/NA	Air	6020	503438
LCSD 320-503429/3-B	Lab Control Sample Dup	Total/NA	Air	6020	503438

General Chemistry

Pre Prep Batch: 502939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75415-2	GILBANETSP061721-1272	Total/NA	Air	Filter to Air	
320-75415-4	GILBANETSP061721-1273	Total/NA	Air	Filter to Air	
320-75415-6	GILBANETSP061721-1274	Total/NA	Air	Filter to Air	
320-75415-8	GILBANETSP061721-1275	Total/NA	Air	Filter to Air	

Analysis Batch: 503838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75415-1	GILBANEPM061721-1272	Total/NA	Air	PM10	
320-75415-3	GILBANEPM061721-1273	Total/NA	Air	PM10	
320-75415-5	GILBANEPM061721-1274	Total/NA	Air	PM10	
320-75415-7	GILBANEPM061721-1275	Total/NA	Air	PM10	

Analysis Batch: 503839

Lab Sample ID 320-75415-2	Client Sample ID GILBANETSP061721-1272	Prep Type Total/NA	Matrix Air	Method 40CFR50 App B	Prep Batch 502939
320-75415-4	GILBANETSP061721-1273	Total/NA	Air	40CFR50 App B	502939
320-75415-6	GILBANETSP061721-1274	Total/NA	Air	40CFR50 App B	502939
320-75415-8	GILBANETSP061721-1275	Total/NA	Air	40CFR50 App B	502939

Eurofins TestAmerica, Sacramento

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Job ID: 320-75415-1

Client: Gilbane Federal

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

Client Sample ID: GILBANEPM061721-1272

Date Collected: 06/23/21 07:19 Date Received: 06/25/21 09:30

Lab Sample ID: 320-75415-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					503429	07/01/21 09:48	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	503438	07/01/21 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1	•		503778	07/01/21 16:46	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0117 g	503838	06/28/21 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP061721-1272

Date Collected: 06/23/21 07:19 Date Received: 06/25/21 09:30

Lab Sample ID: 320-75415-2 Matrix: Air

Lab Sample ID: 320-75415-3

Lab Sample ID: 320-75415-4

Lab Sample ID: 320-75415-5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B					503839	06/28/21 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Client Sample ID: GILBANEPM061721-1273

Date Collected: 06/23/21 07:07

Date Received: 06/25/21 09:30 Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab

Total/NA Pre Prep Filter to Air 503429 07/01/21 09:48 NIM TAL SAC Total/NA 3050B 503438 TAL SAC Prep 100 mL 07/01/21 10:00 NIM 0.08333 Sample Total/NA Analysis 6020 503778 TAL SAC 07/01/21 16:56 DPM Total/NA Analysis PM10 0 g 0.0106 g 503838 06/28/21 11:00 DPM TAL SAC

Client Sample ID: GILBANETSP061721-1273

Date Collected: 06/23/21 07:07

Date Received: 06/25/21 09:30

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B	-	1			503839	06/28/21 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Client Sample ID: GILBANEPM061721-1274

Date Collected: 06/24/21 07:10

Date Received: 06/25/21 09:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					503429	07/01/21 09:48	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	503438	07/01/21 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1	•		503778	07/01/21 16:59	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0087 g	503838	06/28/21 11:00	DPM	TAL SAC

Eurofins TestAmerica, Sacramento

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Matrix: Air

Matrix: Air

Matrix: Air

Lab Chronicle

Client: Gilbane Federal Job ID: 320-75415-1

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

Client Sample ID: GILBANETSP061721-1274

Lab Sample ID: 320-75415-6 Date Collected: 06/24/21 07:10 Matrix: Air

Date Received: 06/25/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			503839	06/28/21 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Client Sample ID: GILBANEPM061721-1275

Date Collected: 06/24/21 06:58

Date Received: 06/25/21 09:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					503429	07/01/21 09:48	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	503438	07/01/21 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			503778	07/01/21 17:02	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0118 g	503838	06/28/21 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP061721-1275

Date Collected: 06/24/21 06:58

Date Received: 06/25/21 09:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			503839	06/28/21 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					502939	06/29/21 17:46	DPM	TAL SAC

Laboratory References:

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

Matrix: Air

Matrix: Air

Lab Sample ID: 320-75415-7

Lab Sample ID: 320-75415-8

Accreditation/Certification Summary

Client: Gilbane Federal Job ID: 320-75415-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Р	rogram	Identification Number	Expiration Date
ANAB	D	ept. of Defense ELAP	L2468	01-20-24
Oregon	N	ELAP	4040	01-30-23
the agency does not o	offer certification.	•		This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
40CFR50 App B		Air	Total Suspended Particulates	S
PM10		Air	Particulate Matter as PM 10	

Method Summary

Client: Gilbane Federal

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

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 320-75415-1

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Sample Summary

Client: Gilbane Federal

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-75415-1	GILBANEPM061721-1272	Air	06/23/21 07:19	06/25/21 09:30	
320-75415-2	GILBANETSP061721-1272	Air	06/23/21 07:19	06/25/21 09:30	
320-75415-3	GILBANEPM061721-1273	Air	06/23/21 07:07	06/25/21 09:30	
320-75415-4	GILBANETSP061721-1273	Air	06/23/21 07:07	06/25/21 09:30	
320-75415-5	GILBANEPM061721-1274	Air	06/24/21 07:10	06/25/21 09:30	
320-75415-6	GILBANETSP061721-1274	Air	06/24/21 07:10	06/25/21 09:30	
320-75415-7	GILBANEPM061721-1275	Air	06/24/21 06:58	06/25/21 09:30	
320-75415-8	GILBANETSP061721-1275	Air	06/24/21 06:58	06/25/21 09:30	

Job ID: 320-75415-1

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Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA Event: Parcel E Phase 2 Air

POC: 1

bwomack@gilbaneco.com

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

Project Number: J310000400

Gilbane Federal

CHAIN-OF-CUSTODY

RECORD

Gilbane

Received by Laboratory: (Signature, Date, Time) & condition Shipping Date: 6/24/2021/FedEx 7740 9068 7420 2/2/20 June 24, 2021

MB MB	WBS Code: J310000400-016	0-016					Ship to: 8	to: 880) River	side P	arkway	West	80 Riverside Parkway, West Sacramento, CA 95605	CA 95605					
18																			
	Comments:												Code	Matrix					
													V	Air				,	
													Code	Code Container/Preservative					
													1 1x 2	1x 250-mL Plastic, 4 Degrees C	grees C			·	
													1 1x E	1x Envelope, None					
						ро		nO										1	
						Meth		uM										_	
Equ	Equipment:					A tesT) I Md	4ST 4G 1i/											
						- Isoliytical	CAAIR - Air	11A - 0020N A - 0209WS					33	320-75415 Chain of Custody	of Custody				
	Event: Parcel E Phase 2 Air Monitoring	ase 2 Air N	Monitoring	CII			-	1 1											
age						Samp									Sample		Depth (ft bgs)	- C	
	Sample ID		Matrix	Date	Time	luit.							Loc	Location ID	Туре	Top-	Top - Bottom	Cooler	Comments
-	GILBANEPM061721-1272	1-1272	A	06/23/2021	0719	KT	×	×			_		V	AMSE1	- N	0.00	0.00	1 1	VOLUME:1722.54
2	GILBANETSP061721-1272	21-1272	A	06/23/2021	0719	KT		×			_		¥	AMSE1	N.	0.00	0.00	1 1	VOLUME: 1726.90
က	GILBANEPM061721-1273	1-1273	A	06/23/2021	0707	K	×	×					A	AMSE2	N L	0.00	0.00	1 1	VOLUME: 1737.32
4	GILBANETSP061721-1273	21-1273	٧	06/23/2021	0707	KT		×			_		A	AMSE2	Z	0.00	0.00	1 1	VOLUME: 1653.93
2	GILBANEPM061721-1274	1-1274	٧	06/24/2021	0710	KT	×	×					A	AMSE1	N.	0.00	0.00	1 1	VOLUME: 1729.53
9	GILBANETSP061721-1274	21-1274	A	06/24/2021	0710	KT		×			-		A	AMSE1	Ñ	0.00	0.00	-	VOLUME: 1718.90
7	GILBANEPM061721-1275	1-1275	A	06/24/2021	0658	KT	×	×			H		A	AMSE2	۲.	0.00	0.00	1 1	VOLUME: 1731.70
œ	GILBANETSP061721-1275	21-1275	A	06/24/2021	0658	KT		×					A	AMSE2	N F	0.00	0.00	1 1	VOLUME: 1649.68
6																	_		
10											-								
Tur	Turnaround Time: 5 days	ıys																	
Doll		(Signature)	_	Date	Time	Time Received by (Signature)	t hv	Sign	fire				Date	Time	Shipping	, Date	Carrie	Shipping Date / Carrier / Airhill Number	Nimber
Je	Heilinguished by: (5)	diamel	-	Date	THICK!	nece ve	Dy.	Signe	Hurey				Dale	allille .	Simpling	Daie	Carrie	Alroin	Number

Client: Gilbane Federal Job Number: 320-75415-1

Login Number: 75415

List Number: 1
Creator:

List Source: Eurofins TestAmerica, Sacramento

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

Eurofins TestAmerica, Sacramento

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ANALYTICAL REPORT

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

Laboratory Job ID: 320-75596-1

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

For:

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

Attn



·····LINKS ······

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

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

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

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Definitions/Glossary

Client: Gilbane Federal Job ID: 320-75596-1

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

Qualifiers

B 4		
M	ΔТЗ	ıc
	Clu	

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
	114 1 1 0 11511 1 4 1 1 4 0 4 0 10 14 1 1 1 1 1 1 1 1

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins TestAmerica, Sacramento

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Odoramento

Case Narrative

Client: Gilbane Federal

Job ID: 320-75596-1 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75596-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-75596-1

Comments

No additional comments.

Receipt

The samples were received on 6/30/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.2° C.

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

Client: Gilbane Federal Job ID: 320-75596-1

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

Client Sample ID: GILBANEPM061721-1276
--

Lab Sample ID: 320-75596-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026	0.0021	0.00032	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.023	0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0030	0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	3.9	0.89	0.89	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP061721-1276

Lab Sample ID: 320-75596-2

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	9.8871	0.8673	0.8673 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM061721-1277

Lab Sample ID: 320-75596-3

Analyte	Result Quali	ifier RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0020 J	0.0021	0.00032	ug/m3 (Air)	1	6020	Total/NA
Copper	0.096	0.0042	0.00032	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0046	0.0021	0.00029	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	5.8	0.88	0.88	ug/m3	1	PM10	Total/NA

Client Sample ID: GILBANETSP061721-1277

Lab Sample ID: 320-75596-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	8.7429		0.9107	0.9107	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM061721-1278

Lab Sample ID: 320-75596-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0010	0.00070	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.054	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0028	0.00070	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.3	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP061721-1278

Lab Sample ID: 320-75596-6

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	15.9363	0.2951	0.2951 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM061721-1279

Lab Sample ID: 320-75596-7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00080	0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.016	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0017	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.5	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP061721-1279

Lab Sample ID: 320-75596-8

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	12.2826	0.3055	0.3055 ug/m3 (Air)		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Job ID: 320-75596-1

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

Client Sample ID: GILBANEPM061721-1276

Lab Sample ID: 320-75596-1 Date Collected: 06/24/21 15:00

Matrix: Air

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

Client: Gilbane Federal

Method: 6020 - Metals	(ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026	0.0021	0.00032	ug/m3 (Air)		07/07/21 08:15	07/07/21 12:44	1
Copper	0.023	0.0043	0.00032	ug/m3 (Air)		07/07/21 08:15	07/07/21 12:44	1
Manganese	0.0030	0.0021	0.00030	ug/m3 (Air)		07/07/21 08:15	07/07/21 12:44	1

General Chemistry Analyte RL Result Qualifier **RL** Unit Prepared Analyzed Dil Fac 0.89 07/01/21 16:30 Particulate Matter as PM 10 3.9 0.89 ug/m3

Lab Sample ID: 320-75596-2 Client Sample ID: GILBANETSP061721-1276

Date Collected: 06/24/21 15:00 Matrix: Air

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.8673 0.8673 ug/m3 (Air) 07/01/21 16:30 9.8871

Client Sample ID: GILBANEPM061721-1277 Lab Sample ID: 320-75596-3

Date Collected: 06/24/21 14:52 Matrix: Air

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020	J	0.0021	0.00032	ug/m3 (Air)	_	07/07/21 08:15	07/07/21 12:47	1
Copper	0.096		0.0042	0.00032	ug/m3 (Air)		07/07/21 08:15	07/07/21 12:47	1
Manganese	0.0046		0.0021	0.00029	ug/m3 (Air)		07/07/21 08:15	07/07/21 12:47	1

Analyte Result Qualifier RL **RL** Unit Dil Fac **Prepared** Analyzed 0.88 07/01/21 16:30 0.88 ug/m3 Particulate Matter as PM 10 5.8

Client Sample ID: GILBANETSP061721-1277 Lab Sample ID: 320-75596-4

Date Collected: 06/24/21 14:52 Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac 0.9107 **Total Suspended Particulates** 8.7429 0.9107 ug/m3 (Air) 07/01/21 16:30

Client Sample ID: GILBANEPM061721-1278 Lab Sample ID: 320-75596-5

Date Collected: 06/29/21 07:08 Matrix: Air

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0010	0.00070	0.00011	ug/m3 (Air)		07/07/21 08:15	07/07/21 13:03	1
Copper	0.054	0.0014	0.00011	ug/m3 (Air)		07/07/21 08:15	07/07/21 13:03	1
Manganese	0.0028	0.00070	0.000099	ug/m3 (Air)		07/07/21 08:15	07/07/21 13:03	1

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Matrix: Air

Client Sample Results

Client: Gilbane Federal Job ID: 320-75596-1

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

Client Sample ID: GILBANEPM061721-1278

Lab Sample ID: 320-75596-5 Date Collected: 06/29/21 07:08

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier Unit RL RL D Prepared Analyzed Dil Fac 0.29 ug/m3 0.29 07/01/21 16:30 Particulate Matter as PM 10 9.3

Client Sample ID: GILBANETSP061721-1278 Lab Sample ID: 320-75596-6

Date Collected: 06/29/21 07:08

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac 0.2951 0.2951 ug/m3 (Air) 07/01/21 16:30 **Total Suspended Particulates** 15.9363

Client Sample ID: GILBANEPM061721-1279 Lab Sample ID: 320-75596-7

Date Collected: 06/29/21 06:55

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00070 0.00010 ug/m3 (Air) 07/07/21 08:15 07/07/21 13:06 Lead 0.00080 0.0014 0.00010 ug/m3 (Air) 07/07/21 08:15 07/07/21 13:06 Copper 0.016 0.00070 0.000098 ug/m3 (Air) 07/07/21 08:15 07/07/21 13:06 **Manganese** 0.0017

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 0.29 ug/m3 07/01/21 16:30 7.5

Client Sample ID: GILBANETSP061721-1279 Lab Sample ID: 320-75596-8

Date Collected: 06/29/21 06:55

Date Received: 06/30/21 10:00 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Dil Fac D Prepared 0.3055 0.3055 ug/m3 (Air) **Total Suspended Particulates** 12.2826 07/01/21 16:30

QC Sample Results

Client: Gilbane Federal Job ID: 320-75596-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-504599/1-B

Lab Sample ID: LCS 320-504599/2-B

Matrix: Air

Analysis Batch: 504913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 504603

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)	_	07/07/21 08:15	07/07/21 12:03	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/07/21 08:15	07/07/21 12:03	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/07/21 08:15	07/07/21 12:03	1
	Lead Copper	Analyte Result Lead ND Copper ND	Analyte Result Qualifier Lead ND Copper ND	Analyte Result Qualifier RL Lead ND 0.0012 Copper ND 0.0024	Analyte Result ND Qualifier RL 0.0012 MDL 0.0018 Copper ND 0.0024 0.00018	Analyte Result Qualifier RL MDL Unit Lead ND 0.0012 0.0018 ug/m3 (Air) Copper ND 0.0024 0.00018 ug/m3 (Air)	Lead ND 0.0012 0.00018 ug/m3 (Air) Copper ND 0.0024 0.00018 ug/m3 (Air)	Analyte Result Qualifier RL MDL Unit D Prepared Lead ND 0.0012 0.0018 ug/m3 (Air) 07/07/21 08:15 Copper ND 0.0024 0.0018 ug/m3 (Air) 07/07/21 08:15	Analyte Result Qualifier RL MDL unit Unit D 07/07/21 08:15 Analyzed Lead ND 0.0012 0.0018 ug/m3 (Air) 07/07/21 08:15 07/07/21 12:03 Copper ND 0.0024 0.00018 ug/m3 (Air) 07/07/21 08:15 07/07/21 12:03

MR MR

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 504603

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.222 ug/m3 (Air) 92 86 - 111 0.240 0.228 ug/m3 (Air) 95 85 - 110 Copper 0.240 0.226 ug/m3 (Air) 94 88 - 110 Manganese

Lab Sample ID: LCSD 320-504599/3-B **Client Sample ID: Lab Control Sample Dup** Matrix: Air Prep Type: Total/NA

Matrix: Air

Analysis Batch: 504913

Analysis Batch: 504913

Prep Batch: 504603 Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec Lead 0.240 0.222 ug/m3 (Air) 93 86 - 111 0

15 Copper 0.240 0.230 ug/m3 (Air) 96 85 - 110 15 1 Manganese 0.240 0.233 ug/m3 (Air) 97 88 - 110 15 3

QC Association Summary

Client: Gilbane Federal Job ID: 320-75596-1

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

Metals

Pre Prep Batch: 504599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75596-1	GILBANEPM061721-1276	Total/NA	Air	Filter to Air	
320-75596-3	GILBANEPM061721-1277	Total/NA	Air	Filter to Air	
320-75596-5	GILBANEPM061721-1278	Total/NA	Air	Filter to Air	
320-75596-7	GILBANEPM061721-1279	Total/NA	Air	Filter to Air	
MB 320-504599/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-504599/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-504599/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 504603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75596-1	GILBANEPM061721-1276	Total/NA	Air	3050B	504599
320-75596-3	GILBANEPM061721-1277	Total/NA	Air	3050B	504599
320-75596-5	GILBANEPM061721-1278	Total/NA	Air	3050B	504599
320-75596-7	GILBANEPM061721-1279	Total/NA	Air	3050B	504599
MB 320-504599/1-B	Method Blank	Total/NA	Air	3050B	504599
LCS 320-504599/2-B	Lab Control Sample	Total/NA	Air	3050B	504599
LCSD 320-504599/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	504599

Analysis Batch: 504913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75596-1	GILBANEPM061721-1276	Total/NA	Air	6020	504603
320-75596-3	GILBANEPM061721-1277	Total/NA	Air	6020	504603
320-75596-5	GILBANEPM061721-1278	Total/NA	Air	6020	504603
320-75596-7	GILBANEPM061721-1279	Total/NA	Air	6020	504603
MB 320-504599/1-B	Method Blank	Total/NA	Air	6020	504603
LCS 320-504599/2-B	Lab Control Sample	Total/NA	Air	6020	504603
LCSD 320-504599/3-B	Lab Control Sample Dup	Total/NA	Air	6020	504603

General Chemistry

Pre Prep Batch: 504779

Lab Sample ID 320-75596-2	Client Sample ID GILBANETSP061721-1276	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-75596-4	GILBANETSP061721-1277	Total/NA	Air	Filter to Air	
320-75596-6	GILBANETSP061721-1278	Total/NA	Air	Filter to Air	
320-75596-8	GILBANETSP061721-1279	Total/NA	Air	Filter to Air	

Analysis Batch: 504874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75596-2	GILBANETSP061721-1276	Total/NA	Air	40CFR50 App B	504779
320-75596-4	GILBANETSP061721-1277	Total/NA	Air	40CFR50 App B	504779
320-75596-6	GILBANETSP061721-1278	Total/NA	Air	40CFR50 App B	504779
320-75596-8	GILBANETSP061721-1279	Total/NA	Air	40CFR50 App B	504779

Analysis Batch: 504875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75596-1	GILBANEPM061721-1276	Total/NA	Air	PM10	
320-75596-3	GILBANEPM061721-1277	Total/NA	Air	PM10	
320-75596-5	GILBANEPM061721-1278	Total/NA	Air	PM10	
320-75596-7	GILBANEPM061721-1279	Total/NA	Air	PM10	

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Job ID: 320-75596-1

Matrix: Air

Lab Sample ID: 320-75596-1

Lab Sample ID: 320-75596-3

Lab Sample ID: 320-75596-4

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

Client Sample ID: GILBANEPM061721-1276

Date Collected: 06/24/21 15:00 Date Received: 06/30/21 10:00

Client: Gilbane Federal

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					504599	07/07/21 07:48	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	504603	07/07/21 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			504913	07/07/21 12:44	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0022 g	504875	07/01/21 16:30	DPM	TAL SAC

Client Sample ID: GILBANETSP061721-1276

Lab Sample ID: 320-75596-2 Date Collected: 06/24/21 15:00 Matrix: Air Date Received: 06/30/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			504874	07/01/21 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

Client Sample ID: GILBANEPM061721-1277

Date Collected: 06/24/21 14:52

Date Received: 06/30/21 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					504599	07/07/21 07:48	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	504603	07/07/21 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			504913	07/07/21 12:47	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0033 g	504875	07/01/21 16:30	DPM	TAL SAC

Client Sample ID: GILBANETSP061721-1277

Date Collected: 06/24/21 14:52

Date Received: 06/30/21 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			504874	07/01/21 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

Client Sample ID: GILBANEPM061721-1278

Date Collected: 06/29/21 07:08 Date Received: 06/30/21 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					504599	07/07/21 07:48	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	504603	07/07/21 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1	•		504913	07/07/21 13:03	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0158 g	504875	07/01/21 16:30	DPM	TAL SAC

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Matrix: Air

Matrix: Air

Lab Chronicle

Client: Gilbane Federal Job ID: 320-75596-1

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

Client Sample ID: GILBANETSP061721-1278

Lab Sample ID: 320-75596-6 Date Collected: 06/29/21 07:08 Matrix: Air

Date Received: 06/30/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			504874	07/01/21 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

Client Sample ID: GILBANEPM061721-1279

Date Collected: 06/29/21 06:55

Date Received: 06/30/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					504599	07/07/21 07:48	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	504603	07/07/21 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			504913	07/07/21 13:06	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0128 g	504875	07/01/21 16:30	DPM	TAL SAC

Client Sample ID: GILBANETSP061721-1279

Date Collected: 06/29/21 06:55

Date Received: 06/30/21 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			504874	07/01/21 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

Laboratory References:

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

Matrix: Air

Matrix: Air

Lab Sample ID: 320-75596-7

Lab Sample ID: 320-75596-8

Accreditation/Certification Summary

Client: Gilbane Federal Job ID: 320-75596-1

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

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date
ANAB	De	ept. of Defense ELAP	L2468	01-20-24
Oregon	NE	ELAP	4040	01-30-23
	are included in this repo	ort, but the laboratory is not t	certified by the governing authority.	This list may include analytes for which
the agency does not o	offer certification.	•	, , ,	This list may include analytes for whic
0 ,	•	Matrix	Analyte	I his list may include analytes for whic
the agency does not o	offer certification.	•	, , ,	

Method Summary

Client: Gilbane Federal

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

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 320-75596-1

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Sample Summary

Client: Gilbane Federal

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset
320-75596-1	GILBANEPM061721-1276	Air	06/24/21 15:00	06/30/21 10:00	
320-75596-2	GILBANETSP061721-1276	Air	06/24/21 15:00	06/30/21 10:00	
320-75596-3	GILBANEPM061721-1277	Air	06/24/21 14:52	06/30/21 10:00	
320-75596-4	GILBANETSP061721-1277	Air	06/24/21 14:52	06/30/21 10:00	
320-75596-5	GILBANEPM061721-1278	Air	06/29/21 07:08	06/30/21 10:00	
320-75596-6	GILBANETSP061721-1278	Air	06/29/21 07:08	06/30/21 10:00	
320-75596-7	GILBANEPM061721-1279	Air	06/29/21 06:55	06/30/21 10:00	
320-75596-8	GILBANETSP061721-1279	Air	06/29/21 06:55	06/30/21 10:00	

Job ID: 320-75596-1

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CHAIN-OF-CUSTODY RECORD

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

Shipping Date Time Samp Fig. Stranger Continue Present Time Samp Fig. Stranger Continue Present Stranger S	5	Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	pyard,	Parcel E RA PI	ase 2		Labora	atory.	Eurofins !	-nvironmen	t Testi	atory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	o, West S	acramen		Event: Pa	rcel E Phase 2 Air
Ship to: 880 Riverside Parkway West Sacramento, CA 95605	Pro	ect Number: J310000400					Pool									Monitoring	
Place 2 Air Monitoring Place 2 Air Monitoring Place 2 Air Monitoring	WBS	S Code: J310000400-016					Ship	0: 88(Riverside	Parkway,	West	Sacramento, CA 95605					
Phase 2 Air Monitoring							-	-	-		-						
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Matrix Date Time Samp		Event: Parcel E Phase 2 Air M.	onitorin	9													
Marrix Date Infine Inf						Samp							Sample	1			
1721-1276		Sample ID	Matrix	Date	Time	Init.		-			-	Location ID	Type	-	_	Cooler	Comments
1721-1277	-	GILBANEPM061721-1276	4	06/24/2021	1500	Ϋ́	×	×				AMSE1	N2	0.00	0.00	-	VOLUME: 561.53
1721-1277		GILBANETSP061721-1276	V	06/24/2021	1500	ΕŽ		J				AMSE1	N2	0.00	0.00	-	VOLUME: 576.51
1721-1278		GILBANEPM061721-1277	Α	06/24/2021	1452	KT	×	×				AMSE2	NS	0.00	0.00	-	VOLUME: 570.27
721-1278 A 06/29/2021 0708 KT X X X A AMSE1 721-1279 A 06/29/2021 0655 KT X X X A AMSE2 721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X X X A AMSE2 1721-1279 A 06/29/2021 0655 KT X X X X X X X X X X X X X X X X X X		GILBANETSP061721-1277	Α	06/24/2021	1452	KT		Ü				AMSE2	N2	0.00	0.00	-	VOLUME: 549.02
1721-1278		GILBANEPM061721-1278	Α	06/29/2021	0708	KT	×	×				AMSE1	ž	0.00	00.0	-	VOLUME: 1704.51
721-1279 A 06/29/2021 0655 KT X X X AMSE2		GILBANETSP061721-1278	А	06/29/2021	0708	KT		J				AMSE1	ž	0.00	00.0	-	VOLUME: 1694.25
1721-1279 A 06/29/2021 0655 KT X AMSE2 days Image: Comparing transport of the companion of the compa		GILBANEPM061721-1279	А	06/29/2021	0655	KT	×	×				AMSE2	ž	00.00	0.00	-	VOLUME: 1717.48
Signature) Date Time Received by: (Signature) And the state of the s	_	GILBANETSP061721-1279	A	06/29/2021	0655	KT	Â	Ĵ			H	AMSE2	Z	0.00	00.0	-	VOLUME: 1636.46
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	Gilban	ne.Navy_COC_Field									-	717					

Client: Gilbane Federal Job Number: 320-75596-1

Login Number: 75596

List Number: 1
Creator:

List Source: Eurofins TestAmerica, Sacramento

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