

Naval Facilities Engineering 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

April 1st, 2020 through May 31th, 2020

Approved for public release; distribution is unlimited

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April 1st, 2020 through May 31st, 2020

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 |
| СТО | 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 |
| HERO | Human and Ecological Risk Office |
| 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 |
| PDR | personal data-logging real-time |
| PEL | permissible exposure limit |
| PM10 | particulate matter less than 10 microns in diameter |
| TSP | total suspended particulates |
| TWA | time-weighted average |
| μg/m3 | micrograms per cubic meter |

Introduction

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, 2019). The 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 April 1st, 2020 through May 31st, 2020 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019]).

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. Atmospheric parameters were checked daily at www.weatherunderground.com (see Attachment 1). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

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

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.

3.2 PM10

Filter-based PM10 data are collected to ensure the protection of public health and safety during construction operations. Filter-based PM10 data are generated by sampling with calibrated air monitoring equipment that are operated continuously over a period of time (usually 8 or 24 hours) in accordance with the U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in 40 CFR 50, Subpart J, during which time 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 sample results are gravimetrically determined, after which the results are validated for quality assurance. In this way the precise amount of PM10 present in each cubic meter of air is determined.

3.3 TSP, Copper, Lead, and Manganese

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with EPA's reference sampling method for TSP, described in Title 40 Code of Federal Regulations (CFR), Part 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. Once the filter weight was determined, the sample was analyzed for copper and manganese in accordance with one of the IO-3 methods identified in 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.

3.4 Radionuclides of Concern

Radiological air samples were collected with a LV-1 low-volume air sampler. Air filters are 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, 2016).

The radiological air sample 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 air monitoring samples is 10 percent of the effluent

Analytical Methods

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, 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. Negative results indicating that the upwind concentration was greater than the downwind concentration, or instances where no delta was calculated due to non-detected results, 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, 2019]. 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 ug/m³.

| Test Parameter | Test Parameter Threshold Criterion Threshold Crit | | | | | | | |
|----------------|---|---|--|--|--|--|--|--|
| Asbestos | 0.1 fiber/cm ³ | Cal/OSHA PEL | | | | | | |
| PM10 | 5,000 ug/m ³ | Cal/OSHA PEL | | | | | | |
| TSP | 0.5 mg/m ³ | Basewide HPNS Level selected to minimize | | | | | | |
| 13P | 0.5 mg/m* | 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 Values | limits for ROCs are published in 10 Code of | | | | | | |
| | | Federal Regulations Part 20, Appendix B. | | | | | | |

Table 4-1: Air Monitoring Threshold Criteria

Notes:

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

 $\mu g/m^3$ = 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

5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as Attachment 1. On March 16th, 2020, a shelter in place order was issued by the City and County of San Francisco Department of Public Health due to the risk of the rapid spread of the virus that causes Coronavirus 2019 Disease. Subsequently on March 19th, 2020, the California State Public Health Officer and Director of the California Department of Public Health issued a stay home order in effect until further notice. As a result, the site was shut down on March 17th, 2020, and remained closed from March 18th, 2020 through May 4th, 2020. Data was collected from upwind Station 1 in Parcel E and downwind Station 2 in Parcel D-1 from May 6th to May 13th, 2020, during which Gilbane was grading the RSY Pads in Parcel E. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks. Air samples were not run on May 15th through May 31st, 2020 as the site was closed, and on May 5th and May 14th, 2020 as there were no earth moving activities.

Construction and remediation activities conducted from April 1st through May 31st, 2020, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from April 1st through May 31st, 2020 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 2.

PM10 results from April 1st through May 31st, 2020 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 3.

TSP, lead, manganese, and copper results from April 1st through May 31st, 2020 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachments 4 and 5.

Radiological air sampling results from April 1st through May 31st, 2020 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 6.

Analytical laboratory reports are included as Attachment 7.

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, 2014. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October

FIGURES



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ATTACHMENTS

Ambient Pressure and Temperature Monitoring Results

ATTACHMENT 1

AMBIENT PRESSURE AND TEMPERATURE MONITORING RESULTS

Ambient Pressure and Temperature Monitoring Results

Attachment 1 Ambient Pressure and Temperature Monitoring Result Remedial Action Parcel E, Phase 2 Hunters Point Naval Shipyard, San Francisco, California



| Start Date | Ambient Pressure (in Hg) | Ambient Temperature (°F) |
|------------|-----------------------------|-----------------------------|
| 5/6/2020 | 30.14 | 60.67 |
| 5/7/2020 | 29.94 | 62.67 |
| 5/8/2020 | 29.88 | 58.92 |
| 5/12/2020 | 29.99 | 59.90 |
| 5/13/2020 | 30.03 | 59.00 |
| 5/14/2020 | 30.10 | 57.70 |

Note:

°F = degree Fareheit

in Hg = inches of mercury

ATTACHMENT 2 ASBESTOS MONITORING RESULTS

Asbestos Monitoring Results





| Sample, Date ar | nd Station Infor | mation | Sampler Run I | nformation | Asbestos Fibers | | | | | |
|-----------------|--|--------|-----------------|----------------------------------|-----------------|---------------------------|------------------------|--|--|--|
| Sample ID | Sample Start Monitoring Date ¹ Station | | Duration of Run | Total Air Volume Monitored | Asbestos | Conc Asbestos | Exceedance (Yes/No) | | | |
| | | | (min) | (L) | (fibers) | (fibers/cm ³) | | | | |
| MSE01A-050620 | 05/06/20 | 1A | 508 | 1016 | 11.5 | 0.006 | No | | | |
| MSE02-050620 | 05/06/20 | 2 | 533 | 1066 | 10.5 | 0.005 | No | | | |
| MSE01A-050720 | 05/07/20 | 1A | 476 | 952 | 8.0 | 0.004 | No | | | |
| MSE02-050720 | 05/07/20 | 2 | 473 | 946 | 12.5 | 0.006 | No | | | |
| MSE01A-0507820 | 05/08/20 | 1A | 409 | 818 | 9.0 | 0.005 | No | | | |
| MSE02-050820 | 05/08/20 | 2 | 403 | 806 | 12.0 | 0.007 | No | | | |
| MSE01A-051120 | 05/11/20 | 1A | 440 | 880 | 10.5 | 0.012 | No | | | |
| MSE02-051120 | 05/11/20 | 2 | 430 | 860 | 10.0 | 0.011 | No | | | |
| MSE01A-051220 | 05/12/20 | 1A | 480 | 960 | 11.0 | 0.011 | No | | | |
| MSE02-051220 | 05/12/20 | 2 | 480 | 960 | 8.0 | 0.008 | No | | | |
| MSE01A-051320 | 05/13/20 | 1A | 510 | 1020 | 12.5 | 0.012 | No | | | |
| MSE02-051320 | 05/13/20 | 2 | 470 | 940 | 8.5 | 0.009 | No | | | |

Notes:

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 PM10 MONITORING RESULTS

PM10 Monitoring Results

Attachment 3

Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results Remedial Action Parcel E, Phase 2

Hunters Point Naval Shipyard, San Francisco, California

| Sample, Date and | Station Inform | nation | Sampler Run Information | PM10s | | | | | | | | | |
|------------------|--|---------|--|--------------------|---|--|--|----------------------------|------------------------|---|------------------------|--|--|
| Sample ID | Monitoring Sample Start Station Date ¹ | | Total Air Volume Monitored (m ³) | Total Mass (mg) | Concen- tration in Air (mg/m ³) | Delta between Downwind and Upwind (mg/m ³) | Delta between Downwind and Upwind (ug/m ³) | Cal/OSHA PEL (ug/m³) | Exceedance (Yes/No) | HERO Action Level ² (ug/m ³) | Exceedance (Yes/No) | | |
| Q0374057-MSE01A | 1A | 5/7/20 | 1663.39 | 66 | 0.040 | | | | No | | No | | |
| Q0374056-MSE02 | 2 | 5/7/20 | 1695.48 | 72 | 0.042 | 0.002 | 2.0 | 5,000 | No | 50 | No | | |
| Q0374055-MSE01A | 1A | 5/8/20 | 1588.73 | 70 | 0.044 | | | | No | | No | | |
| Q0374054-MSE02 | 2 | 5/8/20 | 1654.31 | 65 | 0.039 | -0.0050 | -5.0 | 5,000 | No | 50 | No | | |
| Q0374053-MSE01A | 1A | 5/8/20 | 465.78 | 24 | 0.052 | | | | No | | No | | |
| Q0374052-MSE02 | 2 | 5/8/20 | 467.01 | 22 | 0.046 | -0.0060 | -6.0 | 5,000 | No | 50 | No | | |
| Q0374051-MSE01A | 1A | 5/12/20 | 1312.81 | 20 | 0.015 | | | | No | | No | | |
| Q0374050-MSE02 | 2 | 5/12/20 | 1377.25 | 19 | 0.014 | -0.0010 | -1.0 | 5,000 | No | 50 | No | | |
| Q0374048-MSE01A | 1A | 5/13/20 | 1510.43 | 1.5 | 0.001 | | | | No | | No | | |
| Q0374049-MSE02 | 2 | 5/13/20 | 1606.32 | 5.8 | 0.0036 | 0.0026 | 2.6 | 5,000 | No | 50 | No | | |
| Q0374046-MSE01A | 1A | 5/14/20 | 1526.49 | 14 | 0.0089 | | | | No | | No | | |
| Q0374047-MSE02 | 2 | 5/14/20 | 1708.13 | 26 | 0.015 | 0.0061 | 6.1 | 5,000 | No | 50 | No | | |

Notes:

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

²PM10 data is additionally compared to the recommended dust action level of 50 ug/m³ for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

DTSC = Department of Toxic Substances Control

 m^3 = cubic meters

mg = milligrams

mg/m³ = milligrams per cubic meter

PM₁₀-particulate matter smaller than 10 microns in diameter



ATTACHMENT 4 TSP MONITORING RESULTS

Attachment 4 Total Suspended Particulates Monitoring Results Remedial Action Parcel E, Phase 2 Hunters Point Naval Shipyard, San Francisco, California



| | | | Sampler Run | | | | | | | | | | |
|--------------------|-----------------------|-----------------------------------|----------------------------------|---------------|------------------------------|--|------------------------|------------------------|--|--|--|--|--|
| Sample, Date and S | Station Inform | mation | Information | | Total Suspended Particulates | | | | | | | | |
| Sample ID | Monitoring Station | Sample Start Date ¹ | Total Air Volume Monitored | Total Mass | Concen- tration in Air | Delta between Downwind and Upwind | Basewide HPNS Level | Exceedance (Yes/No) | | | | | |
| | | | (m ³) | (mg) | (mg/m ³) | (mg/m ³) | (mg/m ³) | | | | | | |
| 9764160-MSE01A | 1A | 5/7/20 | 1697.80 | 100 | 0.06 | | | No | | | | | |
| 9764159-MSE02 | 2 | 5/7/20 | 1749.38 | 67 | 0.038 | -0.022 | 0.5 | No | | | | | |
| 9764158-MSE01A | 1A | 5/8/20 | 1622.94 | 88 | 0.054 | | | No | | | | | |
| 9764157-MSE02 | 2 | 5/8/20 | 1751.17 | 63 | 0.036 | -0.018 | 0.5 | No | | | | | |
| 9764156-MSE01A | 1A | 5/8/20 | 480.66 | 33 | 0.069 | | | No | | | | | |
| 9764155-MSE02 | 2 | 5/8/20 | 494.02 | 20 | 0.04 | -0.029 | 0.5 | No | | | | | |
| 9764154-MSE01A | 1A | 5/12/20 | 1336.95 | 24 | 0.018 | | | No | | | | | |
| 9764153-MSE02 | 2 | 5/12/20 | 1576.39 | 25 | 0.016 | -0.002 | 0.5 | No | | | | | |
| 9764151-MSE01A | 1A | 5/13/20 | 1624.35 | 22 | 0.013 | | | No | | | | | |
| 9764152-MSE02 | 2 | 5/13/20 | 1561.63 | 29 | 0.019 | 0.006 | 0.5 | No | | | | | |
| 9764149-MSE01A | 1A | 5/14/20 | 1638.75 | 39 | 0.024 | | | No | | | | | |
| 9764150-MSE02 | 2 | 5/14/20 | 1815.56 | 21 | 0.012 | -0.012 | 0.5 | No | | | | | |

Notes:

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

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

-- indicates difference was not calculated

< = below detection limit

HPNS = Hunters Point Naval Shipyard

mg = milligrams

mg/m³ = milligrams per cubic meter

m³ = cubic meters

NA = not applicable

ug = micrograms

Copper, Lead, and Manganese Monitoring Results

ATTACHMENT 5

COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Copper, Lead, and Manganese Monitoring Results

Attachment 5 Copper, Lead, and Manganese Monitoring Results Remedial Action Parcel E, Phase 2 Hunters Point Naval Shipyard, San Francisco, California



| Sample, Date and | Station Infor | mation | Sampler Run Information | | Copper | | Lead | | | | Manganese | | | |
|------------------|---|---------|--|-------|----------------|--|------------------------|----------------|---|------------------------|------------|----|--|--|
| Sample ID | Monitoring StationSample Start Date1Total Air Volume Monitored (m3)Concen- tration in Air | | ate ¹ Volume (rr ³) Concen- Kesult Concen- Kration in Air (rrs ³) | | Result (ug) | Concen-tration in Air (mg/m ³) | Exceedance (Yes/No) | Result (ug) | Concen- tration in Air (mg/m ³) | Exceedance (Yes/No) | | | | |
| 9764160-MSE01A | 1A | 5/7/20 | 1697.78 | 2,400 | 0.0014 | No | ND | <0.000015 | No | 41 | 0.000024 | No | | |
| 9764159-MSE02 | 2 | 5/7/20 | 1749.38 | 320 | 0.00018 | No | ND | < 0.000014 | 0.000014 No | | < 0.000014 | No | | |
| 9764158-MSE01A | 1A | 5/8/20 | 1622.94 | 1,400 | 0.00087 | No | ND | <0.000015 | No | 35 | 0.000022 | No | | |
| 9764157-MSE02 | 2 | 5/8/20 | 1751.17 | 140 | 0.000079 | No | ND | < 0.000014 | No | ND | < 0.000014 | No | | |
| 9764156-MSE01A | 1A | 5/8/20 | 480.66 | 370 | 0.00078 | No | ND | <0.000052 | No | ND | < 0.000052 | No | | |
| 9764155-MSE02 | 2 | 5/8/20 | 494.02 | 550 | 0.0011 | No | ND | <0.000051 | No | ND | <0.000051 | No | | |
| 9764154-MSE01A | 1A | 5/12/20 | 1336.95 | 770 | 0.00057 | No | ND | <0.000019 | No | ND | <0.000019 | No | | |
| 9764153-MSE02 | 2 | 5/12/20 | 1576.39 | 230 | 0.00015 | No | ND | <0.000016 | No | ND | <0.000016 | No | | |
| 9764151-MSE01A | 1A | 5/13/20 | 1624.35 | 570 | 0.00035 | No | ND | <0.000015 | No | ND | <0.000015 | No | | |
| 9764152-MSE02 | 2 | 5/13/20 | 1561.63 | 230 | 0.00015 | No | ND | <0.000016 | No | ND | <0.000016 | No | | |
| 9764149-MSE01A | 1A | 5/14/20 | 1638.75 | 3,100 | 0.0019 | No | ND | <0.000015 | No | ND | < 0.000015 | No | | |
| 9764150-MSE02 | 2 | 5/14/20 | 1815.56 | 570 | 0.00031 | No | ND | <0.000014 | No | ND | <0.000014 | No | | |

Notes:

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

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

mg = milligrams

 mg/m^3 = milligrams per cubic meter

< = below detection limit

 m^3 = cubic meters

ug = micrograms

ATTACHMENT 6

RADIOLOGICAL AIR MONITORING RESULTS

Radiological Air Monitoring Results

| 100 C | |
|-------|---|
| 0.00 | |
| | - |

AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

| | | | | | Project Info | rmation | | | | Effluent Air Concentration | | | | | Sampling Period | | | | | Color | Codes | | |
|------------|--|--------|---------------|-------------|--------------|--------------|--------------------|------------|---------|----------------------------|-------------|-------------|-----------------------|---------|-----------------|-------------|----------|-------------|-----------------------------|-----------------------------|----------|--------------|----------|
| Contract / | Task Order N | umber: | Project Title | e / Locatio | on: | | Gilbane Project Nu | mber: | | Alpha Beta | | | Air samples collected | | | Value < MDC | | | Value < 0.1 x Effluent Conc | | | | |
| N62473 | N62473-17-D-0005 / F4332 Parcel E RA HPNS, SF, CA J310000400 | | | | | | | | | Radi | ionuclide | Ra-226 | Sr-90 | between | April 1,2020 | | < 72 | hr decay ti | me | Value > 0.1 x Effluent Conc | | | |
| | Information effective as of: 5/29/2020 | | | | | | | | | Ef | fluent Conc | (µCi/ml) | 9.E-13 | 6.E-12 | and | May 31,202 | 0 | Da | ata reviewe | d | Value | e > Effluent | Conc |
| | Sample Collection | | | | | | | | | | Cour | nt Informat | ion | | | | Sample I | Results | | Init | ials | | |
| Sample | Sample | San | nple | 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 | ation | 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-0061 | Perimeter | MSE | 01A | PE03 | 60 | 5/6/20 7:16 | 5/6/20 16:20 | 544 | 3.3E+07 | Α | 5/19/20 | 1 | cpm | 0.500 | 3.750 | 1.3 | 7.9 | 1.8E-14 | 1.1E-13 | 1.9% | 1.8% | DVT | СВ |
| AS-0062 | Perimeter | MS | E02 | PE04 | 60 | 5/6/20 6:57 | 5/6/20 16:10 | 553 | 3.3E+07 | А | 5/19/20 | 1 | cpm | 0.200 | 3.400 | 0.5 | 6.9 | 6.9E-15 | 9.4E-14 | 0.8% | 1.6% | DVT | СВ |
| AS-0063 | Perimeter | MSE | 01A | PE03 | 60 | 5/7/20 7:15 | 5/7/20 16:20 | 545 | 3.3E+07 | Α | 5/19/20 | 1 | cpm | 0.350 | 4.250 | 0.9 | 9.3 | 1.2E-14 | 1.3E-13 | 1.4% | 2.1% | DVT | СВ |
| AS-0064 | Perimeter | MS | E02 | PE04 | 60 | 5/7/20 7:00 | 5/7/20 16:10 | 550 | 3.3E+07 | А | 5/19/20 | 1 | cpm | 0.050 | 3.800 | 0.1 | 8.0 | 1.7E-15 | 1.1E-13 | 0.2% | 1.8% | DVT | СВ |
| AS-0065 | Perimeter | MSE | 01A | PE03 | 60 | 5/8/20 6:45 | 5/8/20 14:55 | 490 | 2.9E+07 | Α | 5/19/20 | 1 | cpm | 0.400 | 3.900 | 1.0 | 8.3 | 1.6E-14 | 1.3E-13 | 1.7% | 2.1% | DVT | СВ |
| AS-0066 | Perimeter | MS | E02 | PE04 | 60 | 5/8/20 6:40 | 5/8/20 14:48 | 488 | 2.9E+07 | Α | 5/19/20 | 1 | cpm | 0.200 | 4.400 | 0.5 | 9.7 | 7.8E-15 | 1.5E-13 | 0.9% | 2.5% | DVT | СВ |
| AS-0067 | Perimeter | MSE | 01A | PE03 | 60 | 5/11/20 8:38 | 5/11/20 15:39 | 421 | 2.5E+07 | Α | 5/19/20 | 1 | cpm | 0.150 | 3.700 | 0.4 | 7.8 | 6.8E-15 | 1.4E-13 | 0.8% | 2.3% | DVT | СВ |
| AS-0068 | Perimeter | MS | E02 | PE04 | 60 | 5/11/20 8:58 | 5/11/20 15:30 | 392 | 2.4E+07 | А | 5/19/20 | 1 | cpm | 0.150 | 3.350 | 0.4 | 6.8 | 7.3E-15 | 1.3E-13 | 0.8% | 2.2% | DVT | СВ |
| AS-0069 | Perimeter | MSE | 01A | PE03 | 60 | 5/12/20 7:06 | 5/12/20 16:00 | 534 | 3.2E+07 | Α | 5/19/20 | 1 | cpm | 0.100 | 4.600 | 0.3 | 10.2 | 3.6E-15 | 1.4E-13 | 0.4% | 2.4% | DVT | СВ |
| AS-0070 | Perimeter | MS | E02 | PE04 | 60 | 5/12/20 7:00 | 5/12/20 16:05 | 545 | 3.3E+07 | Α | 5/19/20 | 1 | cpm | 0.100 | 3.150 | 0.3 | 6.2 | 3.5E-15 | 8.6E-14 | 0.4% | 1.4% | DVT | СВ |
| AS-0071 | Perimeter | MSE | 01A | PE03 | 60 | 5/13/20 6:43 | 5/13/20 15:20 | 517 | 3.1E+07 | Α | 5/19/20 | 1 | cpm | 0.100 | 3.900 | 0.3 | 8.3 | 3.7E-15 | 1.2E-13 | 0.4% | 2.0% | DVT | СВ |
| AS-0072 | Perimeter | MS | E02 | PE04 | 60 | 5/13/20 6:30 | 5/13/20 15:25 | 535 | 3.2E+07 | А | 5/19/20 | 1 | cpm | 0.150 | 3.800 | 0.4 | 8.0 | 5.3E-15 | 1.1E-13 | 0.6% | 1.9% | DVT | СВ |
ATTACHMENT 7 LABORATORY REPORTS

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18-May-2020

Kristen Carlyon Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Tel: (925) 946-3220 Fax: (925) 946-3292

Re: HPNS Parcel E Phase II; J310000400

Work Order: 2005223

Dear Kristen,

ALS Environmental received 12 samples on 11-May-2020 09:22 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

> ADDRESS 4388 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

| Date: | 18-May-20 |
|-------|-----------|
|-------|-----------|

| Client: | Gilbane Company |
|-------------|------------------------------------|
| Project: | HPNS Parcel E Phase II; J310000400 |
| Work Order: | 2005223 |

Work Order Sample Summary

| Lab Samp II | <u> Client Sample ID</u> | <u>Matrix</u> | Tag Number | Collection Date | Date Received | Hold |
|-------------|--------------------------|---------------|------------|------------------------|-----------------|------|
| 2005223-01 | 9764160-MSE01A | Air | | 5/7/2020 07:28 | 5/11/2020 09:22 | |
| 2005223-02 | Q0374057-MSE01A | Air | | 5/7/2020 07:28 | 5/11/2020 09:22 | |
| 2005223-03 | 9764159-MSE02 | Air | | 5/7/2020 07:40 | 5/11/2020 09:22 | |
| 2005223-04 | Q0374056-MSE02 | Air | | 5/7/2020 07:40 | 5/11/2020 09:22 | |
| 2005223-05 | 9764158-MSE01A | Air | | 5/8/2020 07:10 | 5/11/2020 09:22 | |
| 2005223-06 | Q0374055-MSE01A | Air | | 5/8/2020 07:10 | 5/11/2020 09:22 | |
| 2005223-07 | 9764157-MSE02 | Air | | 5/8/2020 07:30 | 5/11/2020 09:22 | |
| 2005223-08 | Q0374054-MSE02 | Air | | 5/8/2020 07:30 | 5/11/2020 09:22 | |
| 2005223-09 | 9764156-MSE01A | Air | | 5/8/2020 14:00 | 5/11/2020 09:22 | |
| 2005223-10 | Q0374053-MSE01A | Air | | 5/8/2020 14:00 | 5/11/2020 09:22 | |
| 2005223-11 | Q0374052-MSE02 | Air | | 5/8/2020 14:30 | 5/11/2020 09:22 | |
| 2005223-12 | 9764155-MSE02 | Air | | 5/8/2020 14:30 | 5/11/2020 09:22 | |

| Client: | Gilbane Company |
|-------------|------------------------------------|
| Project: | HPNS Parcel E Phase II; J310000400 |
| Work Order: | 2005223 |

Date: 18-May-20

Case Narrative

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

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| Client: | Gilbane Company |
|----------|------------------------------------|
| Project: | HPNS Parcel E Phase II; J310000400 |

Date: 18-May-20

Work Order: 2005223

| Lab ID: | 2005223-01A | | С | Collection Date: 5/7/2020 7:28 | :00 AM | |
|----------------------|-----------------|-----------|-----------------|---------------------------------------|--------------|--|
| Client Sample ID: | 9764160-MSE01A | | Matrix: AIR | | | |
| Analyses | | | | | | |
| TSP 40 CFR 50 API | PDX B | | Method: TSP | Air Volume (L): 1697800 | Analyst: SRL | |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | | |
| | | mg/sample | mg/sample | mg/m3 | | |
| Total suspended pa | rticulate | 100 | 1.0 | 0.060 | | |
| METALS BY EPA N | IETHOD 12 MOD. | | Method: E12 | Air Volume (L): 1697800 | Analyst: AZ | |
| Date Analyzed: 5/15/ | 2020 13:12 | | Reporting Limit | | - | |
| | | µg/sample | µg/sample | mg/m3 | | |
| Copper | | 2,400 | 25 | 0.0014 | | |
| Lead | | ND | 25 | <0.00015 | | |
| Manganese | | 41 | 25 | 0.000024 | | |
| Lab ID: | 2005223-02A | | С | Collection Date: 5/7/2020 7:28 | :00 AM | |
| Client Sample ID: | Q0374057-MSE01A | | | Matrix: AIR | | |
| Analyses | | | | | | |
| PM : PM10 40CFR { | 50 APPDIX J | | Method: PM10 | Air Volume (L): 1663390 | Analyst: SRL | |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | | |
| | | mg/sample | mg/sample | mg/m3 | | |
| Particulate as PM10 |) | 66 | 1.0 | 0.040 | | |
| Lab ID: | 2005223-03A | | С | Collection Date: 5/7/2020 7:40 | :00 AM | |
| Client Sample ID: | 9764159-MSE02 | | | Matrix: AIR | | |
| Analyses | | | | | | |
| TSP 40 CFR 50 APP | PDX B | | Method: TSP | Air Volume (L): 1749380 | Analyst: SRL | |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | | |
| | | mg/sample | mg/sample | mg/m3 | | |
| Total suspended pa | articulate | 67 | 1.0 | 0.038 | | |
| METALS BY EPA N | IETHOD 12 MOD. | | Method: E12 | Air Volume (L): 1749380 | Analyst: AZ | |
| Date Analyzed: 5/15/ | 2020 13:16 | | Reporting Limit | - | | |
| | | µg/sample | µg/sample | mg/m3 | | |
| | | 320 | 25 | 0.00018 | | |
| Copper | | 320 | 25 | | | |
| Copper Lead | | ND | 25 | <0.000014 | | |

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| Client: | Gilbane Company |
|----------|------------------------------------|
| Project: | HPNS Parcel E Phase II; J310000400 |

Work Order: 2005223

| Lab ID: | 2005223-04A | | (| Collection Date: 5/7/2020 7:40 | :00 AM |
|--------------------------|-----------------|---|-----------------|--------------------------------|--------------|
| Client Sample ID: | Q0374056-MSE02 | | | Matrix: AIR | |
| Analyses | | | | | |
| PM : PM10 40CFR 5 | 50 APPDIX J | | Method: PM10 | Air Volume (L): 1695480 | Analyst: SRL |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Particulate as PM10 | | 72 | 1.0 | 0.042 | |
| Lab ID: | 2005223-05A | | (| Collection Date: 5/8/2020 7:10 | :00 AM |
| Client Sample ID: | 9764158-MSE01A | | | Matrix: AIR | |
| Analyses | | | | | |
| TSP 40 CFR 50 APF | PDX B | | Method: TSP | Air Volume (L): 1622940 | Analyst: SRL |
| Date Analyzed: 5/14/2020 | | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Total suspended pa | rticulate | 88 | 1.0 | 0.054 | |
| METALS BY EPA M | IETHOD 12 MOD. | | Method: E12 | Air Volume (L): 1622940 | Analyst: AZ |
| Date Analyzed: 5/15/ | 2020 13:28 | | Reporting Limit | | |
| | | µg/sample | µg/sample | mg/m3 | |
| Copper | | 1,400 | 25 | 0.00087 | |
| Lead | | ND | 25 | <0.000015 | |
| Manganese | | 35 | 25 | 0.000022 | |
| Lab ID: | 2005223-06A | | (| Collection Date: 5/8/2020 7:10 | :00 AM |
| Client Sample ID: | Q0374055-MSE01A | L Contraction of the second | Matrix: AIR | | |
| Analyses | | | | | |
| PM : PM10 40CFR 5 | 50 APPDIX J | | Method: PM10 | Air Volume (L): 1588730 | Analyst: SRL |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Particulate as PM10 | | 70 | 1.0 | 0.044 | |

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| Client: | Gilbane Company |
|----------|------------------------------------|
| Project: | HPNS Parcel E Phase II; J310000400 |

Work Order: 2005223

| Lab ID: 2005223-0 | 07A | | Collection Date: 5/8/2020 7:30 | :00 AM | |
|--------------------------------|-----------|-----------------|--------------------------------|--------------|--|
| Client Sample ID: 9764157-1 | MSE02 | Matrix: AIR | | | |
| Analyses | | | | | |
| TSP 40 CFR 50 APPDX B | | Method: TSP | Air Volume (L): 1751170 | Analyst: SRL | |
| Date Analyzed: 5/14/2020 | | Reporting Limit | | | |
| | mg/sample | mg/sample | mg/m3 | | |
| Total suspended particulate | 63 | 1.0 | 0.036 | | |
| METALS BY EPA METHOD 12 | MOD. | Method: E12 | Air Volume (L): 1751170 | Analyst: AZ | |
| Date Analyzed: 5/15/2020 13:40 | | Reporting Limit | | | |
| | µg/sample | µg/sample | mg/m3 | | |
| Copper | 140 | 25 | 0.000079 | | |
| Lead | ND | 25 | <0.000014 | | |
| Manganese | ND | 25 | <0.000014 | | |
| Lab ID: 2005223-0 | 08A | | Collection Date: 5/8/2020 7:30 | :00 AM | |
| Client Sample ID: Q0374054 | 4-MSE02 | | Matrix: AIR | | |
| Analyses | | | | | |
| PM : PM10 40CFR 50 APPDIX | J | Method: PM10 | Air Volume (L): 1654310 | Analyst: SRL | |
| Date Analyzed: 5/14/2020 | | Reporting Limit | | | |
| | mg/sample | mg/sample | mg/m3 | | |
| Particulate as PM10 | 65 | 1.0 | 0.039 | | |
| Lab ID: 2005223-0 | 09A | | Collection Date: 5/8/2020 2:00 | :00 PM | |
| Client Sample ID: 9764156-1 | MSE01A | | Matrix: AIR | | |
| Analyses | | | | | |
| TSP 40 CFR 50 APPDX B | | Method: TSP | Air Volume (L): 480660 | Analyst: SRL | |
| Date Analyzed: 5/14/2020 | | Reporting Limit | | | |
| | mg/sample | mg/sample | mg/m3 | | |
| Total suspended particulate | 33 | 1.0 | 0.069 | | |
| METALS BY EPA METHOD 12 | MOD. | Method: E12 | Air Volume (L): 480660 | Analyst: AZ | |
| Date Analyzed: 5/15/2020 13:45 | | Reporting Limit | | | |
| | µg/sample | µg/sample | mg/m3 | | |
| Copper | 370 | 25 | 0.00078 | | |
| | ND | 25 | <0.000052 | | |
| Lead | ND | 25 | <0.000032 | | |

Client:

Project:

| onmental | | |
|----------|--|--|
| | | |

HPNS Parcel E Phase II; J310000400

Gilbane Company

Work Order: 2005223

Analytical Results

| Lab ID: | 2005223-10A | | C | Collection Date: 5/8/2020 2:00 |):00 PM |
|-----------------------------|-----------------|-----------|-----------------|--------------------------------|--------------|
| Client Sample ID: | Q0374053-MSE01A | | Matrix: AIR | | |
| Analyses | | | | | |
| PM : PM10 40CFR \$ | 50 APPDIX J | | Method: PM10 | Air Volume (L): 465780 | Analyst: SRL |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Particulate as PM10 |) | 24 | 1.0 | 0.052 | |
| Lab ID: | 2005223-11A | | С | Collection Date: 5/8/2020 2:30 |):00 PM |
| Client Sample ID: | Q0374052-MSE02 | | | Matrix: AIR | |
| Analyses | | | | | |
| PM : PM10 40CFR \$ | 50 APPDIX J | | Method: PM10 | Air Volume (L): 467010 | Analyst: SRL |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Particulate as PM10 |) | 22 | 1.0 0.046 | | |
| Lab ID: | 2005223-12A | | С | Collection Date: 5/8/2020 2:30 |):00 PM |
| Client Sample ID: | 9764155-MSE02 | | | Matrix: AIR | |
| Analyses | | | | | |
| TSP 40 CFR 50 API | PDX B | | Method: TSP | Air Volume (L): 494020 | Analyst: SRL |
| Date Analyzed: 5/14/ | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Total suspended pa | rticulate | 20 | 1.0 | 0.040 | |
| METALS BY EPA N | IETHOD 12 MOD. | | Method: E12 | Air Volume (L): 494020 | Analyst: AZ |
| Date Analyzed: 5/15/ | 2020 13:49 | | Reporting Limit | | |
| | | µg/sample | µg/sample | mg/m3 | |
| | | 550 | 25 | 0.0011 | |
| Copper | | 550 | 23 | 0.0011 | |
| Copper Lead Manganese | | ND ND | 25 25 25 | <0.000051 <0.000051 | |

Date: 18-May-20

QC BATCH REPORT

| Batch ID: R177398 Instrument IE | BAL2 | | Method | l: PM10 | | | | | | |
|--|---------------|--------|--------------------------|------------------|--|------------------|------------------------|------------|-------------------------------|------|
| DUP Sample ID: 2005223-08A I Client ID: Q0374054-MSE02 | | BAL2_2 | 200514A | | nits: mg/sa No: 22392 | • | Analysis Prep Date: | Date: 5/14 | 1/2020 DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Particulate as PM10 | 66.4 | 1.0 | 0 | 0 | 0 | | 65.24 | 1.76 | | |
| The following samples were analyzed i | n this batch: | | 005223-02A 005223-08A | | 223-04A 223-10A | |)5223-06A)5223-11A | | | |

| Client: Work Order: Project: | Gilbane Company 2005223 HPNS Parcel E Ph | | 00400 | | | | | QC I | BATC | H REI | PORT |
|------------------------------------|--|---------------|--------|------------------------|------------------|--|------------------|--------------------------|------------|-------------------------------|------|
| Batch ID: R177399 | Instrument ID | BAL2 | | Method | d: TSP | | | | | | |
| DUP Samp Client ID: 9764158- | ole ID: 2005223-05a d i MSE01A | • | BAL2_2 | 200514B | | nits: mg/sa No: 22392 | • | Analysis Prep Date: | Date: 5/14 | 4/2020 DF: 1 | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Total suspended pa | rticulate | 88.14 | 1.0 | 0 | 0 | 0 | | 87.62 | 0.592 | 20 | |
| The following sam | ples were analyzed ir | n this batch: | | 05223-01a 05223-07a | | 223-03a 223-09a | | 005223-05a 005223-12A | | | |

QC BATCH REPORT

Batch ID: 66581 Instrument ID ICP3 Method: E12 MBLK Sample ID: MBLK-66581-66581 Units: µg/sample Analysis Date: 5/15/2020 12:59 PM SeqNo: 2239854 Prep Date: 5/14/2020 Client ID: DF: 1 Run ID: ICP3_200515A RPD SPK Ref Control RPD Ref Value Limit Value Limit Analyte Result PQL SPK Val %REC %RPD Qual Copper ND 25 25 Lead ND Manganese ND 25 LCS Sample ID: LCS-66581-66581 Units: µg/sample Analysis Date: 5/15/2020 01:03 PM Client ID: Run ID: ICP3_200515A SeqNo: 2239855 Prep Date: 5/14/2020 DF: 1 RPD SPK Ref Control RPD Ref Value Limit Value SPK Val Limit Analyte Result PQL %REC %RPD Qual 447.5 0 0 Copper 25 450 99.4 75-125 0 0 Lead 437.4 25 450 97.2 75-125 Manganese 445.4 25 450 0 99 75-125 0 LCSD Sample ID: LCSD-66581-66581 Units: µg/sample Analysis Date: 5/15/2020 01:07 PM Client ID: Run ID: ICP3_200515A SeqNo: 2239856 Prep Date: 5/14/2020 DF: 1 RPD SPK Ref RPD Ref Control Value Limit Value Limit Qual Analyte Result PQL SPK Val %REC %RPD 428.1 0 25 450 95.1 75-125 447.5 4.42 20 Copper Lead 425.2 25 450 0 94.5 75-125 437.4 2.82 20 425.9 25 450 0 445.4 4.46 20 Manganese 94.6 75-125 The following samples were analyzed in this batch: 2005223-01A 2005223-03A 2005223-05A 2005223-07A 2005223-09A 2005223-12A

-

| Client: Project: WorkOrder: | Gilbane Company HPNS Parcel E Phase II; J310000400 2005223 | QUALIFIERS, ACRONYMS, UNITS |
|-----------------------------------|---|--------------------------------|
| Qualifier | Description | |
| * | Value exceeds Regulatory Limit | |
| а | Not accredited | |
| В | Analyte detected in the associated Method Blank above the Repo | rting Limit |
| Е | Value above quantitation range | |
| Н | Analyzed outside of Holding Time | |
| J | Analyte detected below quantitation limit | |
| n | Not offered for accreditation | |
| ND | Not Detected at the Reporting Limit | |
| 0 | Sample amount is > 4 times amount spiked | |
| Р | Dual Column results percent difference $> 40\%$ | |
| R | RPD above laboratory control limit | |
| S | Spike Recovery outside laboratory control limits | |
| U | Analyzed but not detected above the MDL | |
| Acronym | Description_ | |
| DUP | Method Duplicate | |
| Е | EPA Method | |
| LCS | Laboratory Control Sample | |
| LCSD | Laboratory Control Sample Duplicate | |
| MBLK | Method Blank | |
| MDL | Method Detection Limit | |
| MQL | Method Quantitation Limit | |
| MS | Matrix Spike | |
| MSD | Matrix Spike Duplicate | |
| PDS | Post Digestion Spike | |
| PQL | Practical Quantitaion Limit | |
| SDL | Sample Detection Limit | |
| SW | SW-846 Method | |
| Units Reported | Description | |

µg/sample mg/sample

Sample Receipt Checklist

| Client Name: <u>GILBANE-WALNUTCREEK</u> | | Date/Time I | Received: <u>11-Ma</u> | ay-20 09:22 | |
|---|-------------------|--------------|--------------------------------------|-------------|-------------------|
| Work Order: 2005223 | | Received by | y: <u>SNH</u> | | |
| Checklist completed by Stephanie H arrington | 11-May-20 Date | Reviewed by: | R ob Nieman ^{eSignature} | | 13-May-20 Date |
| Matrices: Carrier name: <u>FedEx</u> | ' | | | | |
| Shipping container/cooler in good condition? | Yes 🗸 | No 🗌 | Not Present | | |
| Custody seals intact on shipping container/cooler? | Yes | No | Not Present | ✓ | |
| Custody seals intact on sample bottles? | Yes 🗸 | No | Not Present | | |
| Chain of custody present? | Yes 🗸 | No | | | |
| Chain of custody signed when relinquished and received? | Yes 🗸 | No 🗌 | | | |
| Chain of custody agrees with sample labels? | Yes 🗸 | No 🗌 | | | |
| Samples in proper container/bottle? | Yes 🗸 | No 🗌 | | | |
| Sample containers intact? | Yes 🗸 | No 🗌 | | | |
| Sufficient sample volume for indicated test? | Yes 🗸 | No 🗌 | | | |
| All samples received within holding time? | Yes 🗸 | No | | | |
| Container/Temp Blank temperature in compliance? | Yes 🗸 | No 🗌 | | | |
| Temperature(s)/Thermometer(s): | | | | | |
| Cooler(s)/Kit(s): | | | | | |
| Water - VOA vials have zero headspace? | Yes | No | No VOA vials submit | tted 🗸 | |
| Water - pH acceptable upon receipt? | Yes | No | N/A | | |
| pH adjusted? pH adjusted by: | Yes | No 🗌 | N/A 🗹 | | |
| Login Notes: | | | | | |

| Client Contacted: | Date Contacted: | Person Contacted: |
|-------------------|-----------------|-------------------|
| Contacted By: | Regarding: | |
| | | |
| Comments: | | |
| | | |
| CorrectiveAction: | | |
| | | |

SRC Page 1 of 1



22-May-2020

Kristen Carlyon Gilbane Company 2730 Shadelands Drive Walnut Creek, CA 94598

Tel: (925) 946-3220 Fax: (925) 946-3292

Re: HPNS Parcel E Phase II J310000400

Work Order: 2005364

Dear Kristen,

ALS Environmental received 12 samples on 15-May-2020 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

R ob Nieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

> ADDRESS 4388 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

| Client: | Gilbane Company |
|-------------|-----------------------------------|
| Project: | HPNS Parcel E Phase II J310000400 |
| Work Order: | 2005364 |

Work Order Sample Summary

| Lab Samp ID Client Sample ID | <u>Matrix</u> | Tag Number | Collection Date | Date Received Hold |
|------------------------------|---------------|------------|------------------------|--------------------|
| 2005364-01 Q0374051-MSE01A | Air | | 5/12/2020 09:00 | 5/15/2020 09:30 |
| 2005364-02 9764154-MSE01A | Air | | 5/12/2020 09:00 | 5/15/2020 09:30 |
| 2005364-03 Q0374050-MSE02 | Air | | 5/12/2020 08:00 | 5/15/2020 09:30 |
| 2005364-04 9764153-MSE02 | Air | | 5/12/2020 08:00 | 5/15/2020 09:30 |
| 2005364-05 Q0374048-MSE01A | Air | | 5/13/2020 10:00 | 5/15/2020 09:30 |
| 2005364-06 9764151-MSE01A | Air | | 5/13/2020 10:00 | 5/15/2020 09:30 |
| 2005364-07 Q0374049-MSE02 | Air | | 5/13/2020 07:05 | 5/15/2020 09:30 |
| 2005364-08 9764152-MSE02 | Air | | 5/13/2020 07:05 | 5/15/2020 09:30 |
| 2005364-09 Q0374046-MSE01A | Air | | 5/14/2020 08:10 | 5/15/2020 09:30 |
| 2005364-10 9764149-MSE01A | Air | | 5/14/2020 08:10 | 5/15/2020 09:30 |
| 2005364-11 Q0374047-MSE02 | Air | | 5/14/2020 08:00 | 5/15/2020 09:30 |
| 2005364-12 9764150-MSE02 | Air | | 5/14/2020 08:00 | 5/15/2020 09:30 |

Client:Gilbane CompanyProject:HPNS Parcel E Phase II J310000400Work Order:2005364

Date: 22-May-20

Case Narrative

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

Gilbane Company

HPNS Parcel E Phase II J310000400

Client:

Project:

| mental | l | | |
|--------|---|--|--|
| | | | |

Date: 22-May-20

Work Order: 2005364

| Lab ID: | 2005364-01A | | C | Collection Date: 5/12/2020 9:0 | 0:00 AM | | |
|-----------------------------|-----------------|-----------|-----------------|--------------------------------|--------------|--|--|
| Client Sample ID: | Q0374051-MSE01A | | Matrix: AIR | | | | |
| Analyses | | | | | | | |
| PM : PM10 40CFR \$ | 50 APPDIX J | | Method: PM10 | Air Volume (L): 1312810 | Analyst: SRL | | |
| Date Analyzed: 5/19/ | 2020 | | Reporting Limit | | | | |
| | | mg/sample | mg/sample | mg/m3 | | | |
| Particulate as PM10 |) | 20 | 1.0 | 0.015 | | | |
| Lab ID: | 2005364-02A | | (| Collection Date: 5/12/2020 9:0 | 0:00 AM | | |
| Client Sample ID: | 9764154-MSE01A | | | Matrix: AIR | | | |
| Analyses | | | | | | | |
| SP 40 CFR 50 API | PDX B | | Method: TSP | Air Volume (L): 1336950 | Analyst: SRL | | |
| Date Analyzed: 5/19/ | 2020 | | Reporting Limit | | | | |
| | | mg/sample | mg/sample | mg/m3 | | | |
| Total suspended particulate | | 24 | 1.0 | 0.018 | | | |
| METALS BY EPA N | IETHOD 12 MOD. | | Method: E12 | Air Volume (L): 1336950 | Analyst: SRL | | |
| Date Analyzed: 5/22/ | 2020 12:15 | | Reporting Limit | | | | |
| | | µg/sample | µg/sample | mg/m3 | | | |
| Copper | | 770 | 25 | 0.00057 | | | |
| Lead | | ND | 25 | <0.000019 | | | |
| Manganese | | ND | 25 | <0.000019 | | | |
| Lab ID: | 2005364-03A | | C | Collection Date: 5/12/2020 8:0 | 0:00 AM | | |
| Client Sample ID: | Q0374050-MSE02 | | | Matrix: AIR | | | |
| Analyses | | | | | | | |
| PM : PM10 40CFR 50 APPDIX J | | | Method: PM10 | Air Volume (L): 1377250 | Analyst: SRL | | |
| Date Analyzed: 5/19/ | 2020 | | Reporting Limit | | | | |
| | | mg/sample | mg/sample | mg/m3 | | | |
| Particulate as PM10 |) | 19 | 1.0 | 0.014 | | | |

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| Client: | Gilbane Company |
|----------|-----------------------------------|
| Project: | HPNS Parcel E Phase II J310000400 |

Work Order: 2005364

Analytical Results

| Lab ID: | 2005364-04A | | C | Collection Date: 5/12/2020 8:00 | 0:00 AM |
|--|--------------------|-----------------|--|--|----------------------|
| Client Sample ID: | 9764153-MSE02 | | | Matrix: AIR | |
| Analyses | | | | | |
| TSP 40 CFR 50 API | PDX B | | Method: TSP | Air Volume (L): 1576390 | Analyst: SRL |
| Date Analyzed: 5/19/ | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Total suspended pa | rticulate | 25 | 1.0 | 0.016 | |
| METALS BY EPA N | IETHOD 12 MOD. | | Method: E12 | Air Volume (L): 1576390 | Analyst: SR |
| Date Analyzed: 5/22/ | 2020 12:27 | | Reporting Limit | | |
| | | µg/sample | µg/sample | mg/m3 | |
| Copper | | 230 | 25 | 0.00015 | |
| Lead | | ND | 25 | <0.000016 | |
| Manganese | | ND | 25 | <0.000016 | |
| Lab ID: | 2005364-05A | | С | Collection Date: 5/13/2020 10: | 00:00 AM |
| Client Sample ID: | Q0374048-MSE01A | | | Matrix: AIR | |
| Analyses | | | | | |
| PM : PM10 40CFR { | 50 APPDIX J | | Method: PM10 | Air Volume (L): 1510430 | Analyst: SR |
| Date Analyzed: 5/19/2020 | | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Particulate as PM10 | | 1.5 | 1.0 | 0.0010 | |
| Lab ID: | 2005364-06A | | С | Collection Date: 5/13/2020 10:0 | 00:00 AM |
| Client Sample ID: | 9764151-MSE01A | | | Matrix: AIR | |
| | | | | | |
| Analyses | | | | | |
| • | PDX B | | Method: TSP | Air Volume (L): 1624350 | Analyst: SRI |
| • | | | Method: TSP Reporting Limit | Air Volume (L): 1624350 | Analyst: SR |
| TSP 40 CFR 50 APP | | mg/sample | - | Air Volume (L): 1624350 mg/m3 | Analyst: SR |
| TSP 40 CFR 50 APP | 2020 | mg/sample 22 | Reporting Limit | | Analyst: SR I |
| TSP 40 CFR 50 APP Date Analyzed: 5/19/ Total suspended pa | 2020 Inticulate | | Reporting Limit mg/sample | mg/m3 | |
| TSP 40 CFR 50 APP Date Analyzed: 5/19/ Total suspended pa | 2020 Inticulate | | Reporting Limit mg/sample 1.0 | mg/m3 0.013 | |
| TSP 40 CFR 50 APP Date Analyzed: 5/19/ Total suspended pa METALS BY EPA N | 2020 Inticulate | | Reporting Limit mg/sample 1.0 Method: E12 | mg/m3 0.013 | |
| Total suspended pa | 2020 Inticulate | 22 | Reporting Limit mg/sample 1.0 Method: E12 Reporting Limit | mg/m3 0.013 Air Volume (L): 1624350 | |
| TSP 40 CFR 50 APP Date Analyzed: 5/19/ Total suspended pa METALS BY EPA N Date Analyzed: 5/22/ | 2020 Inticulate | 22 µg/sample | Reporting Limit mg/sample 1.0 Method: E12 Reporting Limit µg/sample | mg/m3 0.013 Air Volume (L): 1624350 mg/m3 | Analyst: SR |

Date: 22-May-20

| | Gilbane Company HPNS Parcel E Phase II J310000400 | Work Order: 2005364 |
|-------------------|--|---------------------------------------|
| | | Analytical Results |
| Lab ID: | 2005364-07A | Collection Date: 5/13/2020 7:05:00 AM |
| Client Sample ID: | Q0374049-MSE02 | Matrix: AIR |

Analyses

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| Analyses | | | | | |
|-----------------------|-----------------|-----------|---------------------------|---------------------------------------|--------------|
| PM : PM10 40CFR 5 | 0 APPDIX J | | Method: PM10 | Air Volume (L): 1606320 | Analyst: SRI |
| Date Analyzed: 5/19/2 | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |
| Particulate as PM10 | | 5.8 | 1.0 | 0.0036 | |
| Lab ID: | 2005364-08A | | | Collection Date: 5/13/2020 7:0 | 5:00 AM |
| Client Sample ID: | 9764152-MSE02 | | | Matrix: AIR | |
| Analyses | | | | | |
| SP 40 CFR 50 APP | DX B | | Method: TSP | Air Volume (L): 1561630 | Analyst: SRL |
| Date Analyzed: 5/19/2 | 2020 | mg/sample | Reporting Limit mg/sample | mg/m3 | |
| Total suspended par | ticulate | 29 | 1.0 | 0.019 | |
| METALS BY EPA MI | ETHOD 12 MOD. | | Method: E12 | Air Volume (L): 1561630 | Analyst: SRL |
| Date Analyzed: 5/22/2 | 2020 12:42 | | Reporting Limit | | |
| | | µg/sample | µg/sample | mg/m3 | |
| Copper | | 230 | 25 | 0.00015 | |
| Lead | | ND | 25 | <0.000016 | |
| Manganese | | ND | 25 | <0.000016 | |
| Lab ID: | 2005364-09A | | | Collection Date: 5/14/2020 8:1 | 0:00 AM |
| Client Sample ID: | Q0374046-MSE01A | | | Matrix: AIR | |
| Analyses | | | | | |
| PM : PM10 40CFR 5 | 0 APPDIX J | | Method: PM10 | Air Volume (L): 1526490 | Analyst: SRL |
| Date Analyzed: 5/19/2 | 2020 | | Reporting Limit | | |
| | | mg/sample | mg/sample | mg/m3 | |

1.0

14

0.0089

Particulate as PM10

Note:

| Client: | Gilbane Company |
|----------|-----------------------------------|
| Project: | HPNS Parcel E Phase II J310000400 |
| | |

Lab ID: 2005364-10A Collection Date: 5/14/2020 8:10:00 AM Matrix: AIR Client Sample ID: 9764149-MSE01A Analyses TSP 40 CFR 50 APPDX B Method: TSP Air Volume (L): 1638750 Analyst: SRL Date Analyzed: 5/19/2020 **Reporting Limit** mg/sample mg/sample mg/m3 1.0 0.024 **Total suspended particulate** 39 METALS BY EPA METHOD 12 MOD. Method: E12 Analyst: SRL Air Volume (L): 1638750 Date Analyzed: 5/22/2020 12:45 **Reporting Limit** µg/sample µg/sample mg/m3 Copper 3,100 25 0.0019 Lead ND 25 < 0.000015 ND 25 < 0.000015 Manganese Lab ID: 2005364-11A Collection Date: 5/14/2020 8:00:00 AM Client Sample ID: Q0374047-MSE02 Matrix: AIR Analyses PM : PM10 40CFR 50 APPDIX J Method: PM10 Analyst: SRL Air Volume (L): 1708130 Date Analyzed: 5/19/2020 **Reporting Limit** mg/sample mg/sample mg/m3 Particulate as PM10 26 1.0 0.015 Lab ID: 2005364-12A Collection Date: 5/14/2020 8:00:00 AM Client Sample ID: 9764150-MSE02 Matrix: AIR Analyses TSP 40 CFR 50 APPDX B Method: TSP Air Volume (L): 1815560 Analyst: SRL Date Analyzed: 5/19/2020 **Reporting Limit** mg/sample mg/sample mg/m3 Total suspended particulate 1.0 0.012 21 Method: E12 Analyst: SRL METALS BY EPA METHOD 12 MOD. Air Volume (L): 1815560 Date Analyzed: 5/22/2020 12:49 **Reporting Limit** µg/sample µg/sample mg/m3 Copper 570 25 0.00031 Lead ND 25 < 0.000014 ND 25 < 0.000014 Manganese

Work Order: 2005364

QC BATCH REPORT

| Batch ID: R177509 Instrum | nent ID BAL2 | | Method | t: TSP | | | | | | |
|--|---------------------|--------|------------------------|------------------|--------------------|------------------|------------------------|-------|--------------|------|
| DUP Sample ID: 2005364-10A DUP Units: mg/sample Analysis Date: 5/19/2020 | | | | | | | | | | |
| Client ID: 9764149-MSE01A | Run ID: | BAL2_2 | 00519A | Seq | No: 22406 | 88 | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Total suspended particulate | 39.29 | 1.0 | 0 | 0 | 0 | | 39.25 | 0.102 | 20 | |
| The following samples were anal | yzed in this batch: | | 05364-02A 05364-08A | | 364-04A 364-10A | - | 05364-06A 05364-12A | | | |

| Client: Work Order: Project: | Gilbane Company 2005364 HPNS Parcel E Ph | | 00400 | | | | | QCI | BATC | H REI | PORT |
|------------------------------------|--|---------------|--------|------------------------|------------------|--|------------------|--------------------------|-----------|-----------------|------|
| Batch ID: R177513 | Instrument ID | BAL2 | | Method | d: PM10 | | | | | | |
| DUP Samp Client ID: Q037405 | ole ID: 2005364-03A D 0-MSE02 | | BAL2_2 | 200519B | | nits: mg/sa No: 22407 | • | Analysis Prep Date: | Date: 5/1 | 9/2020 DF: 1 | |
| Analyte | | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Particulate as PM10 |) | 20.07 | 1.0 | 0 | 0 | 0 | | 19.34 | 3.7 | 20 | |
| The following sam | ples were analyzed ir | n this batch: | - | 05364-01A 05364-07A | | 364-03A 364-09A | | 005364-05A 005364-11A | | | |

Batch ID: 66669 Instrument ID ICP1 Method: E12

| MBLK Client ID: | Sample ID: MBLK-66669-66669 | Run ID: ICP1 _ | 200522A | | nits: µg/sar qNo: 22428 | • | Analysi Prep Date: 5/2 | s Date: 5/2 20/2020 | 2/2020 12: DF: 1 | 00 PM |
|--------------------|-----------------------------|-----------------------|---------|------------------|--|------------------|----------------------------------|------------------------|---------------------|-------|
| Analyte | Res | sult PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Copper | 1 | ND 25 | | | | | | | | |
| Lead | I | ND 25 | | | | | | | | |
| Manganese | I | ND 25 | | | | | | | | |

| LCS | Sample ID: LCS-66669-66669 |) | | | Un | iits: µg/sa | mple | Analysis | Date: 5/2 | 2/2020 12: | 04 PM |
|------------|----------------------------|----------------------|-----|---------|---------|----------------|---------|----------|----------------------------|------------|-------|
| Client ID: | | Run ID: ICP1_200522A | | | Seq | SeqNo: 2242824 | | | Prep Date: 5/20/2020 DF: 1 | | |
| | | | | | SPK Ref | | Control | RPD Ref | | RPD | |
| Analyte | | Result | PQL | SPK Val | Value | %REC | Limit | Value | %RPD | Limit | Qual |
| Copper | | 450.9 | 25 | 450 | 0 | 100 | 75-125 | 0 | 1 | | |
| Lead | | 442.4 | 25 | 450 | 0 | 98.3 | 75-125 | 0 | | | = |
| Manganese | | 480.2 | 25 | 450 | 0 | 107 | 75-125 | 0 |) | | |

| LCSD | Sample ID: LCSD-66669-6666 | 9 | | | Un | its: µg/sa | nple | Analysis | Date: 5/22 | /2020 12:0 | 08 PM |
|------------|----------------------------|----------------------|-----|---------|------------------|----------------|------------------|------------------|----------------------|--------------|-------|
| Client ID: | | Run ID: ICP1_200522A | | | Seq | SeqNo: 2242825 | | | Prep Date: 5/20/2020 | | |
| Analyte | I | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Copper | | 457.2 | 25 | 450 | 0 | 102 | 75-125 | 450.9 | 1.39 | 20 | |
| Lead | | 444.9 | 25 | 450 | 0 | 98.9 | 75-125 | 442.4 | 0.558 | 20 | |
| Manganese | | 487.8 | 25 | 450 | 0 | 108 | 75-125 | 480.2 | 1.58 | 20 | |

| MS Sample ID: 2005364-02A | MS | | | Un | its: µg/sa | mple | Analysis | Date: 5/2 | 2/2020 12: | 19 PM |
|---------------------------|--------|-----------|---------|------------------|------------------|------------------|------------------|-----------|--------------|-------|
| Client ID: 9764154-MSE01A | Run IE | D: ICP1_2 | 00522A | Seql | No: 22428 | 28 | Prep Date: 5/2 | 0/2020 | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Copper | 1131 | 25 | 450 | 767.2 | 80.8 | 75-125 | 0 | | | |
| Lead | 451.4 | 25 | 450 | 3.42 | 99.5 | 75-125 | 0 | | | |
| Manganese | 475.6 | 25 | 450 | 12.1 | 103 | 75-125 | 0 | | | |

| MSD Sample ID: 2005364-02 | AMSD | | | Un | nits: µg/sa | mple | Analysis | Date: 5/22 | /2020 12: | 23 PM |
|------------------------------------|-------------------|--------|------------------------|------------------|--------------------|------------------|------------------------|------------|--------------|-------|
| Client ID: 9764154-MSE01A | Run ID | ICP1_2 | 00522A | Seq | No: 22428 | 29 | Prep Date: 5/20 | /2020 | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Copper | 1112 | 25 | 450 | 767.2 | 76.5 | 75-125 | 1131 | 1.73 | 20 | |
| Lead | 444.3 | 25 | 450 | 3.42 | 98 | 75-125 | 451.4 | 1.57 | 20 | |
| Manganese | 469.8 | 25 | 450 | 12.1 | 102 | 75-125 | 475.6 | 1.24 | 20 | |
| The following samples were analyze | ed in this batch: | | 05364-02A 05364-08A | | 364-04A 364-10A | - | 05364-06A 05364-12A | | | |

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| Client: Project: WorkOrder: | Gilbane Company HPNS Parcel E Phase II J310000400 2005364 | QUALIFIERS, ACRONYMS, UNITS |
|-----------------------------------|---|--------------------------------|
| Qualifier | Description | |
| * | Value exceeds Regulatory Limit | |
| а | Not accredited | |
| В | Analyte detected in the associated Method Blank above the | Reporting Limit |
| Е | Value above quantitation range | |
| Н | Analyzed outside of Holding Time | |
| J | Analyte detected below quantitation limit | |
| n | Not offered for accreditation | |
| ND | Not Detected at the Reporting Limit | |
| 0 | Sample amount is > 4 times amount spiked | |
| Р | Dual Column results percent difference > 40% | |
| R | RPD above laboratory control limit | |
| S | Spike Recovery outside laboratory control limits | |
| U | Analyzed but not detected above the MDL | |
| Acronym | Description | |
| DUP | Method Duplicate | |
| Е | EPA Method | |
| LCS | Laboratory Control Sample | |
| LCSD | Laboratory Control Sample Duplicate | |
| MBLK | Method Blank | |
| MDL | Method Detection Limit | |
| MQL | Method Quantitation Limit | |
| MS | Matrix Spike | |
| MSD | Matrix Spike Duplicate | |
| PDS | Post Digestion Spike | |
| PQL | Practical Quantitaion Limit | |
| SDL | Sample Detection Limit | |
| SW | SW-846 Method | |
| Units Reported | Description | |

µg/sample mg/sample

Sample Receipt Checklist

| Client Name: <u>GILBANE-WALNUTCREEK</u> | | Date/Time | Received: <u>15-May-20</u> | 09:30 |
|---|-------------------|--------------|----------------------------|-------------------|
| Work Order: 2005364 | | Received b | y: <u>RDN</u> | |
| Checklist completed by J an WIIC0X eSignature | 15-May-20 Date | Reviewed by: | R ob Nieman eSignature | 19-May-20 Date |
| Matrices: <u>air</u> Carrier name: <u>FedEx</u> | | | | |
| Shipping container/cooler in good condition? | Yes 🗸 | No 🗌 | Not Present | |
| Custody seals intact on shipping container/cooler? | Yes 🗸 | No 🗌 | Not Present | |
| Custody seals intact on sample bottles? | Yes | No 🗌 | Not Present | |
| Chain of custody present? | Yes 🗸 | No 🗌 | | |
| Chain of custody signed when relinquished and received? | Yes 🗸 | No 🗌 | | |
| Chain of custody agrees with sample labels? | Yes 🗸 | No 🗌 | | |
| Samples in proper container/bottle? | Yes 🗸 | No 🗌 | | |
| Sample containers intact? | Yes 🗸 | No 🗌 | | |
| Sufficient sample volume for indicated test? | Yes 🗸 | No 🗌 | | |
| All samples received within holding time? | Yes 🗸 | No 🗌 | | |
| Container/Temp Blank temperature in compliance? | Yes 🗸 | No 🗌 | | |
| Temperature(s)/Thermometer(s): | | | | |
| Cooler(s)/Kit(s): | | | | |
| Water - VOA vials have zero headspace? | Yes | No 🗌 | No VOA vials submitted | |
| Water - pH acceptable upon receipt? | Yes | No | N/A | |
| pH adjusted? pH adjusted by: | Yes 🗌 | No 🗌 | N/A 🗹 | |
| | | | | |

Login Notes:

| Client Contacted: | Date Contacted: | Person Contacted: |
|-------------------|-----------------|-------------------|
| Contacted By: | Regarding: | |
| | | |
| Comments: | | |
| | | |
| CorrectiveAction: | | |
| | | |

SRC Page 1 of 1

Laboratory Analysis Report

Job ID: 20050617



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

Client Project Name : Parcel E Phase II RA J310000400

| Report To : | Client Name: | Gilbane | Total Number of Pages: | 5 |
|-------------|-------------------|-------------------------------|------------------------|------------------|
| | Attn: | Brett Womack | P.O.#. : | |
| | Client Address: | 1655 Grant Street, Suite 1200 | Date Received : | 05/11/2020 09:30 |
| | City, State, Zip: | Concord, California, 94520 | Sample Collected By : | Kimberly Tom |

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

| Client Sample ID MSE02-050620 | Sample Collection Date & Time 5/6/2020 15:53 | Matrix Cassette | A&B Job Sample ID 20050617.01 |
|----------------------------------|--|---------------------------|----------------------------------|
| MSE01A-050620 | 5/6/2020 15:57 | Cassette | 20050617.02 |
| MSE01A-050720 | 5/7/2020 15:34 | Cassette | 20050617.03 |
| MSE02-050720 | 5/7/2020 15:38 | Cassette | 20050617.04 |
| MSE02-050820 | 5/8/2020 14:15 | Cassette | 20050617.05 |
| MSE01A-050820 | 5/8/2020 14:00 | Cassette | 20050617.06 |

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Released By: Senthilkumar Sevukan Title: Assistant Lab Manager Analyst:

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



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

Date 5/18/2020

Job ID: 20050617 Analytical Method: NIOSH 7400-I2-Aug1994

| Client: Gilbane | 2 | | Project: Par | cel E Phase | II RA J31 | 0000400 | | | | | | Attn: Br | ett Woma | ck | |
|------------------|------------------|----------------|--------------|------------------|------------|-------------|---------------------|--------------------|-----------------|-----------------|--------|----------|---------------|------------------|----------------|
| 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 |
| 20050617.01 | MSE02-050620 | 05/06/2020 | Area | 2 | | | 533 | 1066 | 100 | 10.5 | 13.376 | 0.005 | | 05/18/20 | Habedi |
| 20050617.02 | MSE01A-050620 | 05/06/2020 | Area | 2 | | | 508 | 1016 | 100 | 11.5 | 14.650 | 0.006 | | 05/18/20 | Habedi |
| 20050617.03 | MSE01A-050720 | 05/07/2020 | Area | 2 | | | 476 | 952 | 100 | 8.0 | 10.191 | 0.004 | | 05/18/20 | Habedi |
| 20050617.04 | MSE02-050720 | 05/07/2020 | Area | 2 | | | 473 | 946 | 100 | 12.5 | 15.924 | 0.006 | | 05/18/20 | Habedi |
| 20050617.05 | MSE02-050820 | 05/08/2020 | Area | 2 | | | 403 | 806 | 100 | 12.0 | 15.287 | 0.007 | | 05/18/20 | Habedi |
| 20050617.06 | MSE01A-050820 | 05/08/2020 | Area | 2 | | | 409 | 818 | 100 | 9.0 | 11.465 | 0.005 | | 05/18/20 | Habedi |

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

Sample Condition Checklist



| A&B | JobID : 20050617 | Date Receive | ed : 05 | /11/2020 | | Time | Received : | 9:30AM | | |
|-------|--------------------------------------|------------------|---------|--------------|------|------|------------|--------|-----|-----|
| Clien | t Name : Gilbane | | | | | | | | | |
| Tem | perature : 24.7-0.3cf=24.4°C | Sample pH : | N/A | | | | | | | |
| Ther | mometer ID : 1709629 | pH Paper ID | : N/A | | | | | | | |
| Pers | servative : | | | | | | | | | |
| | - | | | | | | | | | |
| | | Che | ck Poin | ts | | | | 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-c | ustody. | | | | | | х | | |
| 5. | C-O-C signed and dated. | | | | | | | х | | |
| 6. | Sample(s) received with signed sa | mple custody se | al. | | | | | х | | |
| 7. | Sample containers arrived intact. (| f no comment). | | | | | | х | | |
| 8. | Matrix Water Soil Liq | id Sludge | Solid | Cassette | Tube | Bulk | Badge | Food | Oth | er |
| 0. | | | | \checkmark | | | | | | |
| 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 | les found. | | | | | | х | | |
| 14. | Sample volume is sufficient for ana | lyses requested | • | | | | | х | | |
| 15. | Samples were received within the I | old time. | | | | | | х | | |
| 16. | VOA vials completely filled. | | | | | | | | | х |
| 17. | Sample accepted. | | | | | | | х | | |
| 18 | Has client been contacted about s | ub-out | | | | | | | | х |
| Com | ments : Include actions taken to res | olve discrepanci | es/prob | lem: | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Received by : AArnett

Check in by/date :

JMontemayor / 05/11/2020

| TAT: 5 Days | | | | | Chain-Of-Custody |)f-Custo | ybc | |
|--|---|---|--|---------------|-----------------------------|--|--|--|
| Project Name and Number: Parcel E Phase II RA J310000400 | | Laboratory Name: A&B Labs Address: 10100 East Freewood Ste 100 | abs way Sta 100 | Contact Name: | Shantall Carpenter | Date: 05/8/20 Page: 4 of | 1/20 | |
| Site Location: Hunters Point, San Francisco, CA 94124 | | | s 77029 | Phone: 713 | 4 | - | 5 | |
| Sample I.D. Sample I.D. MSE02-050620 MSE01A-050620 MSE01A-050620 MSE01A-050720 MSE01A-050720 MSE01A-05080 MSE01A | 6/20 5/6/20 5/7/20 5/7/20 1553 1553 1553 1553 1553 1553 1553 155 | Sample Depth (top) | Analysis: | | | Flow rate for all samples = 2 L/min Special Instructions/Comments Total flow (min): 533 508 476 476 473 | all samples ions/Comment 533 47 47 409 409 | ples = ments 533 508 473 473 403 |
| | | | | | | 2 2 2 3 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 | 2 1 2 | 21 5. |
| Sampled By: Kimberly Tom | Sampler: | KE | | | Courier/Airbill No.: FedEx/ | EX/ 7704 2284 0198 | 98 | |
| Signature: | Relinquished By/Affiliation: | y/Affiliation: | Date: | Time: | Received By/Affiliation: | | Date: | Time: |
| Special Instructions: | F. 70-1 | Carlban | 5/8/40 | lan | Yed Ca | | 211- 210-2 | 1600 |
| Send Results to: <u>kcarlyon@gilbaneco.com</u> (w/fax #) <u>ktom@gilbaneco.com</u> Turnaround Time: 5 days | | | | | 21 7- 8.35 24 4 | 290L). | - 60 | |

Page 4 of 5

Job ID: 20050617



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AMENDED Laboratory Analysis Report

Job ID: 20051028



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

| | Total Number of Pages: | 6 |
|------------------------|---------------------------------|--|
| mack | P.O.#. : | |
| ant Street, Suite 1200 | Date Received : | 05/15/2020 09:30 |
| , California, 94520 | Sample Collected By : | |
| 2 | omack ant Street, Suite 1200 | omack P.O.#. : ant Street, Suite 1200 Date Received : |

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

| Client Sample ID MSE01A-051120 | Sample Collection Date & Time 5/11/2020 | Matrix Cassette | A&B Job Sample ID 20051028.01 |
|-----------------------------------|---|---------------------------|-------------------------------|
| MSE02-051120 | 5/11/2020 | Cassette | 20051028.02 |
| MSE01A-051220 | 5/12/2020 | Cassette | 20051028.03 |
| MSE02-051220 | 5/12/2020 | Cassette | 20051028.04 |
| MSE01A-051320 | 5/13/2020 | Cassette | 20051028.05 |
| MSE02-051320 | 5/13/2020 | Cassette | 20051028.06 |

ausnu Hugues

Released By: Alisha Hughes

Title:

Project Manager

Analyst:



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

5/27/2020



A&B Job ID: 20051028

Date: 05/27/20

Client Name: Gilbane Project Name: HPNS Parcel E Phase II J310000400 Date Received: 05/15/20 Collected By: Attn: Brett Womack

REVISED REPORT -

The attached report was revised for the total volumes.

ausnu Hugues

Released By: Alisha Hughes

Title: Project Manager



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

Date 5/27/2020

Job ID: 20051028 Analytical Method: NIOSH 7400-I2-Aug1994

| Client: Gilbane | 2 | | Project: HPN | NS Parcel E I | Phase II . | J3100004(| 00 | | | | | Attn: Br | ett Woma | ck | |
|------------------|------------------|----------------|--------------|------------------|------------|-------------|---------------------|--------------------|-----------------|-----------------|--------|----------|---------------|------------------|----------------|
| 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 |
| 20051028.01 | MSE01A-051120 | 05/11/2020 | Area | 2 | | | 440 | 880 | 100 | 10.5 | 13.376 | 0.012 | | 05/22/20 | Habedi |
| 20051028.02 | MSE02-051120 | 05/11/2020 | Area | 2 | | | 430 | 860 | 100 | 10.0 | 12.739 | 0.011 | | 05/22/20 | Habedi |
| 20051028.03 | MSE01A-051220 | 05/12/2020 | Area | 2 | | | 480 | 960 | 100 | 11.0 | 14.013 | 0.011 | | 05/22/20 | Habedi |
| 20051028.04 | MSE02-051220 | 05/12/2020 | Area | 2 | | | 480 | 960 | 100 | 8.0 | 10.191 | 0.008 | | 05/22/20 | Habedi |
| 20051028.05 | MSE01A-051320 | 05/13/2020 | Area | 2 | | | 510 | 1020 | 100 | 12.5 | 15.924 | 0.012 | | 05/22/20 | Habedi |
| 20051028.06 | MSE02-051320 | 05/13/2020 | Area | 2 | | | 470 | 940 | 100 | 8.5 | 10.828 | 0.009 | | 05/22/20 | Habedi |

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

Sample Condition Checklist



| A&B | JobID : 20051028 | Date Receive | ed : 05 | /15/2020 | | Time | Received : 9 | :30AM | | |
|---|---|---|----------------|--------------|------|------|--------------|----------------------------|-----|-----|
| Clien | t Name : Gilbane | | | | | | | | | |
| Tem | perature : 25.2-0.3cf=24.9°C | Sample pH : | N/A | | | | | | | |
| Ther | mometer ID : 1709629 | pH Paper ID | : N/A | | | | | | | |
| Pers | ervative : | | | | | | | | | |
| | | | | | | | | | | |
| | | Che | ck Point | s | | | | 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-cu | stody. | | | | | | Х | | |
| 5. | C-O-C signed and dated. | | | | | | | Х | | |
| 6. | Sample(s) received with signed san | ple custody se | eal. | | | | | Х | | |
| 7. | Sample containers arrived intact. (If | no comment). | | | | | | Х | | |
| 8. | Matrix Water Soil Liqu | id Sludge | Solid | Cassette | Tube | Bulk | Badge | Food | Oth | er |
| 0. | | | | \checkmark | | | | <u> </u> | |] |
| 9. | | | | | | | | | | |
| | Sample(s) were received in appropr | ate container(| s). | | | | | Х | | |
| 10. | Sample(s) were received in appropr Sample(s) were received with prope | - | | | | | | X | | x |
| | | - | | | | | | X X | | X |
| 10. | Sample(s) were received with prope | - | | | | | | | | X |
| 10. 11. | Sample(s) were received with prope All samples were logged or labeled. | r preservative | | | | | | x | | X |
| 10. 11. 12. | Sample(s) were received with prope All samples were logged or labeled. Sample ID labels match C-O-C ID's | r preservative es found. | | | | | | 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 bott | r preservative es found. yses requested | | | | | | X 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 bott Sample volume is sufficient for anal | r preservative es found. yses requested | | | | | | X X X 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 bott Sample volume is sufficient for analy Samples were received within the ho | r preservative es found. yses requested | | | | | | X X X X X | | |
| 10. 11. 12. 13. 14. 15. 16. | 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 bottl Sample volume is sufficient for analy Samples were received within the ho VOA vials completely filled. | r preservative es found. yses requested old time. | | | | | | X X X X X X | | |
| 10. 11. 12. 13. 14. 15. 16. 17. 18 | 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 bottl Sample volume is sufficient for analy Samples were received within the her VOA vials completely filled. Sample accepted. | r preservative es found. yses requested old time. b-out | | em: | | | | X X X X X X | | x |
| 10. 11. 12. 13. 14. 15. 16. 17. 18 | 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 bott Sample volume is sufficient for anal Samples were received within the her VOA vials completely filled. Sample accepted. Has client been contacted about su | r preservative es found. yses requested old time. b-out | | em: | | | | X X X X X X | | x |

Received by : VHernandez

JMontemayor / 05/15/2020

| Simple Indulte Indulte Control function Control fun | ofter | | | | | | | Original – Laboratory Vellow – Field/Office |
|---|-------------------------------------|---------------------|----------------------------|----------------------|----------|--------------|--------------|---|
| Bittice IoniMative Cock # CTO S (U 2 0 - 1) Influence Hernis Period E Fhase II (31000-00) Ideamy Rue: Add Labs Chain-Of-Custod Influence Hernis Period E Fhase II (31000-00) Ideamy Rue: Add Labs Influence Chain-Of-Custod Influence Period Essention Material Calpenter Non- Period Period <th>didin alas</th> <th>Phin</th> <th></th> <th></th> <th>cont</th> <th></th> <th></th> <th>Send Results to: kcarlyon@gilbaneco.com (w/fax#) ktom@gilbaneco.com Turnaround Time: 5 days</th> | didin alas | Phin | | | cont | | | Send Results to: kcarlyon@gilbaneco.com (w/fax#) ktom@gilbaneco.com Turnaround Time: 5 days |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Stryho | Received By/Affilia | Stirthe 1600 | ~ | 2 Lyhelm | R. | | |
| Ibine Inal Mater Coc # KT 05 [1/2 0 -] Name addiume: HPNS Parcel E Phase II U30000400 Iabritro Nume: Alle Lats Chain-Of-Custody Name addiume: Humes Fear, San Francisco, CA 94124 Iabritro Nume: Alle Lats Iabritro Nume: Alle Lats Nume: Humes Fear, San Francisco, CA 94124 Iabritro Nume: Alle Lats Iabritro Nume: Alle Lats Nume: Fund: San Francisco, CA 94124 Iabritro Nume: Alle Lats Iabritro Nume: Alle Lats Nume: Four, San Francisco, CA 94124 Iabritro Nume: Alle Lats Iabritro Nume: Stantal Cappenter Float allanu | FedEx 7704 5 | Courier/Airbill | | 03 | - | Relin | | Signature: |
| Iberce Ioral Mathes Coc # $TCS/I20 - I$ Nume: authumete: IPNS Pusel E Fnase II.30000400 Labutury.Nme: ABE Labs Chain-Of-Custody Nume: Imme: Bent Womada (925) 25C-027 Labutury.Nme: ABE Labs Chain-Of-Custody Nume: Humers Point, San Francisco, CA 94121 Labutury.Nme: ABE Labs Oracle Fraverup, Sin: 100 Contact Nume: Simple Lab OLA - 05/12.0 OLA 5/11/2 Imme Humers Flow rate for all sample OLA - 05/12.0 OLA 5/11/2 Labor VA. NA Mode of contailers None OLA - 05/13.2.0 OLA 5/11/2 Labor VA. NA Mode of contailers Several interview OLA - 05/13.2.0 OLA 5/11/2 Labor VA. NA Mode of contailers Several interview OLA - 05/13.2.0 OLA 5/11/2 Labor VA. NA Mode of contailers Several interview OLA - 05/13.2.0 OLA 5/13/2 1/2.0.0 VA. NA Mode of contailers Several interview VIA Statistic Statistic Statistic Several interview Several interview Several interview VIA Statistic Statistic Statistic Statistic Statistic </td <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>Sampled By: Kombarty Za-</td> | | | | | 1 | | | Sampled By: Kombarty Za- |
| Ibarre Loal Matters Coc# Chain-Of-Custody Name and humber: HPNS Parcel E Fhase II J310000400 Laboratory Nume: AsB Labs Chain-Of-Custody Mauger: Bent Wennack (925) 255-6927 Indides: 1010 Exis Freeway, Ste. 100 Contact Name: Shantall Cargenter Page: / 1/4 ano: Humes Point, San Francisco, CA 94124 Houston, Texas 77029 Hous: 7/3.453.6060 x 138 Date: Shantall Cargenter Page: / 1/4 OIA - OS 112.0 OIA Jate Ime anniple Deepth (Lopp) No. of Containers No. of Containers Sample Mattrix No. of Containers Sample Mattrix Sample Mattrix OIA - OS 122.0 OIA S/11/20 12/20 12/20 12/20 Sample Mattrix Sample Mattrix Sample Mattrix Sample Mattrix OIA - OS 132.0 OIA S/11/20 12/20 12/20 12/20 12/20 Special Instructions/Comme OIA - OS 132.0 OIA S/12/20 12/20 12/20 12/20 12/20 Special Instructions/Comme OIA - OS 132.0 OIA S/12/20 12/20 12/20 12/20 12/20 12/20 12/20 12/20 OIA - OS 132.0 OIA S/12/20 12/20 <td>07 H</td> <td></td> <td>r X</td> <td>F</td> <td></td> <td>a logico</td> <td>U\$D</td> <td></td> | 07 H | | r X | F | | a logico | U\$D | |
| Ibane Ioral Address Cock # $KT 65 [420]$ Mame and Number: HPNS Parcel E Phase II J310000400 Iaboratory Name: Address: 1010 East: Francesco Chain-Of-Custody Manager: Beet Womack (925) 250-9027 Indicess: 1010 East: Francesco Q4124 Poston Indicess: 1010 East: Francesco Q4124 Poston Poston Parcel J414 Poston Post | 012 087 | | ×× | | 1535 | 5/12/20 | 0SA | E01A-05132 E02-05132 |
| Gibbers Loral Address Loral Address Coc # KT05142 Vojett Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Chain-Of- Vojett Manager: Breff Womack (925) 25C-8027 Laboratory Name: A&B Labs Chain-Of- Vojett Manager: Breff Womack (925) 25C-8027 Laboratory Name: A&B Labs Ontact Name: Shantall Carpenter Vojett Manager: Hunters Point, San Francisco, CA 94124 Houston, Texas 77029 Phone: 713 453-6060 x 136 Sample ID Date Time Sample Depth (Lop) Majori Sample ID Diff Diff 1/2c I LOO NA N Sample Matrix Nessetter Second - OS1120 DIA S111/2c I LOO NA NA AA Na | <i>ttt</i> | | $\overline{\times \times}$ | | 1610 | 12 | 03A | 01A - 05122 02 - 05122 |
| Interview | Special Instructions/Comments | | Sample Matrix | Sample Depth (botto) | Time | Date | DIA | Sample 1.0. |
| International control of the second secon | Flow rate for all samples = 2 L/min | | tos NIOSH 7400 | m) | | | | |
| Incal Address: Local Address: Coc # KT 05 1420-1 Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs | Page: 1 of 1 | | Contact Phone: | | Addn | 94124 | ncisco, CA | Site Location: Hunters Point, San Fra |
| Local Address: | all Of Custouy | - | B Labs | | Labo | J310000400 | I E Phase II | 2 |
| | ain-Of-Custody | Ch | | | 8 | Lucal Addres | | e lloane |
| | KT051420-1 | COC # | | | | | | |

18

Page 5 of 6



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