



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

**AIR MONITORING SUMMARY REPORT 10 FOR
PARCEL C
RADIOLOGICAL CONFIRMATION SAMPLING AND
SURVEY
HUNTERS POINT NAVAL SHIPYARD, SAN FRANCISCO,
CALIFORNIA**

December 5th, 2022 through October 19th, 2023

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Acronyms and Abbreviations

| | |
|------------------------------|---|
| AMSR | <i>Air Monitoring Summary Report</i> |
| ASRC | <i>Artic Slope Regional Corporation</i> |
| Cal/OSHA | <i>California Occupational Safety and Health Administration</i> |
| Cfm | <i>cubic feet per minute</i> |
| CFR | <i>Code of Federal Regulations</i> |
| CTO | <i>Contract Task Order</i> |
| DMAMP | <i>Dust Management and Air Monitoring Plan</i> |
| EPA | <i>United States Environmental Protection Agency</i> |
| fibers/cm ³ | <i>fibers per cubic centimeter</i> |
| Gilbane | <i>Gilbane Federal</i> |
| HPNS | <i>Hunters Point Naval Shipyard</i> |
| L/min | <i>liters per minute</i> |
| mg/m ³ | <i>milligrams per cubic meter</i> |
| Navy | <i>U.S. Department of the Navy</i> |
| NIOSH | <i>National Institute for Occupational Safety and Health</i> |
| PEL | <i>permissible exposure limit</i> |
| PM ₁₀ | <i>particulate matter less than 10 microns in diameter</i> |
| TSP | <i>total suspended particulates</i> |
| TWA | <i>time-weighted average</i> |
| μCi/mL | <i>microcuries per milliliter</i> |
| μg/m ³ | <i>micrograms per cubic meter</i> |
| WP | <i>work plan</i> |

1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by GES as requested by the United States Department of the Navy (Navy) under Radiological Environmental Multiple Award Contract N62473-17-D-0005, Contract Task Order (CTO) N6247318F5305. GES is performing air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Final Dust Management and Air Monitoring Plan (DMAMP), included as Appendix E to *Final Work Plan Parcel C Removal Site Evaluation, Hunters Point Naval Shipyard, San Francisco, California* (WP; Gilbane, 2022). The DMAMP describes the procedures that minimize dust during work activities and requires air monitoring to ensure these procedures are effective. The methods and procedures detailed in the DMAMP help to prevent exposure of residents and construction crews to potential airborne chemicals of concern, and dust from the work area.

This summary report describes the following:

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

This AMSR summarizes the air monitoring activities conducted by GES at HPNS Parcel C from December 5th, 2022 to October 19th, 2023 and compares the results with the established action levels presented in the DMAMP (Appendix E of the WP [Gilbane, 2022]).

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2.0 Monitoring Site Locations

Air monitoring stations were deployed at one upwind and downwind location from the work area whenever active soil handling operations were in progress. Additional radiological air monitors may be placed within the daily work areas to monitor for worker health and safety. Based on past meteorological data, the prevalent wind direction at HPNS was from the west or west-southwest. The locations of Parcel C air monitoring stations are presented on **Figure 2-1**.

Air monitoring was performed to estimate and assess the impact of field activities. The locations of air monitoring stations were determined based on the prevailing wind direction and were modified as needed for accessibility and worker safety considerations. Wind direction was monitored daily using a windsock and confirmed with the prevalent wind direction recorded for the APTIM HPNS - KCASANFR1504 or Bayview Manor - KCASANFR1775 or Bayview – KCASANFR1508 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)
3. Total suspended particulates (TSP) and Metals (Lead and Manganese)
4. Radionuclides

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3.0 Analytical Methods

3.1 Asbestos

Air samples were sampled and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400, from the NIOSH Manual of Analytical Methods (NIOSH, 1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters fitted with conductive cowlings at a sampling rate of between 0.5 liters per minute (L/min) and 16 L/min. Each sample was collected over the course of a period not to exceed 25 hours and submitted to A&B Laboratories of Houston, TX for analysis. Asbestos results were reviewed for anomalies and compliance with the action levels listed below.

3.2 PM10

Filter-based PM10 data are collected to ensure the protection of public health and safety during construction operations. Filter-based PM10 data are generated by sampling with calibrated air monitoring equipment that are operated continuously over the course of a period not to exceed 25 hours in accordance with the U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in Title 40 Code of Federal Regulations (CFR), Part 50, Subpart J (EPA, 1999a). 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 Eurofins, West Sacramento, CA or Eurofins Analytics, Ashland, VA for analysis. The concentration is gravimetrically determined. The sample results are reviewed for field and laboratory anomalies to provide confidence in the data and compared to air quality criteria to ensure compliance with the action levels listed below. In this way the precise amount of PM10 present in each cubic meter of air is determined.

3.3 TSP, Lead and Manganese

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with EPA's reference sampling method for TSP, described in 40 CFR 50, Subpart B. Each sample was collected on a filter over the course of a period not to exceed 25 hours (depending on the duration of the work activity). The sample is then shipped to Eurofins, West Sacramento, CA or Eurofins Analytics, Ashland, VA for analysis. The filter was then weighed to determine the amount of TSP collected. The resulting concentration was compared to the HPNS Basewide level listed below to minimize permissible dust releases from the site. Once the TSP concentration was gravimetrically determined, the filter was analyzed for lead and manganese in accordance with EPA Method 6010B (equivalent to IO-3.4 in the Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air [EPA, 1999b]).

3.4 Radionuclides of Concern

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

Perimeter samples for ROCs were analyzed at ARS Aleut Analytical, of Port Allen, LA by the radiological methods listed below.

- Gamma Spectroscopy by EPA Method 901.1
- Alpha Spectroscopy/Eichrom Resin Separation by HASL 300 Pu-02RC and Eichrom ACW10
- Gas Flow Proportional Counting/Eichrom Resin Separation by SRW01.

The calculated airborne concentration in microcuries per filter was 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 is the minimum concentration 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; and radionuclide activities were compared to the airborne concentration action levels listed in Table 2 of the approved DMAMP (Appendix E of the WP [Gilbane, 2022]). The PM10 delta was additionally compared to the criterion taken from the *Final Basewide Dust Control Plan, Revision 1, Hunters Point Shipyard, San Francisco, California* (Tetra Tech EC, 2010) of 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Table 4-1: Air Monitoring Threshold Criteria

| Test Parameter | Threshold Criteria | Threshold Criteria Reference |
|-------------------|-----------------------------------|---|
| Asbestos | 0.1 fibers/cm ³ | Cal/OSHA PEL (on-site workers) |
| PM10 ^a | 50 $\mu\text{g}/\text{m}^3$ | DTSC HERO developed action level (residents and public receptors) ^a |
| | 5,000 $\mu\text{g}/\text{m}^3$ | Cal/OSHA PEL (on-site workers) ^b |
| TSP | 0.5 mg/m ³ | Basewide HPNS Level selected to minimize overall permissible dust release from sites |
| Lead | 0.050 mg/m ³ | Cal/OSHA PEL (on-site workers) |
| Manganese | 0.200 mg/m ³ | Cal/OSHA PEL (on-site workers) 10 CFR, Part 20, Appendix B, Table 2 Column 1 adjusted from 50 mrem per year to maximum annual exposure of 10 mrem per year at the receptor (public receptor) ^c |
| Cesium-137 | 4.00E-11 $\mu\text{Ci}/\text{mL}$ | |
| Plutonium-239 | 4.00E-15 $\mu\text{Ci}/\text{mL}$ | |
| Radium-226 | 1.80E-13 $\mu\text{Ci}/\text{mL}$ | |
| Strontium-90 | 1.20E-12 $\mu\text{Ci}/\text{mL}$ | |
| Cobalt-60 | 1.00E-11 $\mu\text{Ci}/\text{mL}$ | |
| Thorium-232 | 1.20E-15 $\mu\text{Ci}/\text{mL}$ | |

Notes:

^a = The DTSC HERO action level is based on the CSAAQS. The CSAAQS is designed to protect the general public from airborne particulates generated in the urban, suburban, and rural environments. The CSAAQS is not meant to be applied to general project-specific construction actions and related air quality. Rather, the standard is used to attain city- or regional-wide ambient air quality goals for the benefit of the general public. The current CSAAQS for PM10 is 50 $\mu\text{g}/\text{m}^3$ average per 24-hour day. The City and County of San Francisco is currently a nonattainment area for the CSAAQS for PM10.

^b = The Cal/OSHA PEL for particulates not otherwise regulated (respiratory) is used for PM10 comparison.

^c = Results may be evaluated using 40 CFR Appendix E to Part 61 to demonstrate compliance with the National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61).

$\mu\text{Ci}/\text{mL}$ = microcuries per milliliter

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

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

DTSC HERO = California Department of Toxic Substances Control, Human and Ecological Risk Office

fibers/cm³ = fibers per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter less than 10 microns in diameter

TSP = total suspended particulates

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5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as **Attachment 1**. Meteorological data for Stations 1 and 2 were sourced from the Weather Underground (wunderground.com) station APTIM HPNS - KCASANFR1504, Bayview Manor - KCASANFR1775, and Bayview – KCASANFR1508. **Table 5-1** displays each air monitoring report and the associated dates covered in the report.

Air monitoring results are presented in the following attachments:

- Asbestos – **Attachment 2**
- PM10 – **Attachment 3**
- Lead and Manganese – **Attachment 4**
- TSP – **Attachment 5**
- Radiological – **Attachment 6**

Laboratory reports are included as **Attachment 7** and were subjected to cursory review by the Project Chemist. Radiological data were qualified for low-level contamination below the required detection limit (RDL) in the field filter blanks, negative results, or for minimum detectable concentrations (MDCs) above the RDL. PM10 and metals had some data estimated due to low-level particulates collected on the field blank media. Data, as qualified are considered usable for their intended purposes.

Due to the nature of radiological laboratory analysis, radiological data will be presented as the contractor receives it. Ultimately the radiological results will be slightly delayed in comparison to the Asbestos, PM10, TSP, Lead, and Manganese results.

Table 5-1: Air Monitoring Report Summary

| Air Monitoring Report Number | Data Date Range |
|-------------------------------------|------------------------|
| 01 | 12/05/22 – 12/22/22 |
| 02 | 12/23/22 – 3/02/23 |
| 03 | 3/03/23 – 3/23/23 |
| 04 | 3/24/23 – 5/04/23 |
| 05 | 5/05/23 – 6/08/23 |
| 06 | 6/09/23 – 6/22/23 |
| 07 | 6/23/23 – 7/20/23 |
| 08 | 7/21/23 – 8/17/23 |
| 09 | 8/18/23 – 9/28/23 |
| 10 | 9/29/23 – 10/19/23 |

5.1 Report 01

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations. The delta was taken by switching the upwind and downwind results due to the change in wind direction for sample end dates 12/15/22, 12/21/22, and 12/22/22.

5.2 Report 02

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations. The delta was taken by switching the upwind and downwind results due to the change in wind direction for sample end dates 1/18/23, 1/24/23, 2/07/23, 2/08/23, 2/09/23, and 2/09/23 (second set of samples collected after field activities ceased).

5.3 Report 03

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations.

5.4 Report 04

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations. The delta was taken by switching the upwind and downwind results due to the change in wind direction for sample end dates 3/20/23, 4/13/23 (second set of samples collected after field activities ceased).

5.5 Report 05

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations. It was discovered during this report generation there was a transcription error in the radiation data report. The data has been corrected accordingly. An exceedance was observed for the radiological data presented in AMR 03. The downwind MSC02 station recorded a Thorium-232 value above project screening criteria for the sampling week of 03/20/23 – 3/23/23. This exceedance is described in Attachment 1-6 respectively.

5.6 Report 06

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations. The delta was taken by switching the upwind and downwind results due to the change in wind direction for sample end date 6/15/23 (second set of samples collected after field activities ceased).

5.7 Report 07

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations with the exception of the PM10 result at the downwind MSC02 station on 7/6/23. The delta between the downwind and upwind stations was recorded at 304.64 ug/m³. There were no PDR results above the project screening criteria for the corresponding 7/6/23 operations.

As established by the Final Parcel C Removal Site Evaluation Dust Management and Air Monitoring Plan, the action level for PM10 filter samples is the Cal OSHA PEL of 5000 ug/m³, however for informational purposes the results are also being compared to the DTSC HERO action level of 50 ug/m³. The delta was taken between the downwind and upwind PM10 filter results on 7/6/23 (304.64 ug/m³) and was below the Parcel C compliance action level, however exceeded the DTSC HERO action level. Real-time PDR results during operations on 7/6/23 at the upwind, downwind, and trench monitoring locations were all below the HERO action level. Operations on 7/6/23 consisted of TU-196 excavation and transporting to the rad laydown area as well as grading pads. No PM10 filter results have exceeded the HERO action level since the inception of the project. A safety stand down was held on 8/17/23 to address the matter and operations will be re-evaluated to reduce the presence of visible dust. The contractor will continue to maintain persistent dust control measures.

The delta was taken by switching the upwind and downwind results due to the change in wind direction for sample end date 6/29/23 (second set of samples collected after field activities ceased). The site was closed and therefore no air monitoring was conducted 7/3/23-7/4/23 due to the holiday.

5.8 Report 08

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations with the exception of the Thorium-232 result at the downwind MSC02 station for the sampling week of 7/5/23 – 7/6/23. The MSC02 station recorded a Thorium-232 value of 2.09E-15 J µCi/mL which is above the Cal/OSHA PEL screening criteria of 1.20E-15 µCi/mL.

The site was shut down for the holiday 7/3/23 - 7/4/23 and no sampling or work was conducted. The radiological sample filter had a short runtime due to the site closure and ran approximately 32 hours compared to a full week which typically runs 76-83 hours. In AMR 07, GES addressed a PM10 sample for the same week in discussion on 7/6/23 at the MSC02 station, where a result was confirmed above the DTSC HERO action level of 50 ug/m³ (compared for informational purposes) however remained below the Cal OSHA PEL of 5000 ug/m³. Due to the nature of analyzing radiological air samples the contractor is now presenting these results. The field radiological results analyzed before the filters are shipped to the laboratory indicated no values above action levels. PDR data collected on both working days also remained below action levels.

The site operations for this week consisted of excavating TU-196 and grading RSY pads with a skid steer. The Pad graded this week was upwind and in close proximity to the downwind MSC02 station. On 7/5/23 the site experienced warm weather during work hours of 72 degrees Fahrenheit with a strong afternoon wind. Dry ground conditions were noted and present during operations this week.

On 8/17/23 a safety stand down was held to communicate the elevated PM10 result at the MSC02 station discussed in AMR 07. This Th-232 exceedance is from the same corresponding sampling event. Another briefing was held with the field crew to convey the exceedance and reiterate the importance of dust control. GES will be conscious of soil activities during windy conditions and or warm weather using good judgment to cease operations or pivot onto another task. The contractor will continue utilizing the water truck to hydrate haul routes and excavation/grading activities. Traffic onsite will be minimized when possible and speed reduced to decrease the probability of dust generation.

5.9 Report 09

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations. The delta was taken by switching the upwind and downwind results due to the change in wind direction for sample end date 9/14/23, 9/21/23, and 9/28/23 (second set of samples collected after field activities ceased).

Smoky conditions from the Northern California wildfires present in Bay from 9/19/23 – 9/21/23. These conditions caused elevated PDR readings along with PM10/TSP results. The delta remained below action levels for all data collected during these smoky conditions.

5.10 Report 10

Air monitoring analytical results did not exceed project-specific screening criteria during this reporting period's site operations.

The delta was taken by switching the upwind and downwind results due to the change in wind direction for sample end date 10/05/23, 10/05/23 (second set of samples collected after field activities ceased), 10/10/23, 10/12/23 (second set of samples collected after field activities ceased), 10/19/23, and 10/19/23 (second set of samples collected after field activities ceased).

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6.0 References

California Department of Toxic Substances Control (DTSC), 2021. Human and Ecological Risk Office (HERO) Memorandum, Dust Action Levels for Parcel C, Hunters Point Naval Shipyard, San Francisco, California, July.

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

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

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

Gilbane Federal (Gilbane), 2019. *PR-RP-150* "Radiological Survey and Sampling". November.

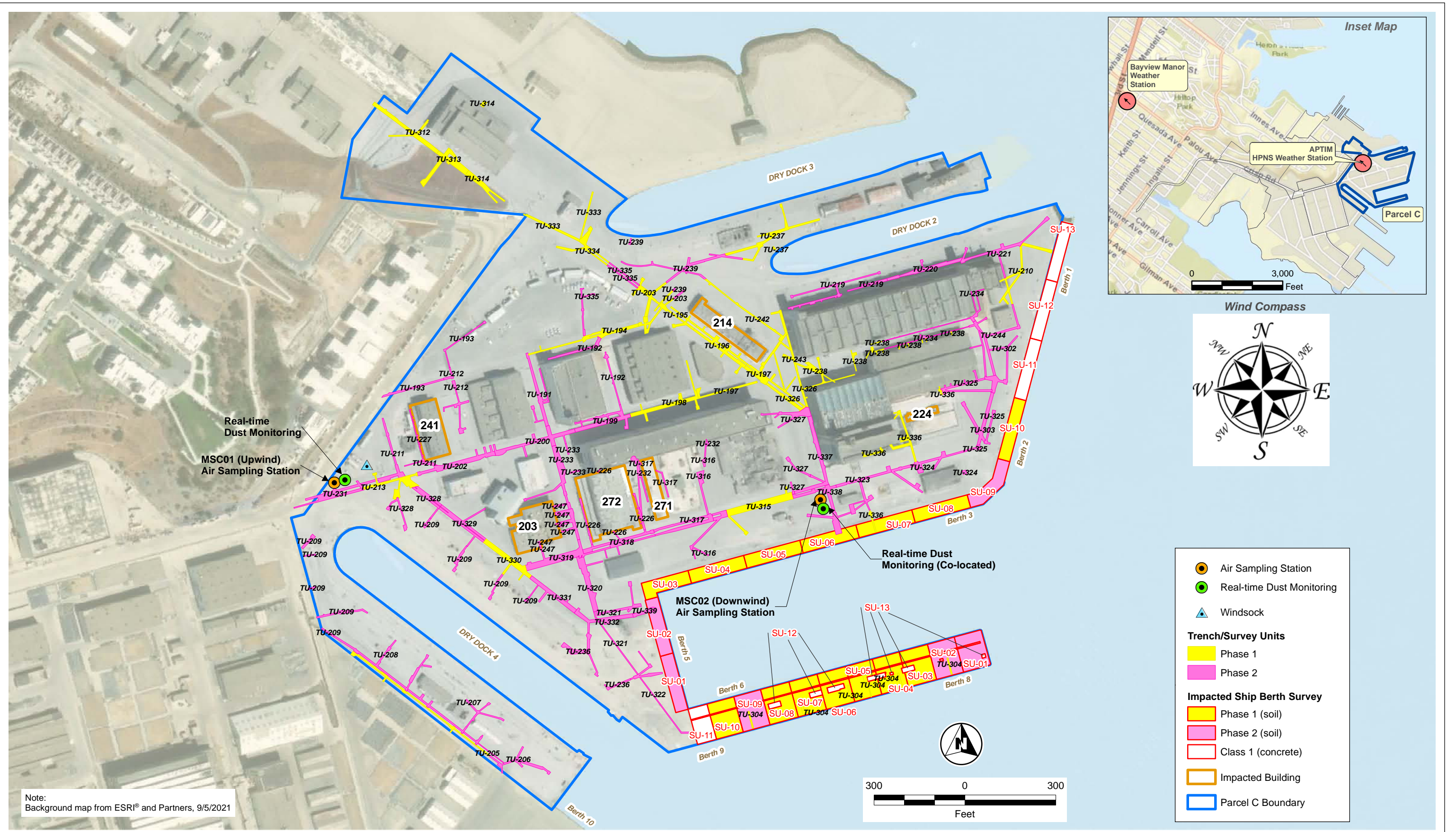
Gilbane, 2022. Final Parcel C Removal Site Evaluation Work Plan, Hunters Point Naval Shipyard, San Francisco, California. July

Tetra Tech EC, 2010, *Final Basewide Dust Control Plan, Revision 1, Hunters Point Shipyard, San Francisco, California*, November 29.

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FIGURES

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Removal Site Evaluation Work Plan
Radiological Investigation, Survey, and Reporting at Parcel C
 Hunters Point Naval Shipyard
 San Francisco, California

Figure 2-1
 Air Sampling and Dust Monitoring Locations

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

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

| Start Date | Ambient Pressure (in Hg) | Ambient Temperature (°F) | Prevalent Wind Direction |
|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 12/6/2022 ¹ | 30.09 | 49.95 | ESE |
| 12/7/2022 ¹ | 30.25 | 49.27 | S |
| 12/8/2022 ¹ | 30.25 | 49.27 | SSE |
| 12/12/2022 ¹ | 30.01 | 46.32 | NNW |
| 12/13/2022 ¹ | 30.16 | 46.70 | SE |
| 12/14/2022 ¹ | 30.21 | 46.47 | NNE |
| 12/19/2022 ¹ | 30.30 | 44.40 | NNW |
| 12/20/2022 ¹ | 30.31 | 48.36 | E |
| 12/21/2022 ¹ | 30.20 | 50.77 | N |
| 01/17/2023 ¹ | 30.07 | 48.87 | NNE |
| 01/18/2023 ¹ | 30.16 | 49.90 | ESE |
| 01/19/2023 ¹ | 30.21 | 48.70 | NNW |
| 01/23/2023 ¹ | 30.20 | 53.48 | ENE |
| 01/24/2023 ¹ | 30.34 | 53.29 | ESE |
| 02/02/2023 ¹ | 30.23 | 50.22 | ESE |
| 02/06/2023 ¹ | 30.35 | 50.98 | E |
| 02/07/2023 ¹ | 30.34 | 51.78 | E |
| 02/08/2023 ¹ | 30.31 | 53.27 | E |
| 02/09/2023 ¹ | 30.27 | 55.79 | ENE |
| 02/13/2023 ¹ | 29.96 | 50.55 | WNW |
| 02/14/2023 ¹ | 30.09 | 47.83 | WNW |
| 02/15/2023 ¹ | 30.25 | 47.93 | NNW |
| 02/16/2023 ¹ | 30.24 | 48.58 | SE |
| 02/20/2023 ¹ | 30.05 | 54.52 | WSW |
| 02/21/2023 ¹ | 29.79 | 47.61 | WNW |
| 02/22/2023 ¹ | 29.82 | 43.07 | WNW |
| 02/23/2023 ¹ | 29.85 | 44.76 | SSW |
| 03/01/2023 ¹ | 30.01 | 48.32 | NNW |
| 03/02/2023 ¹ | 30.16 | 51.09 | ESE |
| 03/06/2023 ¹ | 30.16 | 46.84 | SSE |
| 03/07/2023 ¹ | 30.14 | 47.89 | SSW |
| 03/08/2023 ¹ | 30.14 | 47.45 | SE |
| 03/09/2023 ¹ | 29.97 | 47.73 | SE |
| 03/13/2023 ¹ | 29.96 | 57.83 | SSE |
| 03/15/2023 ¹ | 30.01 | 50.52 | WSW |
| 03/16/2023 ¹ | 30.08 | 52.34 | SE |
| 03/20/2023 ¹ | 29.77 | 49.75 | SW |
| 03/22/2023 ¹ | 30.00 | 51.79 | NW |
| 03/23/2023 ¹ | 30.25 | 51.43 | NW |
| 03/27/2023 ¹ | 30.10 | 51.34 | SSE |
| 03/30/2023 ¹ | 29.99 | 51.08 | E |

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

| Start Date | Ambient Pressure (in Hg) | Ambient Temperature (°F) | Prevalent Wind Direction |
|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 04/03/2023 ¹ | 30.15 | 47.46 | WNW |
| 04/04/2023 ¹ | 30.21 | 48.40 | W |
| 04/05/2023 ¹ | 30.18 | 49.79 | WSW |
| 04/06/2023 ¹ | 30.13 | 54.30 | ESE |
| 04/10/2023 ¹ | 30.15 | 55.99 | WSW |
| 04/11/2023 ² | 30.14 | 53.33 | WSW |
| 04/12/2023 ² | 30.00 | 52.13 | W |
| 04/13/2023 ² | 29.98 | 55.71 | NNE |
| 04/17/2023 ¹ | 30.03 | 50.96 | WNW |
| 04/18/2023 ¹ | 30.12 | 50.69 | WNW |
| 04/19/2023 ¹ | 30.25 | 52.08 | WNW |
| 04/20/2023 ¹ | 30.32 | 58.36 | SW |
| 04/24/2023 ¹ | 29.97 | 53.17 | WSW |
| 04/25/2023 ¹ | 29.95 | 55.21 | WSW |
| 04/26/2023 ¹ | 29.95 | 55.43 | W |
| 04/27/2023 ¹ | 29.94 | 64.51 | NW |
| 05/01/2023 ² | 29.88 | 52.10 | WSW |
| 05/02/2023 ² | 29.89 | 52.56 | ESE |
| 05/04/2023 ² | 29.97 | 55.34 | SW |
| 05/08/2023 ² | 30.18 | 57.51 | WSW |
| 05/09/2023 ² | 30.09 | 56.20 | W |
| 05/10/2023 ² | 30.17 | 54.81 | WSW |
| 05/11/2023 ² | 30.17 | 50.77 | SW |
| 05/15/2023 ¹ | 30.07 | 56.20 | W |
| 05/16/2023 ¹ | 29.99 | 55.57 | WSW |
| 05/17/2023 ² | 30.01 | 54.94 | WSW |
| 05/18/2023 ² | 30.05 | 54.90 | WSW |
| 05/22/2023 ¹ | 29.88 | 56.00 | SW |
| 05/23/2023 ¹ | 29.87 | 55.59 | SW |
| 05/24/2023 ¹ | 29.89 | 54.76 | SW |
| 05/25/2023 ¹ | 29.88 | 56.02 | SW |
| 05/30/2023 ¹ | 30.04 | 57.05 | SW |
| 05/31/2023 ¹ | 29.97 | 55.47 | SW |
| 06/01/2023 ¹ | 29.99 | 59.03 | WSW |
| 06/05/2023 ² | 29.89 | 60.10 | WSW |
| 06/06/2023 ² | 29.95 | 60.40 | SSW |
| 06/07/2023 ² | 30.07 | 60.30 | WSW |
| 06/08/2023 ² | 30.12 | 62.20 | W |
| 06/12/2023 ² | 30.09 | 59.73 | SW |
| 06/13/2023 ² | 30.08 | 57.89 | WSW |
| 06/14/2023 ² | 29.96 | 58.08 | WSW |

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

| Start Date | Ambient Pressure (in Hg) | Ambient Temperature (°F) | Prevalent Wind Direction |
|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 06/15/2023 ² | 29.99 | 60.50 | NNE |
| 06/19/2023 ² | 30.13 | 57.99 | W |
| 06/20/2023 ² | 30.18 | 58.41 | WSW |
| 06/21/2023 ² | 30.07 | 56.49 | WSW |
| 06/22/2023 ² | 30.03 | 60.34 | SW |
| 06/26/2023 ² | 30.06 | 55.39 | SW |
| 06/27/2023 ² | 30.00 | 54.37 | SW |
| 06/28/2023 ² | 30.02 | 54.54 | SW |
| 06/29/2023 ² | 30.04 | 57.98 | NE |
| 07/05/2023 ² | 30.03 | 59.48 | WSW |
| 07/06/2023 ² | 30.03 | 60.47 | WSW |
| 07/10/2023 ² | 30.05 | 55.93 | WSW |
| 07/11/2023 ² | 30.06 | 58.63 | WSW |
| 07/12/2023 ² | 30.09 | 56.44 | WSW |
| 07/13/2023 ² | 30.10 | 60.07 | WSW |
| 07/17/2023 ² | 29.96 | 63.50 | WSW |
| 07/18/2023 ² | 30.05 | 58.01 | WSW |
| 07/19/2023 ² | 30.10 | 58.10 | WSW |
| 07/20/2023 ² | 30.11 | 62.90 | W |
| 07/24/2023 ² | 30.14 | 59.26 | WSW |
| 07/25/2023 ² | 30.09 | 61.32 | WSW |
| 07/26/2023 ² | 30.06 | 59.68 | WSW |
| 07/27/2023 ² | 30.10 | 59.57 | WSW |
| 07/31/2023 ² | 30.07 | 60.22 | WSW |
| 08/01/2023 ² | 30.11 | 58.98 | WSW |
| 08/02/2023 ² | 30.13 | 58.06 | WSW |
| 08/03/2023 ² | 30.18 | 59.31 | WSW |
| 08/07/2023 ³ | 29.96 | 61.28 | W |
| 08/08/2023 ³ | 29.96 | 61.41 | W |
| 08/09/2023 ³ | 29.93 | 60.81 | W |
| 08/10/2023 ³ | 29.95 | 64.00 | W |
| 08/14/2023 ³ | 30.01 | 63.89 | WSW |
| 08/15/2023 ² | 30.04 | 63.42 | WSW |
| 08/16/2023 ² | 29.97 | 63.81 | W |
| 08/17/2023 ² | 29.94 | 65.92 | WSW |
| 08/21/2023 ² | 30.04 | 68.32 | SSW |
| 08/22/2023 ² | 30.05 | 66.98 | WSW |
| 08/23/2023 ² | 29.95 | 72.72 | W |

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

| Start Date | Ambient Pressure (in Hg) | Ambient Temperature (°F) | Prevalent Wind Direction |
|-------------------------|--------------------------|--------------------------|--------------------------|
| 08/24/2023 ² | 29.99 | 70.77 | WSW |
| 08/28/2023 ² | 30.06 | 62.54 | WSW |
| 08/29/2023 ² | 30.03 | 66.82 | S |
| 08/30/2023 ² | 29.89 | 69.37 | WSW |
| 08/31/2023 ² | 29.85 | 65.38 | WSW |
| 09/05/2023 ² | 29.97 | 61.19 | WSW |
| 09/06/2023 ² | 30.04 | 62.45 | WSW |
| 09/07/2023 ² | 30.06 | 62.73 | W |
| 09/11/2023 ² | 30.05 | 62.67 | SW |
| 09/12/2023 ² | 30.02 | 61.28 | SW |
| 09/13/2023 ² | 30.00 | 61.74 | W |
| 09/14/2023 ² | 30.02 | 64.17 | SSE |
| 09/18/2023 ² | 30.07 | 63.23 | WSW |
| 09/19/2023 ² | 29.99 | 61.23 | WSW |
| 09/20/2023 ³ | 29.85 | 60.44 | W |
| 09/21/2023 ² | 29.97 | 63.43 | ENE |
| 09/25/2023 ² | 30.16 | 67.62 | SSW |
| 09/26/2023 ² | 30.19 | 63.12 | WSW |
| 09/27/2023 ² | 30.08 | 62.81 | WSW |
| 09/28/2023 ³ | 29.96 | 65.16 | SE |
| 10/02/2023 ³ | 30.03 | 60.24 | W |
| 10/03/2023 ³ | 29.96 | 62.67 | W |
| 10/04/2023 ³ | 29.97 | 75.00 | NNE |
| 10/05/2023 ³ | 30.03 | 78.62 | ENE |
| 10/09/2023 ³ | 29.85 | 62.88 | SE |
| 10/10/2023 ³ | 29.85 | 61.42 | W |
| 10/11/2023 ³ | 29.87 | 61.13 | W |
| 10/12/2023 ³ | 29.87 | 66.57 | NNE |
| 10/16/2023 ³ | 30.08 | 63.27 | W |
| 10/17/2023 ³ | 29.98 | 61.34 | W |
| 10/18/2023 ³ | 29.94 | 71.58 | N |
| 10/19/2023 ³ | 29.96 | 76.27 | NNE |

Notes:

¹Data collected using wunderground.com from Bayview Manor - KCASANFR1775

²Data collected using wunderground.com from APTIM HPNS - KCASANFR1504

³Data collected using wunderground.com from Bayview - KCASANFR1508

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

S = South

N = North

W = West

ATTACHMENT 2

ASBESTOS MONITORING RESULTS

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Attachment 2: Asbestos Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | | | Asbestos Fibers | | |
|--------------------------------------|------------------------------|--------------------|-------------------------|-----------------------|--------------------------------|-------------------|---|---------------------|
| Sample ID | Sample End Date ¹ | Monitoring Station | Ave Flow Rate (l/min) | Duration of Run (min) | Total Air Volume Monitored (L) | Asbestos (fibers) | Conc Asbestos (fibers/cm ³) | Exceedance (Yes/No) |
| Action Level | | | | | | | 0.100 (fibers/cm ³) | |
| MSC01-120622 | 12/07/22 | 1 | 3.7 | 1,334 | 4935 | 8.5 | 0.001 | No |
| MSC02-120622 | 12/07/22 | 2 | 3.7 | 1,353 | 5006 | 9.0 | 0.001 | No |
| MSC01-120722 | 12/08/22 | 1 | 3.5 | 1,443 | 5050 | 6.0 | 0.001 | No |
| MSC02-120722 | 12/08/22 | 2 | 3.7 | 1,442 | 5335 | 3.0 | < 0.001 | No |
| MSC01-120822 | 12/08/22 ² | 1 | 3.3 | 382 | 1260 | 5.0 | < 0.002 | No |
| MSC02-120822 | 12/08/22 ² | 2 | 3.4 | 383 | 1302 | 3.0 | < 0.002 | No |
| MSC01-121222 | 12/13/22 | 1 | 3.6 | 1,435 | 5166 | 9.5 | 0.001 | No |
| MSC02-121222 | 12/13/22 | 2 | 3.3 | 1,433 | 4728 | 5.5 | 0.001 | No |
| MSC01-121322 | 12/14/22 | 1 | 3.5 | 1,454 | 5089 | 5.0 | < 0.001 | No |
| MSC02-121322 | 12/14/22 | 2 | 3.3 | 1,456 | 4804 | 5.5 | 0.001 | No |
| MSC01-121422 | 12/15/22 | 1 | 3.6 | 1,434 | 5162 | 7.5 | 0.001 | No |
| MSC02-121422 | 12/15/22 | 2 | 3.3 | 1,432 | 4725 | 4.0 | < 0.001 | No |
| MSC01-121922 | 12/20/22 | 1 | 3.6 | 1,439 | 5180 | 4.0 | < 0.001 | No |
| MSC02-121922 | 12/20/22 | 2 | 3.4 | 1,430 | 4862 | 0.5 | < 0.001 | No |
| MSC01-122022 | 12/21/22 | 1 | 3.7 | 1,430 | 5291 | 3.0 | < 0.001 | No |
| MSC02-122022 | 12/21/22 | 2 | 3.7 | 1,443 | 5339 | 4.5 | < 0.001 | No |
| MSC01-122122 | 12/22/22 | 1 | 3.7 | 1,446 | 5350 | 7.0 | 0.001 | No |
| MSC02-122122 | 12/22/22 | 2 | 3.7 | 1,447 | 5353 | 8.0 | 0.001 | No |
| MSC01-011723 | 01/18/23 | 1 | 3.5 | 1,338 | 4683 | 21.0 | 0.002 | No |
| MSC02-011723 | 01/18/23 | 2 | 3.4 | 1,383 | 4702 | 13.0 | 0.001 | No |
| MSC01-011823 | 01/19/23 | 1 | 3.7 | 1,444 | 5342 | 16.0 | 0.001 | No |
| MSC02-011823 | 01/19/23 | 2 | 3.2 | 1,438 | 4601 | 16.5 | 0.002 | No |
| MSC01-011923 | 01/19/23 ² | 1 | 3.2 | 331 | 1059 | 6.5 | 0.003 | No |
| MSC02-011923 | 01/19/23 ² | 2 | 3.4 | 323 | 1098 | 11.5 | 0.005 | No |
| MSC01-012323 | 01/24/23 | 1 | 3.6 | 1,450 | 5220 | 12.5 | 0.001 | No |
| MSC02-012323 | 01/24/23 | 2 | 3.6 | 1,456 | 5241 | 13.0 | 0.001 | No |
| MSC01-012423 | 01/25/23 | 1 | 3.3 | 1,446 | 4771 | 19.5 | 0.002 | No |
| MSC02-012423 | 01/25/23 | 2 | 3.3 | 1,446 | 4771 | 13.5 | 0.001 | No |
| MSC01-020223 | 02/02/23 ² | 1 | 3.6 | 438 | 1576 | 10.0 | 0.003 | No |
| MSC02-020223 | 02/02/23 ² | 2 | 3.3 | 458 | 1511 | 13.0 | 0.004 | No |
| MSC01-020623 | 02/07/23 | 1 | 3.2 | 1,428 | 4569 | 9.5 | 0.001 | No |
| MSC02-020623 | 02/07/23 | 2 | 3.3 | 1,431 | 4722 | 9.0 | 0.001 | No |
| MSC01-020723 | 02/08/23 | 1 | 3.5 | 1,470 | 5145 | 10.0 | 0.001 | No |
| MSC02-020723 | 02/08/23 | 2 | 3.5 | 1,464 | 5124 | 11.5 | 0.001 | No |
| MSC01-020823 | 02/09/23 | 1 | 3.3 | 1,418 | 4679 | 14.5 | 0.002 | No |
| MSC02-020823 | 02/09/23 | 2 | 3.5 | 1,419 | 4966 | 9.5 | 0.001 | No |
| MSC01-020923 | 02/09/23 ² | 1 | 3.2 | 382 | 1222 | 9.5 | 0.004 | No |
| MSC02-020923 | 02/09/23 ² | 2 | 3.5 | 384 | 1344 | 10.0 | 0.004 | No |
| MSC01-021323 | 02/14/23 | 1 | 3.6 | 1,448 | 5212 | 10.0 | 0.001 | No |
| MSC02-021323 | 02/14/23 | 2 | 3.7 | 1,472 | 5446 | 10.0 | 0.001 | No |
| MSC01-021423 | 02/15/23 | 1 | 3.3 | 1,429 | 4715 | 15.0 | 0.002 | No |
| MSC02-021423 | 02/15/23 | 2 | 3.7 | 1,406 | 5202 | 12.0 | 0.001 | No |
| MSC01-021523 | 02/16/23 | 1 | 3.5 | 1,447 | 5064 | 12.0 | 0.001 | No |
| MSC02-021523 | 02/16/23 | 2 | 3.4 | 1,446 | 4916 | 12.0 | 0.001 | No |
| MSC01-021623 | 02/16/23 ² | 1 | 3.8 | 396 | 1504 | 10.5 | 0.003 | No |
| MSC02-021623 | 02/16/23 ² | 2 | 3.6 | 399 | 1436 | 11.0 | 0.001 | No |
| MSC01-022023 | 02/21/23 | 1 | 3.7 | 1,440 | 5328 | 15.5 | 0.001 | No |
| MSC02-022023 | 02/21/23 | 2 | 3.7 | 1,424 | 5268 | 16.0 | 0.001 | No |
| MSC01-022123 | 02/22/23 | 1 | 3.3 | 1,456 | 4804 | 14.0 | 0.001 | No |
| MSC02-022123 | 02/22/23 | 2 | 3.5 | 1,459 | 5106 | 26.0 | 0.002 | No |
| MSC01-022223 | 02/23/23 | 1 | 3.1 | 1,424 | 4414 | 12.5 | 0.001 | No |
| MSC02-022223 | 02/23/23 | 2 | 3.2 | 1,417 | 4534 | 12.5 | 0.001 | No |
| MSC01-022323 | 02/23/23 ² | 1 | 3.3 | 489 | 1613 | 7.0 | 0.002 | No |
| MSC02-022323 | 02/23/23 ² | 2 | 3.2 | 494 | 1580 | 7.0 | 0.002 | No |
| MSC01-030123 | 03/02/23 | 1 | 3.4 | 1,427 | 4851 | 18.0 | 0.002 | No |
| MSC02-030123 | 03/02/23 | 2 | 3.2 | 1,422 | 4550 | 13.0 | 0.001 | No |
| MSC01-030223 | 03/02/23 ² | 1 | 3.7 | 423 | 1565 | 16.5 | 0.005 | No |
| MSC02-030223 | 03/02/23 ² | 2 | 3.4 | 436 | 1482 | 13.0 | 0.004 | No |
| MSC01-030623 | 03/07/23 | 1 | 3.3 | 1,428 | 4712 | 10.0 | 0.001 | No |
| MSC02-030623 | 03/07/23 | 2 | 3.3 | 1,422 | 4692 | 9.5 | 0.001 | No |
| MSC01-030723 | 03/08/23 | 1 | 3.6 | 1,430 | 5148 | 14.5 | 0.001 | No |
| MSC02-030723 | 03/08/23 | 2 | 3.1 | 1,433 | 4442 | 10.0 | 0.001 | No |
| MSC01-030823 | 03/09/23 | 1 | 3.1 | 1,471 | 4560 | 15.5 | 0.002 | No |
| MSC02-030823 | 03/09/23 | 2 | 3.2 | 1,470 | 4704 | 11.5 | 0.001 | No |

Attachment 2: Asbestos Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | | | Asbestos Fibers | | |
|--------------------------------------|------------------------------|--------------------|-------------------------|-----------------------|--------------------------------|-------------------|---|---------------------|
| Sample ID | Sample End Date ¹ | Monitoring Station | Ave Flow Rate (l/min) | Duration of Run (min) | Total Air Volume Monitored (L) | Asbestos (fibers) | Conc Asbestos (fibers/cm ³) | Exceedance (Yes/No) |
| Action Level | | | | | | | 0.100 (fibers/cm ³) | |
| MSC01-030923 | 03/09/23 ² | 1 | 3.1 | 372 | 1153 | 12.5 | 0.005 | No |
| MSC02-030923 | 03/09/23 ² | 2 | 3.1 | 387 | 1199 | 7.0 | 0.003 | No |
| MSC01-031323 | 03/14/23 | 1 | 3.6 | 1,433 | 5158 | 12.5 | 0.001 | No |
| MSC02-031323 | 03/14/23 | 2 | 3.3 | 1,444 | 4765 | 9.0 | 0.001 | No |
| MSC01-031523 | 03/16/23 | 1 | 3.5 | 1,455 | 5092 | 16.5 | 0.002 | No |
| MSC02-031523 | 03/16/23 | 2 | 3.6 | 1,434 | 5162 | 9.0 | 0.001 | No |
| MSC01-031623 | 03/16/23 ² | 1 | 3.3 | 423 | 1395 | 8.0 | 0.003 | No |
| MSC02-031623 | 03/16/23 ² | 2 | 3.6 | 423 | 1558 | 13.5 | 0.004 | No |
| MSC01-032023 | 03/21/23 | 1 | 3.7 | 1,450 | 5365 | 14.5 | 0.001 | No |
| MSC02-032023 | 03/21/23 | 2 | 3.7 | 1,450 | 5365 | 22.0 | 0.002 | No |
| MSC01-032223 | 03/23/23 | 1 | 3.6 | 1,354 | 4874 | 6.5 | 0.001 | No |
| MSC02-032223 | 03/23/23 | 2 | 3.7 | 1,390 | 5143 | 10.0 | 0.001 | No |
| MSC01-032323 | 03/23/23 ² | 1 | 3.6 | 430 | 1539 | 10.0 | 0.003 | No |
| MSC02-032323 | 03/23/23 ² | 2 | 3.6 | 423 | 1531 | 8.0 | 0.003 | No |
| MSC01-032723 | 3/28/23 | 1 | 3.6 | 1,437 | 5173 | 14.5 | 0.001 | No |
| MSC02-032723 | 3/28/23 | 2 | 3.7 | 1,444 | 5342 | 12.0 | 0.001 | No |
| MSC01-033023 | 3/30/23 ² | 1 | 3.3 | 447 | 1564 | 10.0 | 0.003 | No |
| MSC02-033023 | 3/30/23 ² | 2 | 3.6 | 463 | 1713 | 11.0 | 0.003 | No |
| MSC01-040323 | 04/04/23 | 1 | 3.5 | 1,458 | 5103 | 18.5 | 0.002 | No |
| MSC02-040323 | 04/04/23 | 2 | 3.6 | 1,438 | 5176 | 12.5 | 0.001 | No |
| MSC01-040423 | 04/05/23 | 1 | 3.2 | 1,443 | 4617 | 16.0 | 0.002 | No |
| MSC02-040423 | 04/05/23 | 2 | 3.5 | 1,447 | 5064 | 14.0 | 0.001 | No |
| MSC01-040523 | 04/06/23 | 1 | 3.5 | 1,440 | 5040 | 21.0 | 0.002 | No |
| MSC02-040523 | 04/06/23 | 2 | 3.8 | 1,435 | 5453 | 13.0 | 0.001 | No |
| MSC01-040623 | 04/06/23 ² | 1 | 3.3 | 480 | 1584 | 10.5 | 0.003 | No |
| MSC02-040623 | 04/06/23 ² | 2 | 3.7 | 489 | 1809 | 12.5 | 0.003 | No |
| MSC01-041023 | 04/11/23 | 1 | 3.4 | 1,461 | 4967 | 15.0 | 0.001 | No |
| MSC02-041023 | 04/11/23 | 2 | 3.1 | 1,464 | 4538 | 21.5 | 0.002 | No |
| MSC01-041123 | 04/12/23 | 1 | 3.3 | 1,415 | 4669 | 16.0 | 0.002 | No |
| MSC02-041123 | 04/12/23 | 2 | 3.2 | 1,407 | 4502 | 16.0 | 0.002 | No |
| MSC01-041223 | 04/13/23 | 1 | 3.3 | 1,436 | 4738 | 14.0 | 0.001 | No |
| MSC02-041223 | 04/13/23 | 2 | 3.2 | 1,442 | 4614 | 27.0 | 0.003 | No |
| MSC01-041323 | 04/13/23 ² | 1 | 3.2 | 463 | 1481 | 20.0 | 0.007 | No |
| MSC02-041323 | 04/13/23 ² | 2 | 3.3 | 461 | 1521 | 19.5 | 0.006 | No |
| MSC01-041723 | 04/18/23 | 1 | 3.6 | 1,454 | 5234 | 10.5 | 0.001 | No |
| MSC02-041723 | 04/18/23 | 2 | 3.3 | 1,445 | 4768 | 11.0 | 0.001 | No |
| MSC01-041823 | 04/19/23 | 1 | 3.0 | 1,419 | 4257 | 14.0 | 0.002 | No |
| MSC02-041823 | 04/19/23 | 2 | 3.1 | 1,423 | 4411 | 14.0 | 0.002 | No |
| MSC01-041923 | 04/20/23 | 1 | 3.4 | 1,449 | 4926 | 20.5 | 0.002 | No |
| MSC02-041923 | 04/20/23 | 2 | 3.5 | 1,457 | 5099 | 11.0 | 0.001 | No |
| MSC01-042023 | 04/20/23 ² | 1 | 3.4 | 459 | 1560 | 14.5 | 0.005 | No |
| MSC02-042023 | 04/20/23 ² | 2 | 3.1 | 498 | 1543 | 17.5 | 0.006 | No |
| MSC01-042423 | 04/25/23 | 1 | 3.2 | 1,435 | 4592 | 24.0 | 0.003 | No |
| MSC02-042423 | 04/25/23 | 2 | 3.2 | 1,438 | 4601 | 17.0 | 0.002 | No |
| MSC01-042523 | 04/26/23 | 1 | 3.2 | 1,436 | 4595 | 20.5 | 0.002 | No |
| MSC02-042523 | 04/26/23 | 2 | 3.2 | 1,435 | 4592 | 12.0 | 0.001 | No |
| MSC01-042623 | 04/27/23 | 1 | 3.6 | 1,437 | 5173 | 24.5 | 0.002 | No |
| MSC02-042623 | 04/27/23 | 2 | 3.1 | 1,438 | 4457 | 22.0 | 0.002 | No |
| MSC01-042723 | 04/27/23 ² | 1 | 3.1 | 455 | 1410 | 19.0 | 0.007 | No |
| MSC02-042723 | 04/27/23 ² | 2 | 3.1 | 431 | 1336 | 16.5 | 0.006 | No |
| MSC01-050123 | 05/02/23 | 1 | 3.6 | 1,475 | 5310 | 20.5 | 0.002 | No |
| MSC02-050123 | 05/02/23 | 2 | 3.2 | 1,461 | 4675 | 17.5 | 0.002 | No |
| MSC01-050223 | 05/03/23 | 1 | 3.9 | 1,456 | 5678 | 22.0 | 0.002 | No |
| MSC02-050223 | 05/03/23 | 2 | 3.3 | 1,479 | 4880 | 19.0 | 0.002 | No |
| MSC01-050423 | 05/04/23 ² | 1 | 3.1 | 507 | 1571 | 22.0 | 0.007 | No |
| MSC02-050423 | 05/04/23 ² | 2 | 3.2 | 481 | 1539 | 26.0 | 0.008 | No |
| MSC01-050823 | 05/09/23 | 1 | 3.6 | 1,428 | 5140 | 13.5 | 0.001 | No |
| MSC02-050823 | 05/09/23 | 2 | 3.3 | 1,441 | 4755 | 10.5 | 0.001 | No |
| MSC01-050923 | 05/10/23 | 1 | 3.4 | 1,441 | 4899 | 17.0 | 0.002 | No |
| MSC02-050923 | 05/10/23 | 2 | 3.2 | 1,439 | 4604 | 11.5 | 0.001 | No |
| MSC01-051023 | 05/11/23 | 1 | 3.0 | 1,466 | 4398 | 22.0 | 0.002 | No |
| MSC02-051023 | 05/11/23 | 2 | 3.2 | 1,435 | 4592 | 14.0 | 0.001 | No |
| MSC01-051123 | 05/11/23 ² | 1 | 3.1 | 461 | 1429 | 23.0 | 0.008 | No |
| MSC02-051123 | 05/11/23 ² | 2 | 3.2 | 487 | 1558 | 15.5 | 0.005 | No |

Attachment 2: Asbestos Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | | | Asbestos Fibers | | |
|--------------------------------------|------------------------------|--------------------|-------------------------|-----------------------|--------------------------------|---------------------------------|---|---------------------|
| Sample ID | Sample End Date ¹ | Monitoring Station | Ave Flow Rate (l/min) | Duration of Run (min) | Total Air Volume Monitored (L) | Asbestos (fibers) | Conc Asbestos (fibers/cm ³) | Exceedance (Yes/No) |
| Action Level | | | | | | 0.100 (fibers/cm ³) | | |
| MSC01-051523 | 05/16/23 | 1 | 3.1 | 1,483 | 4597 | 19.5 | 0.002 | No |
| MSC02-051523 | 05/16/23 | 2 | 3.2 | 1,459 | 4668 | 20.0 | 0.002 | No |
| MSC01-051623 | 05/17/23 | 1 | 3.3 | 1,416 | 4672 | 15.0 | 0.002 | No |
| MSC02-051623 | 05/17/23 | 2 | 3.0 | 1,415 | 4245 | 16.0 | 0.002 | No |
| MSC01-051723 | 05/18/23 | 1 | 3.1 | 1,455 | 4510 | 17.0 | 0.002 | No |
| MSC02-051723 | 05/18/23 | 2 | 3.0 | 1,455 | 4365 | 21.0 | 0.002 | No |
| MSC01-051823 | 05/18/23 ² | 1 | 2.3 | 430 | 989 | 16.5 | 0.008 | No |
| MSC02-051823 | 05/18/23 ² | 2 | 3.1 | 429 | 1329 | 20.0 | 0.007 | No |
| MSC01-052223 | 05/23/23 | 1 | 3.2 | 1,465 | 4668 | 14.5 | 0.002 | No |
| MSC02-052223 | 05/23/23 | 2 | 3.1 | 1,449 | 4491 | 24.5 | 0.003 | No |
| MSC01-052323 | 05/24/23 | 1 | 3.2 | 1,423 | 4553 | 26.5 | 0.003 | No |
| MSC02-052323 | 05/24/23 | 2 | 2.9 | 1,428 | 4141 | 17.5 | 0.002 | No |
| MSC01-052423 | 05/25/23 | 1 | 3.1 | 1,423 | 4411 | 21.0 | 0.002 | No |
| MSC02-052423 | 05/25/23 | 2 | 2.9 | 1,452 | 4210 | 16.0 | 0.002 | No |
| MSC01-052523 | 05/25/23 ² | 1 | 3.2 | 458 | 1465 | 27.5 | 0.009 | No |
| MSC02-052523 | 05/25/23 ² | 2 | 3.1 | 465 | 1441 | 31.5 | 0.011 | No |
| MSC01-053023 | 05/31/23 | 1 | 3.7 | 1,427 | 5279 | 20.5 | 0.002 | No |
| MSC02-053023 | 05/31/23 | 2 | 3.2 | 1,433 | 4585 | 29.0 | 0.003 | No |
| MSC01-053123 | 06/01/23 | 1 | 3.4 | 1,447 | 4919 | 17.0 | 0.002 | No |
| MSC02-053123 | 06/01/23 | 2 | 3.2 | 1,444 | 4620 | 16.5 | 0.002 | No |
| MSC01-060123 | 06/01/23 ² | 1 | 3.4 | 501 | 1703 | 18.0 | 0.005 | No |
| MSC02-060123 | 06/01/23 ² | 2 | 3.2 | 493 | 1577 | 17.5 | 0.005 | No |
| MSC01-060523 | 06/06/23 | 1 | 3.7 | 1,433 | 5302 | 17.0 | 0.002 | No |
| MSC02-060523 | 06/06/23 | 2 | 3.2 | 1,431 | 4579 | 12.0 | 0.001 | No |
| MSC01-060623 | 06/07/23 | 1 | 3.6 | 1,433 | 5158 | 17.5 | 0.002 | No |
| MSC02-060623 | 06/07/23 | 2 | 3.3 | 1,434 | 4732 | 14.0 | 0.001 | No |
| MSC01-060723 | 06/08/23 | 1 | 3.7 | 1,457 | 5390 | 24.5 | 0.002 | No |
| MSC02-060723 | 06/08/23 | 2 | 3.4 | 1,453 | 4940 | 16.0 | 0.002 | No |
| MSC01-060823 | 06/08/23 ² | 1 | 3.6 | 423 | 1522 | 14.0 | 0.005 | No |
| MSC02-060823 | 06/08/23 ² | 2 | 3.5 | 409 | 1431 | 18.5 | 0.006 | No |
| MSC01-061223 | 06/13/23 | 1 | 3.5 | 1,439 | 5036 | 12.5 | 0.001 | No |
| MSC02-061223 | 06/13/23 | 2 | 3.7 | 1,442 | 5335 | 19.0 | 0.002 | No |
| MSC01-061323 | 06/14/23 | 1 | 3.4 | 1,426 | 4848 | 12.5 | 0.001 | No |
| MSC02-061323 | 06/14/23 | 2 | 3.2 | 1,426 | 4563 | 12.5 | 0.001 | No |
| MSC01-061423 | 06/15/23 | 1 | 3.5 | 1,442 | 5047 | 13.5 | 0.001 | No |
| MSC02-061423 | 06/15/23 | 2 | 3.2 | 1,444 | 4620 | 20.0 | 0.002 | No |
| MSC01-061523 | 06/15/23 ² | 1 | 3.2 | 356 | 1139 | 19.0 | 0.002 | No |
| MSC02-061523 | 06/15/23 ² | 2 | 3.6 | 370 | 1332 | 15.0 | 0.001 | No |
| MSC01-061923 | 06/20/23 | 1 | 3.4 | 1,382 | 4698 | 17.5 | 0.002 | No |
| MSC02-061923 | 06/20/23 | 2 | 3.2 | 1,455 | 4656 | 18.0 | 0.002 | No |
| MSC01-062023 | 06/21/23 | 1 | 3.6 | 1,441 | 5187 | 24.5 | 0.002 | No |
| MSC02-062023 | 06/21/23 | 2 | 3.2 | 1,432 | 4582 | 13.0 | 0.001 | No |
| MSC01-062123 | 06/22/23 | 1 | 3.5 | 1,429 | 5001 | 14.0 | 0.001 | No |
| MSC02-062123 | 06/22/23 | 2 | 3.2 | 1,430 | 4576 | 15.0 | 0.002 | No |
| MSC01-062223 | 06/22/23 ² | 1 | 3.4 | 506 | 1720 | 17.5 | 0.005 | No |
| MSC02-062223 | 06/22/23 ² | 2 | 3.2 | 492 | 1574 | 18.0 | 0.006 | No |
| MSC01-062623 | 06/27/23 | 1 | 3.6 | 1,420 | 5112 | 15.0 | 0.001 | No |
| MSC02-062623 | 06/27/23 | 2 | 3.6 | 1,417 | 5101 | 16.5 | 0.002 | No |
| MSC01-062723 | 06/28/23 | 1 | 3.4 | 1,440 | 4896 | 16.0 | 0.002 | No |
| MSC02-062723 | 06/28/23 | 2 | 3.4 | 1,441 | 4899 | 12.0 | 0.001 | No |
| MSC01-062823 | 06/29/23 | 1 | 3.5 | 1,432 | 5012 | 22.5 | 0.002 | No |
| MSC02-062823 | 06/29/23 | 2 | 3.2 | 1,461 | 4675 | 12.5 | 0.001 | No |
| MSC01-062923 | 06/29/23 ² | 1 | 3.7 | 342 | 1265 | 14.5 | 0.006 | No |
| MSC02-062923 | 06/29/23 ² | 2 | 3.3 | 326 | 1075 | 15.5 | 0.007 | No |
| MSC01-070523 | 07/06/23 | 1 | 3.6 | 1,431 | 5151 | 19.5 | 0.002 | No |
| MSC02-070523 | 07/06/23 | 2 | 3.4 | 1,422 | 4834 | 18.0 | 0.002 | No |
| MSC01-070623 | 07/06/23 ² | 1 | 3.6 | 513 | 1846 | 15.0 | 0.004 | No |
| MSC02-070623 | 07/06/23 ² | 2 | 3.3 | 486 | 1603 | 17.5 | 0.005 | No |
| MSC01-071023 | 07/11/23 | 1 | 3.4 | 1,403 | 4770 | 8.0 | 0.001 | No |
| MSC02-071023 | 07/11/23 | 2 | 3.6 | 1,433 | 5158 | 16.5 | 0.002 | No |
| MSC01-071123 | 07/12/23 | 1 | 3.3 | 1,437 | 4742 | 16.0 | 0.002 | No |
| MSC02-071123 | 07/12/23 | 2 | 3.6 | 1,435 | 5166 | 14.5 | 0.001 | No |
| MSC01-071223 | 07/13/23 | 1 | 3.6 | 1,454 | 5234 | 19.5 | 0.002 | No |
| MSC02-071223 | 07/13/23 | 2 | 3.5 | 1,453 | 5085 | 17.0 | 0.002 | No |

Attachment 2: Asbestos Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | | | Asbestos Fibers | | |
|--------------------------------------|------------------------------|--------------------|-------------------------|-----------------------|--------------------------------|-------------------|---|---------------------|
| Sample ID | Sample End Date ¹ | Monitoring Station | Ave Flow Rate (l/min) | Duration of Run (min) | Total Air Volume Monitored (L) | Asbestos (fibers) | Conc Asbestos (fibers/cm ³) | Exceedance (Yes/No) |
| Action Level | | | | | | | 0.100 (fibers/cm ³) | |
| MSC01-071323 | 07/13/23 ² | 1 | 3.6 | 480 | 1728 | 11.0 | 0.003 | No |
| MSC02-071323 | 07/13/23 ² | 2 | 3.4 | 470 | 1598 | 19.5 | 0.006 | No |
| MSC01-071723 | 07/18/23 | 1 | 3.7 | 1,430 | 5291 | 26.0 | 0.002 | No |
| MSC02-071723 | 07/18/23 | 2 | 3.6 | 1,430 | 5148 | 10.5 | 0.001 | No |
| MSC01-071823 | 07/19/23 | 1 | 3.4 | 1,441 | 4899 | 17.5 | 0.002 | No |
| MSC02-071823 | 07/19/23 | 2 | 3.3 | 1,441 | 4755 | 9.5 | 0.001 | No |
| MSC01-071923 | 07/20/23 | 1 | 3.5 | 1,434 | 5019 | 5.5 | 0.001 | No |
| MSC02-071923 | 07/20/23 | 2 | 3.4 | 1,442 | 4902 | 6.5 | 0.001 | No |
| MSC01-072023 | 07/20/23 ² | 1 | 3.6 | 537 | 1933 | 7.5 | 0.002 | No |
| MSC02-072023 | 07/20/23 ² | 2 | 3.4 | 515 | 1751 | 10.0 | 0.003 | No |
| MSC01-072423 | 07/25/23 | 1 | 3.6 | 1,409 | 5072 | 18.0 | 0.002 | No |
| MSC02-072423 | 07/25/23 | 2 | 3.4 | 1,412 | 4800 | 13.5 | 0.001 | No |
| MSC01-072523 | 07/26/23 | 1 | 3.3 | 1,442 | 4758 | 11.5 | 0.001 | No |
| MSC02-072523 | 07/26/23 | 2 | 3.2 | 1,452 | 4646 | 11.0 | 0.001 | No |
| MSC01-072623 | 07/27/23 | 1 | 3.6 | 1,443 | 5194 | 23.0 | 0.002 | No |
| MSC02-072623 | 07/27/23 | 2 | 3.1 | 1,436 | 4451 | 12.0 | 0.001 | No |
| MSC01-072723 | 07/27/23 ² | 1 | 3.6 | 517 | 1861 | 8.5 | 0.002 | No |
| MSC02-072723 | 07/27/23 ² | 2 | 3.2 | 489 | 1564 | 9.0 | 0.003 | No |
| MSC01-073123 | 08/01/23 | 1 | 3.2 | 1,411 | 4515 | 8.0 | 0.001 | No |
| MSC02-073123 | 08/01/23 | 2 | 3.6 | 1,418 | 5104 | 6.0 | 0.001 | No |
| MSC01-080123 | 08/02/23 | 1 | 3.2 | 1,433 | 4585 | 14.0 | 0.001 | No |
| MSC02-080123 | 08/02/23 | 2 | 3.6 | 1,427 | 5137 | 12.0 | 0.001 | No |
| MSC01-080223 | 08/03/23 | 1 | 3.3 | 1,446 | 4771 | 11.5 | 0.001 | No |
| MSC02-080223 | 08/03/23 | 2 | 3.6 | 1,444 | 5198 | 7.5 | 0.001 | No |
| MSC01-080323 | 08/03/23 ² | 1 | 3.2 | 534 | 1708 | 10.5 | 0.003 | No |
| MSC02-080323 | 08/03/23 ² | 2 | 3.6 | 509 | 1832 | 11.0 | 0.003 | No |
| MSC01-080723 | 08/08/23 | 1 | 3.3 | 1,429 | 4715 | 12.0 | 0.001 | No |
| MSC02-080723 | 08/08/23 | 2 | 3.6 | 1,434 | 5162 | 15.5 | 0.001 | No |
| MSC01-080823 | 08/09/23 | 1 | 3.0 | 1,447 | 4341 | 16.0 | 0.002 | No |
| MSC02-080823 | 08/09/23 | 2 | 3.4 | 1,446 | 4916 | 10.0 | 0.001 | No |
| MSC01-080923 | 08/10/23 | 1 | 3.2 | 1,432 | 4582 | 13.5 | 0.001 | No |
| MSC02-080923 | 08/10/23 | 2 | 3.4 | 1,432 | 4868 | 11.5 | 0.001 | No |
| MSC01-081023 | 08/10/23 ² | 1 | 3.2 | 420 | 1344 | 13.5 | 0.005 | No |
| MSC02-081023 | 08/10/23 ² | 2 | 3.3 | 399 | 1316 | 15.5 | 0.006 | No |
| MSC01-081423 | 08/15/23 | 1 | 3.4 | 1,413 | 4804 | 8.0 | 0.001 | No |
| MSC02-081423 | 08/15/23 | 2 | 3.4 | 1,414 | 4807 | 8.0 | 0.001 | No |
| MSC01-081523 | 08/16/23 | 1 | 3.2 | 1,415 | 4528 | 6.5 | 0.001 | No |
| MSC02-081523 | 08/16/23 | 2 | 3.4 | 1,427 | 4851 | 5.0 | < 0.001 | No |
| MSC01-081623 | 08/17/23 | 1 | 3.5 | 1,426 | 4991 | 6.1 | 0.001 | No |
| MSC02-081623 | 08/17/23 | 2 | 3.3 | 1,450 | 4785 | 6.0 | 0.001 | No |
| MSC01-081723 | 08/17/23 ² | 1 | 3.4 | 489 | 1662 | 5.0 | < 0.002 | No |
| MSC02-081723 | 08/17/23 ² | 2 | 3.4 | 473 | 1608 | 6.0 | 0.002 | No |
| MSC01-082123 | 08/22/23 | 1 | 3.4 | 1,425 | 4845 | 4.0 | < 0.001 | No |
| MSC02-082123 | 08/22/23 | 2 | 3.2 | 1,421 | 4547 | 3.0 | < 0.001 | No |
| MSC01-082223 | 08/23/23 | 1 | 3.4 | 1,446 | 4916 | 8.0 | 0.001 | No |
| MSC02-082223 | 08/23/23 | 2 | 3.3 | 1,447 | 4775 | 3.0 | < 0.001 | No |
| MSC01-082323 | 08/24/23 | 1 | 3.5 | 1,437 | 5029 | 7.5 | 0.001 | No |
| MSC02-082323 | 08/24/23 | 2 | 3.2 | 1,438 | 4601 | 4.0 | < 0.001 | No |
| MSC01-082423 | 08/24/23 ² | 1 | 3.4 | 495 | 1683 | 5.0 | < 0.002 | No |
| MSC02-082423 | 08/24/23 ² | 2 | 3.2 | 471 | 1507 | 10.0 | 0.003 | No |
| MSC01-082823 | 08/29/23 | 1 | 3.7 | 1,413 | 5228 | 1.5 | < 0.001 | No |
| MSC02-082823 | 08/29/23 | 2 | 3.2 | 1,415 | 4528 | 4.0 | < 0.001 | No |
| MSC01-082923 | 08/30/23 | 1 | 3.6 | 1,430 | 5148 | 3.5 | < 0.001 | No |
| MSC02-082923 | 08/30/23 | 2 | 3.3 | 1,422 | 4692 | 3.0 | < 0.001 | No |
| MSC01-083023 | 08/31/23 | 1 | 3.3 | 1,477 | 4874 | 4.0 | < 0.001 | No |
| MSC02-083023 | 08/31/23 | 2 | 3.4 | 1,452 | 4936 | 1.0 | < 0.001 | No |
| MSC01-083123 | 08/31/23 ² | 1 | 3.2 | 401 | 1283 | 4.0 | < 0.002 | No |
| MSC02-083123 | 08/31/23 ² | 2 | 3.5 | 402 | 1407 | 3.0 | < 0.002 | No |
| MSC01-090523 | 09/06/23 | 1 | 3.2 | 1,433 | 4585 | 6.0 | 0.001 | No |
| MSC02-090523 | 09/06/23 | 2 | 3.2 | 1,428 | 4569 | 6.0 | 0.001 | No |
| MSC01-090623 | 09/07/23 | 1 | 3.2 | 1,446 | 4627 | 10.0 | 0.001 | No |
| MSC02-090623 | 09/07/23 | 2 | 3.2 | 1,443 | 4617 | 4.0 | < 0.001 | No |
| MSC01-090723 | 09/07/23 ² | 1 | 3.3 | 464 | 1531 | 7.5 | 0.002 | No |
| MSC02-090723 | 09/07/23 ² | 2 | 3.2 | 454 | 1452 | 3.0 | < 0.002 | No |

Attachment 2: Asbestos Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | | | Asbestos Fibers | | |
|--------------------------------------|------------------------------|--------------------|-------------------------|-----------------------|--------------------------------|-------------------|---|---------------------|
| Sample ID | Sample End Date ¹ | Monitoring Station | Ave Flow Rate (l/min) | Duration of Run (min) | Total Air Volume Monitored (L) | Asbestos (fibers) | Conc Asbestos (fibers/cm ³) | Exceedance (Yes/No) |
| Action Level | | | | | | | 0.100 (fibers/cm ³) | |
| MSC01-091123 | 09/12/23 | 1 | 3.3 | 1,440 | 4752 | 25.5 | 0.003 | No |
| MSC02-091123 | 09/12/23 | 2 | 3.7 | 1,441 | 5331 | 23.5 | 0.002 | No |
| MSC01-091223 | 09/13/23 | 1 | 3.2 | 1,447 | 4630 | 11.0 | 0.001 | No |
| MSC02-091223 | 09/13/23 | 2 | 3.5 | 1,449 | 5071 | 6.5 | 0.001 | No |
| MSC01-091323 | 09/14/23 | 1 | 3.1 | 1,437 | 4454 | 4.5 | < 0.001 | No |
| MSC02-091323 | 09/14/23 | 2 | 3.6 | 1,434 | 5162 | 3.5 | < 0.001 | No |
| MSC01-091423 | 09/14/23 ² | 1 | 3.4 | 495 | 1683 | 3.5 | < 0.002 | No |
| MSC02-091423 | 09/14/23 ² | 2 | 3.7 | 487 | 1801 | 4.0 | < 0.001 | No |
| MSC01-091823 | 09/19/23 | 1 | 3.3 | 1,425 | 4702 | 3.5 | < 0.001 | No |
| MSC02-091823 | 09/19/23 | 2 | 3.8 | 1,426 | 5418 | 3.0 | < 0.000 | No |
| MSC01-091923 | 09/20/23 | 1 | 3.9 | 1,441 | 5619 | 2.5 | < 0.000 | No |
| MSC02-091923 | 09/20/23 | 2 | 3.6 | 1,439 | 5180 | 1.5 | < 0.001 | No |
| MSC01-092023 | 09/21/23 | 1 | 3.5 | 1,437 | 5029 | 7.0 | 0.001 | No |
| MSC02-092023 | 09/21/23 | 2 | 3.6 | 1,439 | 5180 | 2.5 | < 0.001 | No |
| MSC01-092123 | 09/21/23 ² | 1 | 3.4 | 490 | 1666 | 5.0 | < 0.002 | No |
| MSC02-092123 | 09/21/23 ² | 2 | 3.5 | 466 | 1631 | 6.0 | 0.002 | No |
| MSC01-092523 | 09/26/23 | 1 | 3.6 | 1,451 | 5223 | 9.5 | 0.001 | No |
| MSC02-092523 | 09/26/23 | 2 | 3.5 | 1,455 | 5092 | 3.0 | < 0.001 | No |
| MSC01-092623 | 09/27/23 | 1 | 3.5 | 1,452 | 5082 | 7.0 | 0.001 | No |
| MSC02-092623 | 09/27/23 | 2 | 3.6 | 1,450 | 5220 | 3.5 | < 0.001 | No |
| MSC01-092723 | 09/28/23 | 1 | 3.6 | 1,419 | 5108 | 2.0 | < 0.001 | No |
| MSC02-092723 | 09/28/23 | 2 | 3.7 | 1,420 | 5254 | 5.5 | 0.001 | No |
| MSC01-092823 | 09/28/23 ² | 1 | 3.3 | 442 | 1458 | 2.5 | < 0.002 | No |
| MSC02-092823 | 09/28/23 ² | 2 | 3.6 | 419 | 1508 | 10.5 | 0.003 | No |
| MSC01-100223 | 10/03/23 | 1 | 3.5 | 1,431 | 5008 | 10.0 | 0.001 | No |
| MSC02-100223 | 10/03/23 | 2 | 3.5 | 1,431 | 5008 | 9.5 | 0.001 | No |
| MSC01-100323 | 10/04/23 | 1 | 3.0 | 1,444 | 4332 | 4.5 | < 0.001 | No |
| MSC02-100323 | 10/04/23 | 2 | 3.3 | 1,445 | 4768 | 7.0 | 0.001 | No |
| MSC01-100423 | 10/05/23 | 1 | 3.3 | 1,439 | 4748 | 5.0 | < 0.001 | No |
| MSC02-100423 | 10/05/23 | 2 | 3.5 | 1,437 | 5029 | 6.0 | 0.001 | No |
| MSC01-100523 | 10/05/23 ² | 1 | 3.5 | 458 | 1603 | 5.5 | 0.002 | No |
| MSC02-100523 | 10/05/23 ² | 2 | 3.5 | 462 | 1617 | 6.5 | 0.002 | No |
| MSC01-100923 | 10/10/23 | 1 | 3.4 | 1,400 | 4760 | 8.0 | 0.001 | No |
| MSC02-100923 | 10/10/23 | 2 | 3.5 | 1,404 | 4914 | 3.0 | < 0.001 | No |
| MSC01-101023 | 10/11/23 | 1 | 3.5 | 1,446 | 5061 | 4.0 | < 0.001 | No |
| MSC02-101023 | 10/11/23 | 2 | 3.5 | 1,446 | 5061 | 13.0 | 0.001 | No |
| MSC01-101123 | 10/12/23 | 1 | 3.4 | 1,434 | 4875 | 3.5 | < 0.001 | No |
| MSC02-101123 | 10/12/23 | 2 | 3.4 | 1,436 | 4882 | 3.0 | < 0.001 | No |
| MSC01-101223 | 10/12/23 ² | 1 | 3.2 | 499 | 1596 | 6.0 | 0.002 | No |
| MSC02-101223 | 10/12/23 ² | 2 | 3.2 | 473 | 1513 | 7.0 | 0.002 | No |
| MSC01-101623 | 10/17/23 | 1 | 3.6 | 1,434 | 5162 | 11.5 | < 0.001 | No |
| MSC02-101623 | 10/17/23 | 2 | 3.4 | 1,434 | 4875 | 3.0 | < 0.001 | No |
| MSC01-101723 | 10/18/23 | 1 | 3.6 | 1,438 | 5176 | 5.0 | < 0.001 | No |
| MSC02-101723 | 10/18/23 | 2 | 3.3 | 1,438 | 4745 | 1.0 | < 0.001 | No |
| MSC01-101823 | 10/19/23 | 1 | 3.5 | 1,460 | 5110 | 3.5 | < 0.001 | No |
| MSC02-101823 | 10/19/23 | 2 | 3.3 | 1,454 | 4798 | 4.0 | < 0.001 | No |
| MSC01-101923 | 10/19/23 ² | 1 | 3.3 | 473 | 1560 | 8.5 | 0.003 | No |
| MSC02-101923 | 10/19/23 ² | 2 | 3.3 | 434 | 1432 | 7.5 | 0.003 | No |

Notes:

¹Sample "end" date indicates the date upon which sample collection ended.

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

Sample locations are shown on Figure 2-1

l/min = liters per minute

L = liter

min = minutes

fibers/cm³ = fibers per cubic centimeter

< = below detection limit

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

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| GESPM101722-640 | MSC01 | 12/7/22 | 1507.84 | 0.011 | 0.0040 | 4.000 | 5,000 | No | 50 | No |
| GESPM101722-641 | MSC02 | 12/7/22 | 1621.97 | 0.015 | | | | | | |
| GESPM101722-642 | MSC01 | 12/8/22 | 1591.23 | 0.013 | 0.0000 | 0.000 | 5,000 | No | 50 | No |
| GESPM101722-643 | MSC02 | 12/8/22 | 1712.70 | 0.013 | | | | | | |
| GESPM101722-644 | MSC01 | 12/8/22 ² | 442.87 | 0.014 | 0.005 | 5.000 | 5,000 | No | 50 | No |
| GESPM101722-645 | MSC02 | 12/8/22 ² | 480.23 | 0.019 | | | | | | |
| GESPM101722-647 | MSC01 | 12/13/22 | 1614.39 | 0.013 | 0.0030 | 3.000 | 5,000 | No | 50 | No |
| GESPM101722-648 | MSC02 | 12/13/22 | 1709.14 | 0.016 | | | | | | |
| GESPM101722-649 | MSC01 | 12/14/22 | 1629.43 | 0.014 | 0.002 | 2.000 | 5,000 | No | 50 | No |
| GESPM101722-650 | MSC02 | 12/14/22 | 1729.85 | 0.016 | | | | | | |
| GESPM101722-651 | MSC01 | 12/15/22 | 1635.44 | 0.024 | 0.002 | 2.000 | 5,000 | No | 50 | No |
| GESPM101722-652 | MSC02 | 12/15/22 | 1716.53 | 0.022 | | | | | | |
| PM113022-03 | MSC01 | 12/20/22 | 1668.08 | 0.024 J+ | 0.001 | 1.000 | 5,000 | No | 50 | No |
| PM113022-05 | MSC02 | 12/20/22 | 1694.70 | 0.025 J+ | | | | | | |
| PM113022-07 | MSC01 | 12/21/22 | 1698.07 | 0.030 J+ | 0.001 | 1.000 | 5,000 | No | 50 | No |
| PM113022-09 | MSC02 | 12/21/22 | 1704.09 | 0.029 J+ | | | | | | |
| PM113022-11 | MSC01 | 12/22/22 | 1525.86 | 0.102 J+ | 0.0176 | 17.648 | 5,000 | No | 50 | No |
| PM113022-13 | MSC02 | 12/22/22 | 1619.58 | 0.085 J+ | | | | | | |
| PM113022-17 | MSC01 | 1/18/23 | 1522.60 | 0.00985157 | -0.0046 | -4.588 | 5,000 | No | 50 | No |
| PM113022-19 | MSC02 | 1/18/23 | 1572.10 | 0.01443929 | | | | | | |
| PM113022-21 | MSC01 | 1/19/23 | 1639.48 | 0.00640447 | 0.005821 | 5.821 | 5,000 | No | 50 | No |
| PM113022-23 | MSC02 | 1/19/23 | 1644.10 | 0.01222553 | | | | | | |
| PM113022-25 | MSC01 | 1/19/23 ² | 400.35 | 0.37716998 J | -0.3744 | -374.429 | 5,000 | No | 50 | No |
| PM113022-27 | MSC02 | 1/19/23 ² | 364.82 | < 0.00274108 | | | | | | |
| PM113022-29 | MSC01 | 1/24/23 | 1655.00 | 0.01111782 | -0.002405 | -2.405 | 5,000 | No | 50 | No |
| PM113022-31 | MSC02 | 1/24/23 | 1663.87 | 0.01352269 | | | | | | |
| PM113022-35 | MSC01 | 1/25/23 | 1657.99 | 0.01827514 | 0.002547 | 2.547 | 5,000 | No | 50 | No |
| PM113022-37 | MSC02 | 1/25/23 | 1656.86 | 0.02082252 | | | | | | |
| PM113022-49 | MSC01 | 2/02/23 | 499.45 | 0.02322555 | 0.001430 | 1.430 | 5,000 | No | 50 | No |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM113022-51 | MSC02 | 2/02/23 | 515.09 | 0.02465589 | | | | | | |
| PM113022-55 | MSC01 | 2/07/23 | 1625.88 | 0.01260856 | -0.005 | -4.671 | 5,000 | No | 50 | No |
| PM113022-57 | MSC02 | 2/07/23 | 1631.96 | 0.01727984 | | | | | | |
| PM113022-59 | MSC01 | 2/08/23 | 1671.29 | 0.01537734 | -0.0687 | -68.651 | 5,000 | No | 50 | No |
| PM113022-61 | MSC02 | 2/08/23 | 1666.11 | 0.08402807 | | | | | | |
| PM113022-63 | MSC01 | 2/09/23 | 1627.76 | 0.01947462 | -0.001198 | -1.198 | 5,000 | No | 50 | No |
| PM113022-65 | MSC02 | 2/09/23 | 1499.60 | 0.02067218 | | | | | | |
| PM112922-22 | MSC01 | 2/09/23 ² | 447.97 | 0.01674219 | 0.0053 | 5.314 | 5,000 | No | 50 | No |
| PM112922-24 | MSC02 | 2/09/23 ² | 446.26 | 0.01142832 | | | | | | |
| PM011823-01 | MSC01 | 2/14/23 | 1246.37 | 0.02302687 | 0.002 | 2.063 | 5,000 | No | 50 | No |
| PM011823-03 | MSC02 | 2/14/23 | 1642.07 | 0.02509028 | | | | | | |
| PM011823-05 | MSC01 | 2/15/23 | 1264.50 | 0.00632661 | 0.0055 | 5.531 | 5,000 | No | 50 | No |
| PM011823-07 | MSC02 | 2/15/23 | 1568.66 | 0.01185725 | | | | | | |
| PM011823-09 | MSC01 | 2/16/23 | 1629.47 | 0.01178297 | -3.101E-05 | -0.031 | 5,000 | No | 50 | No |
| PM011823-11 | MSC02 | 2/16/23 | 1633.77 | 0.01175196 | | | | | | |
| PM011823-13 | MSC01 | 2/16/23 ² | 426.46 | 0.01055199 | 0.0018 | 1.767 | 5,000 | No | 50 | No |
| PM011823-15 | MSC02 | 2/16/23 ² | 446.47 | 0.01231886 | | | | | | |
| PM012323-02 | MSC01 | 2/21/23 | 1637.36 | 0.02198661 | 0.005 | 4.783 | 5,000 | No | 50 | No |
| PM012323-04 | MSC02 | 2/21/23 | 1613.80 | 0.02676912 | | | | | | |
| PM012323-06 | MSC01 | 2/22/23 | 1644.55 | 0.02389711 | 0.0188 | 18.770 | 5,000 | No | 50 | No |
| PM012323-08 | MSC02 | 2/22/23 | 1642.96 | 0.04266689 | | | | | | |
| PM012323-10 | MSC01 | 2/23/23 | 1623.56 | 0.00856143 | 0.00271 | 2.709 | 5,000 | No | 50 | No |
| PM012323-12 | MSC02 | 2/23/23 | 1597.08 | 0.01127057 | | | | | | |
| PM011823-18 | MSC01 | 2/23/23 ² | 557.83 | 0.00681211 | 0.0003 | 0.272 | 5,000 | No | 50 | No |
| PM011823-20 | MSC02 | 2/23/23 ² | 550.56 | 0.0070837 | | | | | | |
| PM013023-17 | MSC01 | 3/02/23 | 1634.24 | 0.01994811 | -0.0064 | -6.444 | 5,000 | No | 50 | No |
| PM013023-19 | MSC02 | 3/02/23 | 1606.97 | 0.01350367 | | | | | | |
| PM013123-51 | MSC01 | 3/02/23 ² | 482.00 | 0.00497925 | 0.0104 | 10.425 | 5,000 | No | 50 | No |
| PM013123-53 | MSC02 | 3/02/23 ² | 480.38 | 0.01540447 | | | | | | |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM013123-55 | MSC01 | 3/07/23 | 1633.72 | 0.0036726 | 0.003645 | 3.645 | 5,000 | No | 50 | No |
| PM013123-57 | MSC02 | 3/07/23 | 1612.46 | 0.00731801 J | | | | | | |
| PM020323-11 | MSC01 | 3/08/23 | 1632.65 | 0.00526751 | 0.002376 | 2.376 | 5,000 | No | 50 | No |
| PM020323-13 | MSC02 | 3/08/23 | 1609.23 | 0.00764341 | | | | | | |
| PM020323-15 | MSC01 | 3/09/23 | 1683.06 | 0.00659513 | 0.003744 | 3.744 | 5,000 | No | 50 | No |
| PM020323-17 | MSC02 | 3/09/23 | 1644.17 | 0.01033956 | | | | | | |
| PM020323-19 | MSC01 | 3/09/23 ² | 407.20 | 0.00589391 | 0.003109 | 3.109 | 5,000 | No | 50 | No |
| PM020323-21 | MSC02 | 3/09/23 ² | 433.17 | 0.00900339 | | | | | | |
| PM020323-25 | MSC01 | 3/14/23 | 1643.65 | 0.00249445 | 0.004424 | 4.424 | 5,000 | No | 50 | No |
| PM020323-27 | MSC02 | 3/14/23 | 1633.23 | 0.00691881 | | | | | | |
| PM020323-29 | MSC01 | 3/16/23 | 1699.08 | 0.00976999 | 0.005419 | 5.419 | 5,000 | No | 50 | No |
| PM020323-31 | MSC02 | 3/16/23 | 1626.15 | 0.01518925 | | | | | | |
| PM020323-33 | MSC01 | 3/16/23 ² | 476.42 | 0.0182612 | -0.008124 | -8.124 | 5,000 | No | 50 | No |
| PM020623-01 | MSC02 | 3/16/23 ² | 493.24 | 0.01013705 | | | | | | |
| PM020623-05 | MSC01 | 3/21/23 | 1658.27 | 0.00976922 | 0.003198 | 3.198 | 5,000 | No | 50 | No |
| PM020623-11 | MSC02 | 3/21/23 | 1634.89 | 0.01296723 | | | | | | |
| PM020623-13 | MSC01 | 3/23/23 | 1545.09 | 0.00744293 | 0.003679 | 3.679 | 5,000 | No | 50 | No |
| PM020623-15 | MSC02 | 3/23/23 | 1564.49 | 0.01112184 | | | | | | |
| PM020623-17 | MSC01 | 3/23/23 ² | 490.88 | 0.0077412 | 0.005404 | 5.404 | 5,000 | No | 50 | No |
| PM020623-19 | MSC02 | 3/23/23 ² | 479.26 | 0.01314527 | | | | | | |
| PM020223-22 | MSC01 | 3/28/23 | 1619.55 | 0.0089531 | 0.002030 | 2.030 | 5,000 | No | 50 | No |
| PM020223-24 | MSC02 | 3/28/23 | 1593.35 | 0.01098315 | | | | | | |
| PM020223-26 | MSC01 | 3/30/23 ² | 514.11 | 0.00213962 | -0.008530 | -8.530 | 5,000 | No | 50 | No |
| PM020223-28 | MSC02 | 3/30/23 ² | 515.50 | 0.01066925 | | | | | | |
| PM020223-38 | MSC01 | 4/04/23 | 1685.57 | 0.01595899 | -0.003060 | -3.060 | 5,000 | No | 50 | No |
| PM020223-40 | MSC02 | 4/04/23 | 1620.26 | 0.01289916 | | | | | | |
| PM020323-63 | MSC01 | 4/05/23 | 1668.68 | 0.00946856 | 0.002919 | 2.919 | 5,000 | No | 50 | No |
| PM020323-65 | MSC02 | 4/05/23 | 1638.71 | 0.01238779 | | | | | | |
| PM020323-67 | MSC01 | 4/06/23 | 1665.86 | 0.01134549 | 0.003470 | 3.470 | 5,000 | No | 50 | No |
| PM020323-69 | MSC02 | 4/06/23 | 1626.72 | 0.01481509 | | | | | | |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM020923-01 | MSC01 | 4/06/23 ² | 554.30 | 0.00847916 | 0.003467 | 3.467 | 5,000 | No | 50 | No |
| PM020923-03 | MSC02 | 4/06/23 ² | 544.12 | 0.01194589 | | | | | | |
| PM021523-32 | MSC01 | 4/11/23 | 1689.30 | 0.00384775 | 0.004132 | 4.132 | 5,000 | No | 50 | No |
| PM021523-34 | MSC02 | 4/11/23 | 1641.63 | 0.00797987 | | | | | | |
| PM020823-02 | MSC01 | 4/12/23 | 1640.30 | 0.01450954 | 0.004268 | 4.268 | 5,000 | No | 50 | No |
| PM020823-04 | MSC02 | 4/12/23 | 1592.36 | 0.01877716 | | | | | | |
| PM020823-06 | MSC01 | 4/13/23 | 1658.16 | 0.01658465 | 0.005463 | 5.463 | 5,000 | No | 50 | No |
| PM020823-08 | MSC02 | 4/13/23 | 1628.30 | 0.02204753 | | | | | | |
| PM020823-10 | MSC01 | 4/13/23 ² | 539.42 | 0.01149383 | -0.002648 | -2.648 | 5,000 | No | 50 | No |
| PM020823-12 | MSC02 | 4/13/23 ² | 523.28 | 0.01414157 | | | | | | |
| PM021623-17 | MSC01 | 4/18/23 | 1668.59 | 0.01114714 | 0.003765 | 3.765 | 5,000 | No | 50 | No |
| PM021623-19 | MSC02 | 4/18/23 | 1616.16 | 0.01491189 | | | | | | |
| PM021623-21 | MSC01 | 4/19/23 | 1628.03 | 0.01111773 | 0.002891 | 2.891 | 5,000 | No | 50 | No |
| PM021623-23 | MSC02 | 4/19/23 | 1591.82 | 0.01400912 | | | | | | |
| PM021623-25 | MSC01 | 4/20/23 | 1636.76 | 0.01515189 | 0.002320 | 2.320 | 5,000 | No | 50 | No |
| PM022023-01 | MSC02 | 4/20/23 | 1602.54 | 0.01747226 | | | | | | |
| PM022023-03 | MSC01 | 4/20/23 ² | 519.91 | 0.02038814 | 0.003263 | 3.263 | 5,000 | No | 50 | No |
| PM022023-05 | MSC02 | 4/20/23 ² | 583.49 | 0.02365079 | | | | | | |
| PM030323-30 | MSC01 | 4/25/23 | 1648.32 | 0.05156766 | -0.021976 | -21.976 | 5,000 | No | 50 | No |
| PM030323-32 | MSC02 | 4/25/23 | 1615.30 | 0.02959203 | | | | | | |
| PM030323-34 | MSC01 | 4/26/23 | 1657.62 | 0.02684572 | -0.001260 | -1.260 | 5,000 | No | 50 | No |
| PM030323-36 | MSC02 | 4/26/23 | 1621.99 | 0.02558585 | | | | | | |
| PM030323-38 | MSC01 | 4/27/23 | 1655.85 | 0.02306972 | -0.008294 | -8.294 | 5,000 | No | 50 | No |
| PM030323-40 | MSC02 | 4/27/23 | 1631.01 | 0.01477612 | | | | | | |
| PM030923-02 | MSC01 | 4/27/23 ² | 520.43 | 0.02497934 | -0.000148 | -0.148 | 5,000 | No | 50 | No |
| PM030923-04 | MSC02 | 4/27/23 ² | 471.18 | 0.02483127 | | | | | | |
| PM031223-03 | MSC01 | 5/02/23 | 1684.21 | 0.03117188 | -0.015939 | -15.939 | 5,000 | No | 50 | No |
| PM031223-05 | MSC02 | 5/02/23 | 1634.60 | 0.01523308 | | | | | | |
| PM031223-07 | MSC01 | 5/03/23 | 1647.28 | 0.00516002 | 0.001409 | 1.409 | 5,000 | No | 50 | No |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM031223-09 | MSC02 | 5/03/23 | 1644.00 | 0.00656934 | | | | | | |
| PM031223-11 | MSC01 | 5/04/23 ² | 578.40 | 0.00639696 J+ | 0.005374 | 5.374 | 5,000 | No | 50 | No |
| PM031223-13 | MSC02 | 5/04/23 ² | 535.20 | 0.0117713 | | | | | | |
| PM031223-17 | MSC01 | 5/09/23 | 1646.24 | 0.01099475 | 0.003592 | 3.592 | 5,000 | No | 50 | No |
| PM031423-01 | MSC02 | 5/09/23 | 1617.91 | 0.01458672 | | | | | | |
| PM031423-03 | MSC01 | 5/10/23 | 1657.77 | 0.01007377 | 0.002382 | 2.382 | 5,000 | No | 50 | No |
| PM031423-05 | MSC02 | 5/10/23 | 1629.73 | 0.01245605 | | | | | | |
| PM031423-07 | MSC01 | 5/11/23 | 1691.54 | 0.01075943 | 0.003199 | 3.199 | 5,000 | No | 50 | No |
| PM031423-09 | MSC02 | 5/11/23 | 1619.07 | 0.01395863 | | | | | | |
| PM031423-11 | MSC01 | 5/11/23 ² | 507.13 | 0.01380317 | 0.003840 | 3.840 | 5,000 | No | 50 | No |
| PM031423-13 | MSC02 | 5/11/23 ² | 538.44 | 0.01764356 | | | | | | |
| PM031523-20 | MSC01 | 5/16/23 | 1708.90 | 0.00544210 | 0.003596 | 3.596 | 5,000 | No | 50 | No |
| PM031523-22 | MSC02 | 5/16/23 | 1648.54 | 0.00903830 | | | | | | |
| PM031523-24 | MSC01 | 5/17/23 | 1622.55 | 0.00751903 | 0.003741 | 3.741 | 5,000 | No | 50 | No |
| PM031523-26 | MSC02 | 5/17/23 | 1589.73 | 0.01125977 | | | | | | |
| PM031523-28 | MSC01 | 5/18/23 | 1668.17 | 0.00791286 | 0.004036 | 4.036 | 5,000 | No | 50 | No |
| PM031523-30 | MSC02 | 5/18/23 | 1631.92 | 0.01194912 | | | | | | |
| PM031523-32 | MSC01 | 5/18/23 ² | 484.26 | 0.00433651 | 0.009795 | 9.795 | 5,000 | No | 50 | No |
| PM031523-34 | MSC02 | 5/18/23 ² | 474.13 | 0.01413115 | | | | | | |
| PM030323-10 | MSC01 | 5/23/23 | 1704.60 | 0.00874105 | 0.028104 | 28.104 | 5,000 | No | 50 | No |
| PM030923-06 | MSC02 | 5/23/23 | 1623.00 | 0.03684535 | | | | | | |
| PM030923-08 | MSC01 | 5/24/23 | 1581.93 | 0.02642342 | 0.007307 | 7.307 | 5,000 | No | 50 | No |
| PM030923-10 | MSC02 | 5/24/23 | 1612.80 | 0.03373016 | | | | | | |
| PM030923-12 | MSC01 | 5/25/23 | 1568.80 | 0.01721061 | 0.007248 | 7.248 | 5,000 | No | 50 | No |
| PM030923-14 | MSC02 | 5/25/23 | 1631.31 | 0.02445887 | | | | | | |
| PM030923-16 | MSC01 | 5/25/23 ² | 532.95 | 0.01200863 | 0.007579 | 7.579 | 5,000 | No | 50 | No |
| PM030923-18 | MSC02 | 5/25/23 ² | 520.74 | 0.01958751 | | | | | | |
| PM031223-32 | MSC01 | 5/31/23 | 1649.15 | 0.00782221 J+ | 0.000316 | 0.316 | 5,000 | No | 50 | No |
| PM031223-34 | MSC02 | 5/31/23 | 1622.04 | 0.0081379 J+ | | | | | | |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM031223-36 | MSC01 | 6/01/23 | 1666.71 | 0.02225942 J+ | 0.007277 | 7.277 | 5,000 | No | 50 | No |
| PM031223-38 | MSC02 | 6/01/23 | 1604.78 | 0.02953676 J+ | | | | | | |
| PM031223-40 | MSC01 | 6/01/23 ² | 572.70 | 0.02514405 J+ | 0.003676 | 3.676 | 5,000 | No | 50 | No |
| PM031223-42 | MSC02 | 6/01/23 ² | 551.70 | 0.02882001 J+ | | | | | | |
| PM032123-14 | MSC01 | 6/06/23 | 1644.60 | 0.01015444 | 0.003082 | 3.082 | 5,000 | No | 50 | No |
| PM032123-16 | MSC02 | 6/06/23 | 1631.90 | 0.01323611 | | | | | | |
| PM032123-18 | MSC01 | 6/07/23 | 1645.89 | 0.00662256 | 0.002109 | 2.109 | 5,000 | No | 50 | No |
| PM032123-20 | MSC02 | 6/07/23 | 1614.85 | 0.00873146 | | | | | | |
| PM032123-22 | MSC01 | 6/08/23 | 1672.94 | 0.00992265 | 0.000427 | 0.427 | 5,000 | No | 50 | No |
| PM032123-24 | MSC02 | 6/08/23 | 1642.62 | 0.01034932 | | | | | | |
| PM032123-26 | MSC01 | 6/08/23 ² | 370.51 | 0.01268522 J+ | 0.000646 | 0.646 | 5,000 | No | 50 | No |
| PM032123-28 | MSC02 | 6/08/23 ² | 457.56 | 0.01333158 J+ | | | | | | |
| PM032223-08 | MSC01 | 6/13/23 | 1660.73 | 0.00572038 | 0.001234 | 1.234 | 5,000 | No | 50 | No |
| PM032223-10 | MSC02 | 6/13/23 | 1624.88 | 0.00695436 | | | | | | |
| PM032223-12 | MSC01 | 6/14/23 | 1641.30 | 0.00408213 | 0.003574 | 3.574 | 5,000 | No | 50 | No |
| PM032223-14 | MSC02 | 6/14/23 | 1606.50 | 0.0076564 | | | | | | |
| PM032223-16 | MSC01 | 6/15/23 | 1657.98 | 0.00971061 | 0.003722 | 3.722 | 5,000 | No | 50 | No |
| PM032223-18 | MSC02 | 6/15/23 | 1630.41 | 0.0134322 | | | | | | |
| PM032223-20 | MSC01 | 6/15/23 ² | 416.70 | 0.01031917 J+ | -0.000189 | -0.189 | 5,000 | No | 50 | No |
| PM032223-22 | MSC02 | 6/15/23 ² | 390.16 | 0.01050851 J+ | | | | | | |
| PM032423-26 | MSC01 | 6/20/23 | 1608.77 | 0.01411016 | 0.002962 | 2.962 | 5,000 | No | 50 | No |
| PM032423-24 | MSC02 | 6/20/23 | 1593.25 | 0.01707202 | | | | | | |
| PM032423-08 | MSC01 | 6/21/23 | 1668.87 | 0.0138417 | 0.003612 | 3.612 | 5,000 | No | 50 | No |
| PM032423-10 | MSC02 | 6/21/23 | 1638.58 | 0.01745414 | | | | | | |
| PM032423-12 | MSC01 | 6/22/23 | 1659.03 | 0.01374297 | 0.004384 | 4.384 | 5,000 | No | 50 | No |
| PM032423-14 | MSC02 | 6/22/23 | 1638.40 | 0.01812744 | | | | | | |
| PM032423-16 | MSC01 | 6/22/23 ² | 577.80 | 0.01574939 | 0.002567 | 2.567 | 5,000 | No | 50 | No |
| PM032423-18 | MSC02 | 6/22/23 ² | 562.33 | 0.01831665 | | | | | | |
| PM031623-20 | MSC01 | 6/27/23 | 1634.93 | 0.00868539 | 0.002608 | 2.608 | 5,000 | No | 50 | No |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM031623-22 | MSC02 | 6/27/23 | 1611.62 | 0.01129298 | | | | | | |
| PM031623-24 | MSC01 | 6/28/23 | 1656.32 | 0.00652048 | 0.002111 | 2.111 | 5,000 | No | 50 | No |
| PM031623-26 | MSC02 | 6/28/23 | 1633.47 | 0.00863193 | | | | | | |
| PM031623-28 | MSC01 | 6/29/23 | 1655.66 | 0.00567749 J+ | 0.002041 | 2.041 | 5,000 | No | 50 | No |
| PM031623-30 | MSC02 | 6/29/23 | 1658.40 | 0.00771828 | | | | | | |
| PM031623-32 | MSC01 | 6/29/23 ² | 390.12 | 0.01256024 J+ | -0.000042 | -0.042 | 5,000 | No | 50 | No |
| PM031623-34 | MSC02 | 6/29/23 ² | 365.02 | 0.01260205 J+ | | | | | | |
| PM032023-06 | MSC01 | 7/06/23 | 1651.41 | 0.00932536 | 0.003760 | 3.760 | 5,000 | No | 50 | No |
| PM032023-08 | MSC02 | 7/06/23 | 1620.08 | 0.01308577 | | | | | | |
| PM032023-10 | MSC01 | 7/06/23 ² | 585.42 | 0.01161559 | 0.304645 | 304.645 | 5,000 | No | 50 | Yes |
| PM032023-12 | MSC02 | 7/06/23 ² | 550.18 | 0.31626013 | | | | | | |
| PM041823-52 | MSC01 | 7/11/23 | 1611.21 | 0.00645478 J+ | 0.003492 | 3.492 | 5,000 | No | 50 | No |
| PM041823-54 | MSC02 | 7/11/23 | 1628.74 | 0.00994634 | | | | | | |
| PM041823-56 | MSC01 | 7/12/23 | 1667.36 | 0.00779676 J+ | 0.002231 | 2.231 | 5,000 | No | 50 | No |
| PM041823-58 | MSC02 | 7/12/23 | 1645.39 | 0.01002802 | | | | | | |
| PM041823-60 | MSC01 | 7/13/23 | 1683.01 | 0.00594174 J+ | 0.002578 | 2.578 | 5,000 | No | 50 | No |
| PM041823-62 | MSC02 | 7/13/23 | 1666.73 | 0.00851968 J+ | | | | | | |
| PM041823-64 | MSC01 | 7/13/23 ² | 559.46 | 0.00446859 J+ | 0.004396 | 4.396 | 5,000 | No | 50 | No |
| PM041823-66 | MSC02 | 7/13/23 ² | 541.46 | 0.00886492 J+ | | | | | | |
| PM042123-48 | MSC01 | 7/18/23 | 1669.18 | 0.02414359 | 0.003596 | 3.596 | 5,000 | No | 50 | No |
| PM042123-50 | MSC02 | 7/18/23 | 1636.63 | 0.02773993 | | | | | | |
| PM042123-52 | MSC01 | 7/19/23 | 1645.15 | 0.01550011 | 0.002144 | 2.144 | 5,000 | No | 50 | No |
| PM042123-54 | MSC02 | 7/19/23 | 1643.64 | 0.01764377 | | | | | | |
| PM042123-56 | MSC01 | 7/20/23 | 1662.51 | 0.0115488 | 0.002517 | 2.517 | 5,000 | No | 50 | No |
| PM042123-58 | MSC02 | 7/20/23 | 1649.38 | 0.01406589 | | | | | | |
| PM042123-60 | MSC01 | 7/20/23 ² | 611.02 | 0.01603875 | 0.002500 | 2.500 | 5,000 | No | 50 | No |
| PM042123-62 | MSC02 | 7/20/23 ² | 582.55 | 0.01853918 | | | | | | |
| PM042123-13 | MSC01 | 7/25/23 | 1625.56 | 0.00701297 | 0.002352 | 2.352 | 5,000 | No | 50 | No |
| PM042123-15 | MSC02 | 7/25/23 | 1612.31 | 0.00936544 | | | | | | |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM042123-17 | MSC01 | 7/26/23 | 1668.13 | 0.01097037 | 0.001665 | 1.665 | 5,000 | No | 50 | No |
| PM042123-19 | MSC02 | 7/26/23 | 1661.98 | 0.01263553 | | | | | | |
| PM042123-21 | MSC01 | 7/27/23 | 1652.89 | 0.02184053 | 0.002423 | 2.423 | 5,000 | No | 50 | No |
| PM042123-23 | MSC02 | 7/27/23 | 1636.19 | 0.02426369 | | | | | | |
| PM042123-25 | MSC01 | 7/27/23 ² | 594.65 | 0.02539309 | 0.005221 | 5.221 | 5,000 | No | 50 | No |
| PM042123-27 | MSC02 | 7/27/23 ² | 561.83 | 0.03061424 | | | | | | |
| PM041223-19 | MSC01 | 8/01/23 | 1623.80 | 0.01989161 | 0.001942 | 1.942 | 5,000 | No | 50 | No |
| PM041223-21 | MSC02 | 8/01/23 | 1603.03 | 0.02183365 | | | | | | |
| PM041223-23 | MSC01 | 8/02/23 | 1637.88 | 0.00860869 | 0.000685 | 0.685 | 5,000 | No | 50 | No |
| PM041223-25 | MSC02 | 8/02/23 | 1624.80 | 0.00929345 | | | | | | |
| PM041223-27 | MSC01 | 8/03/23 | 1653.97 | 0.00785988 | 0.003868 | 3.868 | 5,000 | No | 50 | No |
| PM041223-29 | MSC02 | 8/03/23 | 1637.16 | 0.01172763 | | | | | | |
| PM041223-31 | MSC01 | 8/03/23 ² | 611.72 | 0.01193356 | 0.007462 | 7.462 | 5,000 | No | 50 | No |
| PM041223-33 | MSC02 | 8/03/23 ² | 582.60 | 0.01939581 | | | | | | |
| PM041623-14 | MSC01 | 8/08/23 | 1657.57 | 0.01327244 | 0.007663 | 7.663 | 5,000 | No | 50 | No |
| PM041623-16 | MSC02 | 8/08/23 | 1643.16 | 0.02093527 | | | | | | |
| PM041623-18 | MSC01 | 8/09/23 | 1666.12 | 0.00768252 | 0.002819 | 2.819 | 5,000 | No | 50 | No |
| PM041623-20 | MSC02 | 8/09/23 | 1656.95 | 0.01050122 | | | | | | |
| PM041623-22 | MSC01 | 8/10/23 | 1650.22 | 0.00436305 J+ | 0.003511 | 3.511 | 5,000 | No | 50 | No |
| PM041623-24 | MSC02 | 8/10/23 | 1638.33 | 0.00787387 | | | | | | |
| PM041623-26 | MSC01 | 8/10/23 ² | 485.76 | 0.0094697 J+ | 0.000337 | 0.337 | 5,000 | No | 50 | No |
| PM041623-28 | MSC02 | 8/10/23 ² | 448.68 | 0.00980654 J+ | | | | | | |
| PM042023-01 | MSC01 | 8/15/23 | 1628.18 | 0.0063875 | 0.003284 | 3.284 | 5,000 | No | 50 | No |
| PM042023-03 | MSC02 | 8/15/23 | 1612.91 | 0.00967196 | | | | | | |
| PM042023-05 | MSC01 | 8/16/23 | 1636.94 | 0.00665877 | 0.001825 | 1.825 | 5,000 | No | 50 | No |
| PM042023-07 | MSC02 | 8/16/23 | 1638.43 | 0.00848373 | | | | | | |
| PM042023-09 | MSC01 | 8/17/23 | 1646.55 | 0.00455498 J+ | 0.003520 | 3.520 | 5,000 | No | 50 | No |
| PM042023-11 | MSC02 | 8/17/23 | 1659.44 | 0.00807501 | | | | | | |
| PM042023-13 | MSC01 | 8/17/23 ² | 564.21 | 0.00833023 J+ | 0.005658 | 5.658 | 5,000 | No | 50 | No |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM042023-15 | MSC02 | 8/17/23 ² | 543.30 | 0.01398859 J+ | | | | | | |
| PM042023-17 | MSC01 | 8/22/23 | 1642.95 | 0.01192976 | 0.008333 | 8.333 | 5,000 | No | 50 | No |
| PM042023-19 | MSC02 | 8/22/23 | 1648.38 | 0.02026232 | | | | | | |
| PM042023-21 | MSC01 | 8/23/23 | 1665.28 | 0.01417179 | 0.003490 | 3.490 | 5,000 | No | 50 | No |
| PM042023-23 | MSC02 | 8/23/23 | 1641.97 | 0.01766171 | | | | | | |
| PM042023-25 | MSC01 | 8/24/23 | 1648.38 | 0.01977699 | 0.003558 | 3.558 | 5,000 | No | 50 | No |
| PM042023-27 | MSC02 | 8/24/23 | 1641.31 | 0.02333502 | | | | | | |
| PM042023-29 | MSC01 | 8/24/23 ² | 569.86 | 0.02439196 | 0.003011 | 3.011 | 5,000 | No | 50 | No |
| PM051123-51 | MSC02 | 8/24/23 ² | 540.08 | 0.02740335 | | | | | | |
| PM051623-01 | MSC01 | 8/29/23 | 1607.35 | 0.02258376 | 0.003711 | 3.711 | 5,000 | No | 50 | No |
| PM051623-03 | MSC02 | 8/29/23 | 1589.69 | 0.02629443 | | | | | | |
| PM051623-05 | MSC01 | 8/30/23 | 1662.17 | 0.02653158 | 0.004340 | 4.340 | 5,000 | No | 50 | No |
| PM051623-07 | MSC02 | 8/30/23 | 1619.62 | 0.03087144 | | | | | | |
| PM051623-09 | MSC01 | 8/31/23 | 1717.26 | 0.0434413 | 0.002060 | 2.060 | 5,000 | No | 50 | No |
| PM051623-11 | MSC02 | 8/31/23 | 1659.29 | 0.04550139 | | | | | | |
| PM051623-13 | MSC01 | 8/31/23 ² | 460.02 | 0.03282466 | 0.003390 | 3.390 | 5,000 | No | 50 | No |
| PM051623-15 | MSC02 | 8/31/23 ² | 452.86 | 0.03621428 | | | | | | |
| PM042123-70 | MSC01 | 9/06/23 | 1652.06 | 0.01646429 | 0.007458 | 7.458 | 5,000 | No | 50 | No |
| PM042123-72 | MSC02 | 9/06/23 | 1626.13 | 0.02392183 | | | | | | |
| PM042123-74 | MSC01 | 9/07/23 | 1687.82 | 0.00787999 | 0.002721 | 2.721 | 5,000 | No | 50 | No |
| PM042123-76 | MSC02 | 9/07/23 | 1660.23 | 0.01060094 | | | | | | |
| PM042123-78 | MSC01 | 9/07/23 ² | 492.05 | 0.01625851 J+ | 0.004938 | 4.938 | 5,000 | No | 50 | No |
| PM042123-80 | MSC02 | 9/07/23 ² | 476.49 | 0.02119667 J+ | | | | | | |
| PM050123-03 | MSC01 | 9/12/23 | 1666.32 | 0.0153632 | 0.002684 | 2.684 | 5,000 | No | 50 | No |
| PM050123-05 | MSC02 | 9/12/23 | 1645.64 | 0.01804769 | | | | | | |
| PM050123-07 | MSC01 | 9/13/23 | 1661.53 | 0.01679175 | 0.002592 | 2.592 | 5,000 | No | 50 | No |
| PM050123-09 | MSC02 | 9/13/23 | 1656.04 | 0.01938359 | | | | | | |
| PM050123-11 | MSC01 | 9/14/23 | 1648.95 | 0.00873283 | 0.001832 | 1.832 | 5,000 | No | 50 | No |
| PM050123-13 | MSC02 | 9/14/23 | 1637.54 | 0.01056463 | | | | | | |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|-----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM050123-15 | MSC01 | 9/14/23 ² | 576.36 | 0.0194323 | 0.000881 | 0.881 | 5,000 | No | 50 | No |
| PM050123-17 | MSC02 | 9/14/23 ² | 555.22 | 0.0185512 J+ | | | | | | |
| PM051223-58 | MSC01 | 9/19/23 | 1653.34 | 0.01028222 | 0.002506 | 2.506 | 5,000 | No | 50 | No |
| PM051223-60 | MSC02 | 9/19/23 | 1634.38 | 0.01278772 | | | | | | |
| PM051223-62 | MSC01 | 9/20/23 | 1663.90 | 0.0517459 | 0.005749 | 5.749 | 5,000 | No | 50 | No |
| PM051223-64 | MSC02 | 9/20/23 | 1647.09 | 0.05749534 | | | | | | |
| PM051223-66 | MSC01 | 9/21/23 | 1653.00 | 0.05142166 | 0.001055 | 1.055 | 5,000 | No | 50 | No |
| PM051223-68 | MSC02 | 9/21/23 | 1636.91 | 0.05247692 | | | | | | |
| PM051223-70 | MSC01 | 9/21/23 ² | 559.90 | 0.04965172 | -0.005063 | -5.063 | 5,000 | No | 50 | No |
| PM051223-72 | MSC02 | 9/21/23 ² | 530.02 | 0.05471492 | | | | | | |
| PM051723-05 | MSC01 | 9/26/23 | 1655.74 | 0.00797227 J+ | 0.004062 | 4.062 | 5,000 | No | 50 | No |
| PM051723-07 | MSC02 | 9/26/23 | 1653.59 | 0.01203442 | | | | | | |
| PM051723-09 | MSC01 | 9/27/23 | 1665.74 | 0.01218678 | 0.003142 | 3.142 | 5,000 | No | 50 | No |
| PM051723-11 | MSC02 | 9/27/23 | 1643.92 | 0.01532921 | | | | | | |
| PM051723-13 | MSC01 | 9/28/23 | 1629.26 | 0.01767674 | 0.003640 | 3.640 | 5,000 | No | 50 | No |
| PM051723-15 | MSC02 | 9/28/23 | 1623.16 | 0.02131644 | | | | | | |
| PM051723-17 | MSC01 | 9/28/23 ² | 512.57 | 0.02360653 J+ | -0.004379 | -4.379 | 5,000 | No | 50 | No |
| PM051723-19 | MSC02 | 9/28/23 ² | 475.24 | 0.02798586 J+ | | | | | | |
| PM042523-53 | MSC01 | 10/03/23 | 1657.75 | 0.01236616 | 0.005378 | 5.378 | 5,000 | No | 50 | No |
| PM042523-55 | MSC02 | 10/03/23 | 1634.31 | 0.01774449 | | | | | | |
| PM042523-57 | MSC01 | 10/04/23 | 1666.82 | 0.01775837 | 0.003848 | 3.848 | 5,000 | No | 50 | No |
| PM042523-59 | MSC02 | 10/04/23 | 1652.28 | 0.02160651 | | | | | | |
| PM042523-61 | MSC01 | 10/05/23 | 1675.09 | 0.02387931 | -0.002771 | -2.771 | 5,000 | No | 50 | No |
| PM042523-63 | MSC02 | 10/05/23 | 1654.75 | 0.02665055 | | | | | | |
| PM042523-65 | MSC01 | 10/05/23 ² | 530.66 | 0.02883202 | -0.002231 | -2.231 | 5,000 | No | 50 | No |
| PM042523-67 | MSC02 | 10/05/23 ² | 531.18 | 0.03106292 | | | | | | |
| PM051923-07 | MSC01 | 10/10/23 | 1600.72 | 0.00668449 J+ | -0.006110 | -6.110 | 5,000 | No | 50 | No |
| PM051923-09 | MSC02 | 10/10/23 | 1610.13 | 0.012794 | | | | | | |
| PM072823-01 | MSC01 | 10/11/23 | 1648.79 | 0.02438152 | 0.008823 | 8.823 | 5,000 | No | 50 | No |

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

| Sample, Date and Station Information | | | Sampler Run Information | PM10 | | | | | | |
|--------------------------------------|--------------------|-----------------------|--|---|---|---|-----------------------------------|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (mg/m ³) | PM10 Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level ¹ (ug/m ³) | Exceedance (Yes/No) |
| PM072823-03 | MSC02 | 10/11/23 | 1659.43 | 0.03320417 | | | | | | |
| PM072823-05 | MSC01 | 10/12/23 | 1633.44 | 0.019713 | 0.002815 | 2.815 | 5,000 | No | 50 | No |
| PM072823-07 | MSC02 | 10/12/23 | 1620.22 | 0.0225278 | | | | | | |
| PM072823-09 | MSC01 | 10/12/23 ² | 570.34 | 0.01841007 J+ | 0.001539 | 1.539 | 5,000 | No | 50 | No |
| PM072823-11 | MSC02 | 10/12/23 ² | 539.40 | 0.0168706 J+ | | | | | | |
| PM072823-15 | MSC01 | 10/17/23 | 1614.18 | 0.00836338 | 0.001415 | 1.415 | 5,000 | No | 50 | No |
| PM072823-17 | MSC02 | 10/17/23 | 1636.30 | 0.00977816 | | | | | | |
| PM072823-19 | MSC01 | 10/18/23 | 1661.86 | 0.00661909 | 0.002069 | 2.069 | 5,000 | No | 50 | No |
| PM072823-21 | MSC02 | 10/18/23 | 1634.44 | 0.00868799 | | | | | | |
| PM072823-23 | MSC01 | 10/19/23 | 1676.45 | 0.02505294 | -0.002874 | -2.874 | 5,000 | No | 50 | No |
| PM072823-25 | MSC02 | 10/19/23 | 1668.63 | 0.0279271 | | | | | | |
| PM072823-27 | MSC01 | 10/19/23 ² | 510.00 | 0.01960784 | -0.021344 | -21.344 | 5,000 | No | 50 | No |
| PM072823-29 | MSC02 | 10/19/23 ² | 505.47 | 0.04095199 | | | | | | |

Notes:

¹PM10 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.

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

Sample locations are shown on Figure 2-1

min = minutes

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

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

J+ = estimated concentration biased high

ATTACHMENT 4

LEAD AND MANGANESE MONITORING RESULTS

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Attachment 4: Lead and Manganese Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | Lead | | Manganese | |
|--------------------------------------|--------------------|----------------------|--|---|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) |
| Action Level | | | | 0.050 mg/m ³ | | 0.200 mg/m ³ | |
| GESPM101722-640 | MSC01 | 12/7/22 | 1507.84 | 0.0000017 | No | 0.0000032 | No |
| GESPM101722-641 | MSC02 | 12/7/22 | 1621.97 | 0.0000014 | No | 0.0000034 | No |
| GESPM101722-642 | MSC01 | 12/8/22 | 1591.23 | 0.0000009 | No | 0.0000028 | No |
| GESPM101722-643 | MSC02 | 12/8/22 | 1712.70 | 0.0000091 | No | 0.0000026 J | No |
| GESPM101722-644 | MSC01 | 12/8/22 ² | 442.87 | 0.0000032 | No | 0.0000079 | No |
| GESPM101722-645 | MSC02 | 12/8/22 ² | 480.23 | 0.0000019 J | No | 0.0000046 | No |
| GESPM101722-647 | MSC01 | 12/13/22 | 1614.39 | 0.0000012 | No | 0.0000027 | No |
| GESPM101722-648 | MSC02 | 12/13/22 | 1709.14 | 0.0000001 | No | 0.0000023 | No |
| GESPM101722-649 | MSC01 | 12/14/22 | 1629.43 | 0.0000011 | No | 0.0000036 | No |
| GESPM101722-650 | MSC02 | 12/14/22 | 1729.85 | 0.0000095 | No | 0.0000027 | No |
| GESPM101722-651 | MSC01 | 12/15/22 | 1635.44 | 0.0000024 | No | 0.0000073 | No |
| GESPM101722-652 | MSC02 | 12/15/22 | 1716.53 | 0.0000002 | No | 0.0000041 | No |
| PM113022-03 | MSC01 | 12/20/22 | 1668.08 | < 0.00000839 | No | < 0.00005875 | No |
| PM113022-05 | MSC02 | 12/20/22 | 1694.70 | < 0.00000826 | No | < 0.00005783 | No |
| PM113022-07 | MSC01 | 12/21/22 | 1698.07 | < 0.00000824 | No | < 0.00005771 | No |
| PM113022-09 | MSC02 | 12/21/22 | 1704.09 | < 0.00000822 | No | < 0.00005751 | No |
| PM113022-11 | MSC01 | 12/22/22 | 1525.86 | < 0.00000918 | No | < 0.00006423 | No |
| PM113022-13 | MSC02 | 12/22/22 | 1619.58 | < 0.00000864 | No | < 0.00006051 | No |
| TSP113022-18 | MSC01 | 1/18/23 | 1552.94 | < 0.00000902 | No | < 0.00006311 | No |
| TSP113022-20 | MSC02 | 1/18/23 | 1672.75 | < 0.00000837 | No | < 0.00005859 | No |
| TSP113022-22 | MSC01 | 1/19/23 | 1580.94 | < 0.00000886 | No | < 0.00006199 | No |
| TSP113022-24 | MSC02 | 1/19/23 | 1744.24 | < 0.00000803 | No | < 0.00005618 | No |
| TSP113022-26 | MSC01 | 1/19/23 ² | 397.82 | < 0.00003519 | No | < 0.00024634 | No |
| TSP113022-28 | MSC02 | 1/19/23 ² | 386.63 | < 0.00003621 | No | < 0.00025347 | No |
| TSP113022-30 | MSC01 | 1/24/23 | 1671.60 | < 0.00000838 | No | < 0.00005863 | No |
| TSP113022-32 | MSC02 | 1/24/23 | 1766.68 | < 0.00000792 | No | < 0.00005547 | No |
| TSP113022-36 | MSC01 | 1/25/23 | 1664.44 | < 0.00000841 | No | < 0.00005888 | No |
| TSP113022-38 | MSC02 | 1/25/23 | 1758.33 | < 0.00000796 | No | < 0.00005573 | No |
| TSP113022-50 | MSC01 | 2/02/23 | 500.30 | < 0.00002798 | No | < 0.00019588 | No |
| TSP113022-52 | MSC02 | 2/02/23 | 545.96 | < 0.00002564 | No | < 0.0001795 | No |
| TSP113022-56 | MSC01 | 2/07/23 | 1629.51 | < 0.00000859 UJ | No | < 0.00006014 | No |
| TSP113022-58 | MSC02 | 2/07/23 | 1728.66 | < 0.0000081 UJ | No | < 0.00005669 | No |
| TSP113022-60 | MSC01 | 2/08/23 | 1675.36 | < 0.00000836 UJ | No | < 0.00005849 | No |
| TSP113022-62 | MSC02 | 2/08/23 | 1766.71 | < 0.00000792 UJ | No | < 0.00005547 | No |
| TSP113022-64 | MSC01 | 2/09/23 | 1629.75 | < 0.00000859 UJ | No | < 0.00006013 | No |
| TSP113022-66 | MSC02 | 2/09/23 | 1590.49 | < 0.0000088 UJ | No | < 0.00006162 | No |
| TSP112922-23 | MSC01 | 2/09/23 ² | 447.38 | < 0.00003129 UJ | No | < 0.00021905 | No |
| TSP112922-25 | MSC02 | 2/09/23 ² | 474.14 | < 0.00002953 UJ | No | < 0.00020669 | No |
| TSP011823-02 | MSC01 | 2/14/23 | 1663.14 | < 0.00000842 | No | < 0.00005892 | No |
| TSP011823-04 | MSC02 | 2/14/23 | 1741.11 | < 0.00000804 | No | < 0.00005629 | No |
| TSP011823-06 | MSC01 | 2/15/23 | 1322.67 | < 0.00001058 | No | < 0.00007409 | No |
| TSP011823-08 | MSC02 | 2/15/23 | 1523.52 | < 0.00000919 | No | < 0.00006432 | No |
| TSP011823-10 | MSC01 | 2/16/23 | 1627.75 | < 0.0000086 | No | < 0.00006021 | No |
| TSP011823-12 | MSC02 | 2/16/23 | 1729.90 | < 0.00000809 | No | < 0.00005665 | No |
| TSP011823-14 | MSC01 | 2/16/23 ² | 424.73 | < 0.00003296 | No | < 0.00023073 | No |

Attachment 4: Lead and Manganese Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | Lead | | Manganese | |
|--------------------------------------|--------------------|------------------------|--|---|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) |
| Action Level | | | | 0.050 mg/m ³ | | 0.200 mg/m ³ | |
| TSP011823-16 | MSC02 | 2/16/23 ² | 472.40 | < 0.00002964 | No | < 0.00020745 | No |
| TSP012323-03 | MSC01 | 2/21/23 | 1649.30 | < 0.00000849 | No | < 0.00005942 | No |
| TSP012323-05 | MSC02 | 2/21/23 | 1715.45 | < 0.00000816 | No | < 0.00005713 | No |
| TSP012323-07 | MSC01 | 2/22/23 | 1677.34 | < 0.00000835 | No | < 0.00005843 | No |
| TSP012323-09 | MSC02 | 2/22/23 ³ | 732.84 | 0.00003084 | No | < 0.00013373 | No |
| TSP012323-11 | MSC01 | 2/23/23 | 1631.81 | < 0.00000858 | No | < 0.00006006 | No |
| TSP011823-17 | MSC02 | 2/23/23 | 1676.16 | < 0.00000835 | No | < 0.00005847 | No |
| TSP011823-19 | MSC01 | 2/23/23 ² | 557.12 | < 0.00002513 | No | < 0.0001759 | No |
| TSP011823-21 | MSC02 | 2/23/23 ² | 585.02 | < 0.00002393 | No | < 0.00016752 | No |
| TSP013023-18 | MSC01 | 3/02/23 | 1630.46 | < 0.00000859 | No | < 0.00006011 | No |
| TSP013023-20 | MSC02 | 3/02/23 | 1707.28 | < 0.0000082 | No | < 0.0000574 | No |
| TSP013123-52 | MSC01 | 3/02/23 ² | 480.87 | < 0.00002911 | No | < 0.0002038 | No |
| TSP013123-54 | MSC02 | 3/02/23 ² | 514.50 | < 0.00002721 | No | < 0.00019048 | No |
| TSP013123-56 | MSC01 | 3/07/23 | 1643.67 | < 0.00000852 | No | < 0.00005962 | No |
| TSP013123-58 | MSC02 | 3/07/23 ³ | 862.14 | < 0.00001624 | No | < 0.00011367 | No |
| TSP020323-12 | MSC01 | 3/08/23 | 1634.86 | < 0.00000856 | No | < 0.00005994 | No |
| TSP020323-14 | MSC02 | 3/08/23 | 1711.00 | < 0.00000818 | No | < 0.00005728 | No |
| TSP020323-16 | MSC01 | 3/09/23 | 1695.55 | < 0.00000826 | No | < 0.0000578 | No |
| TSP020323-18 | MSC02 | 3/09/23 | 1747.61 | < 0.00000801 | No | < 0.00005608 | No |
| TSP020323-20 | MSC01 | 3/09/23 ² | 404.96 | < 0.00003457 | No | < 0.000242 | No |
| TSP020323-22 | MSC02 | 3/09/23 ² | 456.94 | < 0.00003064 | No | < 0.00021447 | No |
| TSP020323-26 | MSC01 | 3/14/23 | 1655.51 | < 0.00000846 | No | < 0.0000592 | No |
| TSP020323-28 | MSC02 | 3/14/23 | 1739.40 | < 0.00000805 | No | < 0.00005634 | No |
| TSP020323-30 | MSC01 | 3/16/23 | 1694.68 | < 0.00000826 | No | < 0.00005783 | No |
| TSP020323-32 | MSC02 | 3/16/23 | 1728.70 | < 0.0000081 | No | < 0.00005669 | No |
| TSP020323-34 | MSC01 | 3/16/23 ² | 480.10 | < 0.00002916 | No | < 0.00020412 | No |
| TSP020623-02 | MSC02 | 3/16/23 ² | 519.14 | < 0.00002697 | No | < 0.00018877 | No |
| TSP020623-06 | MSC01 | 3/21/23 | 1667.66 | < 0.00000839 | No | < 0.00005876 | No |
| TSP020623-12 | MSC02 | 3/21/23 | 1735.74 | < 0.00000807 | No | < 0.00005646 | No |
| TSP020623-14 | MSC01 | 3/23/23 | 1556.49 | < 0.00000899 | No | < 0.00006296 | No |
| TSP020623-16 | MSC02 | 3/23/23 | 1667.06 | < 0.0000084 | No | < 0.00005879 | No |
| TSP020623-18 | MSC01 | 3/23/23 ² | 466.67 | < 0.00003 | No | < 0.00021 | No |
| TSP020623-20 | MSC02 | 3/23/23 ^{1,2} | 293.01 | < 0.00004778 | No | < 0.00033446 | No |
| TSP020223-23 | MSC01 | 3/28/23 | 1624.27 | < 0.00000862 | No | < 0.00006033 | No |
| TSP020223-25 | MSC02 | 3/28/23 | 1692.62 | < 0.00000827 | No | < 0.0000579 | No |
| TSP020223-27 | MSC01 | 3/30/23 ² | 514.18 | < 0.00002723 | No | < 0.00019059 | No |
| TSP020223-29 | MSC02 | 3/30/23 ² | 548.95 | < 0.0000255 | No | < 0.00017852 | No |
| TSP020223-39 | MSC01 | 4/04/23 | 1693.85 | < 0.00000827 | No | < 0.00005786 | No |
| TSP020323-62 | MSC02 | 4/04/23 | 1720.87 | < 0.00000814 | No | < 0.00005695 | No |
| TSP020323-64 | MSC01 | 4/05/23 | 1663.88 | < 0.00000841 | No | < 0.0000589 | No |
| TSP020323-66 | MSC02 | 4/05/23 | 1735.90 | < 0.00000806 | No | < 0.00005645 | No |
| TSP020323-68 | MSC01 | 4/06/23 | 1661.80 | < 0.00000842 | No | < 0.00005897 | No |
| TSP020323-70 | MSC02 | 4/06/23 | 1724.78 | < 0.00000812 | No | < 0.00005682 | No |
| TSP020923-02 | MSC01 | 4/06/23 ² | 554.40 | < 0.00002525 | No | < 0.00017677 | No |
| TSP020923-04 | MSC02 | 4/06/23 ² | 581.88 | < 0.00002406 | No | < 0.00016842 | No |

Attachment 4: Lead and Manganese Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | Lead | | Manganese | |
|--------------------------------------|--------------------|----------------------|--|---|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) |
| Action Level | | | | 0.050 mg/m ³ | | 0.200 mg/m ³ | |
| TSP021523-33 | MSC01 | 4/11/23 | 1698.82 | < 0.00000824 | No | < 0.00005769 | No |
| TSP020823-01 | MSC02 | 4/11/23 | 1761.73 | < 0.00000795 | No | < 0.00005563 | No |
| TSP020823-03 | MSC01 | 4/12/23 | 1629.85 | < 0.00000859 | No | < 0.00006013 | No |
| TSP020823-05 | MSC02 | 4/12/23 | 1688.62 | < 0.00000829 | No | < 0.00005804 | No |
| TSP020823-07 | MSC01 | 4/13/23 | 1650.61 | < 0.00000848 | No | < 0.00005937 | No |
| TSP020823-09 | MSC02 | 4/13/23 | 1387.10 | < 0.00001009 | No | < 0.00007065 | No |
| TSP020823-11 | MSC01 | 4/13/23 ² | 534.94 | < 0.00002617 | No | < 0.0001832 | No |
| TSP020823-13 | MSC02 | 4/13/23 ² | 552.25 | < 0.00002535 | No | < 0.00017746 | No |
| TSP021623-18 | MSC01 | 4/18/23 | 1675.38 | < 0.00000836 | No | < 0.00005849 | No |
| TSP021623-20 | MSC02 | 4/18/23 | 1714.56 | < 0.00000817 | No | < 0.00005716 | No |
| TSP021623-22 | MSC01 | 4/19/23 | 1626.92 | < 0.00000861 | No | < 0.00006024 | No |
| TSP021623-24 | MSC02 | 4/19/23 | 1692.11 | < 0.00000827 | No | < 0.00005792 | No |
| TSP021623-26 | MSC01 | 4/20/23 | 1616.86 | < 0.00000866 | No | < 0.00006061 | No |
| TSP022023-02 | MSC02 | 4/20/23 | 1701.84 | < 0.00000823 | No | < 0.00005758 | No |
| TSP022023-04 | MSC01 | 4/20/23 ² | 522.60 | < 0.00002679 | No | < 0.00018752 | No |
| TSP022023-06 | MSC02 | 4/20/23 ² | 619.33 | < 0.00002261 | No | < 0.00015824 | No |
| TSP030323-31 | MSC01 | 4/25/23 | 1659.15 | 0.00000982 | No | 0.00008559 | No |
| TSP030323-33 | MSC02 | 4/25/23 | 1711.83 | < 0.00000818 | No | < 0.00005725 | No |
| TSP030323-35 | MSC01 | 4/26/23 | 1654.76 | < 0.00000846 | No | < 0.00005922 | No |
| TSP030323-37 | MSC02 | 4/26/23 | 1722.56 | < 0.00000813 | No | < 0.00005689 | No |
| TSP030323-39 | MSC01 | 4/27/23 | 1661.46 | < 0.00000843 | No | < 0.00005898 | No |
| TSP030923-01 | MSC02 | 4/27/23 ¹ | 776.68 | < 0.00001803 | No | < 0.00012618 | No |
| TSP030923-03 | MSC01 | 4/27/23 ² | 525.64 | < 0.00002663 | No | < 0.00018644 | No |
| TSP030923-05 | MSC02 | 4/27/23 ² | 504.07 | < 0.00002777 | No | < 0.00019442 | No |
| TSP031223-04 | MSC01 | 5/02/23 | 1701.48 | 0.00000835 | No | < 0.0000576 | No |
| TSP031223-06 | MSC02 | 5/02/23 | 1737.80 | < 0.00000806 | No | < 0.00005639 | No |
| TSP031223-08 | MSC01 | 5/03/23 | 1657.16 | < 0.00000845 | No | < 0.00005914 | No |
| TSP031223-10 | MSC02 | 5/03/23 | 1740.99 | < 0.00000804 | No | < 0.00005629 | No |
| TSP031223-12 | MSC01 | 5/04/23 ² | 578.57 | < 0.0000242 | No | < 0.00016938 | No |
| TSP031223-14 | MSC02 | 5/04/23 ² | 566.93 | < 0.00002469 | No | < 0.00017286 | No |
| TSP031223-18 | MSC01 | 5/09/23 | 1652.75 | < 0.00000847 | No | < 0.0000593 | No |
| TSP031423-02 | MSC02 | 5/09/23 | 1734.22 | < 0.00000807 | No | < 0.00005651 | No |
| TSP031423-04 | MSC01 | 5/10/23 | 1658.93 | < 0.00000844 | No | < 0.00005907 | No |
| TSP031423-06 | MSC02 | 5/10/23 | 1722.85 | < 0.00000813 | No | < 0.00005688 | No |
| TSP031423-08 | MSC01 | 5/11/23 | 1696.93 | < 0.00000825 | No | < 0.00005775 | No |
| TSP031423-10 | MSC02 | 5/11/23 | 1724.38 | < 0.00000812 | No | < 0.00005683 | No |
| TSP031423-12 | MSC01 | 5/11/23 ² | 512.83 | < 0.0000273 | No | < 0.0001911 | No |
| TSP031423-14 | MSC02 | 5/11/23 ² | 573.11 | < 0.00002443 | No | < 0.000171 | No |
| TSP031523-21 | MSC01 | 5/16/23 | 1718.40 | < 0.00000815 | No | < 0.00005703 | No |
| TSP031523-23 | MSC02 | 5/16/23 | 1708.00 | < 0.0000082 | No | < 0.00005738 | No |
| TSP031523-25 | MSC01 | 5/17/23 | 1630.39 | < 0.00000859 | No | < 0.00006011 | No |
| TSP031523-27 | MSC02 | 5/17/23 | 1688.85 | < 0.00000829 | No | < 0.00005803 | No |
| TSP031523-29 | MSC01 | 5/18/23 | 1679.35 | < 0.00000834 | No | < 0.00005836 | No |
| TSP031523-31 | MSC02 | 5/18/23 | 1733.33 | < 0.00000808 | No | < 0.00005654 | No |
| TSP031523-33 | MSC01 | 5/18/23 ² | 488.64 | < 0.00002865 | No | < 0.00020056 | No |

Attachment 4: Lead and Manganese Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | Lead | | Manganese | |
|--------------------------------------|--------------------|----------------------|--|---|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) |
| Action Level | | | | 0.050 mg/m ³ | | 0.200 mg/m ³ | |
| TSP031523-35 | MSC02 | 5/18/23 ² | 505.82 | < 0.00002768 | No | < 0.00019374 | No |
| TSP030323-11 | MSC01 | 5/23/23 | 1709.17 | < 0.00000819 | No | < 0.00005734 | No |
| TSP030923-07 | MSC02 | 5/23/23 | 1721.41 | < 0.00000813 | No | < 0.00005693 | No |
| TSP030923-09 | MSC01 | 5/24/23 | 1580.87 | < 0.00000886 | No | < 0.00006199 | No |
| TSP030923-11 | MSC02 | 5/24/23 | 1709.30 | < 0.00000819 | No | < 0.00005733 | No |
| TSP030923-13 | MSC01 | 5/25/23 | 1619.49 | < 0.00000864 | No | < 0.00006051 | No |
| TSP030923-15 | MSC02 | 5/25/23 | 1737.64 | < 0.00000806 | No | < 0.0000564 | No |
| TSP030923-17 | MSC01 | 5/25/23 ² | 534.21 | < 0.00002621 | No | < 0.00018345 | No |
| TSP030923-19 | MSC02 | 5/25/23 ² | 553.95 | < 0.00002527 | No | < 0.00017691 | No |
| TSP031223-33 | MSC01 | 5/31/23 | 1642.06 | < 0.00000853 | No | < 0.00005968 | No |
| TSP031223-35 | MSC02 | 5/31/23 | 1716.15 | < 0.00000816 | No | < 0.0000571 | No |
| TSP031223-37 | MSC01 | 6/01/23 | 1666.80 | < 0.0000084 | No | < 0.0000588 | No |
| TSP031223-39 | MSC02 | 6/01/23 | 1733.27 | < 0.00000808 | No | < 0.00005654 | No |
| TSP031223-41 | MSC01 | 6/01/23 ² | 575.36 | < 0.00002433 | No | < 0.00017033 | No |
| TSP031223-43 | MSC02 | 6/01/23 ² | 585.89 | < 0.0000239 | No | < 0.00016727 | No |
| TSP032123-15 | MSC01 | 6/06/23 | 1650.14 | < 0.00000848 | No | < 0.00005939 | No |
| TSP032123-17 | MSC02 | 6/06/23 ¹ | 913.80 | < 0.00001532 | No | < 0.00010724 | No |
| TSP032123-19 | MSC01 | 6/07/23 | 1645.12 | < 0.00000851 | No | < 0.00005957 | No |
| TSP032123-21 | MSC02 | 6/07/23 | 1718.75 | < 0.00000815 | No | < 0.00005702 | No |
| TSP032123-23 | MSC01 | 6/08/23 | 1669.41 | < 0.00000839 | No | < 0.0000587 | No |
| TSP032123-25 | MSC02 | 6/08/23 | 1742.99 | < 0.00000803 | No | < 0.00005623 | No |
| TSP032123-27 | MSC01 | 6/08/23 ² | 368.37 | < 0.00003801 | No | < 0.00026604 | No |
| TSP032123-29 | MSC02 | 6/08/23 ² | 481.50 | < 0.00002908 | No | < 0.00020353 | No |
| TSP032223-09 | MSC01 | 6/13/23 | 1666.70 | < 0.0000084 | No | < 0.0000588 | No |
| TSP032223-11 | MSC02 | 6/13/23 | 1724.26 | < 0.00000812 | No | < 0.00005684 | No |
| TSP032223-13 | MSC01 | 6/14/23 | 1638.49 | < 0.00000854 | No | < 0.00005981 | No |
| TSP032223-15 | MSC02 | 6/14/23 | 1699.87 | < 0.00000824 | No | < 0.00005765 | No |
| TSP032223-17 | MSC01 | 6/15/23 | 1660.87 | < 0.00000843 | No | < 0.00005901 | No |
| TSP032223-19 | MSC02 | 6/15/23 | 1725.22 | < 0.00000811 | No | < 0.0000568 | No |
| TSP032223-21 | MSC01 | 6/15/23 ² | 415.38 | < 0.0000337 | No | < 0.00023593 | No |
| TSP032223-23 | MSC02 | 6/15/23 ² | 409.09 | < 0.00003422 | No | < 0.00023956 | No |
| TSP031623-01 | MSC01 | 6/20/23 | 1598.40 | < 0.00000876 | No | < 0.00006131 | No |
| TSP032423-25 | MSC02 | 6/20/23 | 1691.60 | < 0.00000828 | No | < 0.00005793 | No |
| TSP032423-09 | MSC01 | 6/21/23 | 1670.69 | < 0.00000838 | No | < 0.00005866 | No |
| TSP032423-11 | MSC02 | 6/21/23 | 1565.11 | < 0.00000895 | No | < 0.00006262 | No |
| TSP032423-13 | MSC01 | 6/22/23 | 1655.41 | < 0.00000846 | No | < 0.0000592 | No |
| TSP032423-15 | MSC02 | 6/22/23 | 1733.52 | < 0.00000808 | No | < 0.00005653 | No |
| TSP032423-17 | MSC01 | 6/22/23 ² | 576.12 | < 0.0000243 | No | < 0.0001701 | No |
| TSP032423-19 | MSC02 | 6/22/23 ² | 592.80 | < 0.00002362 | No | < 0.00016532 | No |
| TSP031623-21 | MSC01 | 6/27/23 | 1638.68 | < 0.00000854 | No | < 0.0000598 | No |
| TSP031623-23 | MSC02 | 6/27/23 | 1709.23 | < 0.00000819 | No | < 0.00005734 | No |
| TSP031623-25 | MSC01 | 6/28/23 | 1650.36 | < 0.00000848 | No | < 0.00005938 | No |
| TSP031623-27 | MSC02 | 6/28/23 | 1726.32 | < 0.00000811 | No | < 0.00005677 | No |
| TSP031623-29 | MSC01 | 6/29/23 | 1644.56 | < 0.00000851 | No | < 0.00005959 | No |
| TSP031623-31 | MSC02 | 6/29/23 | 1762.76 | < 0.00000794 | No | < 0.00005559 | No |

Attachment 4: Lead and Manganese Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | Lead | | Manganese | |
|--------------------------------------|--------------------|----------------------|--|---|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) |
| Action Level | | | | 0.050 mg/m ³ | | 0.200 mg/m ³ | |
| TSP032223-33 | MSC01 | 6/29/23 ² | 388.84 | < 0.000036 | No | < 0.00025203 | No |
| TSP031623-35 | MSC02 | 6/29/23 ² | 385.72 | < 0.0000363 | No | < 0.00025407 | No |
| TSP032023-07 | MSC01 | 7/06/23 | 1657.74 | < 0.00000845 | No | < 0.00005912 | No |
| TSP032023-09 | MSC02 | 7/06/23 | 1726.90 | < 0.00000811 | No | < 0.00005675 | No |
| TSP032023-11 | MSC01 | 7/06/23 ² | 589.47 | < 0.00002375 | No | < 0.00016625 | No |
| TSP032023-13 | MSC02 | 7/06/23 ² | 590.35 | < 0.00002371 | No | < 0.000166 | No |
| TSP041823-53 | MSC01 | 7/11/23 | 1618.35 | < 0.00000865 | No | < 0.00006056 | No |
| TSP041823-55 | MSC02 | 7/11/23 | 1731.27 | < 0.00000809 | No | < 0.00005661 | No |
| TSP041823-57 | MSC01 | 7/12/23 | 1662.53 | < 0.00000842 | No | < 0.00005895 | No |
| TSP041823-59 | MSC02 | 7/12/23 | 1745.64 | < 0.00000802 | No | < 0.00005614 | No |
| TSP041823-61 | MSC01 | 7/13/23 | 1681.66 | < 0.00000833 | No | < 0.00005828 | No |
| TSP041823-63 | MSC02 | 7/13/23 | 1765.35 | < 0.00000793 | No | < 0.00005551 | No |
| TSP041823-65 | MSC01 | 7/13/23 ² | 556.36 | < 0.00002516 | No | < 0.00017614 | No |
| TSP041823-67 | MSC02 | 7/13/23 ² | 572.30 | < 0.00002446 | No | < 0.00017124 | No |
| TSP042123-49 | MSC01 | 7/18/23 | 1659.45 | < 0.00000844 | No | < 0.00005906 | No |
| TSP042123-51 | MSC02 | 7/18/23 | 1740.44 | < 0.00000804 | No | < 0.00005631 | No |
| TSP042123-53 | MSC01 | 7/19/23 | 1659.42 | < 0.00000844 | No | < 0.00005906 | No |
| TSP042123-55 | MSC02 | 7/19/23 | 1755.57 | < 0.00000797 | No | < 0.00005582 | No |
| TSP042123-57 | MSC01 | 7/20/23 | 1655.05 | < 0.00000846 | No | < 0.00005921 | No |
| TSP042123-59 | MSC02 | 7/20/23 | 1749.27 | < 0.000008 | No | < 0.00005602 | No |
| TSP042123-61 | MSC01 | 7/20/23 ² | 612.22 | < 0.00002287 | No | < 0.00016007 | No |
| TSP042123-63 | MSC02 | 7/20/23 ² | 617.13 | < 0.00002269 | No | < 0.0001588 | No |
| TSP042123-14 | MSC01 | 7/25/23 | 1633.53 | < 0.00000857 | No | < 0.00005999 | No |
| TSP042123-16 | MSC02 | 7/25/23 | 1711.34 | < 0.00000818 | No | < 0.00005727 | No |
| TSP042123-18 | MSC01 | 7/26/23 | 1680.55 | < 0.00000833 | No | < 0.00005831 | No |
| TSP042123-20 | MSC02 | 7/26/23 | 1763.35 | < 0.00000794 | No | < 0.00005558 | No |
| TSP042123-22 | MSC01 | 7/27/23 | 1589.42 | < 0.00000881 | No | < 0.00006166 | No |
| TSP042123-24 | MSC02 | 7/27/23 | 1736.19 | < 0.00000806 | No | < 0.00005645 | No |
| TSP042123-26 | MSC01 | 7/27/23 ² | 586.60 | < 0.00002387 | No | < 0.00016706 | No |
| TSP042123-28 | MSC02 | 7/27/23 ² | 598.13 | < 0.00002341 | No | < 0.00016384 | No |
| TSP041223-20 | MSC01 | 8/01/23 | 1646.87 | < 0.0000085 | No | < 0.00005951 | No |
| TSP041223-22 | MSC02 | 8/01/23 | 1701.27 | < 0.00000823 | No | < 0.0000576 | No |
| TSP041223-24 | MSC01 | 8/02/23 | 1639.56 | < 0.00000854 | No | < 0.00005977 | No |
| TSP041223-26 | MSC02 | 8/02/23 | 1720.38 | < 0.00000814 | No | < 0.00005696 | No |
| TSP041223-28 | MSC01 | 8/03/23 | 1657.85 | < 0.00000844 | No | < 0.00005911 | No |
| TSP041223-30 | MSC02 | 8/03/23 | 1735.31 | < 0.00000807 | No | < 0.00005647 | No |
| TSP041223-32 | MSC01 | 8/03/23 ² | 610.88 | < 0.00002292 | No | < 0.00016042 | No |
| TSP041223-34 | MSC02 | 8/03/23 ² | 621.16 | < 0.00002254 | No | < 0.00015777 | No |
| TSP041623-15 | MSC01 | 8/08/23 | 1664.80 | < 0.00000841 | No | < 0.00005887 | No |
| TSP041623-17 | MSC02 | 8/08/23 | 1743.15 | < 0.00000803 | No | < 0.00005622 | No |
| TSP041623-19 | MSC01 | 8/09/23 | 1680.65 | < 0.00000833 | No | < 0.00005831 | No |
| TSP041623-21 | MSC02 | 8/09/23 | 1758.02 | < 0.00000796 | No | < 0.00005574 | No |
| TSP041623-23 | MSC01 | 8/10/23 | 1664.64 | < 0.00000841 | No | < 0.00005887 | No |
| TSP041623-25 | MSC02 | 8/10/23 | 1738.90 | < 0.00000805 | No | < 0.00005636 | No |

Attachment 4: Lead and Manganese Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | Lead | | Manganese | |
|--------------------------------------|--------------------|----------------------|--|---|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) |
| Action Level | | | | 0.050 mg/m ³ | | 0.200 mg/m ³ | |
| TSP041623-27 | MSC01 | 8/10/23 ² | 487.23 | < 0.00002873 | No | < 0.00020114 | No |
| TSP041623-29 | MSC02 | 8/10/23 ² | 476.06 | < 0.00002941 | No | < 0.00020586 | No |
| TSP042023-02 | MSC01 | 8/15/23 | 1630.48 | < 0.00000859 | No | < 0.00006011 | No |
| TSP042023-04 | MSC02 | 8/15/23 | 1714.00 | < 0.00000817 | No | < 0.00005718 | No |
| TSP042023-06 | MSC01 | 8/16/23 | 1641.04 | < 0.00000853 | No | < 0.00005972 | No |
| TSP042023-08 | MSC02 | 8/16/23 | 1735.26 | < 0.00000807 | No | < 0.00005648 | No |
| TSP042023-10 | MSC01 | 8/17/23 | 1645.04 | < 0.00000851 | No | < 0.00005957 | No |
| TSP042023-12 | MSC02 | 8/17/23 | 1764.11 | < 0.00000794 | No | < 0.00005555 | No |
| TSP042023-14 | MSC01 | 8/17/23 ² | 558.45 | < 0.00002507 | No | < 0.00017549 | No |
| TSP042023-16 | MSC02 | 8/17/23 ² | 576.77 | < 0.00002427 | No | < 0.00016991 | No |
| TSP042023-18 | MSC01 | 8/22/23 | 1639.18 | < 0.00000854 | No | < 0.00005979 | No |
| TSP042023-20 | MSC02 | 8/22/23 | 1753.49 | < 0.00000798 | No | < 0.00005589 | No |
| TSP042023-22 | MSC01 | 8/23/23 | 1646.86 | < 0.0000085 | No | < 0.00005951 | No |
| TSP042023-24 | MSC02 | 8/23/23 | 1749.31 | < 0.000008 | No | < 0.00005602 | No |
| TSP042023-26 | MSC01 | 8/24/23 | 1668.15 | < 0.00000839 | No | < 0.00005875 | No |
| TSP042023-28 | MSC02 | 8/24/23 | 1743.00 | < 0.00000803 | No | < 0.00005622 | No |
| TSP042023-30 | MSC01 | 8/24/23 ² | 564.00 | < 0.00002482 | No | < 0.00017376 | No |
| TSP051123-52 | MSC02 | 8/24/23 ² | 570.89 | < 0.00002452 | No | < 0.00017166 | No |
| TSP051623-02 | MSC01 | 8/29/23 | 1605.03 | < 0.00000872 | No | < 0.00006106 | No |
| TSP051623-04 | MSC02 | 8/29/23 | 1685.09 | < 0.00000831 | No | < 0.00005816 | No |
| TSP051623-06 | MSC01 | 8/30/23 | 1657.79 | < 0.00000844 | No | < 0.00005911 | No |
| TSP051623-08 | MSC02 | 8/30/23 | 1735.38 | < 0.00000807 | No | < 0.00005647 | No |
| TSP051623-10 | MSC01 | 8/31/23 | 1702.15 | < 0.00000822 | No | < 0.00005757 | No |
| TSP051623-12 | MSC02 | 8/31/23 | 1761.08 | < 0.00000795 | No | < 0.00005565 | No |
| TSP051623-14 | MSC01 | 8/31/23 ² | 458.48 | < 0.00003054 | No | < 0.00021375 | No |
| TSP051623-16 | MSC02 | 8/31/23 ² | 483.13 | < 0.00002898 | No | < 0.00020284 | No |
| TSP042123-71 | MSC01 | 9/06/23 | 1650.38 | < 0.00000848 | No | < 0.00005938 | No |
| TSP042123-73 | MSC02 | 9/06/23 | 1724.18 | < 0.00000812 | No | < 0.00005684 | No |
| TSP042123-75 | MSC01 | 9/07/23 | 1676.08 | < 0.00000835 | No | < 0.00005847 | No |
| TSP042123-77 | MSC02 | 9/07/23 | 1754.73 | < 0.00000798 | No | < 0.00005585 | No |
| TSP042123-79 | MSC01 | 9/07/23 ² | 535.07 | < 0.00002616 | No | < 0.00018315 | No |
| TSP042123-81 | MSC02 | 9/07/23 ² | 551.11 | < 0.0000254 | No | < 0.00017782 | No |
| TSP050123-04 | MSC01 | 9/12/23 | 1651.22 | < 0.00000848 | No | < 0.00005935 | No |
| TSP050123-06 | MSC02 | 9/12/23 | 1740.06 | < 0.00000805 | No | < 0.00005632 | No |
| TSP050123-08 | MSC01 | 9/13/23 | 1658.11 | < 0.00000844 | No | < 0.0000591 | No |
| TSP050123-10 | MSC02 | 9/13/23 | 1754.92 | < 0.00000798 | No | < 0.00005584 | No |
| TSP050123-12 | MSC01 | 9/14/23 | 1646.66 | < 0.0000085 | No | < 0.00005951 | No |
| TSP050123-14 | MSC02 | 9/14/23 | 1734.38 | < 0.00000807 | No | < 0.0000565 | No |
| TSP050123-16 | MSC01 | 9/14/23 ² | 578.15 | < 0.00002422 | No | < 0.00016951 | No |
| TSP050123-18 | MSC02 | 9/14/23 ² | 588.15 | < 0.0000238 | No | < 0.00016662 | No |
| TSP051223-59 | MSC01 | 9/19/23 | 1642.31 | < 0.00000852 | No | < 0.00005967 | No |
| TSP051223-61 | MSC02 | 9/19/23 | 1729.17 | < 0.0000081 | No | < 0.00005667 | No |
| TSP051223-63 | MSC01 | 9/20/23 | 1658.18 | < 0.00000844 | No | < 0.0000591 | No |
| TSP051223-65 | MSC02 | 9/20/23 | 1742.81 | < 0.00000803 | No | < 0.00005623 | No |
| TSP051223-67 | MSC01 | 9/21/23 | 1645.81 | < 0.00000851 | No | < 0.00005955 | No |

Attachment 4: Lead and Manganese Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | Lead | | Manganese | |
|--------------------------------------|--------------------|-----------------------|--|---|---------------------|---|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) | Concentration in Air (mg/m ³) | Exceedance (Yes/No) |
| Action Level | | | | 0.050 mg/m ³ | | 0.200 mg/m ³ | |
| TSP051223-69 | MSC02 | 9/21/23 | 1733.42 | < 0.0000808 | No | < 0.00005654 | No |
| TSP051223-71 | MSC01 | 9/21/23 ² | 557.45 | < 0.00002511 | No | < 0.0001758 | No |
| TSP051223-73 | MSC02 | 9/21/23 ² | 562.79 | < 0.00002488 | No | < 0.00017413 | No |
| TSP051723-06 | MSC01 | 9/26/23 | 1651.15 | < 0.0000848 | No | < 0.00005935 | No |
| TSP051723-08 | MSC02 | 9/26/23 | 1747.70 | < 0.0000801 | No | < 0.00005607 | No |
| TSP051723-10 | MSC01 | 9/27/23 | 1665.33 | < 0.0000841 | No | < 0.00005885 | No |
| TSP051723-12 | MSC02 | 9/27/23 | 1745.81 | < 0.0000802 | No | < 0.00005613 | No |
| TSP051723-14 | MSC01 | 9/28/23 | 1629.13 | < 0.0000859 | No | < 0.00006015 | No |
| TSP051723-16 | MSC02 | 9/28/23 | 1720.58 | < 0.0000814 | No | < 0.00005696 | No |
| TSP051723-18 | MSC01 | 9/28/23 ² | 506.61 | < 0.00002763 | No | < 0.00019344 | No |
| TSP051723-20 | MSC02 | 9/28/23 ² | 504.09 | < 0.00002777 | No | < 0.00019441 | No |
| TSP042523-54 | MSC01 | 10/03/23 | 1655.09 | < 0.0000846 | No | < 0.00005921 | No |
| TSP042523-56 | MSC02 | 10/03/23 | 1732.09 | < 0.0000808 | No | < 0.00005658 | No |
| TSP042523-58 | MSC01 | 10/04/23 | 1658.87 | < 0.0000844 | No | < 0.00005908 | No |
| TSP042523-56 | MSC02 | 10/04/23 | 1751.40 | < 0.0000799 | No | < 0.00005596 | No |
| TSP042523-62 | MSC01 | 10/05/23 | 1661.94 | 0.00001065 | No | < 0.00005897 | No |
| TSP042523-64 | MSC02 | 10/05/23 | 1754.94 | < 0.0000798 | No | < 0.00005584 | No |
| TSP042523-66 | MSC01 | 10/05/23 ² | 529.98 | < 0.00002642 | No | < 0.00018491 | No |
| TSP042523-68 | MSC02 | 10/05/23 ² | 566.19 | < 0.00002473 | No | < 0.00017309 | No |
| TSP051923-08 | MSC01 | 10/10/23 | 1601.09 | < 0.0000874 | No | < 0.00006121 | No |
| TSP051923-10 | MSC02 | 10/10/23 | 1698.84 | < 0.0000824 | No | < 0.00005769 | No |
| TSP072823-02 | MSC01 | 10/11/23 | 1644.70 | < 0.0000851 | No | < 0.00005959 | No |
| TSP072823-04 | MSC02 | 10/11/23 | 1762.08 | < 0.0000795 | No | < 0.00005562 | No |
| TSP072823-06 | MSC01 | 10/12/23 | 1626.58 | < 0.0000861 | No | < 0.00006025 | No |
| TSP072823-08 | MSC02 | 10/12/23 | 1699.40 | < 0.0000824 | No | < 0.00005767 | No |
| TSP072823-10 | MSC01 | 10/12/23 ² | 569.08 | < 0.0000246 | No | < 0.00017221 | No |
| TSP072823-12 | MSC02 | 10/12/23 ² | 574.50 | < 0.00002437 | No | < 0.00017058 | No |
| TSP072823-16 | MSC01 | 10/17/23 | 1644.79 | < 0.0000851 | No | < 0.00005958 | No |
| TSP072823-18 | MSC02 | 10/17/23 | 1734.79 | < 0.0000807 | No | < 0.00005649 | No |
| TSP072823-20 | MSC01 | 10/18/23 | 1639.75 | < 0.0000854 | No | < 0.00005977 | No |
| TSP072823-22 | MSC02 | 10/18/23 | 1731.36 | < 0.0000809 | No | < 0.0000566 | No |
| TSP072823-24 | MSC01 | 10/19/23 | 1675.90 | < 0.0000835 | No | < 0.00005848 | No |
| TSP072823-26 | MSC02 | 10/19/23 | 1768.44 | < 0.0000792 | No | < 0.00005542 | No |
| TSP072823-28 | MSC01 | 10/19/23 ² | 508.80 | < 0.00002752 | No | < 0.00019261 | No |
| TSP072823-30 | MSC02 | 10/19/23 ² | 533.93 | < 0.00002622 | No | < 0.00018354 | No |

Notes:

¹Generator or sampler malfunction.

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

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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

J+ = estimated concentration biased high

< = below detection limit

ATTACHMENT 5
TOTAL SUSPENDED PARTICULATES
MONITORING RESULTS

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Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| GESTSP101722-640 | MSC01 | 12/7/22 | 1528.50 | 0.0154 | 0.004200 | 4.200 | 5,000 | No | 500 | No |
| GESTSP101722-641 | MSC02 | 12/7/22 | 1774.67 | 0.0196 | | | | | | |
| GESTSP101722-642 | MSC01 | 12/8/22 | 1612.07 | 0.0217 | 0.0000 | 0.00 | 5,000 | No | 500 | No |
| GESTSP101722-643 | MSC02 | 12/8/22 | 1814.62 | 0.0217 | | | | | | |
| GESTSP101722-644 | MSC01 | 12/8/22 ² | 450.97 | 0.0495 | -0.0189 | -18.90 | 5,000 | No | 500 | No |
| GESTSP101722-645 | MSC02 | 12/8/22 ² | 506.50 | 0.0306 | | | | | | |
| GESTSP101722-647 | MSC01 | 12/13/22 | 1630.62 | 0.0248 | -0.003500 | -3.50 | 5,000 | No | 500 | No |
| GESTSP101722-648 | MSC02 | 12/13/22 | 1809.55 | 0.0213 | | | | | | |
| GESTSP101722-649 | MSC01 | 12/14/22 | 1634.67 | 0.0304 | -0.010 | -10.40 | 5,000 | No | 500 | No |
| GESTSP101722-650 | MSC02 | 12/14/22 | 1835.58 | 0.020 | | | | | | |
| GESTSP101722-651 | MSC01 | 12/15/22 | 1615.77 | 0.0549 | 0.024 | 24.00 | 5,000 | No | 500 | No |
| GESTSP101722-652 | MSC02 | 12/15/22 | 1823.15 | 0.0309 | | | | | | |
| TSP113022-04 | MSC01 | 12/20/22 | 1682.18 | 0.0838 | -0.0505 | -50.50 | 5,000 | No | 500 | No |
| TSP113022-06 | MSC02 | 12/20/22 | 1798.10 | 0.0333 | | | | | | |
| TSP113022-08 | MSC01 | 12/21/22 | 1720.20 | 0.0368 | -0.0001 | -0.10 | 5,000 | No | 500 | No |
| TSP113022-10 | MSC02 | 12/21/22 | 1808.38 | 0.0369 | | | | | | |
| TSP113022-12 | MSC01 | 12/22/22 | 1537.10 | 0.0485 | -0.0675 | -67.50 | 5,000 | No | 500 | No |
| TSP113022-14 | MSC02 | 12/22/22 | 1720.94 | 0.116 | | | | | | |
| TSP113022-18 | MSC01 | 1/18/23 | 1552.94 | 0.0164 | -0.080400 | -80.40 | 5,000 | No | 500 | No |
| TSP113022-20 | MSC02 | 1/18/23 | 1672.75 | 0.0968 | | | | | | |
| TSP113022-22 | MSC01 | 1/19/23 | 1580.94 | 0.00816 | 0.0663 | 66.34 | 5,000 | No | 500 | No |
| TSP113022-24 | MSC02 | 1/19/23 | 1744.24 | 0.0745 | | | | | | |
| TSP113022-26 | MSC01 | 1/19/23 ² | 397.82 | 0.00327 J | -0.00068 | -0.68 | 5,000 | No | 500 | No |
| TSP113022-28 | MSC02 | 1/19/23 ² | 386.63 | < 0.00259 | | | | | | |
| TSP113022-30 | MSC01 | 1/24/23 | 1671.60 | 0.0235 | -0.080500 | -80.50 | 5,000 | No | 500 | No |
| TSP113022-32 | MSC02 | 1/24/23 | 1766.68 | 0.104 | | | | | | |
| TSP113022-36 | MSC01 | 1/25/23 | 1664.44 | 0.035 | 0.070 | 70.00 | 5,000 | No | 500 | No |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP113022-38 | MSC02 | 1/25/23 | 1758.33 | 0.105 | | | | | | |
| TSP113022-50 | MSC01 | 2/02/23 | 500.30 | 0.0372 | -0.0053 | -5.30 | 5,000 | No | 500 | No |
| TSP113022-52 | MSC02 | 2/02/23 | 545.96 | 0.0319 | | | | | | |
| TSP113022-56 | MSC01 | 2/07/23 | 1629.51 | 0.0270 | 0.0018 | 1.80 | 5,000 | No | 500 | No |
| TSP113022-58 | MSC02 | 2/07/23 | 1728.66 | 0.0252 | | | | | | |
| TSP113022-60 | MSC01 | 2/08/23 | 1675.36 | 0.0321 | 0.0067 | 6.70 | 5,000 | No | 500 | No |
| TSP113022-62 | MSC02 | 2/08/23 | 1766.71 | 0.0254 | | | | | | |
| TSP113022-64 | MSC01 | 2/09/23 | 1629.75 | 0.0329 | 0.0035 | 3.50 | 5,000 | No | 500 | No |
| TSP113022-66 | MSC02 | 2/09/23 | 1590.49 | 0.0294 | | | | | | |
| TSP112922-23 | MSC01 | 2/09/23 ² | 447.38 | 0.0329 | 0.008000 | 8.00 | 5,000 | No | 500 | No |
| TSP112922-25 | MSC02 | 2/09/23 ² | 474.14 | 0.0249 | | | | | | |
| TSP011823-02 | MSC01 | 2/14/23 | 1663.14 | 0.045 | -0.0035 | -3.50 | 5,000 | No | 500 | No |
| TSP011823-04 | MSC02 | 2/14/23 | 1741.11 | 0.0415 | | | | | | |
| TSP011823-06 | MSC01 | 2/15/23 | 1322.67 | 0.0213 | 0.0032 | 3.20 | 5,000 | No | 500 | No |
| TSP011823-08 | MSC02 | 2/15/23 | 1523.52 | 0.0245 | | | | | | |
| TSP011823-10 | MSC01 | 2/16/23 | 1627.75 | 0.0286 | -0.011500 | -11.50 | 5,000 | No | 500 | No |
| TSP011823-12 | MSC02 | 2/16/23 | 1729.90 | 0.0171 | | | | | | |
| TSP011823-14 | MSC01 | 2/16/23 ² | 424.73 | 0.0165 | 0.003 | 2.60 | 5,000 | No | 500 | No |
| TSP011823-16 | MSC02 | 2/16/23 ² | 472.40 | 0.0191 | | | | | | |
| TSP012323-03 | MSC01 | 2/21/23 | 1649.30 | 0.0361 | -0.0005 | -0.50 | 5,000 | No | 500 | No |
| TSP012323-05 | MSC02 | 2/21/23 | 1715.45 | 0.0356 | | | | | | |
| TSP012323-07 | MSC01 | 2/22/23 | 1677.34 | 0.0411 | 0.0799 | 79.90 | 5,000 | No | 500 | No |
| TSP012323-09 | MSC02 | 2/22/23 ³ | 732.84 | 0.121 | | | | | | |
| TSP012323-11 | MSC01 | 2/23/23 | 1631.81 | 0.0192 | -0.0002 | -0.20 | 5,000 | No | 500 | No |
| TSP011823-17 | MSC02 | 2/23/23 | 1676.16 | 0.019 | | | | | | |
| TSP011823-19 | MSC01 | 2/23/23 ² | 557.12 | 0.0185 | -0.0082 | -8.20 | 5,000 | No | 500 | No |
| TSP011823-21 | MSC02 | 2/23/23 ² | 585.02 | 0.0103 | | | | | | |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|------------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP013023-18 | MSC01 | 3/02/23 | 1630.46 | 0.0182 | -0.0046 | -4.60 | 5,000 | No | 500 | No |
| TSP013023-20 | MSC02 | 3/02/23 | 1707.28 | 0.0136 | | | | | | |
| TSP013123-52 | MSC01 | 3/02/23 ² | 480.87 | 0.0206 | 0.0041 | 4.10 | 5,000 | No | 500 | No |
| TSP013123-54 | MSC02 | 3/02/23 ² | 514.50 | 0.0247 | | | | | | |
| TSP013123-56 | MSC01 | 3/07/23 | 1643.67 | 0.0073 | 0.0033 | 3.30 | 5,000 | No | 500 | No |
| TSP013123-58 | MSC02 | 3/07/23 ³ | 862.14 | 0.0106 J | | | | | | |
| TSP020323-12 | MSC01 | 3/08/23 | 1634.86 | 0.00924 | 0.0002 | 0.17 | 5,000 | No | 500 | No |
| TSP020323-14 | MSC02 | 3/08/23 | 1711.00 | 0.00941 | | | | | | |
| TSP020323-16 | MSC01 | 3/09/23 | 1695.55 | 0.0117 | 0.0015 | 1.50 | 5,000 | No | 500 | No |
| TSP020323-18 | MSC02 | 3/09/23 | 1747.61 | 0.0132 | | | | | | |
| TSP020323-20 | MSC01 | 3/09/23 ² | 404.96 | 0.0143 | -0.0001 | -0.10 | 5,000 | No | 500 | No |
| TSP020323-22 | MSC02 | 3/09/23 ² | 456.94 | 0.0142 | | | | | | |
| TSP020323-26 | MSC01 | 3/14/23 | 1655.51 | 0.010 | -0.0005 | -0.51 | 5,000 | No | 500 | No |
| TSP020323-28 | MSC02 | 3/14/23 | 1739.40 | 0.00949 | | | | | | |
| TSP020323-30 | MSC01 | 3/16/23 | 1694.68 | 0.0218 | 0.0001 | 0.10 | 5,000 | No | 500 | No |
| TSP020323-32 | MSC02 | 3/16/23 | 1728.70 | 0.0219 | | | | | | |
| TSP020323-34 | MSC01 | 3/16/23 ² | 480.10 | 0.0344 | -0.0020 | -2.00 | 5,000 | No | 500 | No |
| TSP020623-02 | MSC02 | 3/16/23 ² | 519.14 | 0.0324 | | | | | | |
| TSP020623-06 | MSC01 | 3/21/23 | 1667.66 | 0.0188 | 0.0010 | 1.00 | 5,000 | No | 500 | No |
| TSP020623-12 | MSC02 | 3/21/23 | 1735.74 | 0.0198 | | | | | | |
| TSP020623-14 | MSC01 | 3/23/23 | 1556.49 | 0.0242 | -0.0054 | -5.40 | 5,000 | No | 500 | No |
| TSP020623-16 | MSC02 | 3/23/23 | 1667.06 | 0.0188 | | | | | | |
| TSP020623-18 | MSC01 | 3/23/23 ² | 466.67 | 0.0334 | -0.0122 | -12.20 | 5,000 | No | 500 | No |
| TSP020623-20 | MSC02 | 3/23/23 ^{1,2} | 293.01 | 0.0212 | | | | | | |
| TSP020223-23 | MSC01 | 3/28/23 | 1624.27 | 0.0215 | 0.0002 | 0.20 | 5,000 | No | 500 | No |
| TSP020223-25 | MSC02 | 3/28/23 | 1692.62 | 0.0217 | | | | | | |
| TSP020223-27 | MSC01 | 3/30/23 ² | 514.18 | 0.00778 J+ | -0.0066 | -6.62 | 5,000 | No | 500 | No |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP020223-29 | MSC02 | 3/30/23 ² | 548.95 | 0.0144 | | | | | | |
| TSP020223-39 | MSC01 | 4/04/23 | 1693.85 | 0.0237 | -0.0025 | -2.50 | 5,000 | No | 500 | No |
| TSP020323-62 | MSC02 | 4/04/23 | 1720.87 | 0.0212 | | | | | | |
| TSP020323-64 | MSC01 | 4/05/23 | 1663.88 | 0.0211 | -0.0036 | -3.60 | 5,000 | No | 500 | No |
| TSP020323-66 | MSC02 | 4/05/23 | 1735.90 | 0.0175 | | | | | | |
| TSP020323-68 | MSC01 | 4/06/23 | 1661.80 | 0.0285 | -0.0051 | -5.10 | 5,000 | No | 500 | No |
| TSP020323-70 | MSC02 | 4/06/23 | 1724.78 | 0.0234 | | | | | | |
| TSP020923-02 | MSC01 | 4/06/23 ² | 554.40 | 0.0162 | 0.0008 | 0.80 | 5,000 | No | 500 | No |
| TSP020923-04 | MSC02 | 4/06/23 ² | 581.88 | 0.017 | | | | | | |
| TSP021523-33 | MSC01 | 4/11/23 | 1698.82 | 0.024 | -0.0085 | -8.50 | 5,000 | No | 500 | No |
| TSP020823-01 | MSC02 | 4/11/23 | 1761.73 | 0.0155 | | | | | | |
| TSP020823-03 | MSC01 | 4/12/23 | 1629.85 | 0.0306 | 0.0008 | 0.80 | 5,000 | No | 500 | No |
| TSP020823-05 | MSC02 | 4/12/23 | 1688.62 | 0.0314 | | | | | | |
| TSP020823-07 | MSC01 | 4/13/23 | 1650.61 | 0.0351 | 0.0007 | 0.70 | 5,000 | No | 500 | No |
| TSP020823-09 | MSC02 | 4/13/23 | 1387.10 | 0.0358 | | | | | | |
| TSP020823-11 | MSC01 | 4/13/23 ² | 534.94 | 0.0295 | -0.0011 | -1.10 | 5,000 | No | 500 | No |
| TSP020823-13 | MSC02 | 4/13/23 ² | 552.25 | 0.0284 | | | | | | |
| TSP021623-18 | MSC01 | 4/18/23 | 1675.38 | 0.0205 | 0.0071 | 7.10 | 5,000 | No | 500 | No |
| TSP021623-20 | MSC02 | 4/18/23 | 1714.56 | 0.0276 | | | | | | |
| TSP021623-22 | MSC01 | 4/19/23 | 1626.92 | 0.0202 | 0.00 | 0.00 | 5,000 | No | 500 | No |
| TSP021623-24 | MSC02 | 4/19/23 | 1692.11 | 0.0202 | | | | | | |
| TSP021623-26 | MSC01 | 4/20/23 | 1616.86 | 0.0283 | -0.0023 | -2.30 | 5,000 | No | 500 | No |
| TSP022023-02 | MSC02 | 4/20/23 | 1701.84 | 0.026 | | | | | | |
| TSP022023-04 | MSC01 | 4/20/23 ² | 522.60 | 0.0346 | 0.0051 | 5.10 | 5,000 | No | 500 | No |
| TSP022023-06 | MSC02 | 4/20/23 ² | 619.33 | 0.0397 | | | | | | |
| TSP030323-31 | MSC01 | 4/25/23 | 1659.15 | 0.141 | -0.0876 | -87.60 | 5,000 | No | 500 | No |
| TSP030323-33 | MSC02 | 4/25/23 | 1711.83 | 0.0534 | | | | | | |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP030323-35 | MSC01 | 4/26/23 | 1654.76 | 0.0816 | -0.0411 | -41.10 | 5,000 | No | 500 | No |
| TSP030323-37 | MSC02 | 4/26/23 | 1722.56 | 0.0405 | | | | | | |
| TSP030323-39 | MSC01 | 4/27/23 | 1661.46 | 0.0716 | -0.0296 | -29.60 | 5,000 | No | 500 | No |
| TSP030923-01 | MSC02 | 4/27/23 ¹ | 776.68 | 0.042 | | | | | | |
| TSP030923-03 | MSC01 | 4/27/23 ² | 525.64 | 0.0795 | -0.0295 | -29.50 | 5,000 | No | 500 | No |
| TSP030923-05 | MSC02 | 4/27/23 ² | 504.07 | 0.05 | | | | | | |
| TSP031223-04 | MSC01 | 5/02/23 | 1701.48 | 0.0987 | -0.0645 | -64.50 | 5,000 | No | 500 | No |
| TSP031223-06 | MSC02 | 5/02/23 | 1737.80 | 0.0342 | | | | | | |
| TSP031223-08 | MSC01 | 5/03/23 | 1657.16 | 0.0132 | -0.0020 | -2.00 | 5,000 | No | 500 | No |
| TSP031223-10 | MSC02 | 5/03/23 | 1740.99 | 0.0112 | | | | | | |
| TSP031223-12 | MSC01 | 5/04/23 ² | 578.57 | 0.0164 | 0.0011 | 1.10 | 5,000 | No | 500 | No |
| TSP031223-14 | MSC02 | 5/04/23 ² | 566.93 | 0.0175 | | | | | | |
| TSP031223-18 | MSC01 | 5/09/23 | 1652.75 | 0.0241 | -0.0056 | -5.60 | 5,000 | No | 500 | No |
| TSP031423-02 | MSC02 | 5/09/23 | 1734.22 | 0.0185 | | | | | | |
| TSP031423-04 | MSC01 | 5/10/23 | 1658.93 | 0.0307 | -0.0075 | -7.50 | 5,000 | No | 500 | No |
| TSP031423-06 | MSC02 | 5/10/23 | 1722.85 | 0.0232 | | | | | | |
| TSP031423-08 | MSC01 | 5/11/23 | 1696.93 | 0.0259 | -0.0028 | -2.80 | 5,000 | No | 500 | No |
| TSP031423-10 | MSC02 | 5/11/23 | 1724.38 | 0.0231 | | | | | | |
| TSP031423-12 | MSC01 | 5/11/23 ² | 512.83 | 0.0228 | 0.0133 | 13.30 | 5,000 | No | 500 | No |
| TSP031423-14 | MSC02 | 5/11/23 ² | 573.11 | 0.0361 | | | | | | |
| TSP031523-21 | MSC01 | 5/16/23 | 1718.40 | 0.0164 | 0.0003 | 0.30 | 5,000 | No | 500 | No |
| TSP031523-23 | MSC02 | 5/16/23 | 1708.00 | 0.0167 | | | | | | |
| TSP031523-25 | MSC01 | 5/17/23 | 1630.39 | 0.0212 | -0.002 | -1.60 | 5,000 | No | 500 | No |
| TSP031523-27 | MSC02 | 5/17/23 | 1688.85 | 0.0196 | | | | | | |
| TSP031523-29 | MSC01 | 5/18/23 | 1679.35 | 0.0176 | 0.0019 | 1.90 | 5,000 | No | 500 | No |
| TSP031523-31 | MSC02 | 5/18/23 | 1733.33 | 0.0195 | | | | | | |
| TSP031523-33 | MSC01 | 5/18/23 ² | 488.64 | 0.0244 | 0.0007 | 0.70 | 5,000 | No | 500 | No |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP031523-35 | MSC02 | 5/18/23 ² | 505.82 | 0.0251 | | | | | | |
| TSP030323-11 | MSC01 | 5/23/23 | 1709.17 | 0.0304 | 0.0294 | 29.40 | 5,000 | No | 500 | No |
| TSP030923-07 | MSC02 | 5/23/23 | 1721.41 | 0.0598 | | | | | | |
| TSP030923-09 | MSC01 | 5/24/23 | 1580.87 | 0.0513 | 0.0007 | 0.70 | 5,000 | No | 500 | No |
| TSP030923-11 | MSC02 | 5/24/23 | 1709.30 | 0.052 | | | | | | |
| TSP030923-13 | MSC01 | 5/25/23 | 1619.49 | 0.0373 | -0.0032 | -3.20 | 5,000 | No | 500 | No |
| TSP030923-15 | MSC02 | 5/25/23 | 1737.64 | 0.0341 | | | | | | |
| TSP030923-17 | MSC01 | 5/25/23 ² | 534.21 | 0.0268 | 0.0086 | 8.60 | 5,000 | No | 500 | No |
| TSP030923-19 | MSC02 | 5/25/23 ² | 553.95 | 0.0354 | | | | | | |
| TSP031223-33 | MSC01 | 5/31/23 | 1642.06 | 0.0245 | -0.0078 | -7.80 | 5,000 | No | 500 | No |
| TSP031223-35 | MSC02 | 5/31/23 | 1716.15 | 0.0167 | | | | | | |
| TSP031223-37 | MSC01 | 6/01/23 | 1666.80 | 0.0499 | 0.0066 | 6.60 | 5,000 | No | 500 | No |
| TSP031223-39 | MSC02 | 6/01/23 | 1733.27 | 0.0565 | | | | | | |
| TSP031223-41 | MSC01 | 6/01/23 ² | 575.36 | 0.0525 | 0.0008 | 0.80 | 5,000 | No | 500 | No |
| TSP031223-43 | MSC02 | 6/01/23 ² | 585.89 | 0.0533 | | | | | | |
| TSP032123-15 | MSC01 | 6/06/23 | 1650.14 | 0.0233 | 0.0182 | 18.20 | 5,000 | No | 500 | No |
| TSP032123-17 | MSC02 | 6/06/23 ¹ | 913.80 | 0.0415 | | | | | | |
| TSP032123-19 | MSC01 | 6/07/23 | 1645.12 | 0.0168 | 0.0001 | 0.10 | 5,000 | No | 500 | No |
| TSP032123-21 | MSC02 | 6/07/23 | 1718.75 | 0.0169 | | | | | | |
| TSP032123-23 | MSC01 | 6/08/23 | 1669.41 | 0.035 | -0.0141 | -14.10 | 5,000 | No | 500 | No |
| TSP032123-25 | MSC02 | 6/08/23 | 1742.99 | 0.0209 | | | | | | |
| TSP032123-27 | MSC01 | 6/08/23 ² | 368.37 | 0.0282 | 0.0009 | 0.90 | 5,000 | No | 500 | No |
| TSP032123-29 | MSC02 | 6/08/23 ² | 481.50 | 0.0291 | | | | | | |
| TSP032223-09 | MSC01 | 6/13/23 | 1666.70 | 0.0198 | -0.0041 | -4.10 | 5,000 | No | 500 | No |
| TSP032223-11 | MSC02 | 6/13/23 | 1724.26 | 0.0157 | | | | | | |
| TSP032223-13 | MSC01 | 6/14/23 | 1638.49 | 0.0177 | 0.0029 | 2.90 | 5,000 | No | 500 | No |
| TSP032223-15 | MSC02 | 6/14/23 | 1699.87 | 0.0206 | | | | | | |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP032223-17 | MSC01 | 6/15/23 | 1660.87 | 0.0247 | 0.0045 | 4.50 | 5,000 | No | 500 | No |
| TSP032223-19 | MSC02 | 6/15/23 | 1725.22 | 0.0292 | | | | | | |
| TSP032223-21 | MSC01 | 6/15/23 ² | 415.38 | 0.0248 | 0.0082 | 8.20 | 5,000 | No | 500 | No |
| TSP032223-23 | MSC02 | 6/15/23 ² | 409.09 | 0.0166 J+ | | | | | | |
| TSP031623-01 | MSC01 | 6/20/23 | 1598.40 | 0.0292 | 0.0062 | 6.20 | 5,000 | No | 500 | No |
| TSP032423-25 | MSC02 | 6/20/23 | 1691.60 | 0.0354 | | | | | | |
| TSP032423-09 | MSC01 | 6/21/23 | 1670.69 | 0.0275 | 0.0014 | 1.40 | 5,000 | No | 500 | No |
| TSP032423-11 | MSC02 | 6/21/23 | 1565.11 | 0.0289 | | | | | | |
| TSP032423-13 | MSC01 | 6/22/23 | 1655.41 | 0.0339 | 0.0026 | 2.60 | 5,000 | No | 500 | No |
| TSP032423-15 | MSC02 | 6/22/23 | 1733.52 | 0.0365 | | | | | | |
| TSP032423-17 | MSC01 | 6/22/23 ² | 576.12 | 0.042 | -0.0008 | -0.80 | 5,000 | No | 500 | No |
| TSP032423-19 | MSC02 | 6/22/23 ² | 592.80 | 0.0412 | | | | | | |
| TSP031623-21 | MSC01 | 6/27/23 | 1638.68 | 0.0295 | -0.0056 | -5.60 | 5,000 | No | 500 | No |
| TSP031623-23 | MSC02 | 6/27/23 | 1709.23 | 0.0239 | | | | | | |
| TSP031623-25 | MSC01 | 6/28/23 | 1650.36 | 0.0241 | -0.0072 | -7.20 | 5,000 | No | 500 | No |
| TSP031623-27 | MSC02 | 6/28/23 | 1726.32 | 0.0169 | | | | | | |
| TSP031623-29 | MSC01 | 6/29/23 | 1644.56 | 0.0228 | -0.0067 | -6.70 | 5,000 | No | 500 | No |
| TSP031623-31 | MSC02 | 6/29/23 | 1762.76 | 0.0161 | | | | | | |
| TSP032223-33 | MSC01 | 6/29/23 ² | 388.84 | 0.0257 | 0.0037 | 3.70 | 5,000 | No | 500 | No |
| TSP031623-35 | MSC02 | 6/29/23 ² | 385.72 | 0.022 J+ | | | | | | |
| TSP032023-07 | MSC01 | 7/06/23 | 1657.74 | 0.0275 | -0.0003 | -0.30 | 5,000 | No | 500 | No |
| TSP032023-09 | MSC02 | 7/06/23 | 1726.90 | 0.0272 | | | | | | |
| TSP032023-11 | MSC01 | 7/06/23 ² | 589.47 | 0.0316 | 0.0028 | 2.80 | 5,000 | No | 500 | No |
| TSP032023-13 | MSC02 | 7/06/23 ² | 590.35 | 0.0344 | | | | | | |
| TSP041823-53 | MSC01 | 7/11/23 | 1618.35 | 0.0185 | 0.0100 | 10.00 | 5,000 | No | 500 | No |
| TSP041823-55 | MSC02 | 7/11/23 | 1731.27 | 0.0285 | | | | | | |
| TSP041823-57 | MSC01 | 7/12/23 | 1662.53 | 0.0183 | 0.0034 | 3.40 | 5,000 | No | 500 | No |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP041823-59 | MSC02 | 7/12/23 | 1745.64 | 0.0217 | | | | | | |
| TSP041823-61 | MSC01 | 7/13/23 | 1681.66 | 0.0221 | 0.0016 | 1.60 | 5,000 | No | 500 | No |
| TSP041823-63 | MSC02 | 7/13/23 | 1765.35 | 0.0237 | | | | | | |
| TSP041823-65 | MSC01 | 7/13/23 ² | 556.36 | 0.0214 | 0.0004 | 0.40 | 5,000 | No | 500 | No |
| TSP041823-67 | MSC02 | 7/13/23 ² | 572.30 | 0.0218 | | | | | | |
| TSP042123-49 | MSC01 | 7/18/23 | 1659.45 | 0.0468 | -0.0038 | -3.80 | 5,000 | No | 500 | No |
| TSP042123-51 | MSC02 | 7/18/23 | 1740.44 | 0.0430 | | | | | | |
| TSP042123-53 | MSC01 | 7/19/23 | 1659.42 | 0.0466 | -0.0141 | -14.10 | 5,000 | No | 500 | No |
| TSP042123-55 | MSC02 | 7/19/23 | 1755.57 | 0.0325 | | | | | | |
| TSP042123-57 | MSC01 | 7/20/23 | 1655.05 | 0.0280 | -0.0044 | -4.40 | 5,000 | No | 500 | No |
| TSP042123-59 | MSC02 | 7/20/23 | 1749.27 | 0.0236 | | | | | | |
| TSP042123-61 | MSC01 | 7/20/23 ² | 612.22 | 0.0381 | -0.0059 | -5.90 | 5,000 | No | 500 | No |
| TSP042123-63 | MSC02 | 7/20/23 ² | 617.13 | 0.0322 | | | | | | |
| TSP042123-14 | MSC01 | 7/25/23 | 1633.53 | 0.0240 | -0.0052 | -5.20 | 5,000 | No | 500 | No |
| TSP042123-16 | MSC02 | 7/25/23 | 1711.34 | 0.0188 | | | | | | |
| TSP042123-18 | MSC01 | 7/26/23 | 1680.55 | 0.0219 | -0.0007 | -0.70 | 5,000 | No | 500 | No |
| TSP042123-20 | MSC02 | 7/26/23 | 1763.35 | 0.0212 | | | | | | |
| TSP042123-22 | MSC01 | 7/27/23 | 1589.42 | 0.0488 | -0.0051 | -5.10 | 5,000 | No | 500 | No |
| TSP042123-24 | MSC02 | 7/27/23 | 1736.19 | 0.0437 | | | | | | |
| TSP042123-26 | MSC01 | 7/27/23 ² | 586.60 | 0.0753 | -0.0183 | -18.30 | 5,000 | No | 500 | No |
| TSP042123-28 | MSC02 | 7/27/23 ² | 598.13 | 0.0570 | | | | | | |
| TSP041223-20 | MSC01 | 8/01/23 | 1646.87 | 0.0397 | -0.0047 | -4.70 | 5,000 | No | 500 | No |
| TSP041223-22 | MSC02 | 8/01/23 | 1701.27 | 0.0350 | | | | | | |
| TSP041223-24 | MSC01 | 8/02/23 | 1639.56 | 0.0279 | -0.0097 | -9.70 | 5,000 | No | 500 | No |
| TSP041223-26 | MSC02 | 8/02/23 | 1720.38 | 0.0182 | | | | | | |
| TSP041223-28 | MSC01 | 8/03/23 | 1657.85 | 0.0274 | -0.0018 | -1.80 | 5,000 | No | 500 | No |
| TSP041223-30 | MSC02 | 8/03/23 | 1735.31 | 0.0256 | | | | | | |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP041223-32 | MSC01 | 8/03/23 ² | 610.88 | 0.0321 | 0.0154 | 15.40 | 5,000 | No | 500 | No |
| TSP041223-34 | MSC02 | 8/03/23 ² | 621.16 | 0.0475 | | | | | | |
| TSP041623-15 | MSC01 | 8/08/23 | 1664.80 | 0.0286 | 0.0126 | 12.60 | 5,000 | No | 500 | No |
| TSP041623-17 | MSC02 | 8/08/23 | 1743.15 | 0.0412 | | | | | | |
| TSP041623-19 | MSC01 | 8/09/23 | 1680.65 | 0.0243 | -0.0041 | -4.10 | 5,000 | No | 500 | No |
| TSP041623-21 | MSC02 | 8/09/23 | 1758.02 | 0.0202 | | | | | | |
| TSP041623-23 | MSC01 | 8/10/23 | 1664.64 | 0.0142 | -0.0019 | -1.90 | 5,000 | No | 500 | No |
| TSP041623-25 | MSC02 | 8/10/23 | 1738.90 | 0.0123 | | | | | | |
| TSP041623-27 | MSC01 | 8/10/23 ² | 487.23 | 0.0246 | -0.0034 | -3.40 | 5,000 | No | 500 | No |
| TSP041623-29 | MSC02 | 8/10/23 ² | 476.06 | 0.0212 | | | | | | |
| TSP042023-02 | MSC01 | 8/15/23 | 1630.48 | 0.0178 | -0.0019 | -1.90 | 5,000 | No | 500 | No |
| TSP042023-04 | MSC02 | 8/15/23 | 1714.00 | 0.0159 | | | | | | |
| TSP042023-06 | MSC01 | 8/16/23 | 1641.04 | 0.0182 | -0.0026 | -2.60 | 5,000 | No | 500 | No |
| TSP042023-08 | MSC02 | 8/16/23 | 1735.26 | 0.0156 | | | | | | |
| TSP042023-10 | MSC01 | 8/17/23 | 1645.04 | 0.0182 | -0.0037 | -3.70 | 5,000 | No | 500 | No |
| TSP042023-12 | MSC02 | 8/17/23 | 1764.11 | 0.0145 | | | | | | |
| TSP042023-14 | MSC01 | 8/17/23 ² | 558.45 | 0.0240 | 0.0018 | 1.80 | 5,000 | No | 500 | No |
| TSP042023-16 | MSC02 | 8/17/23 ² | 576.77 | 0.0258 | | | | | | |
| TSP042023-18 | MSC01 | 8/22/23 | 1639.18 | 0.0416 | -0.0248 | -24.80 | 5,000 | No | 500 | No |
| TSP042023-20 | MSC02 | 8/22/23 | 1753.49 | 0.0168 | | | | | | |
| TSP042023-22 | MSC01 | 8/23/23 | 1646.86 | 0.0285 | -0.0032 | -3.20 | 5,000 | No | 500 | No |
| TSP042023-24 | MSC02 | 8/23/23 | 1749.31 | 0.0253 | | | | | | |
| TSP042023-26 | MSC01 | 8/24/23 | 1668.15 | 0.0248 | 0.0068 | 6.80 | 5,000 | No | 500 | No |
| TSP042023-28 | MSC02 | 8/24/23 | 1743.00 | 0.0316 | | | | | | |
| TSP042023-30 | MSC01 | 8/24/23 ² | 564.00 | 0.0576 | -0.0089 | -8.90 | 5,000 | No | 500 | No |
| TSP051123-52 | MSC02 | 8/24/23 ² | 570.89 | 0.0487 | | | | | | |
| TSP051623-02 | MSC01 | 8/29/23 | 1605.03 | 0.0400 | 0.0033 | 3.30 | 5,000 | No | 500 | No |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP051623-04 | MSC02 | 8/29/23 | 1685.09 | 0.0433 | | | | | | |
| TSP051623-06 | MSC01 | 8/30/23 | 1657.79 | 0.0449 | -0.0083 | -8.30 | 5,000 | No | 500 | No |
| TSP051623-08 | MSC02 | 8/30/23 | 1735.38 | 0.0366 | | | | | | |
| TSP051623-10 | MSC01 | 8/31/23 | 1702.15 | 0.0681 | -0.0128 | -12.80 | 5,000 | No | 500 | No |
| TSP051623-12 | MSC02 | 8/31/23 | 1761.08 | 0.0553 | | | | | | |
| TSP051623-14 | MSC01 | 8/31/23 ² | 458.48 | 0.0641 | -0.0119 | -11.90 | 5,000 | No | 500 | No |
| TSP051623-16 | MSC02 | 8/31/23 ² | 483.13 | 0.0522 | | | | | | |
| TSP042123-71 | MSC01 | 9/06/23 | 1650.38 | 0.0296 | 0.0019 | 1.90 | 5,000 | No | 500 | No |
| TSP042123-73 | MSC02 | 9/06/23 | 1724.18 | 0.0315 | | | | | | |
| TSP042123-75 | MSC01 | 9/07/23 | 1676.08 | 0.0264 | -0.0009 | -0.90 | 5,000 | No | 500 | No |
| TSP042123-77 | MSC02 | 9/07/23 | 1754.73 | 0.0255 | | | | | | |
| TSP042123-79 | MSC01 | 9/07/23 ² | 535.07 | 0.0368 | 0.0004 | 0.40 | 5,000 | No | 500 | No |
| TSP042123-81 | MSC02 | 9/07/23 ² | 551.11 | 0.0372 | | | | | | |
| TSP050123-04 | MSC01 | 9/12/23 | 1651.22 | 0.0435 | -0.0042 | -4.20 | 5,000 | No | 500 | No |
| TSP050123-06 | MSC02 | 9/12/23 | 1740.06 | 0.0393 | | | | | | |
| TSP050123-08 | MSC01 | 9/13/23 | 1658.11 | 0.0316 | 0.0001 | 0.10 | 5,000 | No | 500 | No |
| TSP050123-10 | MSC02 | 9/13/23 | 1754.92 | 0.0317 | | | | | | |
| TSP050123-12 | MSC01 | 9/14/23 | 1646.66 | 0.0216 | -0.0040 | -4.00 | 5,000 | No | 500 | No |
| TSP050123-14 | MSC02 | 9/14/23 | 1734.38 | 0.0176 | | | | | | |
| TSP050123-16 | MSC01 | 9/14/23 ² | 578.15 | 0.0486 | 0.0143 | 14.30 | 5,000 | No | 500 | No |
| TSP050123-18 | MSC02 | 9/14/23 ² | 588.15 | 0.0343 | | | | | | |
| TSP051223-59 | MSC01 | 9/19/23 | 1642.31 | 0.0227 | -0.0026 | -2.60 | 5,000 | No | 500 | No |
| TSP051223-61 | MSC02 | 9/19/23 | 1729.17 | 0.0201 | | | | | | |
| TSP051223-63 | MSC01 | 9/20/23 | 1658.18 | 0.0663 | 0.0026 | 2.60 | 5,000 | No | 500 | No |
| TSP051223-65 | MSC02 | 9/20/23 | 1742.81 | 0.0689 | | | | | | |
| TSP051223-67 | MSC01 | 9/21/23 | 1645.81 | 0.0778 | -0.0057 | -5.70 | 5,000 | No | 500 | No |
| TSP051223-69 | MSC02 | 9/21/23 | 1733.42 | 0.0721 | | | | | | |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|-----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP051223-71 | MSC01 | 9/21/23 ² | 557.45 | 0.0777 | 0.0022 | 2.20 | 5,000 | No | 500 | No |
| TSP051223-73 | MSC02 | 9/21/23 ² | 562.79 | 0.0755 | | | | | | |
| TSP051723-06 | MSC01 | 9/26/23 | 1651.15 | 0.024 | -0.0048 | -4.80 | 5,000 | No | 500 | No |
| TSP051723-08 | MSC02 | 9/26/23 | 1747.70 | 0.0192 | | | | | | |
| TSP051723-10 | MSC01 | 9/27/23 | 1665.33 | 0.0269 | -0.0026 | -2.60 | 5,000 | No | 500 | No |
| TSP051723-12 | MSC02 | 9/27/23 | 1745.81 | 0.0243 | | | | | | |
| TSP051723-14 | MSC01 | 9/28/23 | 1629.13 | 0.0355 | -0.0007 | -0.70 | 5,000 | No | 500 | No |
| TSP051723-16 | MSC02 | 9/28/23 | 1720.58 | 0.0348 | | | | | | |
| TSP051723-18 | MSC01 | 9/28/23 ² | 506.61 | 0.0456 | 0.0037 | 3.70 | 5,000 | No | 500 | No |
| TSP051723-20 | MSC02 | 9/28/23 ² | 504.09 | 0.0419 | | | | | | |
| TSP042523-54 | MSC01 | 10/03/23 | 1655.09 | 0.0234 | 0.0030 | 3.00 | 5,000 | No | 500 | No |
| TSP042523-56 | MSC02 | 10/03/23 | 1732.09 | 0.0264 | | | | | | |
| TSP042523-58 | MSC01 | 10/04/23 | 1658.87 | 0.0369 | -0.0019 | -1.90 | 5,000 | No | 500 | No |
| TSP042523-56 | MSC02 | 10/04/23 | 1751.40 | 0.035 | | | | | | |
| TSP042523-62 | MSC01 | 10/05/23 | 1661.94 | 0.0528 | 0.0055 | 5.50 | 5,000 | No | 500 | No |
| TSP042523-64 | MSC02 | 10/05/23 | 1754.94 | 0.0473 | | | | | | |
| TSP042523-66 | MSC01 | 10/05/23 ² | 529.98 | 0.0609 | 0.0102 | 10.20 | 5,000 | No | 500 | No |
| TSP042523-68 | MSC02 | 10/05/23 ² | 566.19 | 0.0507 | | | | | | |
| TSP051923-08 | MSC01 | 10/10/23 | 1601.09 | 0.0134 | -0.0013 | -1.30 | 5,000 | No | 500 | No |
| TSP051923-10 | MSC02 | 10/10/23 | 1698.84 | 0.0147 | | | | | | |
| TSP072823-02 | MSC01 | 10/11/23 | 1644.70 | 0.0128 | 0.0038 | 3.80 | 5,000 | No | 500 | No |
| TSP072823-04 | MSC02 | 10/11/23 | 1762.08 | 0.0166 | | | | | | |
| TSP072823-06 | MSC01 | 10/12/23 | 1626.58 | 0.0413 | -0.0069 | -6.90 | 5,000 | No | 500 | No |
| TSP072823-08 | MSC02 | 10/12/23 | 1699.40 | 0.0344 | | | | | | |
| TSP072823-10 | MSC01 | 10/12/23 ² | 569.08 | 0.0457 | 0.0173 | 17.30 | 5,000 | No | 500 | No |
| TSP072823-12 | MSC02 | 10/12/23 ² | 574.50 | 0.0284 | | | | | | |
| TSP072823-16 | MSC01 | 10/17/23 | 1644.79 | 0.0241 | -0.0076 | -7.60 | 5,000 | No | 500 | No |

Attachment 5: Total Suspended Particulates Monitoring Results

| Sample, Date and Station Information | | | Sampler Run Information | TSP | | | | | | |
|--------------------------------------|--------------------|-----------------------|--|---|--|--|-----------------------------------|---------------------|--|---------------------|
| Sample ID | Monitoring Station | Sample End Date | Total Air Volume Monitored (m ³) | Concentration in Air (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (mg/m ³) | TSP Perimeter Concentration (Downwind - Upwind) (ug/m ³) | Cal/OSHA PEL (ug/m ³) | Exceedance (Yes/No) | HERO Action Level (ug/m ³) | Exceedance (Yes/No) |
| TSP072823-18 | MSC02 | 10/17/23 | 1734.79 | 0.0165 | | | | | | |
| TSP072823-20 | MSC01 | 10/18/23 | 1639.75 | 0.0212 | -0.0038 | -3.80 | 5,000 | No | 500 | No |
| TSP072823-22 | MSC02 | 10/18/23 | 1731.36 | 0.0174 | | | | | | |
| TSP072823-24 | MSC01 | 10/19/23 | 1675.90 | 0.0506 | 0.0037 | 3.70 | 5,000 | No | 500 | No |
| TSP072823-26 | MSC02 | 10/19/23 | 1768.44 | 0.0469 | | | | | | |
| TSP072823-28 | MSC01 | 10/19/23 ² | 508.80 | 0.0833 | 0.0104 | 10.40 | 5,000 | No | 500 | No |
| TSP072823-30 | MSC02 | 10/19/23 ² | 533.93 | 0.0729 | | | | | | |

Notes:

¹Generator or sampler malfunction

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

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

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

J+ = estimated concentration biased high

m³ = cubic meters

mg/m³ = milligrams per cubic meter

Bold = result above project screening criteria

ATTACHMENT 6

RADIONUCLIDES OF CONCERN AIR SAMPLING RESULTS

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Attachment 6: Radionuclides of Concern Air Sampling Results

| Date | Sample Location | Duration of Run (min) | Cesium-137 | Plutonium-239/240 | Radium-226 | Strontium-90 | Cobalt-60 | Thorium-232 | Exceedance (Yes/No) |
|-------------------|-----------------|-----------------------|-------------|-------------------|-------------|--------------|-------------|-------------|---------------------|
| | | | 4.00E-11 | 4.00E-15 | 1.80E-13 | 1.20E-12 | 1.00E-11 | 1.20E-15 | |
| | | | μCi/mL | μCi/mL | μCi/mL | μCi/mL | μCi/mL | μCi/mL | |
| 12/6/22 -12/8/22 | 1 | 3178 | 3.91E-15 U | 7.24E-16 UJ | 4.57E-15 U | 2.1E-14 U | 5.28E-15 U | 3.94E-16 U | No |
| | 2 | 3189 | 4.13E-15 U | 1.61E-15 UJ | 5.73E-15 J | 1.9E-14 U | 4.91E-15 U | 1.24E-16 | No |
| 12/12/22-12/15/22 | 1 | 4747 | 2.85E-15 U | 6.01E-16 UJ | 2.42E-15 U | 1.69E-14 U | 2.8E-15 U | 2.75E-16 U | No |
| | 2 | 4777 | 2.91E-15 U | 9.2E-16 UJ | 4.84E-15 J | 1.39E-14 U | 2.77E-15 U | 2.63E-16 | No |
| 12/19/22-12/22/22 | 1 | 4342 | 2.63E-15 U | 6.31E-16 UJ | 5.32E-15 J | 1.9E-14 U | 3.6E-15 U | 2.64E-16 J | No |
| | 2 | 4348 | 7.16E-15 U | 6.72E-16 UJ | 4.65E-15 J | 1.6E-14 U | 7.04E-15 U | 2.92E-16 UJ | No |
| 01/17/23-01/19/23 | 1 | 3089 | 5.32E-15 U | 5.7E-16 U | 8.1E-14 U | 2.48E-14 UJ | 5.08E-15 U | 4.01E-16 U | No |
| | 2 | 3097 | 3.83E-15 U | 7.51E-16 U | 4.83E-14 U | 2.03E-14 U | 4.53E-15 U | 3.98E-16 U | No |
| 01/23/23-01/25/23 | 1 | 3403 | 3.58E-15 U | 6.37E-16 UJ | 4.55E-14 UJ | 1.68E-14 U | 4.13E-15 UJ | 3.87E-16 U | No |
| | 1* | 3403 | 4.41E-15 U | 9.47E-16 UJ | 4.34E-14 UJ | 2E-14 U | 5.59E-15 U | 4.1E-16 U | No |
| | 2 | 3233 | 4.58E-15 UJ | 6.03E-16 UJ | 8.04E-14 UJ | 1.98E-14 U | 5.72E-15 U | 4.68E-16 U | No |
| 02/01/23-02/02/23 | 1 | 1819 | 1.42E-14 U | 9.32E-16 U | 2.86E-13 UJ | 3.74E-14 U | 1.64E-14 U | 4.26E-16 U | No ¹ |
| | 2 | 1900 | 9.03E-15 U | 1.47E-15 U | 1.37E-13 UJ | 3.27E-14 U | 9.52E-15 U | 7.28E-16 U | No |
| 02/06/23-02/09/23 | 1 | 4717 | 3.23E-15 U | 4.56E-16 UJ | 7.41E-14 | 1.21E-14 U | 3.42E-15 U | 2.18E-16 UJ | No |
| | 2 | 4751 | 2.54E-15 U | 4.47E-16 UJ | 3.07E-14 U | 1.33E-14 U | 3.23E-15 U | 5.65E-16 U | No |
| 02/13/23-02/16/23 | 1 | 4684 | 3.13E-15 U | 1.03E-15 J | 5.47E-14 UJ | 1.5E-14 U | 3.8E-15 U | 2.69E-16 UJ | No |
| | 2 | 4716 | 2.4E-15 U | 4.5E-16 UJ | 3.45E-14 UJ | 1.45E-14 U | 3.52E-15 U | 3E-16 UJ | No |
| 02/20/23-02/23/23 | 1 | 4813 | 2.68E-15 U | 2.54E-16 UJ | 3.18E-14 UJ | 1.4E-14 U | 3.04E-15 U | 3.34E-16 UJ | No |
| | 2 | 4784 | 2.94E-15 U | 4.07E-16 UJ | 5.03E-14 UJ | 1.39E-14 U | 3.52E-15 U | 3.48E-16 UJ | No |
| 02/27/23-03/02/23 | 1 | 1991 | 6.38E-15 U | 8.56E-16 UJ | 7.43E-14 UJ | 3.39E-14 U | 7.8E-15 U | 5.59E-16 UJ | No |
| | 1* | 1991 | 6.2E-15 U | 2.7E-15 J | 7.64E-14 UJ | 3.62E-14 U | 6.1E-15 U | 7.48E-16 UJ | No |
| | 2 | 1996 | 5.97E-15 U | 5.84E-16 UJ | 7.88E-14 UJ | 3.26E-14 U | 8.09E-15 U | 7.33E-16 UJ | No |
| 03/13/23-03/16/23 | 1 | 3319 | 3.97E-15 U | 6.11E-16 UJ | 7.92E-14 UJ | 1.9E-14 U | 4.95E-15 U | 3.79E-16 UJ | No |
| | 2 | 3308 | 4.63E-15 | 4E-16 UJ | 6.44E-14 UJ | 2.12E-14 U | 5.73E-15 U | 4.75E-16 UJ | No |
| 03/20/23-03/23/23 | 1 | 1774 | 7.83E-15 U | 1.2E-15 UJ | 8.87E-14 UJ | 3.99E-14 U | 8.62E-15 U | 5.86E-16 UJ | No |
| | 2 | 1780 | 7.25E-15 U | 6.99E-16 UJ | 8.9E-14 UJ | 3.8E-14 U | 8.15E-15 U | 1.49E-15 J | Yes ² |
| 03/27/23-03/30/23 | 1 | 1921 | 6.71E-15 U | 1.26E-15 UJ | 8.18E-14 UJ | 3.72E-14 U | 6.55E-15 U | 6.98E-16 UJ | No |
| | 2 | 1935 | 6.3E-15 U | 1.49E-15 UJ | 7.75E-14 UJ | 3.73E-14 UJ | 7.81E-15 U | 9.53E-16 UJ | No |
| 04/03/23-04/06/23 | 1 | 4851 | 2.88E-15 | 3.37E-16 UJ | 5.39E-14 UJ | 1.21E-14 U | 3.51E-15 U | 2.58E-16 J | No |
| | 2 | 4837 | 2.79E-15 U | 4.31E-16 UJ | 3.2E-14 UJ | 1.43E-14 U | 3.2E-15 U | 2.13E-16 UJ | No |
| 04/10/23-04/13/23 | 1 | 4966 | 2.61E-15 U | 3.89E-16 U | 3.21E-14 U | 1.31E-14 U | 3.05E-15 U | 2.59E-16 U | No |
| | 2 | 4948 | 3.05E-15 U | 3.43E-16 U | 5.05E-14 U | 1.35E-14 U | 3.54E-15 U | 3.07E-16 J | No |
| 04/17/23-04/20/23 | 1 | 4834 | 2.73E-15 U | 1.6E-16 U | 5.24E-14 UJ | 1.23E-14 U | 3.38E-15 U | 3.24E-16 UJ | No |
| | 2 | 4858 | 3.2E-15 U | 3.55E-16 UJ | 5.22E-14 UJ | 1.23E-14 U | 3.34E-15 U | 3.62E-16 UJ | No |
| 04/24/23-04/27/23 | 1 | 4886 | 2.48E-15 U | 2.95E-16 UJ | 3.31E-14 UJ | 1.31E-14 U | 2.76E-15 U | 2.42E-16 UJ | No |
| | 2 | 4861 | 2.31E-15 U | 3E-16 UJ | 5.24E-14 UJ | 1.2E-14 U | 3.04E-15 U | 2.48E-16 UJ | No |
| 05/01/23-05/04/23 | 1 | 3399 | 3.79E-15 U | 4.89E-16 UJ | 4.77E-14 UJ | 2.16E-14 U | 5.08E-15 U | 3.56E-16 UJ | No |
| | 2 | 3376 | 7.94E-15 U | 5.42E-16 UJ | 1.49E-13 UJ | 1.89E-14 U | 9.69E-15 U | 4.69E-16 J | No |
| 05/08/23-05/11/23 | 1 | 4948 | -1.6E-15 U | -9.3E-17 J | 5.38E-14 UJ | 1.34E-14 U | -2.1E-15 U | 1.83E-16 UJ | No |
| | 2 | 4944 | -1.6E-15 U | -6E-17 J | -2E-14 J | -6E-16 U | -1.9E-15 U | 2.08E-16 UJ | No |
| 05/15/23-05/18/23 | 1 | 4857 | 5.22E-15 U | 4.89E-16 UJ | 1.1E-13 UJ | 1.36E-14 U | 6.46E-15 U | 1.64E-16 J | No |
| | 2 | 4837 | 3.19E-15 U | 4.47E-16 UJ | 5.3E-14 UJ | -3.7E-15 U | 3.54E-15 U | 1.33E-16 J | No |

Attachment 6: Radionuclides of Concern Air Sampling Results

| Date | Sample Location | Duration of Run (min) | Cesium-137 | Plutonium-239/240 | Radium-226 | Strontium-90 | Cobalt-60 | Thorium-232 | Exceedance (Yes/No) |
|-------------------|-----------------|-----------------------|-------------|-------------------|-------------|--------------|-------------|-------------|---------------------|
| | | | 4.00E-11 | 4.00E-15 | 1.80E-13 | 1.20E-12 | 1.00E-11 | 1.20E-15 | |
| | | | μCi/mL | μCi/mL | μCi/mL | μCi/mL | μCi/mL | μCi/mL | |
| 05/22/23-05/25/23 | 1 | 4870 | 2.42E-15 | 3.9E-16 UJ | 5.22E-14 UJ | -1.4E-15 U | -1.6E-15 U | 3.1E-16 J | No |
| | 2 | 4895 | 8.54E-16 J | 4.22E-16 UJ | 5.95E-14 J | 1.18E-14 U | 1.98E-15 J | 2.58E-16 UJ | No |
| 05/30/23-06/01/23 | 1 | 3522 | 4.70E-15 U | 5.18E-16 UJ | 8.53E-14 UJ | 1.84E-14 U | 4.64E-15 UJ | 2.60E-16 J | No |
| | 2 | 3514 | 4.16E-15 U | 4.27E-16 UJ | 7.50E-14 UJ | 1.82E-14 U | 5.78E-15 U | 2.79E-16 J | No |
| 06/05/23-06/08/23 | 1 | 4859 | 2.71E-15 U | 4.32E-16 UJ | 5.31E-14 UJ | 1.43E-14 U | 4.31E-15 U | 2.51E-16 UJ | No |
| | 1* | 4858 | 4.01E-15 U | 3.82E-16 UJ | 5.27E-14 UJ | 1.39E-14 U | 3.55E-15 U | 2.22E-16 UJ | No |
| | 2 | 4848 | 2.46E-15 U | 6.05E-16 UJ | 3.55E-14 UJ | 1.56E-14 U | 2.95E-15 U | 1.96E-16 UJ | No |
| 06/12/23-06/15/23 | 1 | 4809 | -7.70E-16 U | 4.78E-16 UJ | 1.05E-13 UJ | -5.80E-16 U | 1.52E-15 J | 2.79E-16 UJ | No |
| | 2 | 4838 | 1.40E-15 J | 3.95E-16 UJ | 5.17E-14 UJ | 1.26E-14 U | 7.94E-16 J | 1.25E-16 J | No |
| | 2* | 4838 | 5.39E-16 J | 6.58E-16 UJ | 5.30E-14 UJ | 6.02E-15 J | -1.10E-15 U | 2.53E-16 UJ | No |
| 06/19/23-06/22/23 | 1 | 4759 | 1.36E-15 J | 5.77E-16 UJ | 5.40E-14 UJ | 1.25E-14 U | -2.10E-15 U | 3.19E-16 UJ | No |
| | 2 | 4740 | -9.90E-16 U | 6.25E-16 UJ | 6.18E-14 J | -3.30E-15 U | -1.30E-15 U | 2.27E-16 UJ | No |
| 06/26/23-06/29/23 | 1 | 4676 | 5.60E-15 U | 3.81E-16 UJ | 6.47E-14 UJ | 1.93E-14 U | 7.74E-15 U | 2.08E-16 J | No |
| | 2 | 4661 | 5.88E-15 U | 4.29E-16 UJ | 6.53E-14 UJ | 1.48E-14 U | 5.64E-15 U | 2.57E-16 UJ | No |
| 07/05/23-07/06/23 | 1 | 2040 | 1.22E-14 U | 1.03E-15 UJ | 2.20E-13 UJ | 4.45E-14 U | 1.31E-14 U | 3.20E-16 J | No ¹ |
| | 2 | 1925 | 6.34E-15 U | 7.80E-16 UJ | 7.83E-14 UJ | 3.48E-14 U | 7.87E-15 U | 2.09E-15 J | Yes |
| 07/10/23-07/13/23 | 1 | 4907 | 3.05E-15 U | 4.08E-16 UJ | 5.19E-14 UJ | 1.42E-14 U | 3.66E-15 U | 2.73E-16 UJ | No |
| | 2 | 4896 | 5.41E-15 U | 6.32E-16 UJ | 9.47E-14 UJ | 1.32E-14 U | 6.59E-15 U | 2.21E-16 UJ | No |
| 07/17/23-07/20/23 | 1 | 4966 | 3.11E-15 U | 4.35E-16 UJ | 5.26E-14 UJ | 1.67E-14 UJ | 3.40E-15 U | 1.58E-16 UJ | No |
| | 2 | 4954 | 2.58E-15 U | 1.07E-15 UJ | 3.28E-14 UJ | 1.31E-14 U | 2.59E-15 U | 1.62E-16 UJ | No |
| 07/24/23-07/27/23 | 1 | 4967 | 2.45E-15 U | 4.12E-16 UJ | 3.00E-14 UJ | 1.46E-14 U | 3.35E-15 U | 2.64E-16 J | No |
| | 2 | 4943 | 5.72E-15 U | 4.32E-16 UJ | 8.86E-14 UJ | 1.32E-14 U | 4.98E-15 U | 2.33E-16 UJ | No |
| 07/31/23-08/03/23 | 1 | 4827 | 3.49E-15 U | 3.39E-16 UJ | 5.53E-14 UJ | 1.41E-14 U | 3.77E-15 U | 2.21E-16 UJ | No |
| | 2 | 4807 | 5.98E-15 U | 3.39E-16 UJ | 9.30E-14 UJ | 1.26E-14 U | 6.32E-15 U | 1.34E-16 UJ | No |
| 08/07/23-08/10/23 | 1 | 4852 | 2.97E-15 U | 3.03E-16 UJ | 5.27E-14 UJ | 1.53E-14 U | 3.57E-15 U | 4.66E-16 J | No |
| | 2 | 4943 | 2.54E-15 U | 3.66E-16 UJ | 3.41E-14 UJ | 1.27E-14 U | 2.77E-15 U | 5.78E-16 J | No |
| 08/14/23-08/17/23 | 1 | 4818 | 3.14E-15 U | 3.95E-16 UJ | 5.33E-14 UJ | 1.38E-14 U | 3.37E-15 U | 6.37E-16 J | No |
| | 2 | 4803 | 5.52E-15 U | 3.31E-16 UJ | 9.48E-14 UJ | 1.22E-14 U | 6.64E-15 U | 4.86E-16 J | No |
| 08/21/23-08/24/23 | 1 | 4946 | 5.13E-15 U | 3.67E-16 UJ | 1.07E-13 UJ | 1.70E-14 U | 5.57E-15 U | 4.21E-16 J | No |
| | 1* | 4947 | 2.56E-15 U | 3.83E-16 UJ | 3.35E-14 UJ | 1.39E-14 U | 2.91E-15 U | 1.75E-16 UJ | No |
| | 2 | 4920 | 2.67E-15 U | 3.31E-16 UJ | 3.00E-14 UJ | 1.40E-14 U | 2.93E-15 U | 5.64E-16 J | No |
| 08/28/23-08/31/23 | 1 | 4724 | 2.89E-15 U | 2.13E-16 U | 3.40E-14 UJ | 1.80E-14 U | 3.37E-15 U | 7.39E-16 | No |
| | 2 | 4700 | 5.34E-15 U | 2.74E-16 U | 1.11E-13 UJ | 1.40E-14 U | 7.05E-15 U | 5.57E-16 | No |
| | 2* | 4700 | 2.81E-15 U | 3.34E-16 U | 3.56E-14 UJ | 1.38E-14 U | 3.36E-15 U | 7.39E-16 | No |
| 09/05/23-09/07/23 | 1 | 3497 | 3.49E-15 U | 3.35E-16 U | 4.26E-14 U | 1.76E-14 U | 3.89E-15 U | 7.05E-16 | No |
| | 2 | 3485 | 3.68E-15 U | 5.69E-16 U | 4.70E-14 U | 1.72E-14 | 3.76E-15 U | 3.19E-16 | No |

Attachment 6: Radionuclides of Concern Air Sampling Results

| Date | Sample Location | Duration of Run (min) | Cesium-137 | Plutonium-239/240 | Radium-226 | Strontium-90 | Cobalt-60 | Thorium-232 | Exceedance (Yes/No) |
|-------------------|-----------------|-----------------------|------------|-------------------|-------------|--------------|------------|-------------|---------------------|
| Action Level | | | 4.00E-11 | 4.00E-15 | 1.80E-13 | 1.20E-12 | 1.00E-11 | 1.20E-15 | |
| Units | | | μCi/mL | μCi/mL | μCi/mL | μCi/mL | μCi/mL | μCi/mL | |
| 09/11/23-09/14/23 | 1 | 4983 | 2.77E-15 U | 2.39E-16 UJ | 3.30E-14 UJ | 1.77E-14 U | 2.93E-15 U | 5.04E-16 J | No |
| | 1* | 4984 | 2.65E-15 U | 2.44E-16 UJ | 3.27E-14 UJ | 1.34E-14 U | 2.96E-15 U | 2.84E-16 J | No |
| | 2 | 4968 | 2.39E-15 U | 3.74E-16 UJ | 3.12E-14 UJ | 1.33E-14 U | 2.97E-15 U | 4.01E-16 J | No |
| 09/18/23-09/21/23 | 1 | 4984 | 2.77E-15 U | 3.92E-16 UJ | 3.36E-14 UJ | 1.81E-14 U | 3.01E-15 U | 4.55E-16 J | No |
| | 2 | 4964 | 2.50E-15 U | 2.21E-16 UJ | 3.16E-14 UJ | 1.30E-14 U | 3.05E-15 U | 3.86E-16 J | No |
| 09/25/23-09/28/23 | 1 | 4947 | 3.16E-15 U | 1.64E-16 UJ | 5.22E-14 UJ | 1.14E-14 U | 3.52E-15 U | 1.86E-16 J | No |
| | 2 | 4924 | 2.54E-15 U | 2.89E-16 UJ | 3.10E-14 UJ | 1.25E-14 U | 2.80E-15 U | 4.17E-16 J | No |

Notes:

* = duplicate sample

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

min = minutes

U = activity is less than the MDC

UJ = estimated MDC

¹ = MDC value used in calculation due to activity reported as less than MDC; therefore, reported concentration is associated with an indeterminate probability and cannot be used reliably to support any quantitative conclusion

² = Exceedance changed from "No" to "Yes" as part of AMR #5. The sample has been consumed and no add'l analysis to confirm result could be performed.

μCi/mL = microcuries per milliliter

NA = Not Applicable

ATTACHMENT 7 LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 23101252



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

Client Project Name :

Hunters Point Shipyard, Parcel C Removal Site Evaluation / J310000600

| | | | | |
|--------------------|-------------------|---|------------------------|------------------|
| Report To : | Client Name: | GES - ASRC Industrial | Total Number of Pages: | 9 |
| | Attn: | [REDACTED] | P.O.#. : | J310000600-006 |
| | Client Address: | 1501 West Fountainhead Parkway, Ste. #550 | Date Received : | 10/11/2023 09:13 |
| | City, State, Zip: | Tempe, Arizona, 85282 | Sample Collected By : | |

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

| Client Sample ID | Sample Collection Date & Time | Matrix | A&B Job Sample ID |
|------------------|-------------------------------|----------|-------------------|
| FBC - 100223 | 10/2/2023 8:00 | Cassette | 23101252.01 |
| MSC01-100223 | 10/3/2023 6:45 | Cassette | 23101252.02 |
| MSC02-100223 | 10/3/2023 6:53 | Cassette | 23101252.03 |
| MSC01-100323 | 10/4/2023 6:49 | Cassette | 23101252.04 |
| MSC02 -00323 | 10/4/2023 6:59 | Cassette | 23101252.05 |
| MSC01-100423 | 10/5/2023 6:50 | Cassette | 23101252.06 |
| MSC02-100423 | 10/5/2023 6:58 | Cassette | 23101252.07 |
| MSC01-100523 | 10/5/2023 14:30 | Cassette | 23101252.08 |
| MSC02-100523 | 10/5/2023 14:42 | Cassette | 23101252.09 |

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

Analyst: [REDACTED]

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

ab-q210-0321

10/18/2023



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

Date 10/18/202

Job ID : 23101252
Analytical Method: NIOSH 7400-I3-June2019

| Client: GES - ASRC Industrial | | | Project: Hunters Point Shipyard, Parcel C Removal Site Evaluation / J310000600 | | | | | | | | | Attn: [REDACTED] | | | |
|-------------------------------|------------------|----------------|--|---------------|---------|----------|------------------|-----------------|--------------|--------------|--------|------------------|------------|---------------|-------------|
| A&B Sample ID | Client Sample ID | Collected Date | Area/Person | Flow Rate L/m | Time On | Time Off | Total Time (min) | Volume (Liters) | Total Fields | Total Fibers | F/mm2 | Fiber/cc | 8 Hour TWA | Analysis Date | Analyzed By |
| 23101252.01 | FBC - 100223 | 10/02/2023 | | | | | | 0 | 100 | 0 | 0.000 | | | 10/17/23 | [REDACTED] |
| 23101252.02 | MSC01-100223 | 10/03/2023 | Area | 3.5 | | | 1431 | 5008. | 100 | 10 | 12.739 | 0.001 | | 10/17/23 | [REDACTED] |
| 23101252.03 | MSC02-100223 | 10/03/2023 | Area | 3.5 | | | 1431 | 5008. | 100 | 9.5 | 12.102 | 0.001 | | 10/17/23 | [REDACTED] |
| 23101252.04 | MSC01-100323 | 10/04/2023 | Area | 3 | | | 1444 | 4332 | 100 | 4.5 | 5.732 | < 0.001 | | 10/17/23 | [REDACTED] |
| 23101252.05 | MSC02 -00323 | 10/04/2023 | Area | 3.3 | | | 1445 | 4768. | 100 | 7 | 8.917 | 0.001 | | 10/17/23 | [REDACTED] |
| 23101252.06 | MSC01-100423 | 10/05/2023 | Area | 3.3 | | | 1439 | 4748. | 100 | 5.0 | 6.369 | < 0.001 | | 10/17/23 | [REDACTED] |
| 23101252.07 | MSC02-100423 | 10/05/2023 | Area | 3.5 | | | 1437 | 5029. | 100 | 6 | 7.643 | 0.001 | | 10/17/23 | [REDACTED] |
| 23101252.08 | MSC01-100523 | 10/05/2023 | Area | 3.5 | | | 458 | 1603 | 100 | 5.5 | 7.006 | 0.002 | | 10/17/23 | [REDACTED] |
| 23101252.09 | MSC02-100523 | 10/05/2023 | Area | 3.5 | | | 462 | 1617 | 100 | 6.5 | 8.280 | 0.002 | | 10/17/23 | [REDACTED] |

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read



Sample Condition Checklist

| | | | | |
|--|---|-------------------------------|-----------|------------|
| A&B JobID : 23101252 | Date Received : 10/11/2023 | Time Received : 9:13AM | | |
| Client Name : GES - ASRC Industrial | | | | |
| Temperature : 21.6°C | Sample pH : NA | | | |
| Thermometer ID : IR5 | pH Paper ID : NA | | | |
| Perservative : | | | | |
| | Check Points | Yes | No | N/A |
| 1. | Cooler Seal present and signed. | X | | |
| 2. | Sample(s) in a cooler. | | X | |
| 3. | If yes, ice in cooler. | | | X |
| 4. | Sample(s) received with chain-of-custody. | X | | |
| 5. | C-O-C signed and dated. | X | | |
| 6. | Sample(s) received with signed sample custody seal. | | X | |
| 7. | Sample containers arrived intact. (If No comment) | X | | |
| 8. | Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| 9. | Samples were received in appropriate container(s) | X | | |
| 10. | Sample(s) were received with Proper preservative | | | X |
| 11. | All samples were tagged or labeled. | X | | |
| 12. | Sample ID labels match C-O-C ID's. | X | | |
| 13. | Bottle count on C-O-C matches bottles found. | X | | |
| 14. | Sample volume is sufficient for analyses requested. | X | | |
| 15. | Samples were received with in the hold time. | X | | |
| 16. | VOA vials completely filled. | | | X |
| 17. | Sample accepted. | X | | |
| 18. | Has client been contacted about sub-out | | | X |

Comments : Include actions taken to resolve discrepancies/problem:
 Received black cassettes. No cooler was received, however samples are received in a box with a custody seal. ~ [REDACTED] 10/11/23

Brought by : FedEx
 Received by : [REDACTED]

Check in by/date : [REDACTED] / 10/11/2023

ab-s005-0321



CHAIN-OF-CUSTODY RECORD

Gilbane Federal
1501 W Fountainhead Parkway, Tempe AZ 85282

COC ID # 101023ASBC



| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: | |
| WBS Code: J310000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

| | | | | |
|--|------------------------------------|---------------------|-----------------------------|-------------|
| Comments: Please consolidate all COC pages that share the same COC ID into one SDG. | Analytical Test Method Asbestos | [Redacted] 10/10/23 | Code Matrix | Page 1 of 4 |
| | | | A Air | |
| AQ Air Quality Control Matrix | | | | |
| Equipment: | | | Code Container/Preservative | |
| Event: Parcel C Asbestos | | | 1 Filter/No Preservatives | |

OIA
OZA
O3A

| Sample ID | Matrix | Date | Time | Samp Init. | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | Top | Bottom | | |
| 1 FBC-100223 | AQ | 10/02/2023 | 0800 | [Redacted] | x | FBC | FB1 | 0.00 | 0.00 | 1 | |
| 2 MSC01-100223 | A | 10/03/2023 | 0645 | [Redacted] | x | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 3 MSC02-100223 | A | 10/03/2023 | 0653 | [Redacted] | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

| Turnaround Time: 7 days | | | | | | | | | | | |
|------------------------------|----------|-------|--------------------------|----------|-------|---|--|--|--|--|--|
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number | | | | | |
| [Redacted] | 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 101023 / FEDEX 7735 0443 8178 | | | | | |
| FEDEX | 10-11-23 | 09:13 | [Redacted] | 10-11-23 | 09:13 | Received by Laboratory: (Signature, Date, Time) & condition | | | | | |
| | | | | | | 21.6°C IR5 | | | | | |

**CHAIN-OF-CUSTODY
RECORD**

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

COC ID # [REDACTED] 101023ASBC



| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC [REDACTED] | |
| WBS Code: J31000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | | |
|------------------------|----------|---------------------|-------------------------------|
| Analytical Test Method | Asbestos | [REDACTED] 10/10/23 | Code Matrix |
| | | | A Air |
| | | | AQ Air Quality Control Matrix |
| | | | Code Containers/Preservative |
| | | | 1 Filter/No Preservatives |

Equipment:

Event: Parcel C Asbestos

Page 2 of 4

04A
05A

| Sample ID | Matrix | Date | Time | Samp Init. | x | x | x | x | x | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|---|---|---|---|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | | | | | | Top | Bottom | | |
| 1 MSC01-100323 | A | 10/04/2023 | 0649 | [REDACTED] | x | | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 MSC02-100323 | A | 10/04/2023 | 0659 | [REDACTED] | x | | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | |

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------|--------------------------|----------|------|--|
| [REDACTED] | 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 101023 / FEDEX 7735 0443 8178 |
| FEDEX | 10-11-23 | 09:13 | | | | Received by Laboratory: (Signature, Date, Time) & condition [REDACTED] 10-11-23 09:13 21.6°C 1RS |

**CHAIN-OF-CUSTODY
RECORD**

COC ID # [REDACTED] 101023ASBC



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

| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [REDACTED] | |
| WBS Code: J31000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | |
|------------------------|------|----------------------------|
| Analytical Test Method | Code | Matrix |
| | A | Air |
| Asbestos | AQ | Air Quality Control Matrix |
| | | |
| | Code | Container/Preservative |
| | 1 | Filter/No Preservatives |

Equipment:
Event: Parcel C Asbestos

Page 3 of 4

06A
07A

| Sample ID | Matrix | Date | Time | Samp Init. | x | [REDACTED] | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|------------|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | | Top | Bottom | | |
| 1 MSC01-100423 | A | 10/05/2023 | 0650 | [REDACTED] | x | [REDACTED] | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 MSC02-100423 | A | 10/05/2023 | 0658 | [REDACTED] | x | [REDACTED] | MSC02 | N1 | 0.00 | 0.00 | 1 | |

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------|--------------------------|----------|------|--|
| [REDACTED] | 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 101023 / FEDEX 7735 0443 8178 |
| FEDEX | 10-11-23 | 09:13 | | | | Received by Laboratory: (Signature, Date, Time) & condition [REDACTED] 10-11-23 09:13 21.6°C IRS |

**CHAIN-OF-CUSTODY
RECORD**

COC ID # [REDACTED] 01023ASBC



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

| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | PO: [REDACTED] | |
| WBS Code: J31000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | |
|------------------------|------|----------------------------|
| Analytical Test Method | Code | Matrix |
| | A | Air |
| | AQ | Air Quality Control Matrix |
| Asbestos | Code | Container/Preservative |
| | 1 | Filter/No Preservatives |

Equipment:

Event: Parcel C Asbestos

Page 4 of 4

| Sample ID | Matrix | Date | Time | Samp Init. | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|--|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | | Top | Bottom | | |
| 1 MSC01-100523 | A | 10/05/2023 | 1430 | [REDACTED] | x | | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 MSC02-100523 | A | 10/05/2023 | 1442 | [REDACTED] | x | | MSC02 | N1 | 0.00 | 0.00 | 1 | |

08A
09A

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------|--------------------------|----------|------|--|
| [REDACTED] | 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 101023 / FEDEX 7735 0443 8178 |
| FEDEX | 10-11-23 | 09:13 | | | | Received by Laboratory: (Signature, Date, Time) & condition [REDACTED] 10-11-23 09:13 |

Flow Rate, Total Time

| Sample ID | End Date | End Time | Flow Rate (L/min), Total Time (mins) |
|--------------|----------|------------|--------------------------------------|
| FBC-100223 | 10/2/23 | 8:00:00 AM | N/A |
| MSC01-100223 | 10/3/23 | 6:45:00 AM | 3.5; 1431 |
| MSC02-100223 | 10/3/23 | 6:53:00 AM | 3.5; 1431 |
| MSC01-100323 | 10/4/23 | 6:49:00 AM | 3; 1444 |
| MSC02-100323 | 10/4/23 | 6:59:00 AM | 3.3; 1445 |
| MSC01-100423 | 10/5/23 | 6:50:00 AM | 3.3; 1439 |
| MSC02-100423 | 10/5/23 | 6:58:00 AM | 3.5; 1437 |
| MSC01-100523 | 10/5/23 | 2:30:00 PM | 3.5; 458 |
| MSC02-100523 | 10/5/23 | 2:42:00 PM | 3.5; 462 |

ORIGIN ID: ICCA
GES-AIS
200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 02OCT23
ACTWGT: 1.00 LB
CAD: 254128867/INET4640
BILL SENDER

TO
A&B LABS
10100 EAST FREEWAY, SUITE 100
HOUSTON TX 77029
(713) 453-6060
INV. REF. J31000.600 02.04.05
PC DEPT

583J49B05/9AE3

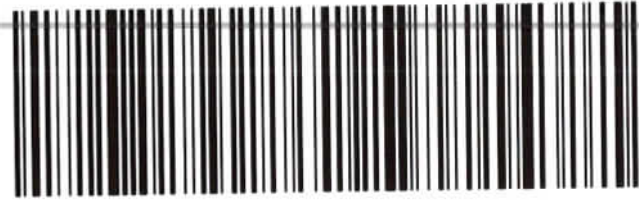


FedEx
TRK# 7735 0443 8178
0201

WED - 11 OCT AA
STANDARD OVERNIGHT

AB HBYA

77029
TX - US IAH



#329747 10/10 583J9/3D0R/9AE3

EXP 02/24

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Laboratory Analysis Report

Job ID : 23102009



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

Client Project Name :

J31000600 / Hunters Point Shipyard, Parcel C Removal Site Evaluation

| | | |
|--------------------|---|----------------------------------|
| Report To : | Client Name: GES - ASRC Industrial | Total Number of Pages: 9 |
| | Attn: [REDACTED] | P.O.#. : J310000600-006 |
| | Client Address: 1501 West Fountainhead Parkway, Ste. #550 | Date Received : 10/18/2023 10:01 |
| | City, State, Zip: Tempe, Arizona, 85282 | Sample Collected By : |

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

| Client Sample ID | Sample Collection Date & Time | Matrix | A&B Job Sample ID |
|------------------|-------------------------------|----------|-------------------|
| FBC-100923 | 10/9/2023 8:00 | Cassette | 23102009.01 |
| MSC01-100923 | 10/10/2023 6:43 | Cassette | 23102009.02 |
| MSC02-100923 | 10/10/2023 6:53 | Cassette | 23102009.03 |
| MSC01-101023 | 10/11/2023 6:51 | Cassette | 23102009.04 |
| MSC02-101023 | 10/11/2023 7:01 | Cassette | 23102009.05 |
| MSC01-101123 | 10/12/2023 6:47 | Cassette | 23102009.06 |
| MSC02-101123 | 10/12/2023 6:58 | Cassette | 23102009.07 |
| MSC01-101223 | 10/12/2023 15:08 | Cassette | 23102009.08 |
| MSC02-101223 | 10/12/2023 14:53 | Cassette | 23102009.09 |

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

Analyst: [REDACTED]

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ab-q210-0321

10/27/2023



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

Date 10/27/2023

Job ID : 23102009
 Analytical Method: NIOSH 7400-I3-June2019

| Client: GES - ASRC Industrial | | | Project: J31000600 / Hunters Point Shipyard, Parcel C Removal Site Evaluation | | | | | | | | | | Attn: [REDACTED] | | |
|-------------------------------|------------------|----------------|---|---------------|---------|----------|------------------|-----------------|--------------|--------------|--------|----------|------------------|---------------|-------------|
| A&B Sample ID | Client Sample ID | Collected Date | Area/Person | Flow Rate L/m | Time On | Time Off | Total Time (min) | Volume (Liters) | Total Fields | Total Fibers | F/mm2 | Fiber/cc | 8 Hour TWA | Analysis Date | Analyzed By |
| 23102009.01 | FBC-100923 | 10/09/2023 | Area | | | | | 0 | 100 | 0 | 0.000 | | | 10/23/23 | [REDACTED] |
| 23102009.02 | MSC01-100923 | 10/10/2023 | Area | 3.4 | | | 1400 | 4760 | 100 | 8.0 | 10.191 | 0.001 | | 10/27/23 | [REDACTED] |
| 23102009.03 | MSC02-100923 | 10/10/2023 | Area | 3.5 | | | 1404 | 4914 | 100 | 3.0 | 3.822 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102009.04 | MSC01-101023 | 10/11/2023 | Area | 3.5 | | | 1446 | 5061 | 100 | 4 | 5.096 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102009.05 | MSC02-101023 | 10/11/2023 | Area | 3.5 | | | 1446 | 5061 | 100 | 13 | 16.561 | 0.001 | | 10/27/23 | [REDACTED] |
| 23102009.06 | MSC01-101123 | 10/12/2023 | Area | 3.4 | | | 1434 | 4875. | 100 | 3.5 | 4.459 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102009.07 | MSC02-101123 | 10/12/2023 | Area | 3.4 | | | 1436 | 4882. | 100 | 3 | 3.822 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102009.08 | MSC01-101223 | 10/12/2023 | Area | 3.2 | | | 499 | 1596. | 100 | 6 | 7.643 | 0.002 | | 10/27/23 | [REDACTED] |
| 23102009.09 | MSC02-101223 | 10/12/2023 | Area | 3.2 | | | 473 | 1513. | 100 | 7 | 8.917 | 0.002 | | 10/27/23 | [REDACTED] |

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read



Sample Condition Checklist

| | | | | |
|--|---|--------------------------------|-----------|------------|
| A&B JobID : 23102009 | Date Received : 10/18/2023 | Time Received : 10:01AM | | |
| Client Name : GES - ASRC Industrial | | | | |
| Temperature : 20.6°C | Sample pH : NA | | | |
| Thermometer ID : IR5 | pH Paper ID : NA | | | |
| Perservative : | | | | |
| | Check Points | Yes | No | N/A |
| 1. | Cooler Seal present and signed. | X | | |
| 2. | Sample(s) in a cooler. | | X | |
| 3. | If yes, ice in cooler. | | | X |
| 4. | Sample(s) received with chain-of-custody. | X | | |
| 5. | C-O-C signed and dated. | X | | |
| 6. | Sample(s) received with signed sample custody seal. | | X | |
| 7. | Sample containers arrived intact. (If No comment) | X | | |
| 8. | Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| 9. | Samples were received in appropriate container(s) | X | | |
| 10. | Sample(s) were received with Proper preservative | | | X |
| 11. | All samples were tagged or labeled. | X | | |
| 12. | Sample ID labels match C-O-C ID's. | X | | |
| 13. | Bottle count on C-O-C matches bottles found. | X | | |
| 14. | Sample volume is sufficient for analyses requested. | X | | |
| 15. | Samples were received with in the hold time. | X | | |
| 16. | VOA vials completely filled. | | | X |
| 17. | Sample accepted. | X | | |
| 18. | Has client been contacted about sub-out | | | X |

Comments : Include actions taken to resolve discrepancies/problem:
 No cooler was received, however samples are received in a box with a custody seal. Black Cassettes. ✓ [redacted] 10/18/2023

Brought by : FedEx
 Received by : [redacted]

Check in by/date : [redacted] / 10/18/2023

ab-s005-0321

**CHAIN-OF-CUSTODY
RECORD**

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

COC ID # [Redacted] 01723ASBC



| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [Redacted] | |
| WBS Code: J310000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | | |
|------------------------|----------|------------|----------|
| Analytical Test Method | Asbestos | [Redacted] | 10/17/23 |
| | | | |
| | | | |

| | |
|------|----------------------------|
| Code | Matrix |
| A | Air |
| AQ | Air Quality Control Matrix |

| | |
|------|-------------------------|
| Code | Container/Preservative |
| 1 | Filter/No Preservatives |

Page 1 of 4

| Sample ID | Matrix | Date | Time | Samp Init. | x | x | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|---|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | | | Top | Bottom | | |
| 1 FBC-100923 | AQ | 10/09/2023 | 0800 | [Redacted] | x | x | x | FBC | FB1 | 0.00 | 0.00 | 1 | |
| 2 MSC01-100923 | A | 10/10/2023 | 0643 | [Redacted] | x | x | x | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 3 MSC02-100923 | A | 10/10/2023 | 0653 | [Redacted] | x | x | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

01A
02A
03B

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------|--------------------------|----------|-------|--|
| [Redacted] | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 101723 / FEDEX 7735 5882 7193 |
| FeDa | 10/18/23 | 10:01 | [Redacted] | 10/18/23 | 10:01 | [Redacted] (Signature, Date, Time) & condition |

Job ID: 23102009



10/18/2023 GES - ASRC Industrial ACH

**CHAIN-OF-CUSTODY
RECORD**

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

COC ID # [REDACTED] 101723ASBC



| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [REDACTED] | |
| WBS Code: J31000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | | |
|------------------------|----------|------------|----------|
| Analytical Test Method | Asbestos | [REDACTED] | 10/17/23 |
| | | | |

| | |
|------|----------------------------|
| Code | Matrix |
| A | Air |
| AQ | Air Quality Control Matrix |

| | |
|------|-------------------------|
| Code | Container/Preservative |
| 1 | Filter/No Preservatives |

Page 2 of 4

| Sample ID | Matrix | Date | Time | Samp Init. | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|-----------|--------|------------|------|------------|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | Top | Bottom | | |
| 1 | A | 10/11/2023 | 0651 | [REDACTED] | x | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 | A | 10/11/2023 | 0701 | [REDACTED] | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

04/0
05/0

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------|--------------------------|----------|------|---|
| [REDACTED] | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 101723 / FEDEX 7735 5882 7193 |
| FEBA | 10/18/23 | 10:01 | | | | Received by Laboratory: (Signature, Date, Time) FEBA 10/18/23 10:01 [REDACTED] 20.6 °C Jones |

**CHAIN-OF-CUSTODY
RECORD**

COC ID # [REDACTED] 101723ASBC



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

| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | |
|------------------------|----------|---------------------|
| Analytical Test Method | Asbestos | [REDACTED] 10/17/23 |
| | | |

| | |
|------|----------------------------|
| Code | Matrix |
| A | Air |
| AQ | Air Quality Control Matrix |

| | |
|------|-------------------------|
| Code | Container/Preservative |
| 1 | Filter/No Preservatives |

Equipment:

Event: Parcel C Asbestos

Page 3 of 4

448
070

| Sample ID | Matrix | Date | Time | Samp Init. | x | x | x | x | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|---|---|---|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | | | | | Top | Bottom | | |
| 1 MSC01-101123 | A | 10/12/2023 | 0647 | [REDACTED] | x | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 MSC02-101123 | A | 10/12/2023 | 0658 | [REDACTED] | x | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | |

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------|--------------------------|----------|------|--|
| [REDACTED] | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 101723 / FEDEX 7735 5882 7193 |
| FDA | 10/18/23 | 10:01 | | | | atory: (Signature, Date, Time) & condition 10:01 10/17/23 |

20.10.23 JES

**CHAIN-OF-CUSTODY
RECORD**

COC ID # [REDACTED] 101723ASBC



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

| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

| | | | |
|--|---|-------------------------------|-------------|
| Comments: Please consolidate all COC pages that share the same COC ID into one SDG. | Analytical Test Method Asbestos [REDACTED] 10/17/23 | Code Matrix | Page 4 of 4 |
| | | A Air | |
| | | AQ Air Quality Control Matrix | |
| | | Code Container/Preservative | |
| | | 1 Filter/No Preservatives | |

| Sample ID | Matrix | Date | Time | Samp Init. | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | Top | Bottom | | |
| 1 MSC01-101223 | A | 10/12/2023 | 1508 | [REDACTED] | x | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 MSC02-101223 | A | 10/12/2023 | 1453 | [REDACTED] | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

08A
090

| Turnaround Time: 7 days | | | | | | | | | | | |
|------------------------------|--|----------|-------|--------------------------|--|----------|------|--|--|--|--|
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | Shipping Date / Carrier / Airbill Number | | | |
| [REDACTED] | | 10/17/23 | 1300 | FEDEX | | 10/17/23 | 1300 | Shipping Date: 101723 / FEDEX 7735 5882 7193 | | | |
| Eds | | 10/18/23 | 10:01 | [REDACTED] | | | | (Signature, Date, Time) & condition 10/18/23 10:01 20.6 °C Feis | | | |

Flow Rate, Total Time

| Sample ID | End Date | End Time | Flow Rate (L/min), Total Time (mins) |
|--------------|----------|------------|--------------------------------------|
| FBC-100923 | 10/9/23 | 8:00:00 AM | N/A |
| MSC01-100923 | 10/10/23 | 6:43:00 AM | 3.4; 1400 |
| MSC02-100923 | 10/10/23 | 6:53:00 AM | 3.5; 1404 |
| MSC01-101023 | 10/11/23 | 6:51:00 AM | 3.5; 1446 |
| MSC02-101023 | 10/11/23 | 7:01:00 AM | 3.5; 1446 |
| MSC01-101123 | 10/12/23 | 6:47:00 AM | 3.4; 1434 |
| MSC02-101123 | 10/12/23 | 6:58:00 AM | 3.4; 1436 |
| MSC01-101223 | 10/12/23 | 3:08:00 PM | 3.2; 499 |
| MSC02-101223 | 10/12/23 | 2:53:00 PM | 3.2; 473 |

ORIGIN ID: JCCA
GES-AIS
200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 02OCT23
ACTWGT: 1.00 LB
CAD: 254128867/INET4640

BILL SENDER

TO
A&B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

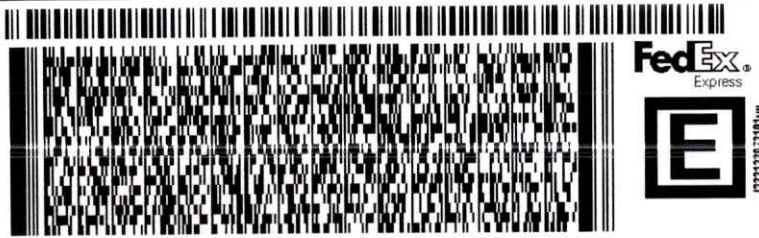
(713) 453-6060

REF J31000.600 02.04.05

INV.
PO

DEPT

583J48B35/AE3



TUE - 03 OCT 5:00P

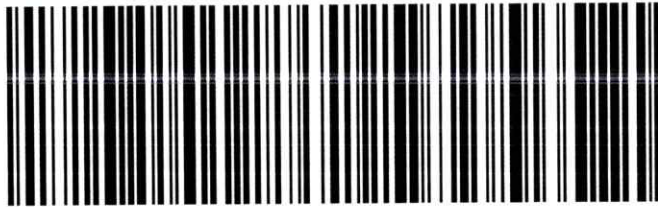
STANDARD OVERNIGHT

TRK#
0201

7735 5882 7193

AB HBYA

TX-US **77029**
IAH



After printing this label:

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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

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Laboratory Analysis Report

Job ID : 23102779



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

Client Project Name :
J31000600 / Hunters Point Shipyard, Parcel C Removal Site Evaluation

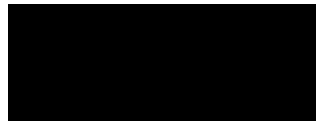
Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 9
Attn: [REDACTED] P.O.#. : J31000600-006
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 10/25/2023 10:10
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

| Client Sample ID | Sample Collection Date & Time | Matrix | A&B Job Sample ID |
|------------------|-------------------------------|----------|-------------------|
| FBC-101623 | 10/16/2023 8:00 | Cassette | 23102779.01 |
| MSC01-101623 | 10/17/2023 6:47 | Cassette | 23102779.02 |
| MSC02-101623 | 10/17/2023 6:56 | Cassette | 23102779.03 |
| MSC01-101723 | 10/18/2023 6:47 | Cassette | 23102779.04 |
| MSC02-101723 | 10/18/2023 6:56 | Cassette | 23102779.05 |
| MSC01-101823 | 10/19/2023 7:08 | Cassette | 23102779.06 |
| MSC02-101823 | 10/19/2023 7:12 | Cassette | 23102779.07 |
| MSC01-101923 | 10/19/2023 14:58 | Cassette | 23102779.08 |
| MSC02-101923 | 10/19/2023 14:28 | Cassette | 23102779.09 |



Released By: [REDACTED]
Title: Vice President Operations



Analyst: [REDACTED]

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ab-q210-0321

11/1/2023



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

Date 11/1/2023

Job ID : 23102779
Analytical Method: NIOSH 7400-I3-June2019

| Client: GES - ASRC Industrial | | | Project: J310000600 / Hunters Point Shipyard, Parcel C Removal Site Evaluation | | | | | | | | | | Attn: [REDACTED] | | |
|-------------------------------|------------------|----------------|--|---------------|---------|----------|------------------|-----------------|--------------|--------------|--------|----------|------------------|---------------|-------------|
| A&B Sample ID | Client Sample ID | Collected Date | Area/Person | Flow Rate L/m | Time On | Time Off | Total Time (min) | Volume (Liters) | Total Fields | Total Fibers | F/mm2 | Fiber/cc | 8 Hour TWA | Analysis Date | Analyzed By |
| 23102779.01 | FBC-101623 | 10/16/2023 | | | | | | 0 | 100 | 0 | 0.000 | | | 10/27/23 | [REDACTED] |
| 23102779.02 | MSC01-101623 | 10/17/2023 | Area | 3.6 | | | 1434 | 5162. | 100 | 11.5 | 1.274 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102779.03 | MSC02-101623 | 10/17/2023 | Area | 3.4 | | | 1434 | 4875. | 100 | 3 | 3.822 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102779.04 | MSC01-101723 | 10/18/2023 | Area | 3.6 | | | 1438 | 5176. | 100 | 5.0 | 6.369 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102779.05 | MSC02-101723 | 10/18/2023 | Area | 3.3 | | | 1438 | 4745. | 100 | 1.0 | 1.274 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102779.06 | MSC01-101823 | 10/19/2023 | Area | 3.5 | | | 1460 | 5110 | 100 | 3.5 | 4.459 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102779.07 | MSC02-101823 | 10/19/2023 | Area | 3.3 | | | 1454 | 4798. | 100 | 4.0 | 5.096 | < 0.001 | | 10/27/23 | [REDACTED] |
| 23102779.08 | MSC01-101923 | 10/19/2023 | Area | 3.3 | | | 473 | 1560. | 100 | 8.5 | 10.828 | 0.003 | | 10/27/23 | [REDACTED] |
| 23102779.09 | MSC02-101923 | 10/19/2023 | Area | 3.3 | | | 434 | 1432. | 100 | 7.5 | 9.554 | 0.003 | | 10/27/23 | [REDACTED] |

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read



Sample Condition Checklist

| | | | | |
|--|---|--------------------------------|-----------|------------|
| A&B JobID : 23102779 | Date Received : 10/25/2023 | Time Received : 10:10AM | | |
| Client Name : GES - ASRC Industrial | | | | |
| Temperature : 23.1°C | Sample pH : NA | | | |
| Thermometer ID : IR5 | pH Paper ID : NA | | | |
| Perservative : | | | | |
| | Check Points | Yes | No | N/A |
| 1. | Cooler Seal present and signed. | X | | |
| 2. | Sample(s) in a cooler. | | X | |
| 3. | If yes, ice in cooler. | | | X |
| 4. | Sample(s) received with chain-of-custody. | X | | |
| 5. | C-O-C signed and dated. | X | | |
| 6. | Sample(s) received with signed sample custody seal. | | X | |
| 7. | Sample containers arrived intact. (If No comment) | X | | |
| 8. | Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| 9. | Samples were received in appropriate container(s) | X | | |
| 10. | Sample(s) were received with Proper preservative | | | X |
| 11. | All samples were tagged or labeled. | X | | |
| 12. | Sample ID labels match C-O-C ID's. | X | | |
| 13. | Bottle count on C-O-C matches bottles found. | X | | |
| 14. | Sample volume is sufficient for analyses requested. | X | | |
| 15. | Samples were received with in the hold time. | X | | |
| 16. | VOA vials completely filled. | | | X |
| 17. | Sample accepted. | X | | |
| 18. | Has client been contacted about sub-out | | | X |

Comments : Include actions taken to resolve discrepancies/problem:
 No cooler was received, however samples are received in a box with a custody seal. Received black cassettes. ~ [REDACTED] 10/25/23

Brought by : FedEx
 Received by : [REDACTED]

Check in by/date : [REDACTED] / 10/25/2023

ab-s005-0321

Job ID: 23102779



COC ID # [REDACTED] 102423ASBC



10/25/2023 GES - ASRC Industrial ACH

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

| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [REDACTED] | |
| WBS Code: J31000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | | |
|------------------------|----------|------------|-------------------------------|
| Analytical Test Method | Asbestos | [REDACTED] | Code Matrix |
| | | | A Air |
| | | | AQ Air Quality Control Matrix |
| | | | Code Container/Preservative |
| | | | 1 Filter/No Preservatives |

Equipment:

Event: Parcel C Asbestos

Page 1 of 4

01
02
03

| Sample ID | Matrix | Date | Time | Samp Init. | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | Top | Bottom | | |
| 1 FBC-101623 | AQ | 10/16/2023 | 0800 | [REDACTED] | x | FBC | FB1 | 0.00 | 0.00 | 1 | |
| 2 MSC01-101623 | A | 10/17/2023 | 0647 | [REDACTED] | x | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 3 MSC02-101623 | A | 10/17/2023 | 0656 | [REDACTED] | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------------------|--------------------------|----------|------|---|
| [REDACTED] | 10/24/23 | 1300 | FEDEX | 10/24/23 | 1300 | Shipping Date: 101723 / FEDEX 7736 6627 9986 |
| FeDa | 10/25/23 | 10:10 10:32 AM | [REDACTED] | | | Signature, Date, Time & condition 10/25/23 23.1°C [REDACTED] |

10:10
10:32

**CHAIN-OF-CUSTODY
RECORD**

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

COC ID # [Redacted] 102423ASBC



| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [Redacted] | |
| WBS Code: J31000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | | | |
|------------------------|----------|---------------------|-------------------------------|-------|
| Analytical Test Method | Asbestos | [Redacted] 10/24/23 | Code Matrix | |
| | | | | A Air |
| | | | AQ Air Quality Control Matrix | |
| | | | Code Container/Preservative | |
| | | | 1 Filter/No Preservatives | |

Equipment:

Event: Parcel C Asbestos

Page 2 of 4

| Sample ID | Matrix | Date | Time | Samp Init. | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | Top | Bottom | | |
| 1 MSC01-101723 | A | 10/18/2023 | 0647 | [Redacted] | x | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 MSC02-101723 | A | 10/18/2023 | 0656 | [Redacted] | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

04/02/050

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-------|--------------------------|----------|------|--|
| [Redacted] | 10/24/23 | 1300 | FEDEX | 10/24/23 | 1300 | Shipping Date 102423 / FEDEX 7736 6627 9986 |
| FEDEX | 10/25/23 | 10:30 | [Redacted] | 10/25/23 | | signature, Date, Time) & condition 10-23-23.10 JMS |

**CHAIN-OF-CUSTODY
RECORD**

COC ID # [REDACTED] 102423ASBC



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

| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [REDACTED] | |
| WBS Code: J31000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | |
|------------------------|----------|---------------------|
| Analytical Test Method | Asbestos | [REDACTED] 10/24/23 |
| | | |

| | |
|------|----------------------------|
| Code | Matrix |
| A | Air |
| AQ | Air Quality Control Matrix |

| | |
|------|-------------------------|
| Code | Container/Preservative |
| 1 | Filter/No Preservatives |

Equipment: Event: Parcel C Asbestos

Page 3 of 4

| Sample ID | Matrix | Date | Time | Samp Init. | x | x | x | x | x | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|----------------|--------|------------|------|------------|---|---|---|---|---|---|-------------|-------------|----------------|--------|--------|----------|
| | | | | | | | | | | | | | Top | Bottom | | |
| 1 MSC01-101823 | A | 10/19/2023 | 0708 | [REDACTED] | x | x | x | x | x | x | MSC01 | N1 | 0.00 | 0.00 | 1 | |
| 2 MSC02-101823 | A | 10/19/2023 | 0712 | [REDACTED] | x | x | x | x | x | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

0601
078

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|---------------------|--------------------------|----------|------|--|
| [REDACTED] | 10/24/23 | 1300 | [REDACTED] | 10/24/23 | 1300 | Shipping Date 102423 / FEDEX 7736 6627 9986 |
| FEDEX | 10/25/23 | 10:32 ¹⁰ | [REDACTED] | 10/25/23 | | [REDACTED] (Signature, Date, Time) & condition 10/25/23 10:32 ¹⁰ 23.1°C SWS [REDACTED] |

**CHAIN-OF-CUSTODY
RECORD**

COC ID # [REDACTED] 102423ASBC



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

| | | |
|--|---|--------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: A&B Labs | Event: Parcel C Asbestos |
| Project Number: J31000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10100 East Fwy Ste. 100 Houston TX 77029 | |

Comments: **Please consolidate all COC pages that share the same COC ID into one SDG.**

| | | | |
|------------------------|----------|---------------------|-------------------------------|
| Analytical Test Method | Asbestos | [REDACTED] 10/24/23 | Code Matrix |
| | | | A Air |
| | | | AQ Air Quality Control Matrix |
| | | | Code Container/Preservative |
| | | | 1 Filter/No Preservatives |

Equipment:

Event: Parcel C Asbestos

Page 4 of 4

| Sample ID | Matrix | Date | Time | Samp Init. | x | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|-----------|--------|------------|------|------------|---|-------------|-------------|----------------|--------|--------|---------------------|
| | | | | | | | | Top | Bottom | | |
| 1 | A | 10/19/2023 | 1458 | [REDACTED] | x | MSC01 | N1 | 0.00 | 0.00 | 1 | [REDACTED] 10/24/23 |
| 2 | A | 10/19/2023 | 1428 | [REDACTED] | x | MSC02 | N1 | 0.00 | 0.00 | 1 | |

080
090

Turnaround Time: 7 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|-----------------------|--------------------------|----------|------|---|
| [REDACTED] | 10/24/23 | 1300 | FFDE [REDACTED] | 10/24/23 | 1300 | Shipping Date 102423 / FEDEX 7736 6627 9986 |
| Fede4 | 10/25/23 | 10:37 10:10 AMS | [REDACTED] w/rustyn | | | y: (Signature, Date, Time) & con [REDACTED] 10/10 10/25/23 10:57 23.1°C Jones [REDACTED] |

COC ID # ■ 102423ASBC

Flow Rate, Total Time

| Sample ID | End Date | End Time | Flow Rate (L/min), Total Time (mins) |
|--------------|----------|------------|--------------------------------------|
| FBC-101623 | 10/16/23 | 8:00:00 AM | N/A |
| MSC01-101623 | 10/17/23 | 6:47:00 AM | 3.6; 1434 |
| MSC02-101623 | 10/17/23 | 6:56:00 AM | 3.4; 1434 |
| MSC01-101723 | 10/18/23 | 6:47:00 AM | 3.6; 1438 |
| MSC02-101723 | 10/18/23 | 6:56:00 AM | 3.3; 1438 |
| MSC01-101823 | 10/19/23 | 7:08:00 AM | 3.5; 1460 |
| MSC02-101823 | 10/19/23 | 7:12:00 AM | 3.3; 1454 |
| MSC01-101923 | 10/19/23 | 2:58:00 PM | 3.3; 473 |
| MSC02-101923 | 10/19/23 | 2:28:00 PM | 3.3; 434 |

ORIGIN ID: JCCA
GES-AIS
200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 17OCT23
ACTWGT: 1.00 LB
CAD: 254128867/NET4640

BILL SENDER

TO

A&B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060

REF J31000 600 02.04.05

INV
PO

DEPT

5833J6J3D0A9AE3

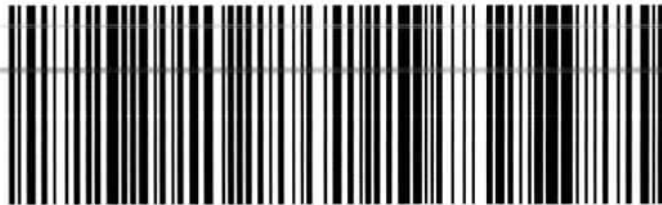


WED - 18 OCT 5:00P
STANDARD OVERNIGHT

TRK# 7736 6627 9986
0201

AB HBYA

77029
TX-US IAH



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2609 North River Road
Port Allen, Louisiana 70767
(225) 228-1394

ARS Aleut Analytical, LLC

Laboratory Analytical Report

ARS1-23-02073

GES-AIS, LLC



1501 West Fountainhead Parkway
Suite 550
Tempe, AZ 94520




COC Number: **091923RADC**

PO Number: **J310000600**

Job Location: **Hunters Point Shipyard, Parcel C Removal Site Evaluation**

Project Name: **Parcel C Air Monitoring RAD**

Questions regarding this analytical report should be addressed to ARS project manager, , who can be reached by email at projectmanagers@aaa.aleutfederal.com.

I certify that the test results presented in this report (in either hardcopy or electronic file (EDD)) meet the requirements of the laboratory's certifications and other applicable contract terms and conditions. A full list of the Port Allen, LA laboratory's certifications is provided with this report. Any exceptions to the certification or contract will be noted within the case narratives presented in the report. Any subcontracted sample results will be identified within the case narratives presented in the report. In the event this report is an amendment to a previously released report, the case narrative will clearly identify the original report as well as the reason(s) for reissuance. I authorize release and issuance of this report on the date signed below.



Laboratory Management, ARS Aleut Analytical

Signature

Date

Title

This report provides analytical results of the requested analysis and does not include any opinions or interpretations. ARS Aleut Analytical, LLC assumes no liability for the use or interpretation of analytical results. Results relate only to items tested. A partial reproduction of this test report is prohibited. Reproduction of this report in full requires the written approval of the laboratory.





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| Sample Management Records | 36 |

Certifications and Accreditations List

| State or Accrediting Body (AB) | Certificate Number |
|--------------------------------|---------------------------|
| AIHA LAP, LLC | 209312 |
| Alaska | LA01131 |
| California | 3085 |
| ANAB DoD | ADE-1489 |
| ANAB DOE | ADE-1489.01 |
| Louisiana DEQ - NELAC | 01949 |
| Louisiana DHH | LA022 |
| Nevada | LA011312024-02 |
| New Jersey | LA009 |
| New York | 66780 (NPW) / 66781 (SHW) |
| Texas | T104704447-22-18 |
| Utah | LA011312023-14 |
| Washington | C1010 |

For additional information related to the specific matrices, methods, and analytes recognized by each accrediting body, contact us at QA@aaa.alcutfederal.com for additional information.



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Case Narrative



**PROJECT SAMPLE IDENTIFICATION
CROSS-REFERENCE
TO ARS SAMPLE LABORATORY IDs**

| Client Sample ID | ARS Aleut Analytical Sample ID |
|---------------------|-----------------------------------|
| FBC-091123 | ARS1-23-02073-001 |
| MSC01-091123 | ARS1-23-02073-002 |
| MSC01-091123-D | ARS1-23-02073-003 |
| MSC02-091123 | ARS1-23-02073-004 |

| Sample | Date Collected | Date Received | Analysis | Basis | Prep Date/Time | Analysis Date/Time |
|--------|-------------------|------------------|--------------|----------------|-------------------|-----------------------|
| 001 | 09/11/23 08:00 | 09/20/23 | ASP-PU239-AF | As Received | 10/16/23 08:00 | 10/18/23 20:40 |
| 001 | 09/11/23 08:00 | 09/20/23 | ASP-TH-AF | As Received | 10/13/23 10:30 | 10/18/23 20:38 |
| 001 | 09/11/23 08:00 | 09/20/23 | GAM-A-AF | As Received | NA | 10/08/23 12:00 |
| 001 | 09/11/23 08:00 | 09/20/23 | GPC-SR90-AF | As Received | 10/19/23 07:46 | 10/20/23 10:24 |
| 002 | 09/14/23 15:03 | 09/20/23 | ASP-PU239-AF | As Received | 10/16/23 08:00 | 10/18/23 20:40 |
| 002 | 09/14/23 15:03 | 09/20/23 | ASP-TH-AF | As Received | 10/13/23 10:30 | 10/18/23 20:38 |
| 002 | 09/14/23 15:03 | 09/20/23 | GAM-A-AF | As Received | NA | 10/08/23 12:02 |
| 002 | 09/14/23 15:03 | 09/20/23 | GPC-SR90-AF | As Received | 10/19/23 07:46 | 10/20/23 10:24 |
| 003 | 09/14/23 15:04 | 09/20/23 | ASP-PU239-AF | As Received | 10/16/23 08:00 | 10/18/23 20:40 |
| 003 | 09/14/23 15:04 | 09/20/23 | ASP-TH-AF | As Received | 10/13/23 10:30 | 10/18/23 20:38 |
| 003 | 09/14/23 15:04 | 09/20/23 | GAM-A-AF | As Received | NA | 10/10/23 14:35 |
| 003 | 09/14/23 15:04 | 09/20/23 | GPC-SR90-AF | As Received | 10/19/23 07:46 | 10/20/23 10:24 |
| 004 | 09/14/23 15:03 | 09/20/23 | ASP-PU239-AF | As Received | 10/16/23 08:00 | 10/18/23 20:40 |
| 004 | 09/14/23 15:03 | 09/20/23 | ASP-TH-AF | As Received | 10/13/23 10:30 | 10/18/23 20:38 |



| Sample | Date Collected | Date Received | Analysis | Basis | Prep Date/Time | Analysis Date/Time |
|--------|-------------------|---------------|-------------|----------------|-------------------|--------------------|
| 004 | 09/14/23 15:03 | 09/20/23 | GAM-A-AF | As Received | NA | 10/09/23 14:09 |
| 004 | 09/14/23 15:03 | 09/20/23 | GPC-SR90-AF | As Received | 10/19/23 07:46 | 10/20/23 10:24 |

SAMPLE RECEIPT/PREP

The samples arrived in good condition. The samples were screened for radioactive contamination as per procedure **PALA-SR-001-SOP Sample Receiving**. Sample date(s) and time(s) are listed as provided by the client. In regard to the Air Filters, no flow rate information was provided by the client. Turnaround time was set at 28 calendar days.

ANALYTICAL METHODS

Pu-239/240 analysis was performed using **PALA-RAD-026, "Americium, Plutonium and Uranium in Water, Soil and Vegetation Matrices by Sequential Separation Using Eichrom Stabilized Chemistry Resin (with Vacuum Box System Option) (Eichrom ACW-02 & Eichrom ACW-03)"**.

Th-232 analysis was performed using **PALA-RAD-031, "Thorium in Water, Soil and Vegetation Matrices by Eichrom Resin Separation (Eichrom ACW-08 & Eichrom ACW-10)"**.

Ac-228, Am-241, Bi-212, Bi-214, Co-60, Cs-137, Eu-152, Eu-154, K-40, Pa-234, Pb-210, Pb-212, Pb-214, Ra-226, Ra-228, Th-234, Tl-208, U-235, and U-238 analyses were performed using **PALA-RAD-007, "Modified Gamma Emitting Radionuclides in Soil, Air, and Biota Matrices (EPA 901.1 Mod, SM 7120B, & HASL-300 Ga-01-R)"**.

Sr-90 analysis was performed using **PALA-RAD-032, "Strontium 89, 90 and Total Strontium in Water, Soil and Vegetation Matrices by Eichrom Resin Separation (Eichrom SRW01, EPA 905.0, HASL 300 Sr-01-RC)"**.

ANALYTICAL RESULTS

Fraction 001 in batch ARS1-B23-01913 has elevated MDA for Pu-239/240 with ACT of $-5.839E-8$ uCi/filter, MDA of $1.222E-7$ uCi/filter and CRDL of $4.8E-08$ uCi/filter.

Fraction 001 in batch ARS1-B23-01908 has elevated MDA for Th-232 with ACT of $5.494E-8$ uCi/filter, MDA of $8.252E-8$ uCi/filter and CRDL of $1.4E-08$ uCi/filter.

Fraction 001 in batch ARS1-B23-01837 has elevated MDA for Ra-226 with ACT of $-1.320E-5$ uCi/filter, MDA of $1.620E-5$ uCi/filter and CRDL of $4.4E-06$ uCi/filter.

Fraction 002 in batch ARS1-B23-01913 has elevated MDA for Pu-239/240 with ACT of $-6.655E-9$ uCi/filter, MDA of $7.166E-8$ uCi/filter and CRDL of $4.8E-08$ uCi/filter.

Fraction 002 in batch ARS1-B23-01837 has elevated MDA for Ra-226 with ACT of $-3.928E-6$ uCi/filter, MDA of $9.869E-6$ uCi/filter and CRDL of $4.4E-06$ uCi/filter.

Fraction 003 in batch ARS1-B23-01913 has elevated MDA for Pu-239/240 with ACT of $6.785E-9$ uCi/filter, MDA of $7.307E-8$ uCi/filter and CRDL of $4.8E-08$ uCi/filter.

Fraction 003 in batch ARS1-B23-01837 has elevated MDA for Ra-226 with ACT of $3.817E-6$ uCi/filter, MDA of $9.800E-6$ uCi/filter and CRDL of $4.4E-06$ uCi/filter.

Fraction 004 in batch ARS1-B23-01913 has elevated MDA for Pu-239/240 with ACT of $-3.203E-8$ uCi/filter, MDA



of $1.116\text{E-}7$ uCi/filter and CRDL of $4.8\text{E-}08$ uCi/filter.

Fraction 004 in batch ARS1-B23-01837 has elevated MDA for Ra-226 with ACT of $4.065\text{E-}7$ uCi/filter, MDA of $9.312\text{E-}6$ uCi/filter and CRDL of $4.4\text{E-}06$ uCi/filter.

ARS1-B23-01908: ROI's adjusted to better fit the peaks of interest.

ARS1-B23-01913: ROI's adjusted to better fit the peaks of interest.

Notes (Case Narrative)

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) |
| DO | Duplicate Original |
| DUP | Sample Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MBL | Method Blank |
| MCL | Maximum Contaminant Level |
| MDA | Minimum Detectable Activity |
| MDL | Method Detection Limit |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NC | Not Calculated |
| NP | Not Provided |
| NR | Not Referenced |
| PQL | Practical Quantitation Limit |
| SDG | Sample Deliverable Group |

Data Qualifiers:

| | |
|----|--|
| B | The result of both the method blank and the target sample are above the MDL. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the LOD but below the LOQ, or above the MDL but below the PQL. |
| Q | One or more quality control criteria failed. |
| U | Result is below the MDA, MDL, PQL, LOD, or LOQ |
| * | LCS/LCSD or Sample DUP fails all Duplicate criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory. |
| H | Holding time exceeded |
| E | Exceeds MCL |
| ** | Reporting Limit is higher than MCL; Target cannot be detected |
| # | Method/Matrix/Analyte not accredited for this certification |

Radiochemistry Comments:

- 1.0) All MDA values are calculated on a sample specific basis.
- 2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 3.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 4.0) Ra-226 after a 21-day ingrowth period is determined via secular equilibrium with its daughter, Bismuth 214 (Gamma Spectroscopy only).
- 5.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 6.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 7.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 8.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 9.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 10.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Non-Potable Water**:
Gross Alpha and Gross Beta (EPA 900.0, EPA 9310); Radium 226 (EPA 903.0, EPA 903.1, EPA 9315); Radium 228 (EPA 904.0, EPA 9320); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7470A); Strontium-89 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-02-RC); Tritium (EPA 906.0); Enriched Tritium (ARS-040), Carbon-14 (ARS-019), Tritium/Carbon (ARS-151); Gamma Emitters (EPA 901.1, SM 7120B, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Am-03); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Pu-10); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Technetium-99 (Eichrom TCW02)
- 11.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Solid and Chemical Materials**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7471B); Strontium-89 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-02); Tritium (EPA 906.0 Mod); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Am-01-RC); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Pu-02-RC, HASL 300 Pu-03-RC); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 U-02, HASL 300 U-04); Technetium-99 (Eichrom TCS01)
- 12.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Air and Emissions**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); Strontium-89 (Eichrom SRW01, HASL 300 Sr-01-RC); Strontium-90 (Eichrom SRW01, HASL 300 Sr-02-RC); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Technetium-99 (Eichrom TCW02, Eichrom TCS01)

General Comments:

- 1.0 Modified analysis procedures are procedures that are modified to meet certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "M" or "Mod" to the procedure number (i.e. 901.1M, 901.1 Mod).
- 2.0 All NIOSH method results are reported without blank corrections applied.
- 3.0 Basis: "As Received" = analyzed as received from client; "Dry" = dried prior to being analyzed; "Dry Weight Corrected" = analyzed as received; result corrected for percent moisture.



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Analytical Results



ARS Sample Delivery Group: ARS1-23-02073

Client Sample ID: FBC-091123

Sample Collection Date: 09/11/23 8:00

Sample Matrix: Air Filter

Percent Solids: N/A

Request or PO Number: J310000600

ARS Sample ID: ARS1-23-02073-001

Date Received: 09/20/23

Report Date: 10/24/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-01913-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | -5.839E-8 | 4.975E-8 | 1.222E-7 | 5.229E-8 | 4.8E-08 | U | uCi/filter | 10/18/23 20:40 | | 67.9% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-01908-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 5.494E-8 | 5.317E-8 | 8.252E-8 | 3.381E-8 | 1.4E-08 | U | uCi/filter | 10/18/23 20:38 | | 75.1% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01837-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Bi-214 | 5.603E-6 | 2.354E-6 | 2.202E-6 | 1.101E-6 | NP | | uCi/filter | 10/08/23 12:00 | | N/A |
| Co-60 | -1.541E-8 | 9.393E-7 | 1.037E-6 | 5.185E-7 | 0.00024 | U | uCi/filter | 10/08/23 12:00 | | N/A |
| Cs-137 | 3.201E-7 | 8.012E-7 | 9.322E-7 | 4.661E-7 | 0.00048 | U | uCi/filter | 10/08/23 12:00 | | N/A |
| Pb-214 | 3.095E-6 | 1.979E-6 | 1.915E-6 | 9.575E-7 | NP | | uCi/filter | 10/08/23 12:00 | | N/A |
| Ra-226 | -1.320E-5 | 1.580E-5 | 1.620E-5 | 8.100E-6 | 4.4E-06 | U | uCi/filter | 10/08/23 12:00 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-01945-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 8.572E-7 | 2.185E-6 | 3.811E-6 | 1.764E-6 | 2.4E-05 | U | uCi/filter | 10/20/23 10:24 | | 105% |



ARS Sample Delivery Group: ARS1-23-02073
Client Sample ID: MSC01-091123
Sample Collection Date: 09/14/23 15:03
Sample Matrix: Air Filter
Percent Solids: N/A

Request or PO Number: J310000600
ARS Sample ID: ARS1-23-02073-002
Date Received: 09/20/23
Report Date: 10/24/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-01913-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | -6.655E-9 | 2.918E-8 | 7.166E-8 | 2.682E-8 | 4.8E-08 | U | uCi/filter | 10/18/23 20:40 | | 58.7% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-01908-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|-------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 1.507E-7 | 5.780E-8 | 1.408E-8 | 0.000 | 1.4E-08 | | uCi/filter | 10/18/23 20:38 | | 83.1% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01837-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Bi-214 | 3.680E-6 | 9.909E-7 | 1.214E-6 | 6.070E-7 | NP | | uCi/filter | 10/08/23 12:02 | | N/A |
| Co-60 | -3.202E-7 | 8.593E-7 | 8.788E-7 | 4.394E-7 | 0.00024 | U | uCi/filter | 10/08/23 12:02 | | N/A |
| Cs-137 | -4.373E-7 | 7.705E-7 | 8.282E-7 | 4.141E-7 | 0.00048 | U | uCi/filter | 10/08/23 12:02 | | N/A |
| Pb-214 | 4.509E-6 | 1.029E-6 | 1.121E-6 | 5.605E-7 | NP | | uCi/filter | 10/08/23 12:02 | | N/A |
| Ra-226 | -3.928E-6 | 7.849E-6 | 9.869E-6 | 4.935E-6 | 4.4E-06 | U | uCi/filter | 10/08/23 12:02 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-01945-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 1.894E-6 | 3.128E-6 | 5.305E-6 | 2.508E-6 | 2.4E-05 | U | uCi/filter | 10/20/23 10:24 | | 101% |



ARS Sample Delivery Group: ARS1-23-02073
Client Sample ID: MSC01-091123-D
Sample Collection Date: 09/14/23 15:04
Sample Matrix: Air Filter
Percent Solids: N/A

Request or PO Number: J310000600
ARS Sample ID: ARS1-23-02073-003
Date Received: 09/20/23
Report Date: 10/24/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-01913-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | 6.785E-9 | 3.520E-8 | 7.307E-8 | 2.734E-8 | 4.8E-08 | U | uCi/filter | 10/18/23 20:40 | | 63.1% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-01908-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 8.514E-8 | 4.615E-8 | 4.653E-8 | 1.648E-8 | 1.4E-08 | | uCi/filter | 10/18/23 20:38 | | 83.5% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01837-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Bi-214 | 3.957E-6 | 1.269E-6 | 1.447E-6 | 7.235E-7 | NP | | uCi/filter | 10/10/23 14:35 | | N/A |
| Co-60 | 5.127E-8 | 8.581E-7 | 8.857E-7 | 4.429E-7 | 0.00024 | U | uCi/filter | 10/10/23 14:35 | | N/A |
| Cs-137 | -1.198E-7 | 7.307E-7 | 7.933E-7 | 3.967E-7 | 0.00048 | U | uCi/filter | 10/10/23 14:35 | | N/A |
| Pb-212 | 1.160E-6 | 4.612E-7 | 7.073E-7 | 3.537E-7 | NP | | uCi/filter | 10/10/23 14:35 | | N/A |
| Pb-214 | 3.531E-6 | 9.522E-7 | 1.101E-6 | 5.505E-7 | NP | | uCi/filter | 10/10/23 14:35 | | N/A |
| Ra-226 | 3.817E-6 | 7.791E-6 | 9.800E-6 | 4.900E-6 | 4.4E-06 | U | uCi/filter | 10/10/23 14:35 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-01945-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 4.238E-7 | 2.255E-6 | 4.010E-6 | 1.859E-6 | 2.4E-05 | U | uCi/filter | 10/20/23 10:24 | | 101% |



ARS Sample Delivery Group: ARS1-23-02073
Client Sample ID: MSC02-091123
Sample Collection Date: 09/14/23 15:03
Sample Matrix: Air Filter
Percent Solids: N/A

Request or PO Number: J310000600
ARS Sample ID: ARS1-23-02073-004
Date Received: 09/20/23
Report Date: 10/24/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-01913-07

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | -3.203E-8 | 4.879E-8 | 1.116E-7 | 4.713E-8 | 4.8E-08 | U | uCi/filter | 10/18/23 20:40 | | 63.6% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-01908-07

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 1.197E-7 | 5.300E-8 | 3.830E-8 | 1.210E-8 | 1.4E-08 | | uCi/filter | 10/18/23 20:38 | | 82.3% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01837-07

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Bi-214 | 3.820E-6 | 1.161E-6 | 1.342E-6 | 6.710E-7 | NP | | uCi/filter | 10/09/23 14:09 | | N/A |
| Co-60 | -3.588E-7 | 8.692E-7 | 8.875E-7 | 4.438E-7 | 0.00024 | U | uCi/filter | 10/09/23 14:09 | | N/A |
| Cs-137 | 2.395E-8 | 6.527E-7 | 7.127E-7 | 3.564E-7 | 0.00048 | U | uCi/filter | 10/09/23 14:09 | | N/A |
| K-40 | 1.297E-5 | 6.915E-6 | 7.602E-6 | 3.801E-6 | NP | | uCi/filter | 10/09/23 14:09 | | N/A |
| Pb-214 | 2.795E-6 | 9.730E-7 | 1.168E-6 | 5.840E-7 | NP | | uCi/filter | 10/09/23 14:09 | | N/A |
| Ra-226 | 4.065E-7 | 7.337E-6 | 9.312E-6 | 4.656E-6 | 4.4E-06 | U | uCi/filter | 10/09/23 14:09 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-01945-07

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 3.688E-7 | 2.234E-6 | 3.989E-6 | 1.845E-6 | 2.4E-05 | U | uCi/filter | 10/20/23 10:24 | | 104% |

ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Batch QC



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01837 |
| SDG | ARS1-23-02073 |
| Analysis | Gamma Spec (Short) in (Air Filters, Smears [AF]) |
| Method | EPA 901.1M |
| Analysis Code | GAM-A-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | Analysis Date | 10/09/23 10:35 | Analysis Technician | █ | |
|---------------------------|---------|---------|---------------|----------------|---------------------|-------------|-------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01837-01 | LCS | AM-241 | 31.060 | 2.364 | 33.065 | 93.9 | 0.120 |
| ARS1-B23-01837-01 | LCS | CO-60 | 21.348 | 1.268 | 20.928 | 102.0 | 0.374 |
| ARS1-B23-01837-01 | LCS | CS-137 | 13.421 | 0.875 | 12.996 | 103.3 | 0.065 |

| Duplicate RER/DER/RPD | | | Analysis Date | 10/09/23 10:52 | Analysis Technician | █ |
|-----------------------|-------------|--------------|---------------|----------------|---------------------|-----|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD |
| AM-241 | 31.060 | 2.364 | 31.108 | 2.368 | 0.028 | 0.2 |
| CO-60 | 21.348 | 1.268 | 20.374 | 1.225 | 1.082 | 4.7 |
| CS-137 | 13.421 | 0.875 | 13.240 | 0.864 | 0.289 | 1.4 |

| Method Blank | | | Analysis Date | 10/08/23 11:59 | Analysis Technician | █ |
|--------------------------|---------|---------|---------------|----------------|---------------------|------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual |
| ARS1-B23-01837-03 | MBL | AC-228 | -0.001 | 0.007 | 0.006 | U |
| ARS1-B23-01837-03 | MBL | AM-241 | -2.479E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | BI-212 | 0.006 | 0.011 | 0.012 | U |
| ARS1-B23-01837-03 | MBL | BI-214 | 0.001 | 0.004 | 0.004 | U |
| ARS1-B23-01837-03 | MBL | CO-60 | -5.582E-4 | 0.002 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | CS-137 | 4.181E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | EU-152 | 5.982E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | EU-154 | -2.840E-5 | 9.994E-4 | 0.001 | U |
| ARS1-B23-01837-03 | MBL | K-40 | 0.004 | 0.020 | 0.021 | U |
| ARS1-B23-01837-03 | MBL | PA-234 | 7.669E-4 | 0.002 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | PB-210 | -0.013 | 0.017 | 0.018 | U |
| ARS1-B23-01837-03 | MBL | PB-212 | 1.286E-4 | 0.002 | 0.003 | U |
| ARS1-B23-01837-03 | MBL | PB-214 | -1.087E-4 | 0.003 | 0.003 | U |
| ARS1-B23-01837-03 | MBL | RA-226 | -0.092 | 0.035 | 0.032 | U |
| ARS1-B23-01837-03 | MBL | RA-228 | -0.001 | 0.007 | 0.006 | U |
| ARS1-B23-01837-03 | MBL | TH-234 | 1.417E-4 | 0.016 | 0.017 | U |
| ARS1-B23-01837-03 | MBL | TL-208 | -0.002 | 0.002 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | U-235 | 0.002 | 0.005 | 0.008 | U |
| ARS1-B23-01837-03 | MBL | U-238 | 1.417E-4 | 0.016 | 0.017 | U |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01908 |
| SDG | ARS1-23-02073 |
| Analysis | Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT]) |
| Method | Eichrom ACW10 |
| Analysis Code | ASP-TH-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 10/18/23 20:38 | Analysis Technician | [REDACTED] |
|---------------------------|---------|---------|----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01908-01 | LCS | TH-230 | 5.999E-6 | 7.517E-7 | 5.464E-6 | 109.8 | 1.834E-8 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 10/18/23 20:38 | Analysis Technician | [REDACTED] |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|------------|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| TH-230 | 5.999E-6 | 7.517E-7 | 5.887E-6 | 7.378E-7 | 0.208 | 1.9 | |

| Method Blank | | | | Analysis Date | 10/18/23 20:38 | Analysis Technician | [REDACTED] |
|--------------------------|---------|---------|-----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-01908-03 | MBL | TH-228 | -1.895E-8 | 8.123E-8 | 1.581E-7 | U | |
| ARS1-B23-01908-03 | MBL | TH-230 | 8.136E-8 | 7.723E-8 | 1.219E-7 | U | |
| ARS1-B23-01908-03 | MBL | TH-232 | 1.249E-8 | 2.453E-8 | 4.599E-8 | U | |



QC Results per Analytical Batch

| | |
|------------------|---|
| Analytical Batch | ARS1-B23-01913 |
| SDG | ARS1-23-02073 |
| Analysis | Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT]) |
| Method | Eichrom ACW03 |
| Analysis Code | ASP-PU239-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 10/18/23 20:40 | Analysis Technician | [REDACTED] |
|---------------------------|---------|------------|----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01913-01 | LCS | PU-239/240 | 7.631E-6 | 9.528E-7 | 7.620E-6 | 100.1 | 2.341E-8 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 10/18/23 20:40 | Analysis Technician | [REDACTED] |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|------------|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| PU-239/240 | 7.631E-6 | 9.528E-7 | 7.433E-6 | 9.319E-7 | 0.291 | 2.6 | |

| Method Blank | | | | Analysis Date | 10/18/23 20:40 | Analysis Technician | [REDACTED] |
|--------------------------|---------|------------|-----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-01913-03 | MBL | PU-238 | 4.951E-8 | 9.320E-8 | 1.626E-7 | U | |
| ARS1-B23-01913-03 | MBL | PU-239/240 | -2.829E-8 | 3.936E-8 | 9.978E-8 | U | |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01945 |
| SDG | ARS1-23-02073 |
| Analysis | Strontium-90 in (Air Filters, Smears [AF]) |
| Method | Eichrom SRW01 |
| Analysis Code | GPC-SR90-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 10/20/23 10:24 | Analysis Technician | [REDACTED] |
|---------------------------|---------|---------|----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01945-01 | LCS | SR-90 | 2.003E-5 | 3.065E-6 | 1.963E-5 | 102.0 | 3.663E-7 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 10/20/23 10:24 | Analysis Technician | [REDACTED] |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|------------|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| SR-90 | 2.003E-5 | 3.065E-6 | 1.965E-5 | 3.009E-6 | 0.171 | 1.9 | |

| Method Blank | | | | Analysis Date | 10/20/23 10:24 | Analysis Technician | [REDACTED] |
|--------------------------|---------|---------|----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-01945-03 | MBL | SR-90 | 2.808E-6 | 2.444E-6 | 3.905E-6 | U | |

ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

QC Summary



QC Sample Results

Analytical Batch: ARS1-B23-01837
Lab Sample ID: ARS1-B23-01837-01
Method: EPA 901.1M

Sample Type: LCS
Matrix: Air Filter
Analysis Date: 10/09/23 10:35

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| Am-241 | 33.065 | 31.060 | | uCi/filter | 93.9 | 75 - 125 |
| Co-60 | 20.928 | 21.348 | | uCi/filter | 102.0 | 75 - 125 |
| Cs-137 | 12.996 | 13.421 | | uCi/filter | 103.3 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01837

Lab Sample ID: ARS1-B23-01837-02

Method: EPA 901.1M

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/09/23 10:52

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Am-241 | 33.065 | 31.108 | | uCi/filter | 94.1 | 75 - 125 | 0.2 | 25 | 0.028 | 3 |
| Co-60 | 20.928 | 20.374 | | uCi/filter | 97.4 | 75 - 125 | 4.7 | 25 | 1.082 | 3 |
| Cs-137 | 12.996 | 13.240 | | uCi/filter | 101.9 | 75 - 125 | 1.4 | 25 | 0.289 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01837
Lab Sample ID: ARS1-B23-01837-03
Method: EPA 901.1M

Sample Type: MBL
Matrix: Air Filter
Analysis Date: 10/08/23 11:59

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|-------|----------|------|----------------|
| Ac-228 | -0.001 | 0.007 | 0.006 | 0.003 | U | uCi/filter |
| Am-241 | -2.479E-4 | 0.001 | 0.002 | 0.001 | U | uCi/filter |
| Bi-212 | 0.006 | 0.011 | 0.012 | 0.006 | U | uCi/filter |
| Bi-214 | 0.001 | 0.004 | 0.004 | 0.002 | U | uCi/filter |
| Co-60 | -5.582E-4 | 0.002 | 0.002 | 9.050E-4 | U | uCi/filter |
| Cs-137 | 4.181E-4 | 0.001 | 0.002 | 7.500E-4 | U | uCi/filter |
| Eu-152 | 5.982E-4 | 0.001 | 0.002 | 8.550E-4 | U | uCi/filter |
| Eu-154 | -2.840E-5 | 9.994E-4 | 0.001 | 6.650E-4 | U | uCi/filter |
| K-40 | 0.004 | 0.020 | 0.021 | 0.010 | U | uCi/filter |
| Pa-234 | 7.669E-4 | 0.002 | 0.002 | 0.001 | U | uCi/filter |
| Pb-210 | -0.013 | 0.017 | 0.018 | 0.009 | U | uCi/filter |
| Pb-212 | 1.286E-4 | 0.002 | 0.003 | 0.001 | U | uCi/filter |
| Pb-214 | -1.087E-4 | 0.003 | 0.003 | 0.002 | U | uCi/filter |
| Ra-226 | -0.092 | 0.035 | 0.032 | 0.016 | U | uCi/filter |
| Ra-228 | -0.001 | 0.007 | 0.006 | 0.003 | U | uCi/filter |
| Th-234 | 1.417E-4 | 0.016 | 0.017 | 0.009 | U | uCi/filter |
| Tl-208 | -0.002 | 0.002 | 0.002 | 8.950E-4 | U | uCi/filter |
| U-235 | 0.002 | 0.005 | 0.008 | 0.004 | U | uCi/filter |
| U-238 | 1.417E-4 | 0.016 | 0.017 | 0.009 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02073

Analytical Batch: ARS1-B23-01837

Analysis: Gamma Spec (Short) in (Air Filters, Smears [AF])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|------------|-------------|
| ARS1-B23-01837-01 | | Lab Control Sample | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-02 | | Lab Control Sample Duplicate | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-03 | | Method Blank | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-04 | ARS1-23-02073-001 | FBC-091123 | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-05 | ARS1-23-02073-002 | MSC01-091123 | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-06 | ARS1-23-02073-003 | MSC01-091123-D | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-07 | ARS1-23-02073-004 | MSC02-091123 | Air Filter | EPA 901.1M | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-01908

Lab Sample ID: ARS1-B23-01908-01

Method: Eichrom ACW10

Sample Type: LCS

Matrix: Air Filter

Analysis Date: 10/18/23 20:38

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| Th-230 | 5.464E-6 | 5.999E-6 | | uCi/filter | 109.8 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01908

Lab Sample ID: ARS1-B23-01908-02

Method: Eichrom ACW10

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/18/23 20:38

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Th-230 | 5.474E-6 | 5.887E-6 | | uCi/filter | 107.5 | 75 - 125 | 1.9 | 25 | 0.208 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01908

Lab Sample ID: ARS1-B23-01908-03

Method: Eichrom ACW10

Sample Type: MBL

Matrix: Air Filter

Analysis Date: 10/18/23 20:38

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|----------|----------|------|----------------|
| Th-228 | -1.895E-8 | 8.123E-8 | 1.581E-7 | 7.048E-8 | U | uCi/filter |
| Th-230 | 8.136E-8 | 7.723E-8 | 1.219E-7 | 5.249E-8 | U | uCi/filter |
| Th-232 | 1.249E-8 | 2.453E-8 | 4.599E-8 | 1.453E-8 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02073

Analytical Batch: ARS1-B23-01908

Analysis: Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-01908-01 | | Lab Control Sample | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01908-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01908-03 | | Method Blank | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01908-04 | ARS1-23-02073-001 | FBC-091123 | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01908-05 | ARS1-23-02073-002 | MSC01-091123 | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01908-06 | ARS1-23-02073-003 | MSC01-091123-D | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01908-07 | ARS1-23-02073-004 | MSC02-091123 | Air Filter | Eichrom ACW10 | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-01913

Lab Sample ID: ARS1-B23-01913-01

Method: Eichrom ACW03

Sample Type: LCS

Matrix: Air Filter

Analysis Date: 10/18/23 20:40

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|------------|-------------|-----------------|------|----------------|-------|--------------|
| Pu-239/240 | 7.620E-6 | 7.631E-6 | | uCi/filter | 100.1 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01913

Lab Sample ID: ARS1-B23-01913-02

Method: Eichrom ACW03

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/18/23 20:40

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|------------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Pu-239/240 | 7.656E-6 | 7.433E-6 | | uCi/filter | 97.1 | 75 - 125 | 2.6 | 25 | 0.291 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01913

Lab Sample ID: ARS1-B23-01913-03

Method: Eichrom ACW03

Sample Type: MBL

Matrix: Air Filter

Analysis Date: 10/18/23 20:40

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|------------|-----------------|-------------|----------|----------|------|----------------|
| Pu-238 | 4.951E-8 | 9.320E-8 | 1.626E-7 | 7.173E-8 | U | uCi/filter |
| Pu-239/240 | -2.829E-8 | 3.936E-8 | 9.978E-8 | 4.031E-8 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02073

Analytical Batch: ARS1-B23-01913

Analysis: Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-01913-01 | | Lab Control Sample | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01913-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01913-03 | | Method Blank | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01913-04 | ARS1-23-02073-001 | FBC-091123 | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01913-05 | ARS1-23-02073-002 | MSC01-091123 | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01913-06 | ARS1-23-02073-003 | MSC01-091123-D | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01913-07 | ARS1-23-02073-004 | MSC02-091123 | Air Filter | Eichrom ACW03 | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-01945
Lab Sample ID: ARS1-B23-01945-01
Method: Eichrom SRW01

Sample Type: LCS
Matrix: Air Filter
Analysis Date: 10/20/23 10:24

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| SR-90 | 1.963E-5 | 2.003E-5 | | uCi/filter | 102.0 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01945

Lab Sample ID: ARS1-B23-01945-02

Method: Eichrom SRW01

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/20/23 10:24

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| SR-90 | 2.059E-5 | 1.965E-5 | | uCi/filter | 95.4 | 75 - 125 | 1.9 | 25 | 0.171 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01945

Lab Sample ID: ARS1-B23-01945-03

Method: Eichrom SRW01

Sample Type: MBL

Matrix: Air Filter

Analysis Date: 10/20/23 10:24

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|----------|----------|------|----------------|
| SR-90 | 2.808E-6 | 2.444E-6 | 3.905E-6 | 1.802E-6 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02073

Analytical Batch: ARS1-B23-01945

Analysis: Strontium-90 in (Air Filters, Smears [AF])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-01945-01 | | Lab Control Sample | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01945-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01945-03 | | Method Blank | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01945-04 | ARS1-23-02073-001 | FBC-091123 | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01945-05 | ARS1-23-02073-002 | MSC01-091123 | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01945-06 | ARS1-23-02073-003 | MSC01-091123-D | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01945-07 | ARS1-23-02073-004 | MSC02-091123 | Air Filter | Eichrom SRW01 | N/A |



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Sample Management Records

**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282

COC # 091923RADC



| | | |
|---|---|---|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: ARS Aleut Analytical (AAA), Port Allen, LA | Event: Parcel C Air Monitoring RAD |
| Project Number: J310000600 | POC | |
| WBS Code: J310000600 | Ship to: 2609 North River Road, Port Allen, LA 70767-3469 | |

| | | | | |
|-------------------|-------------------------------|---|--------------------------------------|--------------------------------|
| Comments: | Analytical Test Method | E901.1 - Gamma Spec Ra226 Cs137 RC0240 - Pu and Th Isotopes SR02RC - Sr90 | Code Matrix | |
| | | | A | Air |
| Equipment: | | | AQ Air Quality Control Matrix | |
| | | | Code | Container/Preservative |
| | | | 5 | 1x 1-L Plastic, HNO3, pH < 2 |
| | | | 15 | 1x 250-mL Plastic, 4 Degrees C |

| Event: Parcel C Air Monitoring RAD | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----------------|------|------------|------------|----|----|---|---|--|--|--|--|--|--|-------------|-------------|----------------|------|--------|-----------------|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
| | | | | | 15 | 15 | 5 | | | | | | | | | | | | | |
| 1 | FBC-091123 | AQ | 09/11/2023 | 0800 | | X | X | X | | | | | | | FIELDQC | FB1 | 0.00 | 0.00 | 1 | |
| 2 | MSC01-091123 | A | 09/14/2023 | 1503 | | X | X | X | | | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | TOTAL FLOW (L): |
| 3 | MSC01-091123-D | A | 09/14/2023 | 1504 | | X | X | X | | | | | | | MSC01 | FD1 | 0.00 | 0.00 | 1 | TOTAL FLOW (L): |
| 4 | MSC02-091123 | A | 09/14/2023 | 1503 | | X | X | X | | | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | TOTAL FLOW (L): |

Turnaround Time: 28 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|--|---------|------|--------------------------|---------|-------|---|
| | 9/19/23 | 1300 | FEDEX | 9/19/23 | 1300 | Shipping Date: 9/19/2023 / FEDEX / 7732 7166 3725 |
| | | | | 9-20-23 | 10:15 | |
| Received by Laboratory: (Signature, Date, Time) & condition | | | | | | |

SDG Report - Samples and Containers

| SDG Specific Data | | | | | | | | | | |
|-----------------------|----------------------|------------------|-----------|--------------------------|-------------------------|--|---------------------|---|--|--|
| SDG | ARS1-23-02073 | | | TAT Days | 28 Calendar Days | | Project Type | Environmental | | |
| Sample Count | 4 | Rpt Level | 2b | Date Received | 09/20/2023 | | COC Number | 091923RADC | | |
| Client | GES-AIS, LLC | | | Discrepancy Resol | N/A | | PO Number | J310000600 | | |
| Client Code | 1138 | | | Client Deadline | 10/18/2023 | | Job Number | | | |
| Profile Number | PN-01440 | | | | | | Job Location | Hunters Point Shipyard, Parcel C Removal Site Evaluation | | |
| Comment | | | | | | | | | | |

| Samples and Containers Checked In Thus Far | | | | | | | | | |
|--|----------------|------------|-----------------------|----------------------|------------------|------|-------------|-------------|-----------------|
| FR | Name | Matrix | Start Date | End Date | Disp | Hold | Arch | Storage | Comments |
| 001 | FBC-091123 | Air Filter | 09/11/2023 07:59 | 09/11/2023 08:00 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448161 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/11/2023 07:59 | AF Volume (CuM): | | 0.001 | | |
| 002 | MSC01-091123 | Air Filter | 09/14/2023 15:02 | 09/14/2023 15:03 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448162 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/14/2023 15:02 | AF Volume (CuM): | | 0.001 | | |
| 003 | MSC01-091123-D | Air Filter | 09/14/2023 15:03 | 09/14/2023 15:04 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448163 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/14/2023 15:03 | AF Volume (CuM): | | 0.001 | | |
| 004 | MSC02-091123 | Air Filter | 09/14/2023 15:02 | 09/14/2023 15:03 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448164 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/14/2023 15:02 | AF Volume (CuM): | | 0.001 | | |

SDG Report - Analysis Assignments

| | | | |
|---------------|----------------------|-----------------------|-------------|
| SDG | ARS1-23-02073 | Sample Count | 4 |
| Client | GES-AIS, LLC | Analysis Count | 4-16 |

| Sample Count Totals Per Analysis | | | |
|----------------------------------|---|--------|---------------|
| Analysis Code | Analysis Description | In/Out | Samples Count |
| ASP-PU239-AF | Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT]) | I | 4 |
| ASP-TH-AF | Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT]) | I | 4 |
| GAM-A-AF | Gamma Spec (Short) in (Air Filters, Smears [AF]) | I | 4 |
| GPC-SR90-AF | Strontium-90 in (Air Filters, Smears [AF]) | I | 4 |

| Analyses Assigned Per Fraction | | |
|--------------------------------|---------------|--------------|
| Fraction | Analysis Code | X = Assigned |
| 001 | ASP-PU239-AF | X |
| 001 | ASP-TH-AF | X |
| 001 | GAM-A-AF | X |
| 001 | GPC-SR90-AF | X |
| 002 | ASP-PU239-AF | X |
| 002 | ASP-TH-AF | X |
| 002 | GAM-A-AF | X |
| 002 | GPC-SR90-AF | X |
| 003 | ASP-PU239-AF | X |
| 003 | ASP-TH-AF | X |
| 003 | GAM-A-AF | X |
| 003 | GPC-SR90-AF | X |
| 004 | ASP-PU239-AF | X |
| 004 | ASP-TH-AF | X |
| 004 | GAM-A-AF | X |
| 004 | GPC-SR90-AF | X |

Client Name: GES-AIS, LLC

Profile Name: Parcel C Rad Sampling

Report Level: 2b

| Analysis Code | Prep Type | Units | Aliquot | Prep Code | Procedure | Count Time | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|-------|---------|--------------------|--------------|------------|--------|--------|---|----|-----|---------------------|-----|-----------|----------|--------------------|-------------|--------|--------|------------|---|----|-----|
| ASP-PU239-AF | WRAD | uCi | filter | N/A | PALA-RAD-026 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL | | | |
| Pu-239/240 (15117-48-3) | | | | 4.8E-08 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| ASP-TH-AF | WRAD | uCi | filter | N/A | PALA-RAD-031 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL | | | |
| Th-232 (7440-29-1) | | | | 1.4E-08 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| GAM-A-AF | WGAM | uCi | filter | N/A | PALA-RAD-007 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL | | | |
| | | | | | | | | | | | | Ac-228 (14331-83-0) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Am-241 (14596-10-2) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Bi-212 (14913-49-6) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Bi-214 (14733-03-0) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Co-60 (10198-40-0) | | | | 0.00024 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Cs-137 (10045-97-3) | | | | 0.00048 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Eu-152 (14683-23-9) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Eu-154 (15585-10-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | K-40 (13966-00-2) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-210 (14255-04-0) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-212 (15092-94-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-214 (15067-28-4) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Ra-226 (13982-63-3) | | | | 4.4E-06 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Ra-228 (15262-20-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| Th-234 (15065-10-8) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| Tl-208 (14913-50-9) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| U-235 (15117-96-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| U-238 (7440-61-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-------------|---------------------|-----|--------|--------------------|------------------|-----------------|-------------------|--------------------|------------|------------|-------------------|
| GAM-A-AF | Pa-234 (15100-28-4) | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| GPC-SR90-AF | WRAD | uCi | filter | N/A | PALA-RAD-032 | | | | | | |
| | Analyte | | | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL |
| | Sr-90 (10098-97-2) | | | 2.4E-05 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |

| Analysis Code | Fraction | Units | Aliquot | Conductivity | Analyte Count |
|---------------|----------|-----------------------|---------|----------------|---------------|
| ASP-PU239-AF | 001 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-PU239-AF | 002 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-PU239-AF | 003 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-PU239-AF | 004 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-TH-AF | 001 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| ASP-TH-AF | 002 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| ASP-TH-AF | 003 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| ASP-TH-AF | 004 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| GAM-A-AF | 001 | uCi | filter | N/A | 19 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Ac-228 | |

| | | | | | |
|-----------------------|-----|-----------------------|--------|----------------|----|
| GAM-A-AF | 001 | Parcel C Rad Sampling | | Am-241 | |
| | | Parcel C Rad Sampling | | Bi-212 | |
| | | Parcel C Rad Sampling | | Bi-214 | |
| | | Parcel C Rad Sampling | | Co-60 | |
| | | Parcel C Rad Sampling | | Cs-137 | |
| | | Parcel C Rad Sampling | | Eu-152 | |
| | | Parcel C Rad Sampling | | Eu-154 | |
| | | Parcel C Rad Sampling | | K-40 | |
| | | Parcel C Rad Sampling | | Pa-234 | |
| | | Parcel C Rad Sampling | | Pb-210 | |
| | | Parcel C Rad Sampling | | Pb-212 | |
| | | Parcel C Rad Sampling | | Pb-214 | |
| | | Parcel C Rad Sampling | | Ra-226 | |
| | | Parcel C Rad Sampling | | Ra-228 | |
| | | Parcel C Rad Sampling | | Th-234 | |
| | | Parcel C Rad Sampling | | Tl-208 | |
| | | Parcel C Rad Sampling | | U-235 | |
| Parcel C Rad Sampling | | U-238 | | | |
| GAM-A-AF | 002 | uCi | filter | N/A | 19 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Ac-228 | |
| | | Parcel C Rad Sampling | | Am-241 | |
| | | Parcel C Rad Sampling | | Bi-212 | |
| | | Parcel C Rad Sampling | | Bi-214 | |
| | | Parcel C Rad Sampling | | Co-60 | |
| | | Parcel C Rad Sampling | | Cs-137 | |
| | | Parcel C Rad Sampling | | Eu-152 | |
| | | Parcel C Rad Sampling | | Eu-154 | |
| | | Parcel C Rad Sampling | | K-40 | |
| | | Parcel C Rad Sampling | | Pa-234 | |
| | | Parcel C Rad Sampling | | Pb-210 | |
| | | Parcel C Rad Sampling | | Pb-212 | |
| | | Parcel C Rad Sampling | | Pb-214 | |
| Parcel C Rad Sampling | | Ra-226 | | | |

| | | | | | |
|-----------------------|-----|-----------------------|--------|----------------|----|
| GAM-A-AF | 002 | Parcel C Rad Sampling | | Ra-228 | |
| | | Parcel C Rad Sampling | | Th-234 | |
| | | Parcel C Rad Sampling | | TI-208 | |
| | | Parcel C Rad Sampling | | U-235 | |
| | | Parcel C Rad Sampling | | U-238 | |
| GAM-A-AF | 003 | uCi | filter | N/A | 19 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Ac-228 | |
| | | Parcel C Rad Sampling | | Am-241 | |
| | | Parcel C Rad Sampling | | Bi-212 | |
| | | Parcel C Rad Sampling | | Bi-214 | |
| | | Parcel C Rad Sampling | | Co-60 | |
| | | Parcel C Rad Sampling | | Cs-137 | |
| | | Parcel C Rad Sampling | | Eu-152 | |
| | | Parcel C Rad Sampling | | Eu-154 | |
| | | Parcel C Rad Sampling | | K-40 | |
| | | Parcel C Rad Sampling | | Pa-234 | |
| | | Parcel C Rad Sampling | | Pb-210 | |
| | | Parcel C Rad Sampling | | Pb-212 | |
| | | Parcel C Rad Sampling | | Pb-214 | |
| | | Parcel C Rad Sampling | | Ra-226 | |
| | | Parcel C Rad Sampling | | Ra-228 | |
| | | Parcel C Rad Sampling | | Th-234 | |
| | | Parcel C Rad Sampling | | TI-208 | |
| | | Parcel C Rad Sampling | | U-235 | |
| Parcel C Rad Sampling | | U-238 | | | |
| GAM-A-AF | 004 | uCi | filter | N/A | 19 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Ac-228 | |
| | | Parcel C Rad Sampling | | Am-241 | |
| | | Parcel C Rad Sampling | | Bi-212 | |
| | | Parcel C Rad Sampling | | Bi-214 | |
| | | Parcel C Rad Sampling | | Co-60 | |
| Parcel C Rad Sampling | | Cs-137 | | | |

| | | | | | |
|-------------|-----|-----------------------|--------|----------------|---|
| GAM-A-AF | 004 | Parcel C Rad Sampling | | Eu-152 | |
| | | Parcel C Rad Sampling | | Eu-154 | |
| | | Parcel C Rad Sampling | | K-40 | |
| | | Parcel C Rad Sampling | | Pa-234 | |
| | | Parcel C Rad Sampling | | Pb-210 | |
| | | Parcel C Rad Sampling | | Pb-212 | |
| | | Parcel C Rad Sampling | | Pb-214 | |
| | | Parcel C Rad Sampling | | Ra-226 | |
| | | Parcel C Rad Sampling | | Ra-228 | |
| | | Parcel C Rad Sampling | | Th-234 | |
| | | Parcel C Rad Sampling | | Tl-208 | |
| | | Parcel C Rad Sampling | | U-235 | |
| | | Parcel C Rad Sampling | | U-238 | |
| GPC-SR90-AF | 001 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Sr-90 | |
| GPC-SR90-AF | 002 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Sr-90 | |
| GPC-SR90-AF | 003 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Sr-90 | |
| GPC-SR90-AF | 004 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Sr-90 | |

PALA Sample Receipt Inspection Form

Client Name: GES

SDG: ARS1-23-2073

Sample Custodian: [REDACTED] Survey Start Date: 9-20-23 Survey Start Time: 10:15
 Thermometer ID: E1054012261 Calibration Due Date: 1-12-24 pH Paper Lot# NA
 Exposure Rate Meter + Probe Unit ID: 330334 Calibration Due Date: 3-21-24 Background: 5 µR/hr
 Count Rate Meter + Probe Unit ID: 104861 Calibration Due Date: 3-21-24 Background: 20 cpm
 Delivery Type (circle one): Direct Lock Box Commercial Carrier: FedEx Total # of ESCs: 1

*True temperature is recorded which includes any applicable correction factors.

| External Shipping Container Tracking: | Exposure Rate (µR/hr) (limit <500 µR/hr) | Max External Swipe Counts (cpm) | Max Internal Swipe Counts (cpm) | ESC True Temps* (°C) | TRAX Matrix ID (circle all that apply): (See Section 4.3 of SOP) |
|---------------------------------------|--|---------------------------------|---------------------------------|----------------------|--|
| A: <u>773271663725</u> | <u>5</u> | <u>20</u> | <u>20</u> | <u>—</u> | AQ WD WG WO |
| B: _____ | _____ | _____ | _____ | _____ | WS WW SI UR |
| C: _____ | _____ | _____ | _____ | _____ | SO OL BI VG |
| D: _____ | _____ | _____ | _____ | _____ | WP SM <u>AF</u> |
| E: _____ | _____ | _____ | _____ | _____ | |
| F: _____ | _____ | _____ | _____ | _____ | |

Visual Inspection: (Circle response)

External Shipping Container

Good Condition with no Leaks or Tears: Yes No

Marked Radioactive: Yes No

UN2910: Yes No

Security Seals: Yes No

If yes, intact?: Yes No N/A

Internal Shipping Container

COC's Present: Yes No

Well packaged container with no signs of leakage: Yes No

COC/Sample Inspection (Circle response)

Sample Containers in good condition: Yes No

No spills or leaks: Yes No

Marked Radioactive: Yes No

Durable labels w/indelible ink: Yes No

COC relinquished/received correctly: Yes No

Adequate volume/filled correctly: Yes No

Hold Time sufficient for analysis: Yes No

For VOC/Radon, Head space? Yes No N/A

If yes, <6mm? Yes No N/A

of containers received matches # on COC: Yes No

Samples received on ice? Yes No No

Type (circle one): *Bagged Ice* *Loose Ice* *Blue Ice* N/A

Comments: _____



Procedures: GES-003 / EPA 900.0M

Start Date 9/11/23

File ID Number: 091923RADC

Stop Date 9/14/23

Field Entry

| Station | Sample ID | Date In: | Time In: | Date Out: | Time Out: | Initial Flow Rate (LPM) | Final Flow Rate (LPM) | Flow volume Cu.M | Julian Date for Date Out | Total Run Time (Days) | Total Run Time (Hours) | Run Time (Minutes) | Average Flow Rate (LPM) | Initial Flow Rate (CFM) | Final Flow Rate (CFM) | Average Flow Rate (CFM) | Average Flow Rate (Cu.M/h) | Flow Rate (Cu.M/min) | Total Flow (L) |
|---------|------------|----------------|----------|-----------|-----------|-------------------------|-----------------------|------------------|--------------------------|-----------------------|------------------------|--------------------|-------------------------|-------------------------|-----------------------|-------------------------|----------------------------|----------------------|----------------|
| | FBC-091123 | 9/11/2023 | 800 | 9/11/2023 | 800 | | | | | | | | | | | | | | |
| 1 | MSC01 | MSC01-091123 | 09/11/23 | 4:00 | 09/14/23 | 15:03 | 60 | 299.0 | 257 | 3.46 | 83.05 | 4983.0 | 60 | 2.11888 | 2.11888 | 2.11888 | 3.6 | 0.06 | 298,980 |
| 2 | MSC01 | MSC01-091123-D | 09/11/23 | 4:00 | 09/14/23 | 15:04 | 60 | 299.0 | 257 | 3.46 | 83.07 | 4984.0 | 60 | 2.11888 | 2.11888 | 2.11888 | 3.6 | 0.06 | 299,040 |
| 3 | MSC02 | MSC02-091123 | 09/11/23 | 4:15 | 09/14/23 | 15:03 | 60 | 298.1 | 257 | 3.45 | 82.80 | 4968.0 | 60 | 2.11888 | 2.11888 | 2.11888 | 3.6 | 0.06 | 298,080 |

FORMULAS:

Number of Days = (Date Out +Time Out) minus (Date In+Time In)
 Number of Minutes = # of Days X 24hr X 60min
 Flow Rate (m3/h) = Flow Rate (CFM) x 60min x (12in x 2.54cm/in / 100cm/m)^3 :
 Mid-Sample Date/Time = [(Date+Time Out) + (Date+Time In)] / 2
 Flow Rate (Cu.M/min) = CFM X 0.0283168466 Cu.M/CF
 Flow Rate (LPM) = Cu.M X 1000
 Total Flow (L) = LPM X Total Minutes

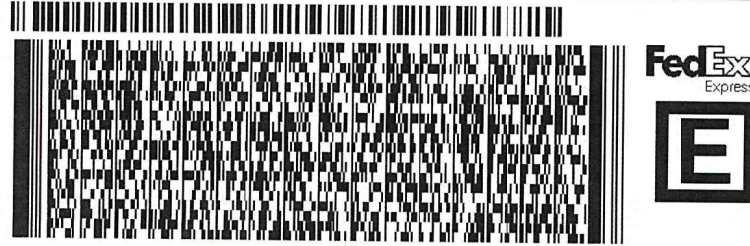
ORIGIN ID: ICCA [REDACTED]
 200 FISHER STREET
 SAN FRANCISCO, CA 94124
 UNITED STATES US

SHIP DATE: 05SEP23
 ACTWGT: 1.00 LB
 CAD: 254128867/INET4640

BILL SENDER

TO [REDACTED]
ARS ALEUT ANALYTICAL, LLC
2609 NORTH RIVER ROAD

PORT ALLEN LA 70767
 (225) 381-2991 REF: J31000.600 02.04.05
 INV: DEPT:
 PO:



TRK# 7732 7166 3725
 0201

WED - 06 SEP 5:00P
 STANDARD OVERNIGHT

XN OPLA 70767
 LA-US MSY

After printing this label:

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

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

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



2609 North River Road
Port Allen, Louisiana 70767
(225) 228-1394

ARS Aleut Analytical, LLC

Laboratory Analytical Report

ARS1-23-02151


GES-AIS, LLC



1501 West Fountainhead Parkway
Suite 550
Tempe, AZ 94520



COC Number: **092623RADC**
PO Number: **Parcel C Air Monitoring RAD**
Job Number: **J310000600**
Job Location: **Hunters Point Shipyard, Parcel C Removal Site Evaluation**

Questions regarding this analytical report should be addressed to ARS project manager, , who can be reached by email at projectmanagers@aaa.aleutfederal.com.

I certify that the test results presented in this report (in either hardcopy or electronic file (EDD)) meet the requirements of the laboratory's certifications and other applicable contract terms and conditions. A full list of the Port Allen, LA laboratory's certifications is provided with this report. Any exceptions to the certification or contract will be noted within the case narratives presented in the report. Any subcontracted sample results will be identified within the case narratives presented in the report. In the event this report is an amendment to a previously released report, the case narrative will clearly identify the original report as well as the reason(s) for reissuance. I authorize release and issuance of this report on the date signed below.



Laboratory Management, ARS Aleut Analytical

Signature

Date

Title

This report provides analytical results of the requested analysis and does not include any opinions or interpretations. ARS Aleut Analytical, LLC assumes no liability for the use or interpretation of analytical results. Results relate only to items tested. A partial reproduction of this test report is prohibited. Reproduction of this report in full requires the written approval of the laboratory.





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Certifications and Accreditations List

| State or Accrediting Body (AB) | Certificate Number |
|--------------------------------|---------------------------|
| AIHA LAP, LLC | 209312 |
| Alaska | LA01131 |
| California | 3085 |
| ANAB DoD | ADE-1489 |
| ANAB DOE | ADE-1489.01 |
| Louisiana DEQ - NELAC | 01949 |
| Louisiana DHH | LA022 |
| Nevada | LA011312024-02 |
| New Jersey | LA009 |
| New York | 66780 (NPW) / 66781 (SHW) |
| Texas | T104704447-22-18 |
| Utah | LA011312023-14 |
| Washington | C1010 |

For additional information related to the specific matrices, methods, and analytes recognized by each accrediting body, contact us at QA@aaa.alcutfederal.com for additional information.



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Case Narrative



**PROJECT SAMPLE IDENTIFICATION
CROSS-REFERENCE
TO ARS SAMPLE LABORATORY IDs**

| Client Sample ID | ARS Aleut Analytical Sample ID |
|---------------------|-----------------------------------|
| FBC-091823 | ARS1-23-02151-001 |
| MSC01-091823 | ARS1-23-02151-002 |
| MSC02-091823 | ARS1-23-02151-003 |

| Sample | Date Collected | Date Received | Analysis | Basis | Prep Date/Time | Analysis Date/Time |
|--------|-------------------|------------------|--------------|----------------|-------------------|-----------------------|
| 001 | 09/18/23 08:00 | 09/27/23 | ASP-PU239-AF | As Received | 10/20/23 07:30 | 10/24/23 23:20 |
| 001 | 09/18/23 08:00 | 09/27/23 | ASP-TH-AF | As Received | 10/23/23 07:45 | 10/25/23 02:54 |
| 001 | 09/18/23 08:00 | 09/27/23 | GAM-A-AF | As Received | NA | 10/13/23 20:38 |
| 001 | 09/18/23 08:00 | 09/27/23 | GPC-SR90-AF | As Received | 10/23/23 13:50 | 10/25/23 10:16 |
| 002 | 09/21/23 14:54 | 09/27/23 | ASP-PU239-AF | As Received | 10/20/23 07:30 | 10/24/23 23:20 |
| 002 | 09/21/23 14:54 | 09/27/23 | ASP-TH-AF | As Received | 10/23/23 07:45 | 10/25/23 02:54 |
| 002 | 09/21/23 14:54 | 09/27/23 | GAM-A-AF | As Received | NA | 10/13/23 21:18 |
| 002 | 09/21/23 14:54 | 09/27/23 | GPC-SR90-AF | As Received | 10/23/23 13:50 | 10/25/23 10:16 |
| 003 | 09/21/23 14:44 | 09/27/23 | ASP-PU239-AF | As Received | 10/20/23 07:30 | 10/24/23 23:20 |
| 003 | 09/21/23 14:44 | 09/27/23 | ASP-TH-AF | As Received | 10/23/23 07:45 | 10/25/23 02:54 |
| 003 | 09/21/23 14:44 | 09/27/23 | GAM-A-AF | As Received | NA | 10/16/23 14:13 |
| 003 | 09/21/23 14:44 | 09/27/23 | GPC-SR90-AF | As Received | 10/23/23 13:50 | 10/25/23 10:16 |

SAMPLE RECEIPT/PREP

The samples arrived in good condition. The samples were screened for radioactive contamination as per procedure **PALA-SR-001-SOP Sample Receiving**. Sample date(s) and time(s) are listed as provided by the client. In regard to the Air Filters, no flow rate information was provided by the client. Turnaround time was set at 28 calendar days.

ANALYTICAL METHODS

Pu-239/240 analysis was performed using **PALA-RAD-026, "Americium, Plutonium and Uranium in Water, Soil and Vegetation Matrices by Sequential Separation Using Eichrom Stabilized Chemistry Resin (with Vacuum Box System Option) (Eichrom ACW-02 & Eichrom ACW-03)"**.

Th-232 analysis was performed using **PALA-RAD-031, "Thorium in Water, Soil and Vegetation Matrices by Eichrom Resin Separation (Eichrom ACW-08 & Eichrom ACW-10)"**.

Ac-228, Am-241, Bi-212, Bi-214, Co-60, Cs-137, Eu-152, Eu-154, K-40, Pa-234, Pb-210, Pb-212, Pb-214, Ra-226, Ra-228, Th-234, Tl-208, U-235, and U-238 analyses were performed using **PALA-RAD-007, "Modified Gamma Emitting Radionuclides in Soil, Air, and Biota Matrices (EPA 901.1 Mod, SM 7120B, & HASL-300 Ga-01-R)"**.

Sr-90 analysis was performed using **PALA-RAD-032, "Strontium 89, 90 and Total Strontium in Water, Soil and Vegetation Matrices by Eichrom Resin Separation (Eichrom SRW01, EPA 905.0, HASL 300 Sr-01-RC)"**.

ANALYTICAL RESULTS

Fraction 001 in batch ARS1-B23-01959 has elevated MDA for Pu-239/240 with ACT of $-1.734E-8$ uCi/filter, MDA of $1.223E-7$ uCi/filter and CRDL of $4.8E-08$ uCi/filter.

Fraction 001 in batch ARS1-B23-01974 has elevated MDA for Th-232 with ACT of $-1.672E-8$ uCi/filter, MDA of $6.001E-8$ uCi/filter and CRDL of $1.4E-08$ uCi/filter.

Fraction 001 in batch ARS1-B23-01837 has elevated MDA for Ra-226 with ACT of $-1.166E-5$ uCi/filter, MDA of $1.552E-5$ uCi/filter and CRDL of $4.4E-06$ uCi/filter.

Fraction 002 in batch ARS1-B23-01959 has elevated MDA for Pu-239/240 with ACT of $-6.241E-8$ uCi/filter, MDA of $1.175E-7$ uCi/filter and CRDL of $4.8E-08$ uCi/filter.

Fraction 002 in batch ARS1-B23-01837 has elevated MDA for Ra-226 with ACT of $-1.445E-6$ uCi/filter, MDA of $1.006E-5$ uCi/filter and CRDL of $4.4E-06$ uCi/filter.

Fraction 003 in batch ARS1-B23-01959 has elevated MDA for Pu-239/240 with ACT of 0.000 uCi/filter, MDA of $6.597E-8$ uCi/filter and CRDL of $4.8E-08$ uCi/filter.

Fraction 003 in batch ARS1-B23-01837 has elevated MDA for Ra-226 with ACT of $2.371E-7$ uCi/filter, MDA of $9.413E-6$ uCi/filter and CRDL of $4.4E-06$ uCi/filter.

ARS1-B23-01959: ROI's adjusted to better fit the peaks of interest.

ARS1-B23-01974: ROI's adjusted to better fit the peaks of interest.

Notes (Case Narrative)

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) |
| DO | Duplicate Original |
| DUP | Sample Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MBL | Method Blank |
| MCL | Maximum Contaminant Level |
| MDA | Minimum Detectable Activity |
| MDL | Method Detection Limit |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NC | Not Calculated |
| NP | Not Provided |
| NR | Not Referenced |
| PQL | Practical Quantitation Limit |
| SDG | Sample Deliverable Group |

Data Qualifiers:

| | |
|----|--|
| B | The result of both the method blank and the target sample are above the MDL. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the LOD but below the LOQ, or above the MDL but below the PQL. |
| Q | One or more quality control criteria failed. |
| U | Result is below the MDA, MDL, PQL, LOD, or LOQ |
| * | LCS/LCSD or Sample DUP fails all Duplicate criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory. |
| H | Holding time exceeded |
| E | Exceeds MCL |
| ** | Reporting Limit is higher than MCL; Target cannot be detected |
| # | Method/Matrix/Analyte not accredited for this certification |

Radiochemistry Comments:

- 1.0) All MDA values are calculated on a sample specific basis.
- 2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 3.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 4.0) Ra-226 after a 21-day ingrowth period is determined via secular equilibrium with its daughter, Bismuth 214 (Gamma Spectroscopy only).
- 5.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 6.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 7.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 8.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 9.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 10.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Non-Potable Water**:
Gross Alpha and Gross Beta (EPA 900.0, EPA 9310); Radium 226 (EPA 903.0, EPA 903.1, EPA 9315); Radium 228 (EPA 904.0, EPA 9320); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7470A); Strontium-89 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-02-RC); Tritium (EPA 906.0); Enriched Tritium (ARS-040), Carbon-14 (ARS-019), Tritium/Carbon (ARS-151); Gamma Emitters (EPA 901.1, SM 7120B, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Am-03); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Pu-10); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Technetium-99 (Eichrom TCW02)
- 11.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Solid and Chemical Materials**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7471B); Strontium-89 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-02); Tritium (EPA 906.0 Mod); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Am-01-RC); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Pu-02-RC, HASL 300 Pu-03-RC); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 U-02, HASL 300 U-04); Technetium-99 (Eichrom TCS01)
- 12.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Air and Emissions**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); Strontium-89 (Eichrom SRW01, HASL 300 Sr-01-RC); Strontium-90 (Eichrom SRW01, HASL 300 Sr-02-RC); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Technetium-99 (Eichrom TCW02, Eichrom TCS01)

General Comments:

- 1.0 Modified analysis procedures are procedures that are modified to meet certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "M" or "Mod" to the procedure number (i.e. 901.1M, 901.1 Mod).
- 2.0 All NIOSH method results are reported without blank corrections applied.
- 3.0 Basis: "As Received" = analyzed as received from client; "Dry" = dried prior to being analyzed; "Dry Weight Corrected" = analyzed as received; result corrected for percent moisture.



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Analytical Results



ARS Sample Delivery Group: ARS1-23-02151

Client Sample ID: FBC-091823

Sample Collection Date: 09/18/23 8:00

Sample Matrix: Air Filter

Percent Solids: N/A

Request or PO Number: Parcel C Air Monitoring RAD

ARS Sample ID: ARS1-23-02151-001

Date Received: 09/27/23

Report Date: 10/26/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-01959-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | -1.734E-8 | 5.379E-8 | 1.223E-7 | 4.942E-8 | 4.8E-08 | U | uCi/filter | 10/24/23 23:20 | | 45.4% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-01974-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | -1.672E-8 | 1.903E-8 | 6.001E-8 | 2.245E-8 | 1.4E-08 | U | uCi/filter | 10/25/23 2:54 | | 71.5% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01837-08

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Bi-214 | 2.701E-6 | 2.102E-6 | 2.051E-6 | 1.026E-6 | NP | | uCi/filter | 10/13/23 20:38 | | N/A |
| Co-60 | -5.108E-7 | 8.970E-7 | 1.490E-6 | 7.450E-7 | 0.00024 | U | uCi/filter | 10/13/23 20:38 | | N/A |
| Cs-137 | 3.734E-7 | 7.562E-7 | 8.785E-7 | 4.393E-7 | 0.00048 | U | uCi/filter | 10/13/23 20:38 | | N/A |
| Ra-226 | -1.166E-5 | 1.536E-5 | 1.552E-5 | 7.760E-6 | 4.4E-06 | U | uCi/filter | 10/13/23 20:38 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-01987-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | -7.001E-9 | 1.972E-6 | 3.596E-6 | 1.656E-6 | 2.4E-05 | U | uCi/filter | 10/25/23 10:16 | | 104% |



ARS Sample Delivery Group: ARS1-23-02151
Client Sample ID: MSC01-091823
Sample Collection Date: 09/21/23 14:54
Sample Matrix: Air Filter
Percent Solids: N/A

Request or PO Number: Parcel C Air Monitoring RAD
ARS Sample ID: ARS1-23-02151-002
Date Received: 09/27/23
Report Date: 10/26/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-01959-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | -6.241E-8 | 4.639E-8 | 1.175E-7 | 5.030E-8 | 4.8E-08 | U | uCi/filter | 10/24/23 23:20 | [REDACTED] | 70.6% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-01974-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 1.363E-7 | 5.909E-8 | 4.181E-8 | 1.321E-8 | 1.4E-08 | | uCi/filter | 10/25/23 2:54 | [REDACTED] | 79.8% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01837-09

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Bi-214 | 5.492E-6 | 1.422E-6 | 1.518E-6 | 7.590E-7 | NP | | uCi/filter | 10/13/23 21:18 | [REDACTED] | N/A |
| Co-60 | 2.901E-8 | 8.745E-7 | 9.027E-7 | 4.514E-7 | 0.00024 | U | uCi/filter | 10/13/23 21:18 | [REDACTED] | N/A |
| Cs-137 | -4.207E-7 | 7.714E-7 | 8.295E-7 | 4.148E-7 | 0.00048 | U | uCi/filter | 10/13/23 21:18 | [REDACTED] | N/A |
| K-40 | 1.383E-5 | 8.550E-6 | 7.902E-6 | 3.951E-6 | NP | | uCi/filter | 10/13/23 21:18 | [REDACTED] | N/A |
| Pb-214 | 5.168E-6 | 1.010E-6 | 1.205E-6 | 6.025E-7 | NP | | uCi/filter | 10/13/23 21:18 | [REDACTED] | N/A |
| Ra-226 | -1.445E-6 | 7.958E-6 | 1.006E-5 | 5.030E-6 | 4.4E-06 | U | uCi/filter | 10/13/23 21:18 | [REDACTED] | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-01987-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | -6.271E-7 | 3.016E-6 | 5.421E-6 | 2.566E-6 | 2.4E-05 | U | uCi/filter | 10/25/23 10:16 | [REDACTED] | 102% |



ARS Sample Delivery Group: ARS1-23-02151
Client Sample ID: MSC02-091823
Sample Collection Date: 09/21/23 14:44
Sample Matrix: Air Filter
Percent Solids: N/A

Request or PO Number: Parcel C Air Monitoring RAD
ARS Sample ID: ARS1-23-02151-003
Date Received: 09/27/23
Report Date: 10/26/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-01959-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | 0.000 | 2.941E-8 | 6.597E-8 | 2.468E-8 | 4.8E-08 | U | uCi/filter | 10/24/23 23:20 | | 63.7% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-01974-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 1.152E-7 | 5.219E-8 | 3.857E-8 | 1.219E-8 | 1.4E-08 | | uCi/filter | 10/25/23 2:54 | | 75.5% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01837-10

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Bi-214 | 4.549E-6 | 1.446E-6 | 1.487E-6 | 7.435E-7 | NP | | uCi/filter | 10/16/23 14:13 | | N/A |
| Co-60 | -8.115E-8 | 8.843E-7 | 9.109E-7 | 4.555E-7 | 0.00024 | U | uCi/filter | 10/16/23 14:13 | | N/A |
| Cs-137 | -9.582E-8 | 6.866E-7 | 7.470E-7 | 3.735E-7 | 0.00048 | U | uCi/filter | 10/16/23 14:13 | | N/A |
| K-40 | 1.984E-5 | 8.018E-6 | 7.515E-6 | 3.758E-6 | NP | | uCi/filter | 10/16/23 14:13 | | N/A |
| Pb-214 | 4.712E-6 | 1.013E-6 | 1.082E-6 | 5.410E-7 | NP | | uCi/filter | 10/16/23 14:13 | | N/A |
| Ra-226 | 2.371E-7 | 7.415E-6 | 9.413E-6 | 4.707E-6 | 4.4E-06 | U | uCi/filter | 10/16/23 14:13 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-01987-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 7.721E-7 | 2.218E-6 | 3.887E-6 | 1.797E-6 | 2.4E-05 | U | uCi/filter | 10/25/23 10:16 | | 102% |

ARS Aleut Analytical, LLC Analytical Reports

for

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Batch QC



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01837 |
| SDG | ARS1-23-02151 |
| Analysis | Gamma Spec (Short) in (Air Filters, Smears [AF]) |
| Method | EPA 901.1M |
| Analysis Code | GAM-A-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | Analysis Date | 10/09/23 10:35 | Analysis Technician | █ | |
|---------------------------|---------|---------|---------------|----------------|---------------------|-------------|-------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01837-01 | LCS | AM-241 | 31.060 | 2.364 | 33.065 | 93.9 | 0.120 |
| ARS1-B23-01837-01 | LCS | CO-60 | 21.348 | 1.268 | 20.928 | 102.0 | 0.374 |
| ARS1-B23-01837-01 | LCS | CS-137 | 13.421 | 0.875 | 12.996 | 103.3 | 0.065 |

| Duplicate RER/DER/RPD | | | Analysis Date | 10/09/23 10:52 | Analysis Technician | █ |
|-----------------------|-------------|--------------|---------------|----------------|---------------------|-----|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD |
| AM-241 | 31.060 | 2.364 | 31.108 | 2.368 | 0.028 | 0.2 |
| CO-60 | 21.348 | 1.268 | 20.374 | 1.225 | 1.082 | 4.7 |
| CS-137 | 13.421 | 0.875 | 13.240 | 0.864 | 0.289 | 1.4 |

| Method Blank | | | Analysis Date | 10/08/23 11:59 | Analysis Technician | █ |
|--------------------------|---------|---------|---------------|----------------|---------------------|------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual |
| ARS1-B23-01837-03 | MBL | AC-228 | -0.001 | 0.007 | 0.006 | U |
| ARS1-B23-01837-03 | MBL | AM-241 | -2.479E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | BI-212 | 0.006 | 0.011 | 0.012 | U |
| ARS1-B23-01837-03 | MBL | BI-214 | 0.001 | 0.004 | 0.004 | U |
| ARS1-B23-01837-03 | MBL | CO-60 | -5.582E-4 | 0.002 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | CS-137 | 4.181E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | EU-152 | 5.982E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | EU-154 | -2.840E-5 | 9.994E-4 | 0.001 | U |
| ARS1-B23-01837-03 | MBL | K-40 | 0.004 | 0.020 | 0.021 | U |
| ARS1-B23-01837-03 | MBL | PA-234 | 7.669E-4 | 0.002 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | PB-210 | -0.013 | 0.017 | 0.018 | U |
| ARS1-B23-01837-03 | MBL | PB-212 | 1.286E-4 | 0.002 | 0.003 | U |
| ARS1-B23-01837-03 | MBL | PB-214 | -1.087E-4 | 0.003 | 0.003 | U |
| ARS1-B23-01837-03 | MBL | RA-226 | -0.092 | 0.035 | 0.032 | U |
| ARS1-B23-01837-03 | MBL | RA-228 | -0.001 | 0.007 | 0.006 | U |
| ARS1-B23-01837-03 | MBL | TH-234 | 1.417E-4 | 0.016 | 0.017 | U |
| ARS1-B23-01837-03 | MBL | TL-208 | -0.002 | 0.002 | 0.002 | U |
| ARS1-B23-01837-03 | MBL | U-235 | 0.002 | 0.005 | 0.008 | U |
| ARS1-B23-01837-03 | MBL | U-238 | 1.417E-4 | 0.016 | 0.017 | U |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01959 |
| SDG | ARS1-23-02151 |
| Analysis | Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT1]) |
| Method | Eichrom ACW03 |
| Analysis Code | ASP-PU239-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 10/24/23 23:20 | Analysis Technician | [REDACTED] |
|---------------------------|---------|------------|----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01959-01 | LCS | PU-239/240 | 7.528E-6 | 9.437E-7 | 7.656E-6 | 98.3 | 3.058E-8 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 10/24/23 23:20 | Analysis Technician | [REDACTED] |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|------------|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| PU-239/240 | 7.528E-6 | 9.437E-7 | 7.762E-6 | 9.684E-7 | 0.340 | 3.1 | |

| Method Blank | | | | Analysis Date | 10/24/23 23:20 | Analysis Technician | [REDACTED] |
|--------------------------|---------|------------|----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-01959-03 | MBL | PU-238 | 3.442E-8 | 9.247E-8 | 1.677E-7 | U | |
| ARS1-B23-01959-03 | MBL | PU-239/240 | 8.604E-9 | 4.463E-8 | 9.265E-8 | U | |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01974 |
| SDG | ARS1-23-02151 |
| Analysis | Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT]) |
| Method | Eichrom ACW10 |
| Analysis Code | ASP-TH-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 10/25/23 02:54 | Analysis Technician | [REDACTED] |
|---------------------------|---------|---------|----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01974-01 | LCS | TH-230 | 6.010E-6 | 7.501E-7 | 5.400E-6 | 111.3 | 2.624E-8 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 10/25/23 02:54 | Analysis Technician | [REDACTED] |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|------------|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| TH-230 | 6.010E-6 | 7.501E-7 | 5.614E-6 | 7.028E-7 | 0.755 | 6.8 | |

| Method Blank | | | | Analysis Date | 10/25/23 02:54 | Analysis Technician | [REDACTED] |
|--------------------------|---------|---------|-----------|---------------|----------------|---------------------|------------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-01974-03 | MBL | TH-228 | -3.416E-8 | 7.902E-8 | 1.556E-7 | U | |
| ARS1-B23-01974-03 | MBL | TH-230 | 1.528E-7 | 1.302E-7 | 2.089E-7 | U | |
| ARS1-B23-01974-03 | MBL | TH-232 | -1.695E-8 | 4.831E-8 | 1.025E-7 | U | |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01987 |
| SDG | ARS1-23-02151 |
| Analysis | Strontium-90 in (Air Filters, Smears [AF]) |
| Method | Eichrom SRW01 |
| Analysis Code | GPC-SR90-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 10/25/23 10:16 | Analysis Technician | |
|---------------------------|---------|---------|----------|---------------|----------------|---------------------|----------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01987-01 | LCS | SR-90 | 2.323E-5 | 3.564E-6 | 1.970E-5 | 117.9 | 4.414E-7 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 10/25/23 10:16 | Analysis Technician | |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|--|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| SR-90 | 2.323E-5 | 3.564E-6 | 1.929E-5 | 2.956E-6 | 1.672 | 18.6 | |

| Method Blank | | | | Analysis Date | 10/25/23 10:16 | Analysis Technician | |
|--------------------------|---------|---------|----------|---------------|----------------|---------------------|--|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-01987-03 | MBL | SR-90 | 1.271E-6 | 2.604E-6 | 4.502E-6 | U | |



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

QC Summary



QC Sample Results

Analytical Batch: ARS1-B23-01837
Lab Sample ID: ARS1-B23-01837-01
Method: EPA 901.1M

Sample Type: LCS
Matrix: Air Filter
Analysis Date: 10/09/23 10:35

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| Am-241 | 33.065 | 31.060 | | uCi/filter | 93.9 | 75 - 125 |
| Co-60 | 20.928 | 21.348 | | uCi/filter | 102.0 | 75 - 125 |
| Cs-137 | 12.996 | 13.421 | | uCi/filter | 103.3 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01837

Lab Sample ID: ARS1-B23-01837-02

Method: EPA 901.1M

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/09/23 10:52

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Am-241 | 33.065 | 31.108 | | uCi/filter | 94.1 | 75 - 125 | 0.2 | 25 | 0.028 | 3 |
| Co-60 | 20.928 | 20.374 | | uCi/filter | 97.4 | 75 - 125 | 4.7 | 25 | 1.082 | 3 |
| Cs-137 | 12.996 | 13.240 | | uCi/filter | 101.9 | 75 - 125 | 1.4 | 25 | 0.289 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01837
Lab Sample ID: ARS1-B23-01837-03
Method: EPA 901.1M

Sample Type: MBL
Matrix: Air Filter
Analysis Date: 10/08/23 11:59

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|-------|----------|------|----------------|
| Ac-228 | -0.001 | 0.007 | 0.006 | 0.003 | U | uCi/filter |
| Am-241 | -2.479E-4 | 0.001 | 0.002 | 0.001 | U | uCi/filter |
| Bi-212 | 0.006 | 0.011 | 0.012 | 0.006 | U | uCi/filter |
| Bi-214 | 0.001 | 0.004 | 0.004 | 0.002 | U | uCi/filter |
| Co-60 | -5.582E-4 | 0.002 | 0.002 | 9.050E-4 | U | uCi/filter |
| Cs-137 | 4.181E-4 | 0.001 | 0.002 | 7.500E-4 | U | uCi/filter |
| Eu-152 | 5.982E-4 | 0.001 | 0.002 | 8.550E-4 | U | uCi/filter |
| Eu-154 | -2.840E-5 | 9.994E-4 | 0.001 | 6.650E-4 | U | uCi/filter |
| K-40 | 0.004 | 0.020 | 0.021 | 0.010 | U | uCi/filter |
| Pa-234 | 7.669E-4 | 0.002 | 0.002 | 0.001 | U | uCi/filter |
| Pb-210 | -0.013 | 0.017 | 0.018 | 0.009 | U | uCi/filter |
| Pb-212 | 1.286E-4 | 0.002 | 0.003 | 0.001 | U | uCi/filter |
| Pb-214 | -1.087E-4 | 0.003 | 0.003 | 0.002 | U | uCi/filter |
| Ra-226 | -0.092 | 0.035 | 0.032 | 0.016 | U | uCi/filter |
| Ra-228 | -0.001 | 0.007 | 0.006 | 0.003 | U | uCi/filter |
| Th-234 | 1.417E-4 | 0.016 | 0.017 | 0.009 | U | uCi/filter |
| Tl-208 | -0.002 | 0.002 | 0.002 | 8.950E-4 | U | uCi/filter |
| U-235 | 0.002 | 0.005 | 0.008 | 0.004 | U | uCi/filter |
| U-238 | 1.417E-4 | 0.016 | 0.017 | 0.009 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02151

Analytical Batch: ARS1-B23-01837

Analysis: Gamma Spec (Short) in (Air Filters, Smears [AF])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|------------|-------------|
| ARS1-B23-01837-01 | | Lab Control Sample | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-02 | | Lab Control Sample Duplicate | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-03 | | Method Blank | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-08 | ARS1-23-02151-001 | FBC-091823 | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-09 | ARS1-23-02151-002 | MSC01-091823 | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01837-10 | ARS1-23-02151-003 | MSC02-091823 | Air Filter | EPA 901.1M | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-01959

Lab Sample ID: ARS1-B23-01959-01

Method: Eichrom ACW03

Sample Type: LCS

Matrix: Air Filter

Analysis Date: 10/24/23 23:20

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|------------|-------------|-----------------|------|----------------|-------|--------------|
| Pu-239/240 | 7.656E-6 | 7.528E-6 | | uCi/filter | 98.3 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01959

Lab Sample ID: ARS1-B23-01959-02

Method: Eichrom ACW03

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/24/23 23:20

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|------------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Pu-239/240 | 7.733E-6 | 7.762E-6 | | uCi/filter | 100.4 | 75 - 125 | 3.1 | 25 | 0.340 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01959

Lab Sample ID: ARS1-B23-01959-03

Method: Eichrom ACW03

Sample Type: MBL

Matrix: Air Filter

Analysis Date: 10/24/23 23:20

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|------------|-----------------|-------------|----------|----------|------|----------------|
| Pu-238 | 3.442E-8 | 9.247E-8 | 1.677E-7 | 7.218E-8 | U | uCi/filter |
| Pu-239/240 | 8.604E-9 | 4.463E-8 | 9.265E-8 | 3.467E-8 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02151

Analytical Batch: ARS1-B23-01959

Analysis: Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-01959-01 | | Lab Control Sample | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01959-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01959-03 | | Method Blank | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01959-04 | ARS1-23-02151-001 | FBC-091823 | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01959-05 | ARS1-23-02151-002 | MSC01-091823 | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-01959-06 | ARS1-23-02151-003 | MSC02-091823 | Air Filter | Eichrom ACW03 | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-01974

Lab Sample ID: ARS1-B23-01974-01

Method: Eichrom ACW10

Sample Type: LCS

Matrix: Air Filter

Analysis Date: 10/25/23 2:54

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| Th-230 | 5.400E-6 | 6.010E-6 | | uCi/filter | 111.3 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01974

Lab Sample ID: ARS1-B23-01974-02

Method: Eichrom ACW10

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/25/23 2:54

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Th-230 | 5.384E-6 | 5.614E-6 | | uCi/filter | 104.3 | 75 - 125 | 6.8 | 25 | 0.755 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01974
Lab Sample ID: ARS1-B23-01974-03
Method: Eichrom ACW10

Sample Type: MBL
Matrix: Air Filter
Analysis Date: 10/25/23 2:54

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|----------|----------|------|----------------|
| Th-228 | -3.416E-8 | 7.902E-8 | 1.556E-7 | 7.009E-8 | U | uCi/filter |
| Th-230 | 1.528E-7 | 1.302E-7 | 2.089E-7 | 9.677E-8 | U | uCi/filter |
| Th-232 | -1.695E-8 | 4.831E-8 | 1.025E-7 | 4.359E-8 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02151

Analytical Batch: ARS1-B23-01974

Analysis: Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-01974-01 | | Lab Control Sample | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01974-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01974-03 | | Method Blank | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01974-04 | ARS1-23-02151-001 | FBC-091823 | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01974-05 | ARS1-23-02151-002 | MSC01-091823 | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-01974-06 | ARS1-23-02151-003 | MSC02-091823 | Air Filter | Eichrom ACW10 | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-01987

Lab Sample ID: ARS1-B23-01987-01

Method: Eichrom SRW01

Sample Type: LCS

Matrix: Air Filter

Analysis Date: 10/25/23 10:16

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| SR-90 | 1.970E-5 | 2.323E-5 | | uCi/filter | 117.9 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01987

Lab Sample ID: ARS1-B23-01987-02

Method: Eichrom SRW01

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/25/23 10:16

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|------|-----------|-------|-----------|
| SR-90 | 1.994E-5 | 1.929E-5 | | uCi/filter | 96.7 | 75 - 125 | 18.6 | 25 | 1.672 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01987

Lab Sample ID: ARS1-B23-01987-03

Method: Eichrom SRW01

Sample Type: MBL

Matrix: Air Filter

Analysis Date: 10/25/23 10:16

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|----------|----------|------|----------------|
| SR-90 | 1.271E-6 | 2.604E-6 | 4.502E-6 | 2.074E-6 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02151

Analytical Batch: ARS1-B23-01987

Analysis: Strontium-90 in (Air Filters, Smears [AF])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-01987-01 | | Lab Control Sample | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01987-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01987-03 | | Method Blank | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01987-04 | ARS1-23-02151-001 | FBC-091823 | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01987-05 | ARS1-23-02151-002 | MSC01-091823 | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-01987-06 | ARS1-23-02151-003 | MSC02-091823 | Air Filter | Eichrom SRW01 | N/A |



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Sample Management Records

**CHAIN-OF-CUSTODY
RECORD**

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

COC # 092623RADC



| | | |
|---|---|---|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: ARS Aleut Analytical (AAA), Port Allen, LA | Event: Parcel C Air Monitoring RAD |
| Project Number: J310000600 | POC [REDACTED] | |
| WBS Code: J310000600 | Ship to: 2609 North River Road, Port Allen, LA 70767-3469 | |

| | | | |
|-------------------|---|------|--------------------------------|
| Comments: | Analytical Test Method E901.1 - Gamma Spec Ra226 Cs137 RC0240 - Pu and Th Isotopes SR02RC - Sr90 | Code | Matrix |
| | | A | Air |
| Equipment: | | AQ | Air Quality Control Matrix |
| | | Code | Container/Preservative |
| | | 5 | 1x 1-L Plastic, HNO3, pH < 2 |
| | | 15 | 1x 250-mL Plastic, 4 Degrees C |

| Event: Parcel C Air Monitoring RAD | | | | | | 15 | 15 | 5 | | | | | | | | | | | | |
|------------------------------------|--------|------------|------|------------|---|----|----|---|--|-------------|-------------|----------------|------|--------|-----------------|--|--|--|--|--|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments | | | | | |
| 1 | AQ | 09/18/2023 | 0800 | [REDACTED] | X | X | X | | | FIELDQC | FB1 | 0.00 | 0.00 | 1 | | | | | | |
| 2 | A | 09/21/2023 | 1454 | [REDACTED] | X | X | X | | | MSC01 | N1 | 0.00 | 0.00 | 1 | TOTAL FLOW (L): | | | | | |
| 3 | A | 09/21/2023 | 1444 | [REDACTED] | X | X | X | | | MSC02 | N1 | 0.00 | 0.00 | 1 | TOTAL FLOW (L): | | | | | |

Turnaround Time: 28 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|---------|------|--------------------------|---------|------|---|
| [REDACTED] | 9/26/23 | 1300 | FEDEX | 9/26/23 | 1300 | Shipping Date: 9/26/2023 / FEDEX / 7733 0222 8725 |
| | | | [REDACTED] | 9-27-23 | 9:32 | |
| | | | | | | Received by Laboratory: (Signature, Date, Time) & condition |



Procedures: GES-003 / EPA 900.0M

Start Date 9/18/23
Stop Date 9/21/23

File ID Number: 092623RADC

Field Entry

| Station | Sample ID | Date In | Time In | Date Out | Time Out | Initial Flow Rate (LPM) | Final Flow Rate (LPM) | Flow volume Cu.M | Julian Date for Date Out | Total Run Time (Days) | Total Run Time (Hours) | Run Time (Minutes) | Average Flow Rate (LPM) | Initial Flow Rate (CFM) | Final Flow Rate (CFM) | Average Flow Rate (CFM) | Average Flow Rate (Cu.M/h) | Flow Rate (Cu.M/min) | Total Flow (L) |
|---------|-----------|--------------|---------------|----------------|---------------|-------------------------|-----------------------|------------------|--------------------------|-----------------------|------------------------|--------------------|-------------------------|-------------------------|-----------------------|-------------------------|----------------------------|----------------------|----------------|
| 1 | MSC01 | FBC-091823 | 9/18/2023 800 | 9/18/2023 800 | 9/21/23 14.54 | 60 | 60 | 299.0 | 264 | 3.46 | 83.07 | 4984.0 | 60 | 2.11888 | 2.11888 | 2.11888 | 3.6 | 0.06 | 299,040 |
| 2 | MSC02 | MSC02-091823 | 09/18/23 4.00 | 09/21/23 14.44 | 60 | 60 | 297.8 | 264 | 3.45 | 82.73 | 4964.0 | 60 | 2.11888 | 2.11888 | 2.11888 | 3.6 | 0.06 | 297,840 | |

FORMULAS:

Number of Days = (Date Out + Time Out) minus (Date In + Time In)
 Number of Minutes = # of Days X 24hr X 60min
 Flow Rate (m3/h) = Flow Rate (CFM) x 60min x (12in x 2.54cm/in / 100cm/m)³
 Mid-Sample Date/Time = [(Date + Time Out) + (Date + Time In)] / 2
 Flow Rate (Cu.M/min) = CFM X 0.0283168466 Cu.M/CF
 Flow Rate (LPM) = Cu.M X 1000
 Total Flow (L) = LPM X Total Minutes

SDG Report - Samples and Containers

| SDG Specific Data | | | | | | | | | | |
|-----------------------|----------------------|------------------|-----------|--------------------------|-------------------------|--|---------------------|---|--|--|
| SDG | ARS1-23-02151 | | | TAT Days | 28 Calendar Days | | Project Type | Environmental | | |
| Sample Count | 3 | Rpt Level | 2b | Date Received | 09/27/2023 | | COC Number | 092623RADC | | |
| Client | GES-AIS, LLC | | | Discrepancy Resol | N/A | | PO Number | Parcel C Air Monitoring RAD | | |
| Client Code | 1138 | | | Client Deadline | 10/25/2023 | | Job Number | J310000600 | | |
| Profile Number | PN-01440 | | | | | | Job Location | Hunters Point Shipyard, Parcel C Removal Site Evaluation | | |
| Comment | | | | | | | | | | |

| Samples and Containers Checked In Thus Far | | | | | | | | | |
|--|--------------|------------|-----------------------|----------------------|------------------|------|-------------|-------------|-----------------|
| FR | Name | Matrix | Start Date | End Date | Disp | Hold | Arch | Storage | Comments |
| 001 | FBC-091823 | Air Filter | 09/18/2023 07:59 | 09/18/2023 08:00 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448639 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/18/2023 07:59 | AF Volume (CuM): | | 0.001 | | |
| 002 | MSC01-091823 | Air Filter | 09/21/2023 14:53 | 09/21/2023 14:54 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448640 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/21/2023 14:53 | AF Volume (CuM): | | 0.001 | | |
| 003 | MSC02-091823 | Air Filter | 09/21/2023 14:43 | 09/21/2023 14:44 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448641 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/21/2023 14:43 | AF Volume (CuM): | | 0.001 | | |

SDG Report - Analysis Assignments

| | | | |
|---------------|----------------------|-----------------------|-------------|
| SDG | ARS1-23-02151 | Sample Count | 3 |
| Client | GES-AIS, LLC | Analysis Count | 4-12 |

| Sample Count Totals Per Analysis | | | |
|----------------------------------|---|--------|---------------|
| Analysis Code | Analysis Description | In/Out | Samples Count |
| ASP-PU239-AF | Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT]) | I | 3 |
| ASP-TH-AF | Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT]) | I | 3 |
| GAM-A-AF | Gamma Spec (Short) in (Air Filters, Smears [AF]) | I | 3 |
| GPC-SR90-AF | Strontium-90 in (Air Filters, Smears [AF]) | I | 3 |

| Analyses Assigned Per Fraction | | |
|--------------------------------|---------------|--------------|
| Fraction | Analysis Code | X = Assigned |
| 001 | ASP-PU239-AF | X |
| 001 | ASP-TH-AF | X |
| 001 | GAM-A-AF | X |
| 001 | GPC-SR90-AF | X |
| 002 | ASP-PU239-AF | X |
| 002 | ASP-TH-AF | X |
| 002 | GAM-A-AF | X |
| 002 | GPC-SR90-AF | X |
| 003 | ASP-PU239-AF | X |
| 003 | ASP-TH-AF | X |
| 003 | GAM-A-AF | X |
| 003 | GPC-SR90-AF | X |

Client Name: GES-AIS, LLC

Profile Name: Parcel C Rad Sampling

Report Level: 2b

| Analysis Code | Prep Type | Units | Aliquot | Prep Code | Procedure | Count Time | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|-------|---------|--------------------|--------------|------------|--------|--------|---|----|-----|---------------------|-----|-----------|----------|--------------------|-------------|--------|--------|------------|---|----|-----|
| ASP-PU239-AF | WRAD | uCi | filter | N/A | PALA-RAD-026 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL | | | |
| Pu-239/240 (15117-48-3) | | | | 4.8E-08 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| ASP-TH-AF | WRAD | uCi | filter | N/A | PALA-RAD-031 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL | | | |
| Th-232 (7440-29-1) | | | | 1.4E-08 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| GAM-A-AF | WGAM | uCi | filter | N/A | PALA-RAD-007 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL | | | |
| | | | | | | | | | | | | Ac-228 (14331-83-0) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Am-241 (14596-10-2) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Bi-212 (14913-49-6) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Bi-214 (14733-03-0) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Co-60 (10198-40-0) | | | | 0.00024 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Cs-137 (10045-97-3) | | | | 0.00048 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Eu-152 (14683-23-9) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Eu-154 (15585-10-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | K-40 (13966-00-2) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-210 (14255-04-0) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-212 (15092-94-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-214 (15067-28-4) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Ra-226 (13982-63-3) | | | | 4.4E-06 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Ra-228 (15262-20-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| Th-234 (15065-10-8) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| Tl-208 (14913-50-9) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| U-235 (15117-96-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| U-238 (7440-61-1) | | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-------------|---------------------|-----|--------|--------------------|------------------|-----------------|-------------------|--------------------|------------|------------|-------------------|
| GAM-A-AF | Pa-234 (15100-28-4) | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| GPC-SR90-AF | WRAD | uCi | filter | N/A | PALA-RAD-032 | | | | | | |
| | Analyte | | | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL |
| | Sr-90 (10098-97-2) | | | 2.4E-05 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |

| Analysis Code | Fraction | Units | Aliquot | Conductivity | Analyte Count |
|---------------|----------|-----------------------|---------|----------------|---------------|
| ASP-PU239-AF | 001 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-PU239-AF | 002 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-PU239-AF | 003 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-TH-AF | 001 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| ASP-TH-AF | 002 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| ASP-TH-AF | 003 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| GAM-A-AF | 001 | uCi | filter | N/A | 19 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Ac-228 | |
| | | Parcel C Rad Sampling | | Am-241 | |
| | | Parcel C Rad Sampling | | Bi-212 | |
| | | Parcel C Rad Sampling | | Bi-214 | |
| | | Parcel C Rad Sampling | | Co-60 | |
| | | Parcel C Rad Sampling | | Cs-137 | |
| | | Parcel C Rad Sampling | | Eu-152 | |

DQO Report for SDG

ARS1-23-02151

| | | | | | |
|-----------------------|-----|-----------------------|-----|----------------|--------|
| GAM-A-AF | 001 | Parcel C Rad Sampling | | Eu-154 | |
| | | Parcel C Rad Sampling | | K-40 | |
| | | Parcel C Rad Sampling | | Pa-234 | |
| | | Parcel C Rad Sampling | | Pb-210 | |
| | | Parcel C Rad Sampling | | Pb-212 | |
| | | Parcel C Rad Sampling | | Pb-214 | |
| | | Parcel C Rad Sampling | | Ra-226 | |
| | | Parcel C Rad Sampling | | Ra-228 | |
| | | Parcel C Rad Sampling | | Th-234 | |
| | | Parcel C Rad Sampling | | TI-208 | |
| | | Parcel C Rad Sampling | | U-235 | |
| | | Parcel C Rad Sampling | | U-238 | |
| | | GAM-A-AF | 002 | uCi | filter |
| Group | | | | Analyte | |
| Parcel C Rad Sampling | | | | Ac-228 | |
| Parcel C Rad Sampling | | | | Am-241 | |
| Parcel C Rad Sampling | | | | Bi-212 | |
| Parcel C Rad Sampling | | | | Bi-214 | |
| Parcel C Rad Sampling | | | | Co-60 | |
| Parcel C Rad Sampling | | | | Cs-137 | |
| Parcel C Rad Sampling | | | | Eu-152 | |
| Parcel C Rad Sampling | | | | Eu-154 | |
| Parcel C Rad Sampling | | | | K-40 | |
| Parcel C Rad Sampling | | | | Pa-234 | |
| Parcel C Rad Sampling | | | | Pb-210 | |
| Parcel C Rad Sampling | | | | Pb-212 | |
| Parcel C Rad Sampling | | | | Pb-214 | |
| Parcel C Rad Sampling | | | | Ra-226 | |
| Parcel C Rad Sampling | | | | Ra-228 | |
| Parcel C Rad Sampling | | | | Th-234 | |
| Parcel C Rad Sampling | | | | TI-208 | |
| Parcel C Rad Sampling | | | | U-235 | |
| Parcel C Rad Sampling | | U-238 | | | |

| | | | | | | |
|-----------------------|-----|-----------------------|--------|----------------|----|--|
| GAM-A-AF | 003 | uCi | filter | N/A | 19 | |
| | | Group | | Analyte | | |
| | | Parcel C Rad Sampling | | Ac-228 | | |
| | | Parcel C Rad Sampling | | Am-241 | | |
| | | Parcel C Rad Sampling | | Bi-212 | | |
| | | Parcel C Rad Sampling | | Bi-214 | | |
| | | Parcel C Rad Sampling | | Co-60 | | |
| | | Parcel C Rad Sampling | | Cs-137 | | |
| | | Parcel C Rad Sampling | | Eu-152 | | |
| | | Parcel C Rad Sampling | | Eu-154 | | |
| | | Parcel C Rad Sampling | | K-40 | | |
| | | Parcel C Rad Sampling | | Pa-234 | | |
| | | Parcel C Rad Sampling | | Pb-210 | | |
| | | Parcel C Rad Sampling | | Pb-212 | | |
| | | Parcel C Rad Sampling | | Pb-214 | | |
| | | Parcel C Rad Sampling | | Ra-226 | | |
| | | Parcel C Rad Sampling | | Ra-228 | | |
| | | Parcel C Rad Sampling | | Th-234 | | |
| | | Parcel C Rad Sampling | | TI-208 | | |
| Parcel C Rad Sampling | | U-235 | | | | |
| Parcel C Rad Sampling | | U-238 | | | | |
| GPC-SR90-AF | 001 | uCi | filter | N/A | 1 | |
| | | Group | | Analyte | | |
| Parcel C Rad Sampling | | Sr-90 | | | | |
| GPC-SR90-AF | 002 | uCi | filter | N/A | 1 | |
| | | Group | | Analyte | | |
| Parcel C Rad Sampling | | Sr-90 | | | | |
| GPC-SR90-AF | 003 | uCi | filter | N/A | 1 | |
| | | Group | | Analyte | | |
| Parcel C Rad Sampling | | Sr-90 | | | | |

PALA Sample Receipt Inspection Form

Client Name: GES

SDG: ARS1-23-2151

Sample Custodian: [REDACTED] Survey Start Date: 9-27-23 Survey Start Time: 9:44

Thermometer ID: E1054012261 Calibration Due Date: 1-12-24 pH Paper Lot#: NA

Exposure Rate Meter + Probe Unit ID: 330334 Calibration Due Date: 3-21-24 Background: 5 μ R/hr

Count Rate Meter + Probe Unit ID: 104861 Calibration Due Date: 3-21-24 Background: 20 cpm

Delivery Type (circle one): Direct Lock Box Commercial Carrier: Fed Ex Total # of ESCs: 1

*True temperature is recorded which includes any applicable correction factors.

| External Shipping Container Tracking: | Exposure Rate (μ R/hr) (limit <500 μ R/hr) | Max External Swipe Counts (cpm) | Max Internal Swipe Counts (cpm) | ESC True Temps* ($^{\circ}$ C) | TRAX Matrix ID (circle all that apply): (See Section 4.3 of SOP) |
|---------------------------------------|--|---------------------------------|---------------------------------|---------------------------------|---|
| A: <u>7733092228725</u> | <u>5</u> | <u>20</u> | <u>20</u> | <u>-</u> | AQ WD WG WO |
| B: _____ | _____ | _____ | _____ | _____ | WS WW SI UR |
| C: _____ | _____ | _____ | _____ | _____ | SO OL BI VG |
| D: _____ | _____ | _____ | _____ | _____ | WP SM <input checked="" type="radio"/> AF |
| E: _____ | _____ | _____ | _____ | _____ | |
| F: _____ | _____ | _____ | _____ | _____ | |

Visual Inspection: (Circle response)

External Shipping Container

Good Condition with no Leaks or Tears: Yes No

Marked Radioactive: Yes No

UN2910: Yes No

Security Seals: Yes No

If yes, intact?: Yes No N/A

Internal Shipping Container

COC's Present: Yes No

Well packaged container with no signs of leakage: Yes No

COC/Sample Inspection (Circle response)

Sample Containers in good condition: Yes No

No spills or leaks: Yes No

Marked Radioactive: Yes No N/A

Durable labels w/indelible ink: Yes No

COC relinquished/received correctly: Yes No

Adequate volume/filled correctly: Yes No

Hold Time sufficient for analysis: Yes No

For VOC/Radon, Head space?: Yes No N/A

If yes, <6mm?: Yes No N/A

of containers received matches # on COC: Yes No

Samples received on ice?: Yes No N/A

Type (circle one): Bagged Ice Loose Ice Blue Ice N/A

Comments:

PALA Sample Survey Form

Client Name: GES
 SDG: ARS1-23-2151

Pipette ID: NA Tip Lot#: NA

Disposable pipette lot#: NA

| Sample ID from Client on COC or Sample | ESC Letter | Sample Container Type | Approx. Fill Level (%) | pH <2 is Acceptable | | Acid Lot # or Ind container temp (°C) | Vol. of Acid Used (mL) | cpm | Acceptance Limits <100 cpm/cm ² |
|--|------------|-----------------------|------------------------|---------------------|-------------|---------------------------------------|------------------------|-----------|--|
| | | | | pH As Rec'd | pH Adjusted | | | | |
| <u>FBC-091823</u> | <u>A</u> | <u>AF</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>NA</u> | <u>20</u> | |
| <u>MSC01-091823</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | |
| <u>MSC02-091823</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | |
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Sample Custodian: [REDACTED]

Survey End Date: 9-27-23 Survey/pH End Time: 9:44

pH re-check required? YES or NO NOTE: Any metals sample acidified at sample receiving must be re-checked after a 24 hour hold.

If YES: pH re-check date/time: _____ / _____ Analyst: _____ pH strip lot #: _____

Were all re-checked samples' pH < 2? YES or NO*

*If no, complete and send to Project Management:
 1. Section A of PALA-SR-001-FM-05 (24 Hour Hold pH Readjustment)
 2. SR section of PALA-SR-001-FM-03 (Discrepant Sample Receipt Report).

ORIGIN ID: ICCA
200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

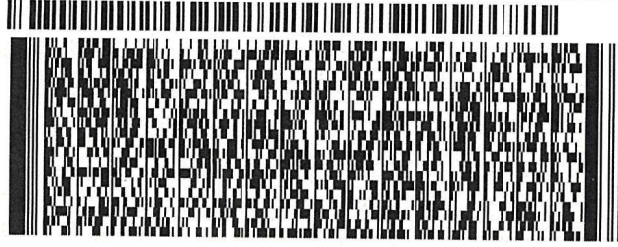
SHIP DATE: 12SEP23
ACTWGT: 1.00 LB
CAD: 254128867/NET4640

BILL SENDER

TO
ARS ALEUT ANALYTICAL, LLC
2609 NORTH RIVER ROAD

PORT ALLEN LA 70767

(225) 381-2991 REF: J31000.600 02.04.05
INV: PO: DEPT:



586J3(C)EED09AE3

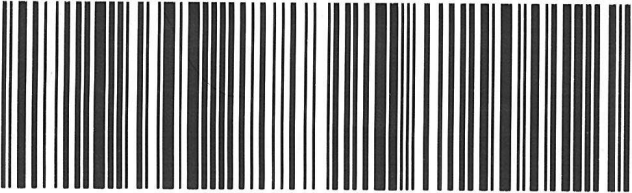
FedEx
TRK# 7733 0222 8725
0201

WED - 27 SEP AA
STANDARD OVERNIGHT

XN OPLA

70767
LA-US MSY

156297-435-RRP22 EXP 11/23



#329747 09/26 583J4/BB35/9AE3

After printing this label:

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

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in

along with the cancellation of your FedEx account number.

uses your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not
im in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery or misinformation,
er value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx
right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit,
other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the
Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g., jewelry,
le instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current



2609 North River Road
Port Allen, Louisiana 70767
(225) 228-1394

ARS Aleut Analytical, LLC

Laboratory Analytical Report

ARS1-23-02208


GES-AIS, LLC



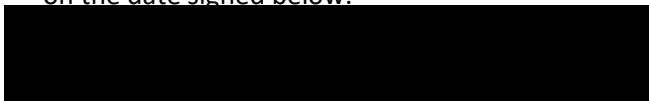
1501 West Fountainhead Parkway
Suite 550
Tempe, AZ 94520



COC Number: **100323RADC**
PO Number: **Parcel C Air Monitoring RAD**
Job Number: **J310000600**
Job Location: **Hunters Point Shipyard, Parcel C Removal Site Evaluation**

Questions regarding this analytical report should be addressed to ARS project manager, , who can be reached by email at projectmanagers@aaa.aleutfederal.com.

I certify that the test results presented in this report (in either hardcopy or electronic file (EDD)) meet the requirements of the laboratory's certifications and other applicable contract terms and conditions. A full list of the Port Allen, LA laboratory's certifications is provided with this report. Any exceptions to the certification or contract will be noted within the case narratives presented in the report. Any subcontracted sample results will be identified within the case narratives presented in the report. In the event this report is an amendment to a previously released report, the case narrative will clearly identify the original report as well as the reason(s) for reissuance. I authorize release and issuance of this report on the date signed below.



Laboratory Management, ARS Aleut Analytical

Signature

Date

Title

This report provides analytical results of the requested analysis and does not include any opinions or interpretations. ARS Aleut Analytical, LLC assumes no liability for the use or interpretation of analytical results. Results relate only to items tested. A partial reproduction of this test report is prohibited. Reproduction of this report in full requires the written approval of the laboratory.





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Certifications and Accreditations List

| State or Accrediting Body (AB) | Certificate Number |
|--------------------------------|---------------------------|
| AIHA LAP, LLC | 209312 |
| Alaska | LA01131 |
| California | 3085 |
| ANAB DoD | ADE-1489 |
| ANAB DOE | ADE-1489.01 |
| Louisiana DEQ - NELAC | 01949 |
| Louisiana DHH | LA022 |
| Nevada | LA011312024-02 |
| New Jersey | LA009 |
| New York | 66780 (NPW) / 66781 (SHW) |
| Texas | T104704447-22-18 |
| Utah | LA011312023-14 |
| Washington | C1010 |

For additional information related to the specific matrices, methods, and analytes recognized by each accrediting body, contact us at QA@aaa.alcutfederal.com for additional information.

ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Case Narrative



**PROJECT SAMPLE IDENTIFICATION
CROSS-REFERENCE
TO ARS SAMPLE LABORATORY IDs**

| Client Sample ID | ARS Aleut Analytical Sample ID |
|---------------------|-----------------------------------|
| FBC-092523 | ARS1-23-02208-001 |
| MSC01-092523 | ARS1-23-02208-002 |
| MSC02-092523 | ARS1-23-02208-003 |

| Sample | Date Collected | Date Received | Analysis | Basis | Prep Date/Time | Analysis Date/Time |
|--------|-------------------|------------------|--------------|----------------|-------------------|-----------------------|
| 001 | 09/25/23 08:00 | 10/04/23 | ASP-PU239-AF | As Received | 11/02/23 07:30 | 11/07/23 02:03 |
| 001 | 09/25/23 08:00 | 10/04/23 | ASP-TH-AF | As Received | 11/01/23 08:16 | 11/04/23 02:41 |
| 001 | 09/25/23 08:00 | 10/04/23 | GAM-A-AF | As Received | NA | 10/24/23 14:18 |
| 001 | 09/25/23 08:00 | 10/04/23 | GPC-SR90-AF | As Received | 11/01/23 08:43 | 11/03/23 10:32 |
| 002 | 09/28/23 14:17 | 10/04/23 | ASP-PU239-AF | As Received | 11/02/23 07:30 | 11/07/23 02:03 |
| 002 | 09/28/23 14:17 | 10/04/23 | ASP-TH-AF | As Received | 11/01/23 08:16 | 11/04/23 02:41 |
| 002 | 09/28/23 14:17 | 10/04/23 | GAM-A-AF | As Received | NA | 10/27/23 19:37 |
| 002 | 09/28/23 14:17 | 10/04/23 | GPC-SR90-AF | As Received | 11/01/23 08:43 | 11/03/23 10:32 |
| 003 | 09/28/23 14:04 | 10/04/23 | ASP-PU239-AF | As Received | 11/02/23 07:30 | 11/07/23 02:03 |
| 003 | 09/28/23 14:04 | 10/04/23 | ASP-TH-AF | As Received | 11/01/23 08:16 | 11/04/23 02:41 |
| 003 | 09/28/23 14:04 | 10/04/23 | GAM-A-AF | As Received | NA | 10/27/23 19:39 |
| 003 | 09/28/23 14:04 | 10/04/23 | GPC-SR90-AF | As Received | 11/01/23 08:43 | 11/03/23 10:32 |

SAMPLE RECEIPT/PREP

The samples arrived in good condition. The samples were screened for radioactive contamination as per procedure **PALA-SR-001-SOP Sample Receiving**. Sample date(s) and time(s) are listed as provided by the client. In regard to the Air Filters, no flow rate information was provided by the client. Turnaround time was set at 28 calendar days.



ANALYTICAL METHODS

Pu-239/240 analysis was performed using **PALA-RAD-026, "Americium, Plutonium and Uranium in Water, Soil and Vegetation Matrices by Sequential Separation Using Eichrom Stabilized Chemistry Resin (with Vacuum Box System Option) (Eichrom ACW-02 & Eichrom ACW-03)"**.

Th-232 analysis was performed using **PALA-RAD-031, "Thorium in Water, Soil and Vegetation Matrices by Eichrom Resin Separation (Eichrom ACW-08 & Eichrom ACW-10)"**.

Ac-228, Am-241, Bi-212, Bi-214, Co-60, Cs-137, Eu-152, Eu-154, K-40, Pa-234, Pb-210, Pb-212, Pb-214, Ra-226, Ra-228, Th-234, Tl-208, U-235, and U-238 analyses were performed using **PALA-RAD-007, "Modified Gamma Emitting Radionuclides in Soil, Air, and Biota Matrices (EPA 901.1 Mod, SM 7120B, & HASL-300 Ga-01-R)"**.

Sr-90 analysis was performed using **PALA-RAD-032, "Strontium 89, 90 and Total Strontium in Water, Soil and Vegetation Matrices by Eichrom Resin Separation (Eichrom SRW01, EPA 905.0, HASL 300 Sr-01-RC)"**.

ANALYTICAL RESULTS

Fraction 001 in batch ARS1-B23-02054 has elevated MDA for Pu-239/240 with ACT of $-1.044\text{E}-8$ uCi/filter, MDA of $5.622\text{E}-8$ uCi/filter and CRDL of $4.8\text{E}-08$ uCi/filter.

Fraction 001 in batch ARS1-B23-02042 has elevated MDA for Th-232 with ACT of 0.000 uCi/filter, MDA of $6.173\text{E}-8$ uCi/filter and CRDL of $1.4\text{E}-08$ uCi/filter.

Fraction 001 in batch ARS1-B23-01997 has elevated MDA for Ra-226 with ACT of $1.321\text{E}-6$ uCi/filter, MDA of $9.752\text{E}-6$ uCi/filter and CRDL of $4.4\text{E}-06$ uCi/filter.

Fraction 002 in batch ARS1-B23-02054 has elevated MDA for Pu-239/240 with ACT of $1.575\text{E}-8$ uCi/filter, MDA of $4.877\text{E}-8$ uCi/filter and CRDL of $4.8\text{E}-08$ uCi/filter.

Fraction 002 in batch ARS1-B23-01997 has elevated MDA for Ra-226 with ACT of $-9.342\text{E}-6$ uCi/filter, MDA of $1.550\text{E}-5$ uCi/filter and CRDL of $4.4\text{E}-06$ uCi/filter.

Fraction 003 in batch ARS1-B23-02054 has elevated MDA for Pu-239/240 with ACT of 0.000 uCi/filter, MDA of $8.562\text{E}-8$ uCi/filter and CRDL of $4.8\text{E}-08$ uCi/filter.

Fraction 003 in batch ARS1-B23-01997 has elevated MDA for Ra-226 with ACT of $3.797\text{E}-6$ uCi/filter, MDA of $9.160\text{E}-6$ uCi/filter and CRDL of $4.4\text{E}-06$ uCi/filter.

ARS1-B23-02042: ROI's adjusted to better fit the peaks of interest.

ARS1-B23-02054: ROI's adjusted to better fit the peaks of interest.

Notes (Case Narrative)

Definitions:

| | |
|----------|---|
| CRDL | Contract Required Detection Limit |
| CSU | Combined Standard Uncertainty |
| DLC | Decision Level Concentration (ANSI N42.23) |
| DO | Duplicate Original |
| DUP | Sample Duplicate |
| LCS/LCSD | Laboratory Control Sample/Laboratory Control Sample Duplicate |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MBL | Method Blank |
| MCL | Maximum Contaminant Level |
| MDA | Minimum Detectable Activity |
| MDL | Method Detection Limit |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| N/A | Not Applicable |
| NC | Not Calculated |
| NP | Not Provided |
| NR | Not Referenced |
| PQL | Practical Quantitation Limit |
| SDG | Sample Deliverable Group |

Data Qualifiers:

| | |
|----|--|
| B | The result of both the method blank and the target sample are above the MDL. |
| D | Sample analysis accomplished through dilution. |
| J | The reported result is an estimated value above the LOD but below the LOQ, or above the MDL but below the PQL. |
| Q | One or more quality control criteria failed. |
| U | Result is below the MDA, MDL, PQL, LOD, or LOQ |
| * | LCS/LCSD or Sample DUP fails all Duplicate criteria. |
| S | Spike |
| SC | Subcontracted out to another qualified laboratory. |
| H | Holding time exceeded |
| E | Exceeds MCL |
| ** | Reporting Limit is higher than MCL; Target cannot be detected |
| # | Method/Matrix/Analyte not accredited for this certification |

Radiochemistry Comments:

- 1.0) All MDA values are calculated on a sample specific basis.
- 2.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 3.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 4.0) Ra-226 after a 21-day ingrowth period is determined via secular equilibrium with its daughter, Bismuth 214 (Gamma Spectroscopy only).
- 5.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 6.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 7.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 8.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 9.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 10.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Non-Potable Water**:
Gross Alpha and Gross Beta (EPA 900.0, EPA 9310); Radium 226 (EPA 903.0, EPA 903.1, EPA 9315); Radium 228 (EPA 904.0, EPA 9320); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7470A); Strontium-89 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0, Eichrom SRW01, HASL 300 Sr-02-RC); Tritium (EPA 906.0); Enriched Tritium (ARS-040), Carbon-14 (ARS-019), Tritium/Carbon (ARS-151); Gamma Emitters (EPA 901.1, SM 7120B, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Am-03); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Pu-10); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Technetium-99 (Eichrom TCW02)
- 11.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Solid and Chemical Materials**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); ICP/MS (EPA 6020B); ICP-OES (EPA 6010D); Mercury CVAA (EPA 7471B); Strontium-89 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-01); Strontium-90 (EPA 905.0 Mod, Eichrom SRW01, HASL 300 Sr-02); Tritium (EPA 906.0 Mod); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03, HASL 300 Am-01-RC); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 Pu-02-RC, HASL 300 Pu-03-RC); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03, HASL 300 U-02, HASL 300 U-04); Technetium-99 (Eichrom TCS01)
- 12.0) DoD/DOE and ISO 17025 certifications through ANAB apply only to the following methods in **Air and Emissions**:
Gross Alpha and Gross Beta (EPA 900.0 Mod, EPA 9310); Strontium-89 (Eichrom SRW01, HASL 300 Sr-01-RC); Strontium-90 (Eichrom SRW01, HASL 300 Sr-02-RC); Gamma Emitters (EPA 901.1, HASL 300 Ga-01-R); Americium-241 (Eichrom ACW03, HASL 300 Se-03); Neptunium 237 (Eichrom ACW16); Plutonium 238, Plutonium 239/240, Plutonium-241 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Thorium-228, Thorium 230, Thorium-232 (Eichrom ACW10); Uranium-234, Uranium-235, Uranium-238 (Eichrom ACW03, Eichrom ACW16, HASL 300 Se-03); Technetium-99 (Eichrom TCW02, Eichrom TCS01)

General Comments:

- 1.0 Modified analysis procedures are procedures that are modified to meet certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "M" or "Mod" to the procedure number (i.e. 901.1M, 901.1 Mod).
- 2.0 All NIOSH method results are reported without blank corrections applied.
- 3.0 Basis: "As Received" = analyzed as received from client; "Dry" = dried prior to being analyzed; "Dry Weight Corrected" = analyzed as received; result corrected for percent moisture.



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Analytical Results



ARS Sample Delivery Group: ARS1-23-02208

Client Sample ID: FBC-092523

Sample Collection Date: 09/25/23 8:00

Sample Matrix: Air Filter

Percent Solids: N/A

Request or PO Number: Parcel C Air Monitoring RAD

ARS Sample ID: ARS1-23-02208-001

Date Received: 10/04/23

Report Date: 11/07/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-02054-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | -1.044E-8 | 2.050E-8 | 5.622E-8 | 2.104E-8 | 4.8E-08 | U | uCi/filter | 11/07/23 2:03 | | 74.8% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-02042-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 0.000 | 2.752E-8 | 6.173E-8 | 2.310E-8 | 1.4E-08 | U | uCi/filter | 11/04/23 2:41 | | 68.1% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01997-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Co-60 | -9.838E-8 | 8.848E-7 | 9.109E-7 | 4.555E-7 | 0.00024 | U | uCi/filter | 10/24/23 14:18 | | N/A |
| Cs-137 | -3.959E-7 | 7.491E-7 | 8.062E-7 | 4.031E-7 | 0.00048 | U | uCi/filter | 10/24/23 14:18 | | N/A |
| Ra-226 | 1.321E-6 | 7.707E-6 | 9.752E-6 | 4.876E-6 | 4.4E-06 | U | uCi/filter | 10/24/23 14:18 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-02045-04

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 1.839E-6 | 2.249E-6 | 3.743E-6 | 1.733E-6 | 2.4E-05 | U | uCi/filter | 11/03/23 10:32 | | 104% |



ARS Sample Delivery Group: ARS1-23-02208
Client Sample ID: MSC01-092523
Sample Collection Date: 09/28/23 14:17
Sample Matrix: Air Filter
Percent Solids: N/A

Request or PO Number: Parcel C Air Monitoring RAD
ARS Sample ID: ARS1-23-02208-002
Date Received: 10/04/23
Report Date: 11/07/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-02054-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | 1.575E-8 | 2.729E-8 | 4.877E-8 | 1.727E-8 | 4.8E-08 | U | uCi/filter | 11/07/23 2:03 | | 81.6% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-02042-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 5.530E-8 | 3.813E-8 | 4.071E-8 | 1.286E-8 | 1.4E-08 | | uCi/filter | 11/04/23 2:41 | | 77.4% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01997-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Co-60 | -9.252E-8 | 9.498E-7 | 1.045E-6 | 5.225E-7 | 0.00024 | U | uCi/filter | 10/27/23 19:37 | | N/A |
| Cs-137 | -2.765E-7 | 8.060E-7 | 9.390E-7 | 4.695E-7 | 0.00048 | U | uCi/filter | 10/27/23 19:37 | | N/A |
| Ra-226 | -9.342E-6 | 1.458E-5 | 1.550E-5 | 7.750E-6 | 4.4E-06 | U | uCi/filter | 10/27/23 19:37 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-02045-05

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 1.968E-6 | 2.076E-6 | 3.400E-6 | 1.567E-6 | 2.4E-05 | U | uCi/filter | 11/03/23 10:32 | | 102% |



ARS Sample Delivery Group: ARS1-23-02208
Client Sample ID: MSC02-092523
Sample Collection Date: 09/28/23 14:04
Sample Matrix: Air Filter
Percent Solids: N/A

Request or PO Number: Parcel C Air Monitoring RAD
ARS Sample ID: ARS1-23-02208-003
Date Received: 10/04/23
Report Date: 11/07/23

Radiochemistry

Analysis Method: Eichrom ACW03

ABatch Sample ID: ARS1-B23-02054-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Pu-239/240 | 0.000 | 4.272E-8 | 8.562E-8 | 3.585E-8 | 4.8E-08 | U | uCi/filter | 11/07/23 2:03 | | 79.3% |

Analysis Method: Eichrom ACW10

ABatch Sample ID: ARS1-B23-02042-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Th-232 | 1.233E-7 | 6.059E-8 | 6.739E-8 | 2.673E-8 | 1.4E-08 | | uCi/filter | 11/04/23 2:41 | | 79.3% |

Analysis Method: EPA 901.1M

ABatch Sample ID: ARS1-B23-01997-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| Co-60 | 2.224E-7 | 8.049E-7 | 8.274E-7 | 4.137E-7 | 0.00024 | U | uCi/filter | 10/27/23 19:39 | | N/A |
| Cs-137 | -9.584E-8 | 6.913E-7 | 7.519E-7 | 3.760E-7 | 0.00048 | U | uCi/filter | 10/27/23 19:39 | | N/A |
| Ra-226 | 3.797E-6 | 7.282E-6 | 9.160E-6 | 4.580E-6 | 4.4E-06 | U | uCi/filter | 10/27/23 19:39 | | N/A |

Analysis Method: Eichrom SRW01

ABatch Sample ID: ARS1-B23-02045-06

| Analysis Description | Analysis Results | CSU +/- 2 s | MDA | DLC | CRDL | Qual | Analysis Units | Analysis Date/Time | Analysis Technician | Tracer/Chem Recovery |
|----------------------|------------------|-------------|----------|----------|---------|------|----------------|--------------------|---------------------|----------------------|
| SR-90 | 2.611E-6 | 2.317E-6 | 3.718E-6 | 1.723E-6 | 2.4E-05 | U | uCi/filter | 11/03/23 10:32 | | 104% |

ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Batch QC



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-01997 |
| SDG | ARS1-23-02208 |
| Analysis | Gamma Spec (Short) in (Air Filters, Smears [AF]) |
| Method | EPA 901.1M |
| Analysis Code | GAM-A-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | Analysis Date | 10/30/23 10:10 | Analysis Technician | █ | |
|---------------------------|---------|---------|---------------|----------------|---------------------|-------------|-------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-01997-01 | LCS | AM-241 | 31.865 | 2.475 | 33.065 | 96.4 | 0.118 |
| ARS1-B23-01997-01 | LCS | CO-60 | 22.039 | 1.187 | 20.928 | 105.3 | 0.471 |
| ARS1-B23-01997-01 | LCS | CS-137 | 13.372 | 0.713 | 12.996 | 102.9 | 0.077 |

| Duplicate RER/DER/RPD | | | Analysis Date | 10/30/23 10:23 | Analysis Technician | █ |
|-----------------------|-------------|--------------|---------------|----------------|---------------------|-----|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD |
| AM-241 | 31.865 | 2.475 | 31.770 | 2.468 | 0.053 | 0.3 |
| CO-60 | 22.039 | 1.187 | 21.622 | 1.176 | 0.489 | 1.9 |
| CS-137 | 13.372 | 0.713 | 13.475 | 0.718 | 0.200 | 0.8 |

| Method Blank | | | Analysis Date | 10/27/23 18:47 | Analysis Technician | █ |
|--------------------------|---------|---------|---------------|----------------|---------------------|------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual |
| ARS1-B23-01997-03 | MBL | AC-228 | -0.003 | 0.006 | 0.006 | U |
| ARS1-B23-01997-03 | MBL | AM-241 | -5.111E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01997-03 | MBL | BI-212 | -0.004 | 0.012 | 0.012 | U |
| ARS1-B23-01997-03 | MBL | BI-214 | -0.002 | 0.004 | 0.004 | U |
| ARS1-B23-01997-03 | MBL | CO-60 | -1.699E-4 | 0.002 | 0.002 | U |
| ARS1-B23-01997-03 | MBL | CS-137 | 2.230E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01997-03 | MBL | EU-152 | 4.228E-4 | 0.001 | 0.002 | U |
| ARS1-B23-01997-03 | MBL | EU-154 | 9.782E-5 | 0.001 | 0.001 | U |
| ARS1-B23-01997-03 | MBL | K-40 | -0.021 | 0.029 | 0.025 | U |
| ARS1-B23-01997-03 | MBL | PA-234 | 7.327E-4 | 0.002 | 0.002 | U |
| ARS1-B23-01997-03 | MBL | PB-210 | -0.009 | 0.016 | 0.017 | U |
| ARS1-B23-01997-03 | MBL | PB-212 | -0.004 | 0.002 | 0.003 | U |
| ARS1-B23-01997-03 | MBL | PB-214 | -0.004 | 0.004 | 0.003 | U |
| ARS1-B23-01997-03 | MBL | RA-226 | -0.081 | 0.025 | 0.031 | U |
| ARS1-B23-01997-03 | MBL | RA-228 | -0.003 | 0.006 | 0.006 | U |
| ARS1-B23-01997-03 | MBL | TH-234 | 0.002 | 0.016 | 0.017 | U |
| ARS1-B23-01997-03 | MBL | TL-208 | -5.979E-4 | 0.002 | 0.002 | U |
| ARS1-B23-01997-03 | MBL | U-235 | 0.002 | 0.005 | 0.006 | U |
| ARS1-B23-01997-03 | MBL | U-238 | 0.002 | 0.016 | 0.017 | U |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-02042 |
| SDG | ARS1-23-02208 |
| Analysis | Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT]) |
| Method | Eichrom ACW10 |
| Analysis Code | ASP-TH-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 11/04/23 02:41 | Analysis Technician | |
|---------------------------|---------|---------|----------|---------------|----------------|---------------------|----------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-02042-01 | LCS | TH-230 | 5.716E-6 | 7.159E-7 | 5.389E-6 | 106.1 | 2.408E-8 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 11/04/23 02:41 | Analysis Technician | |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|--|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| TH-230 | 5.716E-6 | 7.159E-7 | 5.733E-6 | 7.178E-7 | 0.034 | 0.3 | |

| Method Blank | | | | Analysis Date | 11/04/23 02:41 | Analysis Technician | |
|--------------------------|---------|---------|-----------|---------------|----------------|---------------------|--|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-02042-03 | MBL | TH-228 | -1.541E-8 | 6.449E-8 | 1.260E-7 | U | |
| ARS1-B23-02042-03 | MBL | TH-230 | 1.224E-7 | 5.847E-8 | 6.130E-8 | | |
| ARS1-B23-02042-03 | MBL | TH-232 | 1.528E-8 | 2.239E-8 | 3.749E-8 | U | |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-02045 |
| SDG | ARS1-23-02208 |
| Analysis | Strontium-90 in (Air Filters, Smears [AF]) |
| Method | Eichrom SRW01 |
| Analysis Code | GPC-SR90-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 11/03/23 10:32 | Analysis Technician | |
|---------------------------|---------|---------|----------|---------------|----------------|---------------------|----------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-02045-01 | LCS | SR-90 | 2.248E-5 | 3.430E-6 | 1.930E-5 | 116.5 | 3.885E-7 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 11/03/23 10:32 | Analysis Technician | |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|--|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| SR-90 | 2.248E-5 | 3.430E-6 | 2.096E-5 | 3.206E-6 | 0.634 | 7.0 | |

| Method Blank | | | | Analysis Date | 11/03/23 10:32 | Analysis Technician | |
|--------------------------|---------|---------|----------|---------------|----------------|---------------------|--|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-02045-03 | MBL | SR-90 | 2.487E-6 | 2.622E-6 | 4.295E-6 | U | |



QC Results per Analytical Batch

| | |
|------------------|--|
| Analytical Batch | ARS1-B23-02054 |
| SDG | ARS1-23-02208 |
| Analysis | Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT1]) |
| Method | Eichrom ACW03 |
| Analysis Code | ASP-PU239-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges | | |
|---------------------------|--------------------------------------|------|-------|
| Laboratory Control Sample | Recovery (%): | > 75 | < 125 |
| Matrix Spike | Recovery (%): | > 60 | < 140 |
| Duplicate | Duplicate Error Ratio (DER): | | < 3 |
| | Relative Percent Difference (RPD %): | | ≤ 25 |

| Laboratory Control Sample | | | | Analysis Date | 11/07/23 02:03 | Analysis Technician | |
|---------------------------|---------|------------|----------|---------------|----------------|---------------------|----------|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | Expected Value | LCS Rec (%) | MDA |
| ARS1-B23-02054-01 | LCS | PU-239/240 | 7.592E-6 | 9.420E-7 | 7.501E-6 | 101.2 | 1.668E-8 |

| Duplicate RER/DER/RPD | | | | Analysis Date | 11/07/23 02:03 | Analysis Technician | |
|-----------------------|-------------|--------------|--------------|---------------|----------------|---------------------|--|
| Analyte | Results LCS | CSU LCS (2s) | Results LCSD | CSU LCSD (2s) | DER | RPD | |
| PU-239/240 | 7.592E-6 | 9.420E-7 | 7.614E-6 | 9.438E-7 | 0.032 | 0.3 | |

| Method Blank | | | | Analysis Date | 11/07/23 02:03 | Analysis Technician | |
|--------------------------|---------|------------|----------|---------------|----------------|---------------------|--|
| Analysis Batch Sample ID | QC Type | Analyte | Results | CSU (2s) | MDA | Qual | |
| ARS1-B23-02054-03 | MBL | PU-238 | 1.341E-8 | 8.719E-8 | 1.611E-7 | U | |
| ARS1-B23-02054-03 | MBL | PU-239/240 | 8.045E-8 | 7.944E-8 | 1.262E-7 | U | |



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

QC Summary



QC Sample Results

Analytical Batch: ARS1-B23-01997
Lab Sample ID: ARS1-B23-01997-01
Method: EPA 901.1M

Sample Type: LCS
Matrix: Air Filter
Analysis Date: 10/30/23 10:10

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| Am-241 | 33.065 | 31.865 | | uCi/filter | 96.4 | 75 - 125 |
| Co-60 | 20.928 | 22.039 | | uCi/filter | 105.3 | 75 - 125 |
| Cs-137 | 12.996 | 13.372 | | uCi/filter | 102.9 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-01997

Lab Sample ID: ARS1-B23-01997-02

Method: EPA 901.1M

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 10/30/23 10:23

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Am-241 | 33.065 | 31.770 | | uCi/filter | 96.1 | 75 - 125 | 0.3 | 25 | 0.053 | 3 |
| Co-60 | 20.928 | 21.622 | | uCi/filter | 103.3 | 75 - 125 | 1.9 | 25 | 0.489 | 3 |
| Cs-137 | 12.996 | 13.475 | | uCi/filter | 103.7 | 75 - 125 | 0.8 | 25 | 0.200 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-01997
Lab Sample ID: ARS1-B23-01997-03
Method: EPA 901.1M

Sample Type: MBL
Matrix: Air Filter
Analysis Date: 10/27/23 18:47

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|-------|----------|------|----------------|
| Ac-228 | -0.003 | 0.006 | 0.006 | 0.003 | U | uCi/filter |
| Am-241 | -5.111E-4 | 0.001 | 0.002 | 0.001 | U | uCi/filter |
| Bi-212 | -0.004 | 0.012 | 0.012 | 0.006 | U | uCi/filter |
| Bi-214 | -0.002 | 0.004 | 0.004 | 0.002 | U | uCi/filter |
| Co-60 | -1.699E-4 | 0.002 | 0.002 | 8.750E-4 | U | uCi/filter |
| Cs-137 | 2.230E-4 | 0.001 | 0.002 | 7.850E-4 | U | uCi/filter |
| Eu-152 | 4.228E-4 | 0.001 | 0.002 | 8.650E-4 | U | uCi/filter |
| Eu-154 | 9.782E-5 | 0.001 | 0.001 | 6.750E-4 | U | uCi/filter |
| K-40 | -0.021 | 0.029 | 0.025 | 0.012 | U | uCi/filter |
| Pa-234 | 7.327E-4 | 0.002 | 0.002 | 0.001 | U | uCi/filter |
| Pb-210 | -0.009 | 0.016 | 0.017 | 0.009 | U | uCi/filter |
| Pb-212 | -0.004 | 0.002 | 0.003 | 0.002 | U | uCi/filter |
| Pb-214 | -0.004 | 0.004 | 0.003 | 0.002 | U | uCi/filter |
| Ra-226 | -0.081 | 0.025 | 0.031 | 0.016 | U | uCi/filter |
| Ra-228 | -0.003 | 0.006 | 0.006 | 0.003 | U | uCi/filter |
| Th-234 | 0.002 | 0.016 | 0.017 | 0.009 | U | uCi/filter |
| Tl-208 | -5.979E-4 | 0.002 | 0.002 | 8.150E-4 | U | uCi/filter |
| U-235 | 0.002 | 0.005 | 0.006 | 0.003 | U | uCi/filter |
| U-238 | 0.002 | 0.016 | 0.017 | 0.009 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02208

Analytical Batch: ARS1-B23-01997

Analysis: Gamma Spec (Short) in (Air Filters, Smears [AF])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|------------|-------------|
| ARS1-B23-01997-01 | | Lab Control Sample | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01997-02 | | Lab Control Sample Duplicate | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01997-03 | | Method Blank | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01997-04 | ARS1-23-02208-001 | FBC-092523 | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01997-05 | ARS1-23-02208-002 | MSC01-092523 | Air Filter | EPA 901.1M | N/A |
| ARS1-B23-01997-06 | ARS1-23-02208-003 | MSC02-092523 | Air Filter | EPA 901.1M | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-02042
Lab Sample ID: ARS1-B23-02042-01
Method: Eichrom ACW10

Sample Type: LCS
Matrix: Air Filter
Analysis Date: 11/04/23 2:41

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| Th-230 | 5.389E-6 | 5.716E-6 | | uCi/filter | 106.1 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-02042

Lab Sample ID: ARS1-B23-02042-02

Method: Eichrom ACW10

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 11/04/23 2:41

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Th-230 | 5.469E-6 | 5.733E-6 | | uCi/filter | 104.8 | 75 - 125 | 0.3 | 25 | 0.034 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-02042
Lab Sample ID: ARS1-B23-02042-03
Method: Eichrom ACW10

Sample Type: MBL
Matrix: Air Filter
Analysis Date: 11/04/23 2:41

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|----------|----------|------|----------------|
| Th-228 | -1.541E-8 | 6.449E-8 | 1.260E-7 | 5.605E-8 | U | uCi/filter |
| Th-230 | 1.224E-7 | 5.847E-8 | 6.130E-8 | 2.374E-8 | | uCi/filter |
| Th-232 | 1.528E-8 | 2.239E-8 | 3.749E-8 | 1.185E-8 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02208

Analytical Batch: ARS1-B23-02042

Analysis: Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-02042-01 | | Lab Control Sample | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-02042-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-02042-03 | | Method Blank | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-02042-04 | ARS1-23-02208-001 | FBC-092523 | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-02042-05 | ARS1-23-02208-002 | MSC01-092523 | Air Filter | Eichrom ACW10 | N/A |
| ARS1-B23-02042-06 | ARS1-23-02208-003 | MSC02-092523 | Air Filter | Eichrom ACW10 | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-02045

Lab Sample ID: ARS1-B23-02045-01

Method: Eichrom SRW01

Sample Type: LCS

Matrix: Air Filter

Analysis Date: 11/03/23 10:32

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|---------|-------------|-----------------|------|----------------|-------|--------------|
| SR-90 | 1.930E-5 | 2.248E-5 | | uCi/filter | 116.5 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-02045

Lab Sample ID: ARS1-B23-02045-02

Method: Eichrom SRW01

Sample Type: LCSD

Matrix: Air Filter

Analysis Date: 11/03/23 10:32

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|---------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| SR-90 | 1.961E-5 | 2.096E-5 | | uCi/filter | 106.9 | 75 - 125 | 7.0 | 25 | 0.634 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-02045

Lab Sample ID: ARS1-B23-02045-03

Method: Eichrom SRW01

Sample Type: MBL

Matrix: Air Filter

Analysis Date: 11/03/23 10:32

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|---------|-----------------|-------------|----------|----------|------|----------------|
| SR-90 | 2.487E-6 | 2.622E-6 | 4.295E-6 | 1.983E-6 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02208

Analytical Batch: ARS1-B23-02045

Analysis: Strontium-90 in (Air Filters, Smears [AF])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-02045-01 | | Lab Control Sample | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-02045-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-02045-03 | | Method Blank | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-02045-04 | ARS1-23-02208-001 | FBC-092523 | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-02045-05 | ARS1-23-02208-002 | MSC01-092523 | Air Filter | Eichrom SRW01 | N/A |
| ARS1-B23-02045-06 | ARS1-23-02208-003 | MSC02-092523 | Air Filter | Eichrom SRW01 | N/A |



QC Sample Results

Analytical Batch: ARS1-B23-02054

Lab Sample ID: ARS1-B23-02054-01

Method: Eichrom ACW03

Sample Type: LCS

Matrix: Air Filter

Analysis Date: 11/07/23 2:03

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits |
|------------|-------------|-----------------|------|----------------|-------|--------------|
| Pu-239/240 | 7.501E-6 | 7.592E-6 | | uCi/filter | 101.2 | 75 - 125 |



QC Sample Results

Analytical Batch: ARS1-B23-02054
Lab Sample ID: ARS1-B23-02054-02
Method: Eichrom ACW03

Sample Type: LCSD
Matrix: Air Filter
Analysis Date: 11/07/23 2:03

| Analyte | Spike Added | Analysis Result | Qual | Analysis Units | % Rec | % Rec Limits | RPD | RPD Limit | DER | DER Limit |
|------------|-------------|-----------------|------|----------------|-------|--------------|-----|-----------|-------|-----------|
| Pu-239/240 | 7.620E-6 | 7.614E-6 | | uCi/filter | 99.9 | 75 - 125 | 0.3 | 25 | 0.032 | 3 |



QC Sample Results

Analytical Batch: ARS1-B23-02054
Lab Sample ID: ARS1-B23-02054-03
Method: Eichrom ACW03

Sample Type: MBL
Matrix: Air Filter
Analysis Date: 11/07/23 2:03

| Analyte | Analysis Result | CSU +/- 2 s | MDA | DLC | Qual | Analysis Units |
|------------|-----------------|-------------|----------|----------|------|----------------|
| Pu-238 | 1.341E-8 | 8.719E-8 | 1.611E-7 | 7.148E-8 | U | uCi/filter |
| Pu-239/240 | 8.045E-8 | 7.944E-8 | 1.262E-7 | 5.403E-8 | U | uCi/filter |



QC Association Summary

ARS Sample Delivery Group: ARS1-23-02208

Analytical Batch: ARS1-B23-02054

Analysis: Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT])

| Batch Sample ID | Lab Sample ID | Client Sample ID | Matrix | Method | Prep Method |
|-------------------|-------------------|------------------------------|------------|---------------|-------------|
| ARS1-B23-02054-01 | | Lab Control Sample | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-02054-02 | | Lab Control Sample Duplicate | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-02054-03 | | Method Blank | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-02054-04 | ARS1-23-02208-001 | FBC-092523 | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-02054-05 | ARS1-23-02208-002 | MSC01-092523 | Air Filter | Eichrom ACW03 | N/A |
| ARS1-B23-02054-06 | ARS1-23-02208-003 | MSC02-092523 | Air Filter | Eichrom ACW03 | N/A |



Z Values per Analytical Batch

| | |
|----------------------|---|
| Analytical Batch | ARS1-B23-01997 |
| SDG | ARS1-23-02208 |
| Analysis | Gamma Spec (Short) in (Air Filters, Smears |
| Analysis Test Method | PALA-RAD-007/EPA 901.1M |
| Analysis Code | GAM-A-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges |
|---------------------------|------------------------------|
| Laboratory Control Sample | ZLCS <= 3 |
| Matrix Spike | ZMS <= 3 |
| Method Blank | ZBLANK <= 3 |
| Duplicate | ZDUP <= 3 |

| Laboratory Control Sample | | Analysis Date | 10/30/23 10:10 | Analysis Technician | █ | |
|---------------------------|---------|---------------|----------------|---------------------|----------|-------|
| QC Type | Analyte | Results | CSU (1s) | Expected Value | CSU (1s) | Z |
| LCS | AM-241 | 31.865 | 1.263 | 33.065 | 0.001 | 0.950 |
| LCSD | AM-241 | 31.770 | 1.259 | 33.065 | 0.001 | 1.028 |
| LCS | CO-60 | 22.039 | 0.606 | 20.928 | 5.860E-4 | 1.834 |
| LCSD | CO-60 | 21.622 | 0.600 | 20.928 | 5.860E-4 | 1.156 |
| LCS | CS-137 | 13.372 | 0.364 | 12.996 | 3.119E-4 | 1.034 |
| LCSD | CS-137 | 13.475 | 0.366 | 12.996 | 3.119E-4 | 1.309 |

| Method Blank | | Analysis Date | 10/27/23 18:47 | Analysis Technician | █ |
|--------------|---------|---------------|----------------|---------------------|---|
| QC Type | Analyte | Results | CSU (1s) | Z | |
| MBL | CO-60 | -1.699E-4 | 8.659E-4 | 0.196 | |
| MBL | AM-241 | -5.111E-4 | 6.772E-4 | 0.755 | |
| MBL | BI-212 | -0.004 | 0.006 | 0.592 | |
| MBL | BI-214 | -0.002 | 0.002 | 1.007 | |
| MBL | AC-228 | -0.003 | 0.003 | 0.959 | |
| MBL | PA-234 | 7.327E-4 | 7.921E-4 | 0.925 | |
| MBL | TL-208 | -5.979E-4 | 7.907E-4 | 0.756 | |
| MBL | U-235 | 0.002 | 0.002 | 0.890 | |
| MBL | U-238 | 0.002 | 0.008 | 0.265 | |
| MBL | CS-137 | 2.230E-4 | 7.109E-4 | 0.314 | |
| MBL | EU-152 | 4.228E-4 | 6.686E-4 | 0.632 | |
| MBL | EU-154 | 9.782E-5 | 5.180E-4 | 0.189 | |
| MBL | K-40 | -0.021 | 0.015 | 1.419 | |
| MBL | PB-210 | -0.009 | 0.008 | 1.091 | |
| MBL | PB-212 | -0.004 | 0.001 | 3.361 | |
| MBL | PB-214 | -0.004 | 0.002 | 2.327 | |
| MBL | RA-226 | -0.081 | 0.013 | 6.285 | |
| MBL | RA-228 | -0.003 | 0.003 | 0.959 | |
| MBL | TH-234 | 0.002 | 0.008 | 0.265 | |



Z Values per Analytical Batch

| | |
|-----------------------------|---|
| Analytical Batch | ARS1-B23-01997 |
| SDG | ARS1-23-02208 |
| Analysis | Gamma Spec (Short) in (Air Filters, Smears |
| Analysis Test Method | PALA-RAD-007/EPA 901.1M |
| Analysis Code | GAM-A-AF |
| Report Units | uCi/filter |

| Duplicate Sample | Analysis Date | 10/30/23 10:23 | Analysis Technician | █ | | |
|-------------------------|----------------------|--------------------|----------------------------|-------------------|-----------------|----------|
| QC Type | Analyte | Results Dup | CSU (1s) | Results DO | CSU (1s) | Z |
| LCSD | AM-241 | 31.770 | 1.259 | 31.865 | 1.263 | 0.053 |
| LCSD | CO-60 | 21.622 | 0.600 | 22.039 | 0.606 | 0.489 |
| LCSD | CS-137 | 13.475 | 0.366 | 13.372 | 0.364 | 0.200 |



Z Values per Analytical Batch

| | |
|----------------------|---|
| Analytical Batch | ARS1-B23-02042 |
| SDG | ARS1-23-02208 |
| Analysis | Thorium in (Air Filters, Smears, Leak Test) |
| Analysis Test Method | PALA-RAD-031/Eichrom ACW-10 |
| Analysis Code | ASP-TH-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges |
|---------------------------|------------------------------|
| Laboratory Control Sample | ZLCS <= 3 |
| Matrix Spike | ZMS <= 3 |
| Method Blank | ZBLANK <= 3 |
| Duplicate | ZDUP <= 3 |

| Laboratory Control Sample | | Analysis Date | 11/04/23 02:41 | Analysis Technician | ██████████ | | |
|---------------------------|---------|---------------|----------------|---------------------|------------|-------|--|
| QC Type | Analyte | Results | CSU (1s) | Expected Value | CSU (1s) | Z | |
| LCS | TH-230 | 5.716E-6 | 3.653E-7 | 5.389E-6 | 1.062E-7 | 0.858 | |
| LCSD | TH-230 | 5.733E-6 | 3.662E-7 | 5.469E-6 | 1.062E-7 | 0.694 | |

| Method Blank | | Analysis Date | 11/04/23 02:41 | Analysis Technician | ██████████ | |
|--------------|---------|---------------|----------------|---------------------|------------|--|
| QC Type | Analyte | Results | CSU (1s) | Z | | |
| MBL | TH-228 | -1.541E-8 | 3.290E-8 | 0.468 | | |
| MBL | TH-230 | 1.224E-7 | 2.983E-8 | 4.105 | | |
| MBL | TH-232 | 1.528E-8 | 1.142E-8 | 1.337 | | |

| Duplicate Sample | | Analysis Date | 11/04/23 02:41 | Analysis Technician | ██████████ | | |
|------------------|---------|---------------|----------------|---------------------|------------|-------|--|
| QC Type | Analyte | Results Dup | CSU (1s) | Results DO | CSU (1s) | Z | |
| LCSD | TH-230 | 5.733E-6 | 3.662E-7 | 5.716E-6 | 3.653E-7 | 0.034 | |



Z Values per Analytical Batch

| | |
|----------------------|--|
| Analytical Batch | ARS1-B23-02045 |
| SDG | ARS1-23-02208 |
| Analysis | Strontium-90 in (Air Filters, Smears [AF]) |
| Analysis Test Method | PALA-RAD-032/Eichrom SRW01,HASL 300 |
| Analysis Code | GPC-SR90-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges |
|---------------------------|------------------------------|
| Laboratory Control Sample | ZLCS <= 3 |
| Matrix Spike | ZMS <= 3 |
| Method Blank | ZBLANK <= 3 |
| Duplicate | ZDUP <= 3 |

| Laboratory Control Sample | | Analysis Date | 11/03/23 10:32 | Analysis Technician | ██████████ | | |
|---------------------------|---------|---------------|----------------|---------------------|------------|-------|--|
| QC Type | Analyte | Results | CSU (1s) | Expected Value | CSU (1s) | Z | |
| LCS | SR-90 | 2.248E-5 | 1.750E-6 | 1.930E-5 | 3.326E-7 | 1.785 | |
| LCSD | SR-90 | 2.096E-5 | 1.636E-6 | 1.961E-5 | 3.326E-7 | 0.807 | |

| Method Blank | | Analysis Date | 11/03/23 10:32 | Analysis Technician | ██████████ | |
|--------------|---------|---------------|----------------|---------------------|------------|--|
| QC Type | Analyte | Results | CSU (1s) | Z | | |
| MBL | SR-90 | 2.487E-6 | 1.338E-6 | 1.859 | | |

| Duplicate Sample | | Analysis Date | 11/03/23 10:32 | Analysis Technician | ██████████ | | |
|------------------|---------|---------------|----------------|---------------------|------------|-------|--|
| QC Type | Analyte | Results Dup | CSU (1s) | Results DO | CSU (1s) | Z | |
| LCSD | SR-90 | 2.096E-5 | 1.636E-6 | 2.248E-5 | 1.750E-6 | 0.634 | |



Z Values per Analytical Batch

| | |
|----------------------|---|
| Analytical Batch | ARS1-B23-02054 |
| SDG | ARS1-23-02208 |
| Analysis | Plutonium (239, 240Pu) in (Air Filters, |
| Analysis Test Method | PALA-RAD-026/Eichrom ACW-03 |
| Analysis Code | ASP-PU239-AF |
| Report Units | uCi/filter |

Acceptable QC Performance Ranges

| QC Sample Type | Performance Items and Ranges |
|---------------------------|------------------------------|
| Laboratory Control Sample | ZLCS <= 3 |
| Matrix Spike | ZMS <= 3 |
| Method Blank | ZBLANK <= 3 |
| Duplicate | ZDUP <= 3 |

| Laboratory Control Sample | | Analysis Date | 11/07/23 02:03 | Analysis Technician | ██████████ | | |
|---------------------------|------------|---------------|----------------|---------------------|------------|-------|--|
| QC Type | Analyte | Results | CSU (1s) | Expected Value | CSU (1s) | Z | |
| LCS | PU-239/240 | 7.592E-6 | 4.806E-7 | 7.501E-6 | 1.263E-7 | 0.184 | |
| LCSD | PU-239/240 | 7.614E-6 | 4.815E-7 | 7.620E-6 | 1.263E-7 | 0.012 | |

| Method Blank | | Analysis Date | 11/07/23 02:03 | Analysis Technician | ██████████ | |
|--------------|------------|---------------|----------------|---------------------|------------|--|
| QC Type | Analyte | Results | CSU (1s) | Z | | |
| MBL | PU-238 | 1.341E-8 | 4.448E-8 | 0.301 | | |
| MBL | PU-239/240 | 8.045E-8 | 4.053E-8 | 1.985 | | |

| Duplicate Sample | | Analysis Date | 11/07/23 02:03 | Analysis Technician | ██████████ | | |
|------------------|------------|---------------|----------------|---------------------|------------|-------|--|
| QC Type | Analyte | Results Dup | CSU (1s) | Results DO | CSU (1s) | Z | |
| LCSD | PU-239/240 | 7.614E-6 | 4.815E-7 | 7.592E-6 | 4.806E-7 | 0.032 | |



ARS Aleut Analytical, LLC Analytical Reports

for

GES-AIS, LLC

Sample Management Records



Procedures: GES-003 / EPA 900.0M

Start Date 9/25/23
Stop Date 9/28/23

File ID Number: 00323RADC

Field Entry

| Station | Sample ID | Date In | Time In | Date Out | Time Out | Initial Flow Rate (LPM) | Final Flow Rate (LPM) | Flow volume Cu.M | Julian Date for Date Out | Total Run Time (Days) | Total Run Time (Hours) | Run Time (Minutes) | Average Flow Rate (LPM) | Initial Flow Rate (CFM) | Final Flow Rate (CFM) | Average Flow Rate (CFM) | Average Flow Rate (Cu.M/h) | Flow Rate (Cu.M/min) | Total Flow (L) |
|---------|-----------|--------------|---------------|----------------|----------|-------------------------|-----------------------|------------------|--------------------------|-----------------------|------------------------|--------------------|-------------------------|-------------------------|-----------------------|-------------------------|----------------------------|----------------------|----------------|
| 1 | MSC01 | FBC-092523 | 9/25/2023 800 | 9/25/2023 800 | | | | | | | | | | | | | | | |
| | | MSC01-092523 | 09/25/23 3.50 | 09/28/23 14.17 | | 60 | 60 | 296.8 | 271 | 3.44 | 82.45 | 4947.0 | 60 | 2.11888 | 2.11888 | 2.11888 | 3.6 | 0.06 | 296.820 |
| 2 | MSC02 | MSC02-092523 | 09/25/23 4.00 | 09/28/23 14.04 | | 60 | 60 | 295.4 | 271 | 3.42 | 82.07 | 4924.0 | 60 | 2.11888 | 2.11888 | 2.11888 | 3.6 | 0.06 | 295.440 |

FORMULAS:

Number of Days = (Date Out + Time Out) minus (Date In + Time In)

Number of Minutes = # of Days X 24hr X 60min

Flow Rate (m3/h) = Flow Rate (CFM) x 60min x (12in x 2.54cm/in / 100cm/m)³

Mid-Sample Date/Time = [(Date + Time Out) + (Date + Time In)] / 2

Flow Rate (Cu.M/min) = CFM X 0.0283168466 Cu.M/CF

Flow Rate (LPM) = Cu.M X 1000

Total Flow (L) = LPM X Total Minutes

SDG Report - Samples and Containers

| SDG Specific Data | | | | | | | | | | |
|-----------------------|----------------------|------------------|-----------|--------------------------|-------------------------|--|---------------------|---|--|--|
| SDG | ARS1-23-02208 | | | TAT Days | 28 Calendar Days | | Project Type | Environmental | | |
| Sample Count | 3 | Rpt Level | 2b | Date Received | 10/04/2023 | | COC Number | 100323RADC | | |
| Client | GES-AIS, LLC | | | Discrepancy Resol | N/A | | PO Number | Parcel C Air Monitoring RAD | | |
| Client Code | 1138 | | | Client Deadline | 11/01/2023 | | Job Number | J310000600 | | |
| Profile Number | PN-01440 | | | | | | Job Location | Hunters Point Shipyard, Parcel C Removal Site Evaluation | | |
| Comment | | | | | | | | | | |

| Samples and Containers Checked In Thus Far | | | | | | | | | |
|--|--------------|------------|-----------------------|----------------------|------------------|------|-------------|-------------|-----------------|
| FR | Name | Matrix | Start Date | End Date | Disp | Hold | Arch | Storage | Comments |
| 001 | FBC-092523 | Air Filter | 09/25/2023 07:59 | 09/25/2023 08:00 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448963 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/25/2023 07:59 | AF Volume (CuM): | | 0.001 | | |
| 002 | MSC01-092523 | Air Filter | 09/28/2023 14:16 | 09/28/2023 14:17 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448964 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/28/2023 14:16 | AF Volume (CuM): | | 0.001 | | |
| 003 | MSC02-092523 | Air Filter | 09/28/2023 14:03 | 09/28/2023 14:04 | H | 30 | 10 | PrePrep | |
| | IC_ID | Cnt | Container Type | AF Volume (L) | AF Units | | Rate | Mins | Comments |
| | 448965 | 1 | HDP Container | 1 | LPM | | | 1 | |
| | | | Mid-Sample Date: | 09/28/2023 14:03 | AF Volume (CuM): | | 0.001 | | |

SDG Report - Analysis Assignments

| | | | |
|---------------|----------------------|-----------------------|-------------|
| SDG | ARS1-23-02208 | Sample Count | 3 |
| Client | GES-AIS, LLC | Analysis Count | 4-12 |

| Sample Count Totals Per Analysis | | | |
|----------------------------------|---|--------|---------------|
| Analysis Code | Analysis Description | In/Out | Samples Count |
| ASP-PU239-AF | Plutonium (239, 240Pu) in (Air Filters, Smears, Leak Test [AF, SM, LT]) | I | 3 |
| ASP-TH-AF | Thorium in (Air Filters, Smears, Leak Test [AF, SM, LT]) | I | 3 |
| GAM-A-AF | Gamma Spec (Short) in (Air Filters, Smears [AF]) | I | 3 |
| GPC-SR90-AF | Strontium-90 in (Air Filters, Smears [AF]) | I | 3 |

| Analyses Assigned Per Fraction | | |
|--------------------------------|---------------|--------------|
| Fraction | Analysis Code | X = Assigned |
| 001 | ASP-PU239-AF | X |
| 001 | ASP-TH-AF | X |
| 001 | GAM-A-AF | X |
| 001 | GPC-SR90-AF | X |
| 002 | ASP-PU239-AF | X |
| 002 | ASP-TH-AF | X |
| 002 | GAM-A-AF | X |
| 002 | GPC-SR90-AF | X |
| 003 | ASP-PU239-AF | X |
| 003 | ASP-TH-AF | X |
| 003 | GAM-A-AF | X |
| 003 | GPC-SR90-AF | X |

Client Name: GES-AIS, LLC

Profile Name: Parcel C Rad Sampling

Report Level: 2b

| Analysis Code | Prep Type | Units | Aliquot | Prep Code | Procedure | Count Time | | | | | | | | | | | | | | |
|---------------------|------------|--------|---------|-----------|--------------|------------|----|-----|--|--|--|---------------------|--------------------|-----------|----------|------------|-------------|-----|-----|------------|
| ASP-PU239-AF | WRAD | uCi | filter | N/A | PALA-RAD-026 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| ASP-TH-AF | WRAD | uCi | filter | N/A | PALA-RAD-031 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| GAM-A-AF | WGAM | uCi | filter | N/A | PALA-RAD-007 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Analyte | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL |
| | | | | | | | | | | | | Ac-228 (14331-83-0) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Am-241 (14596-10-2) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Bi-212 (14913-49-6) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Bi-214 (14733-03-0) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Co-60 (10198-40-0) | 0.00024 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Cs-137 (10045-97-3) | 0.00048 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Eu-152 (14683-23-9) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Eu-154 (15585-10-1) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | K-40 (13966-00-2) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-210 (14255-04-0) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-212 (15092-94-1) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Pb-214 (15067-28-4) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Ra-226 (13982-63-3) | 4.4E-06 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Ra-228 (15262-20-1) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| | | | | | | | | | | | | Th-234 (15065-10-8) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| Tl-208 (14913-50-9) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| U-235 (15117-96-1) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |
| U-238 (7440-61-1) | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-------------|---------------------|-----|--------|--------------------|------------------|-----------------|-------------------|--------------------|------------|------------|-------------------|
| GAM-A-AF | Pa-234 (15100-28-4) | | | uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |
| GPC-SR90-AF | WRAD | uCi | filter | N/A | PALA-RAD-032 | | | | | | |
| | Analyte | | | RDL | LCS LL/UL | MS LL/UL | RadY LL/UL | GravY LL/UL | RER | RPD | Surr LL/UL |
| | Sr-90 (10098-97-2) | | | 2.4E-05 uCi/filter | 75/125 | 60/140 | 30/110 | 30/110 | 1 | 25 | N/A |

| Analysis Code | Fraction | Units | Aliquot | Conductivity | Analyte Count |
|---------------|----------|-----------------------|---------|----------------|---------------|
| ASP-PU239-AF | 001 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-PU239-AF | 002 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-PU239-AF | 003 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Pu-239/240 | |
| ASP-TH-AF | 001 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| ASP-TH-AF | 002 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| ASP-TH-AF | 003 | uCi | filter | N/A | 1 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Th-232 | |
| GAM-A-AF | 001 | uCi | filter | N/A | 19 |
| | | Group | | Analyte | |
| | | Parcel C Rad Sampling | | Ac-228 | |
| | | Parcel C Rad Sampling | | Am-241 | |
| | | Parcel C Rad Sampling | | Bi-212 | |
| | | Parcel C Rad Sampling | | Bi-214 | |
| | | Parcel C Rad Sampling | | Co-60 | |
| | | Parcel C Rad Sampling | | Cs-137 | |
| | | Parcel C Rad Sampling | | Eu-152 | |

| | | | | | |
|-----------------------|-----|-----------------------|-----|----------------|--------|
| GAM-A-AF | 001 | Parcel C Rad Sampling | | Eu-154 | |
| | | Parcel C Rad Sampling | | K-40 | |
| | | Parcel C Rad Sampling | | Pa-234 | |
| | | Parcel C Rad Sampling | | Pb-210 | |
| | | Parcel C Rad Sampling | | Pb-212 | |
| | | Parcel C Rad Sampling | | Pb-214 | |
| | | Parcel C Rad Sampling | | Ra-226 | |
| | | Parcel C Rad Sampling | | Ra-228 | |
| | | Parcel C Rad Sampling | | Th-234 | |
| | | Parcel C Rad Sampling | | TI-208 | |
| | | Parcel C Rad Sampling | | U-235 | |
| | | Parcel C Rad Sampling | | U-238 | |
| | | GAM-A-AF | 002 | uCi | filter |
| Group | | | | Analyte | |
| Parcel C Rad Sampling | | | | Ac-228 | |
| Parcel C Rad Sampling | | | | Am-241 | |
| Parcel C Rad Sampling | | | | Bi-212 | |
| Parcel C Rad Sampling | | | | Bi-214 | |
| Parcel C Rad Sampling | | | | Co-60 | |
| Parcel C Rad Sampling | | | | Cs-137 | |
| Parcel C Rad Sampling | | | | Eu-152 | |
| Parcel C Rad Sampling | | | | Eu-154 | |
| Parcel C Rad Sampling | | | | K-40 | |
| Parcel C Rad Sampling | | | | Pa-234 | |
| Parcel C Rad Sampling | | | | Pb-210 | |
| Parcel C Rad Sampling | | | | Pb-212 | |
| Parcel C Rad Sampling | | | | Pb-214 | |
| Parcel C Rad Sampling | | | | Ra-226 | |
| Parcel C Rad Sampling | | | | Ra-228 | |
| Parcel C Rad Sampling | | | | Th-234 | |
| Parcel C Rad Sampling | | | | TI-208 | |
| Parcel C Rad Sampling | | | | U-235 | |
| Parcel C Rad Sampling | | U-238 | | | |

| | | | | | | |
|-----------------------|-----|-----------------------|--------|----------------|----|--|
| GAM-A-AF | 003 | uCi | filter | N/A | 19 | |
| | | Group | | Analyte | | |
| | | Parcel C Rad Sampling | | Ac-228 | | |
| | | Parcel C Rad Sampling | | Am-241 | | |
| | | Parcel C Rad Sampling | | Bi-212 | | |
| | | Parcel C Rad Sampling | | Bi-214 | | |
| | | Parcel C Rad Sampling | | Co-60 | | |
| | | Parcel C Rad Sampling | | Cs-137 | | |
| | | Parcel C Rad Sampling | | Eu-152 | | |
| | | Parcel C Rad Sampling | | Eu-154 | | |
| | | Parcel C Rad Sampling | | K-40 | | |
| | | Parcel C Rad Sampling | | Pa-234 | | |
| | | Parcel C Rad Sampling | | Pb-210 | | |
| | | Parcel C Rad Sampling | | Pb-212 | | |
| | | Parcel C Rad Sampling | | Pb-214 | | |
| | | Parcel C Rad Sampling | | Ra-226 | | |
| | | Parcel C Rad Sampling | | Ra-228 | | |
| | | Parcel C Rad Sampling | | Th-234 | | |
| | | Parcel C Rad Sampling | | TI-208 | | |
| Parcel C Rad Sampling | | U-235 | | | | |
| Parcel C Rad Sampling | | U-238 | | | | |
| GPC-SR90-AF | 001 | uCi | filter | N/A | 1 | |
| | | Group | | Analyte | | |
| Parcel C Rad Sampling | | Sr-90 | | | | |
| GPC-SR90-AF | 002 | uCi | filter | N/A | 1 | |
| | | Group | | Analyte | | |
| Parcel C Rad Sampling | | Sr-90 | | | | |
| GPC-SR90-AF | 003 | uCi | filter | N/A | 1 | |
| | | Group | | Analyte | | |
| Parcel C Rad Sampling | | Sr-90 | | | | |

PALA Sample Receipt Inspection Form

Client Name: GES

SDG: ARS1-23-2208

Sample Custodia: [REDACTED] Survey Start Date: 10-4-23 Survey Start Time: 10:45
 Thermometer ID: E1054012261 Calibration Due Date: 1-12-24 pH Paper Lot#: NA
 Exposure Rate Meter + Probe Unit ID: 330334 Calibration Due Date: 3-21-24 Background: 5 μ R/hr
 Count Rate Meter + Probe Unit ID: 104861 Calibration Due Date: 3-21-24 Background: 20 cpm
 Delivery Type (circle one): Direct Lock Box Commercial Carrier: Fed Ex Total # of ESCs: 1

*True temperature is recorded which includes any applicable correction factors.

| External Shipping Container Tracking: | Exposure Rate (μ R/hr) (limit <500 μ R/hr) | Max External Swipe Counts (cpm) | Max Internal Swipe Counts (cpm) | ESC True Temps* ($^{\circ}$ C) | TRAX Matrix ID (circle all that apply): (See Section 4.3 of SOP) | | | |
|---------------------------------------|---|---------------------------------|---------------------------------|---------------------------------|--|-----------------------------|--|-----------------------------|
| A: <u>77399460921</u> | <u>5</u> | <u>20</u> | <u>20</u> | <u>—</u> | <input type="checkbox"/> AQ | <input type="checkbox"/> WD | <input type="checkbox"/> WG | <input type="checkbox"/> WO |
| B: _____ | _____ | _____ | _____ | _____ | <input type="checkbox"/> WS | <input type="checkbox"/> WW | <input type="checkbox"/> SI | <input type="checkbox"/> UR |
| C: _____ | _____ | _____ | _____ | _____ | <input type="checkbox"/> SO | <input type="checkbox"/> OL | <input type="checkbox"/> BI | <input type="checkbox"/> VG |
| D: _____ | _____ | _____ | _____ | _____ | <input type="checkbox"/> WP | <input type="checkbox"/> SM | <input checked="" type="checkbox"/> AF | |
| E: _____ | _____ | _____ | _____ | _____ | | | | |
| F: _____ | _____ | _____ | _____ | _____ | | | | |

Visual Inspection: (Circle response)

External Shipping Container

Good Condition with no Leaks or Tears: Yes No

Marked Radioactive: Yes No

UN2910: Yes No

Security Seals: Yes No

If yes, intact?: Yes No N/A

Internal Shipping Container

COC's Present: Yes No

Well packaged container with no signs of leakage: Yes No

COC/Sample Inspection (Circle response)

Sample Containers in good condition: Yes No

No spills or leaks: Yes No

Marked Radioactive: Yes No

Durable labels w/indelible ink: Yes No

COC relinquished/received correctly: Yes No

Adequate volume/filled correctly: Yes No

Hold Time sufficient for analysis: Yes No

For VOC/Radon, Head space? Yes No N/A

If yes, <6mm? Yes No N/A

of containers received matches # on COC: Yes No

Samples received on ice? Yes No No

Type (circle one): Bagged Ice Loose Ice Blue Ice N/A

Comments: _____

ORIGIN ID: JCCA
[REDACTED]
200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 19SEP23
ACTWGT: 1.00 LB
CAD: 254128867/INET4640

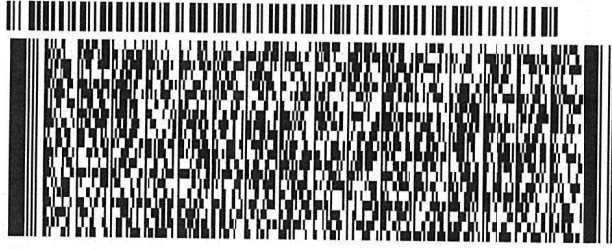
BILL SENDER

TO [REDACTED]
ARS ALEUT ANALYTICAL, LLC
2609 NORTH RIVER ROAD

PORT ALLEN LA 70767

(225) 381-2991 REF: J31000.600 02.04.05
INV: DEPT:
PO:

563J448B3519/AE3



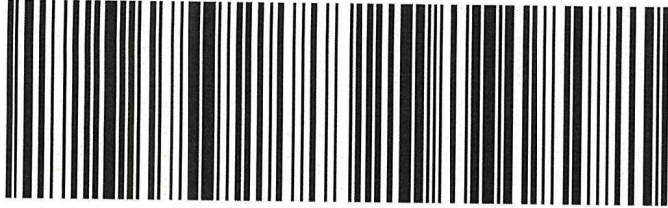
J23312073101uv

WED - 20 SEP 5:00P
STANDARD OVERNIGHT

TRK# 7733 9946 0921
0201

XN OPLA

70767
LA-US MSY



After printing this label:

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

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Built Environment Testing
Analytics

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

October 19, 2023


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

Laboratory Workorder ID: B284043

Client Project ID: J310000600 PARCEL C HUNTERS PT

Received: October 11, 2023

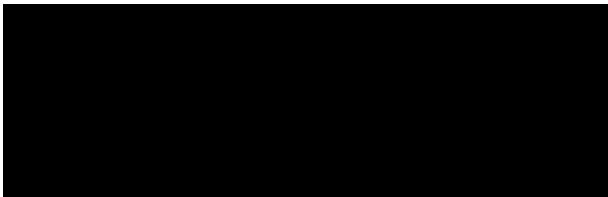
Reported: October 19, 2023

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

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

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

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



, CIH
Technical Director

Enclosures



Built Environment Testing
Analytics

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

Final Report

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

Customer: PARCELC1
Attention: [REDACTED]
PO Number J310000600-019

Date Received: 10/11/23
Client Project ID J310000600 PARCEL C
HUNTERS PT

| | | | | |
|--------------------|------------------------|---------|------------------------------|---------------------------------|
| Lab ID: B284043001 | Sample ID: PM042523-51 | FIELDQC | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/02/2023 8:00 AM |
|--------------------|------------------------|---------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|--------|-----------------|-------|------|---------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 0 L | 1000 ug | | | 2900 ug | -- |

| | | | | |
|--------------------|-------------------------|---------|------------------------------|---------------------------------|
| Lab ID: B284043002 | Sample ID: TSP042523-52 | FIELDQC | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/02/2023 8:00 AM |
|--------------------|-------------------------|---------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|--------|-----------------|-------|------|---------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 0 L | 1000 ug | | | 2700 ug | -- |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 0 L | 14 ug | | | < 14 ug | -- |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 0 L | 98 ug | | | < 98 ug | -- |

| | | | | |
|--------------------|------------------------|-------|------------------------------|---------------------------------|
| Lab ID: B284043003 | Sample ID: PM042523-53 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/03/2023 6:47 AM |
|--------------------|------------------------|-------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 1657750 L | 1000 ug | | | 20500 ug | 12 ug/M3 |



Final Report

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043004 | Sample ID: TSP042523-54 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/03/2023 6:47 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 1655090 L | 1000 ug | | | 38800 ug | 23 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 1655090 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 1655090 L | 98 ug | | | < 98 ug | < 0.059 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043005 | Sample ID: PM042523-55 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/03/2023 6:55 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 1634310 L | 1000 ug | | | 29000 ug | 18 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043006 | Sample ID: TSP042523-56 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/03/2023 6:55 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 1732090 L | 1000 ug | | | 45800 ug | 26 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 1732090 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 1732090 L | 98 ug | | | < 98 ug | < 0.057 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043007 | Sample ID: PM042523-57 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/04/2023 6:52 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 1666820 L | 1000 ug | | | 29600 ug | 18 ug/M3 |



Final Report

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043008 | Sample ID: TSP042523-58 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/04/2023 6:52 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 1658870 L | 1000 ug | | | 61200 ug | 37 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 1658870 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 1658870 L | 98 ug | | | < 98 ug | < 0.059 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043009 | Sample ID: PM042523-59 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/04/2023 7:02 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 1652280 L | 1000 ug | | | 35700 ug | 22 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043010 | Sample ID: TSP042523-60 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/04/2023 7:02 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 1751400 L | 1000 ug | | | 61300 ug | 35 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 1751400 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 1751400 L | 98 ug | | | < 98 ug | < 0.056 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043011 | Sample ID: PM042523-61 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 6:52 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 1675090 L | 1000 ug | | | 40000 ug | 24 ug/M3 |



Final Report

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043012 | Sample ID: TSP042523-62 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 6:52 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 1661940 L | 1000 ug | | | 87800 ug | 53 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 1661940 L | 14 ug | | | 17.7 ug | 0.011 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 1661940 L | 98 ug | | | < 98 ug | < 0.059 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043013 | Sample ID: PM042523-63 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 7:01 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 1654750 L | 1000 ug | | | 44100 ug | 27 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043014 | Sample ID: TSP042523-64 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 7:01 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 1754940 L | 1000 ug | | | 83000 ug | 47 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 1754940 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 1754940 L | 98 ug | | | < 98 ug | < 0.056 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043015 | Sample ID: PM042523-65 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 2:32 PM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 530660 L | 1000 ug | | | 15300 ug | 29 ug/M3 |



Final Report

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043016 | Sample ID: TSP042523-66 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 2:32 PM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 529980 L | 1000 ug | | | 32300 ug | 61 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 529980 L | 14 ug | | | < 14 ug | < 0.026 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 529980 L | 98 ug | | | < 98 ug | < 0.185 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043017 | Sample ID: PM042523-67 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 2:43 PM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/12/23 | 531180 L | 1000 ug | | | 16500 ug | 31 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B284043018 | Sample ID: TSP042523-68 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/05/2023 2:43 PM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/12/23 | 566190 L | 1000 ug | | | 28700 ug | 51 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/16/23 | 566190 L | 14 ug | | | < 14 ug | < 0.025 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/16/23 | 566190 L | 98 ug | | | < 98 ug | < 0.173 ug/M3 |



Built Environment Testing
Analytics

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

Final Report

General Laboratory Comments

Abbreviations:

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

**CHAIN-OF-CUSTODY
RECORD**

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

COC # 101023AIRC



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | |
|------------|------------------------|------------------|-----------------|---------------------|----------|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | 10/10/23 | Code | Matrix |
| | | | | | | A | Air |
| Equipment: | | | | | | AQ | Air Quality Control Matrix |
| | | | | | | Code | Container/Preservative |
| | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | 1 | 1 | 1 | | | | | | |
|--------------------------------|--------------|------|------------|------------|-------------|-------------|----------------|------|--------|--------------|--|--|--|--|
| Sample ID | Matrix | Date | Time | Samp Init. | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments | | | | |
| 1 | PM042523-51 | AQ | 10/02/2023 | 0800 | FIELDQC | FB1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 2 | TSP042523-52 | AQ | 10/02/2023 | 0800 | FIELDQC | FB2 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 3 | PM042523-53 | A | 10/03/2023 | 0647 | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 4 | TSP042523-54 | A | 10/03/2023 | 0647 | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 5 | PM042523-55 | A | 10/03/2023 | 0655 | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 6 | TSP042523-56 | A | 10/03/2023 | 0655 | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |

Turnaround Time: 5 days

| Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|----------|------|--------------------------|----------|-------|---|
| 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 10/10/2023 / FEDEX / 7735 0440 5496 |
| | | | 10/11/23 | 11:45 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | 10/11/23 Custody Seal Intact 11:45 |

**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # [REDACTED] 101023AIRC



[REDACTED] [REDACTED] Parkway, Suite 550, Tempe, Arizona 85282

| | | |
|--|--|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | |
|------------|--|------|--------------------------------|
| Comments: | Analytical Test Method | Code | Matrix |
| | | A | Air |
| Equipment: | CAAIR - Air PM10 N0500 - Air TSP SW6010B - Air Pb Mn | Code | Container/Preservative |
| | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | | |
|--------------------------------|--------------|------|------------|------------|--|---|---|---|--|-------------|-------------|----------------|------|--------|--------------|
| | | | | | | 1 | 1 | 1 | | | | | | | |
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
| 1 | PM042523-57 | A | 10/04/2023 | 0652 | [REDACTED] | X | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 2 | TSP042523-58 | A | 10/04/2023 | 0652 | [REDACTED] | | X | X | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 3 | PM042523-59 | A | 10/04/2023 | 0702 | [REDACTED] | X | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP042523-60 | A | 10/04/2023 | 0702 | [REDACTED] | | X | X | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| Turnaround Time: 5 days | | | | | | | | | | | | | | | |

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|--|----------|------|--|----------|-------|---|
| [REDACTED] | 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 10/10/2023 / FEDEX / 7735 0440 5496 |
| | | | [REDACTED] | 10/11/23 | 11:45 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 10/11/23 Custody 11:45 Seal Intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # [REDACTED] **101023AIRC**



B284043

| | | |
|---|--|---------------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | | |
|-------------------|-------------------------------|------------------|-----------------|---------------------|------------|----------|-------------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | [REDACTED] | 10/10/23 | Code | Matrix |
| | | | | | | | A | Air |
| Equipment: | | | | | | | Code | Container/Preservative |
| | | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | | 1 | 1x Envelope, None |

| | | | | | | | | | | | | | | | |
|--------------------------------|------------------|---------------|-------------|-------------|-------------------|---|---|---|--|--------------------|--------------------|-----------------------|--------|---------------|-----------------|
| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | Sample ID | Matrix | Date | Time | Samp Init. | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
| | | | | | | | | | | | | Top | Bottom | | |
| 1 | PM042523-61 | A | 10/05/2023 | 0652 | [REDACTED] | X | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 2 | TSP042523-62 | A | 10/05/2023 | 0652 | [REDACTED] | | X | X | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 3 | PM042523-63 | A | 10/05/2023 | 0701 | [REDACTED] | X | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP042523-64 | A | 10/05/2023 | 0701 | [REDACTED] | | X | X | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| Turnaround Time: 5 days | | | | | | | | | | | | | | | |

| | | | | | | |
|-------------------------------------|-------------|-------------|---------------------------------|-------------|-------------|--|
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
| [REDACTED] | 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 10/10/2023 / FEDEX / 7735 0440 5496 |
| | | | [REDACTED] | 10/11/23 | 11:45 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | [REDACTED] 10/11/23 Custody 11:45 Seal Intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # [REDACTED] 101023AIRC



| | | |
|---|--|---------------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | |
|-------------------|-------------------------------|------------------|-----------------|---------------------|----------|-------------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | 10/10/23 | Code | Matrix |
| | | | | | | A | Air |
| Equipment: | | | | | | Code | Container/Preservative |
| | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | | |
|--------------------------------|--------------|------|------------|------------|--|---|---|---|--|-------------|-------------|--------------------------------|------|--------|--------------|
| | | | | | | 1 | 1 | 1 | | | | | | | |
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | Location ID | Sample Type | Depth (ft bgs) Top - Bottom | | Cooler | Comments |
| 1 | PM042523-65 | A | 10/05/2023 | 1432 | [REDACTED] | X | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 2 | TSP042523-66 | A | 10/05/2023 | 1432 | [REDACTED] | | X | X | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 3 | PM042523-67 | A | 10/05/2023 | 1443 | [REDACTED] | X | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP042523-68 | A | 10/05/2023 | 1443 | [REDACTED] | | X | X | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| Turnaround Time: 5 days | | | | | | | | | | | | | | | |

| | | | | | | |
|--|-------------|-------------|--|-------------|-------------|--|
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
| [REDACTED] | 10/10/23 | 1300 | FEDEX | 10/10/23 | 1300 | Shipping Date: 10/10/2023 / FEDEX / 7735 0440 5496 |
| | | | [REDACTED] | 10/11/23 | 11:45 | |
| | | | | | | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 10/11/23 Custody 11:45 Seal Intact |

COC # [REDACTED] 101023AIRC



B284043

| | | | | | |
|--|--|--|--------------------------------|--|--|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | | | Event: Parcel C Air Monitoring | | |
| Project Number: J310000600 | | | | | |
| WBS Code: J310000600 | | | | | |

| | Sample ID | Matrix | Date | Time | Comments |
|----|--------------|--------|------------|------|----------------------|
| 1 | PM042523-51 | AQ | 10/02/2023 | 0800 | VOLUME (M3): |
| 2 | TSP042523-52 | AQ | 10/02/2023 | 0800 | VOLUME (M3): |
| 3 | PM042523-53 | A | 10/03/2023 | 0647 | VOLUME (M3): 1657.75 |
| 4 | TSP042523-54 | A | 10/03/2023 | 0647 | VOLUME (M3): 1655.09 |
| 5 | PM042523-55 | A | 10/03/2023 | 0655 | VOLUME (M3): 1634.31 |
| 6 | TSP042523-56 | A | 10/03/2023 | 0655 | VOLUME (M3): 1732.09 |
| 7 | PM042523-57 | A | 10/04/2023 | 0652 | VOLUME (M3): 1666.82 |
| 8 | TSP042523-58 | A | 10/04/2023 | 0652 | VOLUME (M3): 1658.87 |
| 9 | PM042523-59 | A | 10/04/2023 | 0702 | VOLUME (M3): 1652.28 |
| 10 | TSP042523-60 | A | 10/04/2023 | 0702 | VOLUME (M3): 1751.40 |
| 11 | PM042523-61 | A | 10/05/2023 | 0652 | VOLUME (M3): 1675.09 |
| 12 | TSP042523-62 | A | 10/05/2023 | 0652 | VOLUME (M3): 1661.94 |
| 13 | PM042523-63 | A | 10/05/2023 | 0701 | VOLUME (M3): 1654.75 |
| 14 | TSP042523-64 | A | 10/05/2023 | 0701 | VOLUME (M3): 1754.94 |
| 15 | PM042523-65 | A | 10/05/2023 | 1432 | VOLUME (M3): 530.66 |
| 16 | TSP042523-66 | A | 10/05/2023 | 1432 | VOLUME (M3): 529.98 |
| 17 | PM042523-67 | A | 10/05/2023 | 1443 | VOLUME (M3): 531.18 |
| 18 | TSP042523-68 | A | 10/05/2023 | 1443 | VOLUME (M3): 566.19 |



B 2 8 4 0 4 3

| Sample ID | Cubic Meter | Volume (L) |
|------------------|--------------------|-------------------|
| PM042523-53 | 1657.75 | 1657750 |
| TSP042523-54 | 1655.09 | 1655090 |
| PM042523-55 | 1634.31 | 1634310 |
| TSP042523-56 | 1732.09 | 1732090 |
| PM042523-57 | 1666.82 | 1666820 |
| TSP042523-58 | 1658.87 | 1658870 |
| PM042523-59 | 1652.28 | 1652280 |
| TSP042523-60 | 1751.4 | 1751400 |
| PM042523-61 | 1675.09 | 1675090 |
| TSP042523-62 | 1661.94 | 1661940 |
| PM042523-63 | 1654.75 | 1654750 |
| TSP042523-64 | 1754.94 | 1754940 |
| PM042523-65 | 530.66 | 530660 |
| TSP042523-66 | 529.98 | 529980 |
| PM042523-67 | 531.18 | 531180 |
| TSP042523-68 | 566.19 | 566190 |



Level 2 QA/QC Summary Report

Work Order #: B284043

Report Date: 10/19/2023

Batch ID: ICP231010C Analysis Date: 10/16/2023

Media:: 8X10PW GFF Preparation Date 10/16/2023

Blank Spike Results

| QC ID | Parameter | Percent Recovery | | | RPD | Limit |
|----------------|-----------|------------------|------|------------|-----|-------|
| | | LCS | LCSD | Acceptance | | |
| LCS ICP231010C | Lead | 92 | 91 | 75-125 | 1.1 | 20 |
| LCS ICP231010C | Manganese | 95 | 95 | 75-125 | 0.3 | 20 |

Method Blank Results


| QC ID | Parameter | Result | RL | Units |
|----------------|-----------|--------|----|-------|
| LMB ICP231010C | Lead | < 14 | 14 | ug |
| LMB ICP231010C | Manganese | < 98 | 98 | ug |



Built Environment Testing
Analytics

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

October 24, 2023


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

Laboratory Workorder ID: B291104

Client Project ID: J310000600
Received: October 18, 2023
Reported: October 24, 2023

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

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

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

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


, CIH
Technical Director

Enclosures



Final Report

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

Customer: PARCELC1
Attention: XXXXXXXXXX
PO Number J310000600-019

Date Received: 10/18/23
Client Project ID J310000600

| | | | | |
|--------------------|------------------------|---------|------------------------------|---------------------------------|
| Lab ID: B291104001 | Sample ID: PM051623-25 | FIELDQC | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/09/2023 8:00 AM |
|--------------------|------------------------|---------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|--------|-----------------|-------|------|---------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 0 L | 1000 ug | | | 2800 ug | -- |

| | | | | |
|--------------------|-------------------------|---------|------------------------------|---------------------------------|
| Lab ID: B291104002 | Sample ID: TSP051923-06 | FIELDQC | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/09/2023 8:00 AM |
|--------------------|-------------------------|---------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|--------|-----------------|-------|------|---------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 0 L | 1000 ug | | | 1900 ug | -- |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 0 L | 14 ug | | | < 14 ug | -- |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 0 L | 98 ug | | | < 98 ug | -- |

| | | | | |
|--------------------|------------------------|-------|------------------------------|---------------------------------|
| Lab ID: B291104003 | Sample ID: PM051923-07 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/10/2023 6:47 AM |
|--------------------|------------------------|-------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 1600720 L | 1000 ug | | | 10700 ug | 7 ug/M3 |

| | | | | |
|--------------------|-------------------------|-------|------------------------------|---------------------------------|
| Lab ID: B291104004 | Sample ID: TSP051923-08 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/10/2023 6:47 AM |
|--------------------|-------------------------|-------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|---------|--------|---------------|--------|-----------------|-------|------|-------|---------------|
|---------|--------|---------------|--------|-----------------|-------|------|-------|---------------|



Final Report

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104004 | Sample ID: TSP051923-08 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/10/2023 6:47 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 1601090 L | 1000 ug | | | 21400 ug | 13 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 1601090 L | 14 ug | | | < 14 ug | < 0.009 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 1601090 L | 98 ug | | | < 98 ug | < 0.061 ug/M3 |

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|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104005 | Sample ID: PM051923-09 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/10/2023 6:55 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 1610130 L | 1000 ug | | | 20600 ug | 13 ug/M3 |

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104006 | Sample ID: TSP051923-10 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/10/2023 6:55 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 1698840 L | 1000 ug | | | 25000 ug | 15 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 1698840 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 1698840 L | 98 ug | | | < 98 ug | < 0.058 ug/M3 |

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|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104007 | Sample ID: PM072823-01 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/11/2023 6:54 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 1648790 L | 1000 ug | | | 40200 ug | 24 ug/M3 |



Final Report

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104008 | Sample ID: TSP072823-02 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/11/2023 6:54 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 1644700 L | 1000 ug | | | 21000 ug | 13 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 1644700 L | 14 ug | | | < 14 ug | < 0.009 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 1644700 L | 98 ug | | | < 98 ug | < 0.06 ug/M3 |

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|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104009 | Sample ID: PM072823-03 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/11/2023 7:03 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 1659430 L | 1000 ug | | | 55100 ug | 33 ug/M3 |

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104010 | Sample ID: TSP072823-04 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/11/2023 7:03 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 1762080 L | 1000 ug | | | 29300 ug | 17 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 1762080 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 1762080 L | 98 ug | | | < 98 ug | < 0.056 ug/M3 |

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|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104011 | Sample ID: PM072823-05 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 6:50 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 1633440 L | 1000 ug | | | 32200 ug | 20 ug/M3 |



Final Report

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104012 | Sample ID: TSP072823-06 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 6:50 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 1626580 L | 1000 ug | | | 67200 ug | 41 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 1626580 L | 14 ug | | | < 14 ug | < 0.009 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 1626580 L | 98 ug | | | < 98 ug | < 0.06 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104013 | Sample ID: PM072823-07 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 7:01 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 1620220 L | 1000 ug | | | 36500 ug | 23 ug/M3 |

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104014 | Sample ID: TSP072823-08 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 7:01 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 1699400 L | 1000 ug | | | 58500 ug | 34 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 1699400 L | 14 ug | | | < 14 ug | < 0.008 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 1699400 L | 98 ug | | | < 98 ug | < 0.058 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104015 | Sample ID: PM072823-09 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 3:10 PM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 570340 L | 1000 ug | | | 10500 ug | 18 ug/M3 |



Final Report

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|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104016 | Sample ID: TSP072823-10 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 3:10 PM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 569080 L | 1000 ug | | | 26000 ug | 46 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 569080 L | 14 ug | | | < 14 ug | < 0.025 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 569080 L | 98 ug | | | < 98 ug | < 0.172 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104017 | Sample ID: PM072823-11 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 2:54 PM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|----------|-----------------|-------|------|---------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/19/23 | 539400 L | 1000 ug | | | 9100 ug | 17 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B291104018 | Sample ID: TSP072823-12 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/12/2023 2:54 PM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|---------------------------|---------------|----------|-----------------|-------|------|----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/19/23 | 574500 L | 1000 ug | | | 16300 ug | 28 ug/M3 |
| Lead | 40 CFR Part 50 Appendix G | 10/23/23 | 574500 L | 14 ug | | | < 14 ug | < 0.024 ug/M3 |
| Manganese | 40 CFR Part 50 Appendix G | 10/23/23 | 574500 L | 98 ug | | | < 98 ug | < 0.171 ug/M3 |



Built Environment Testing
Analytics

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

Final Report

General Laboratory Comments

Abbreviations:

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

**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282

COC # [REDACTED] 101723AIRC



B291104

| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | | | | | | | | | | | | |
|------------|--------------------------------|------------------|-----------------|---------------------|---|------|--------|---|-----|----|----------------------------|--|------|------------------------|---|--------------------------------|---|-------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | <table border="1"> <tr><td>Code</td><td>Matrix</td></tr> <tr><td>A</td><td>Air</td></tr> <tr><td>AQ</td><td>Air Quality Control Matrix</td></tr> </table> | Code | Matrix | A | Air | AQ | Air Quality Control Matrix | <table border="1"> <tr><td>Code</td><td>Container/Preservative</td></tr> <tr><td>1</td><td>1x 250-mL Plastic, 4 Degrees C</td></tr> <tr><td>1</td><td>1x Envelope, None</td></tr> </table> | Code | Container/Preservative | 1 | 1x 250-mL Plastic, 4 Degrees C | 1 | 1x Envelope, None |
| | | | | | | Code | Matrix | | | | | | | | | | | |
| A | Air | | | | | | | | | | | | | | | | | |
| AQ | Air Quality Control Matrix | | | | | | | | | | | | | | | | | |
| Code | Container/Preservative | | | | | | | | | | | | | | | | | |
| 1 | 1x 250-mL Plastic, 4 Degrees C | | | | | | | | | | | | | | | | | |
| 1 | 1x Envelope, None | | | | | | | | | | | | | | | | | |
| Equipment: | | | | | | | | | | | | | | | | | | |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | |
|--------------------------------|--------------|------|------------|------------|--|---|---|---|--|-------------|-------------|--------------------------------|--------|--------------|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | Location ID | Sample Type | Depth (ft bgs) Top - Bottom | Cooler | Comments |
| 1 | PM051623-25 | AQ | 10/09/2023 | 0800 | [REDACTED] | X | | | | FIELDQC | FB1 | 0.00 0.00 | 1 | |
| 2 | TSP051923-06 | AQ | 10/09/2023 | 0800 | [REDACTED] | | X | X | | FIELDQC | FB1 | 0.00 0.00 | 1 | |
| 3 | PM051923-07 | A | 10/10/2023 | 0647 | [REDACTED] | X | | | | MSC01 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |
| 4 | TSP051923-08 | A | 10/10/2023 | 0647 | [REDACTED] | | X | X | | MSC01 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |
| 5 | PM051923-09 | A | 10/10/2023 | 0655 | [REDACTED] | X | | | | MSC02 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |
| 6 | TSP051923-10 | A | 10/10/2023 | 0655 | [REDACTED] | | X | X | | MSC02 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|--|----------|------|--|----------|-------|---|
| [REDACTED] | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | | [REDACTED] | 10/18/23 | 14:55 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | [REDACTED] 10/18/23 Custody Seal Intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # 101723AIRC



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | |
|------------|------------------------|------------------|-----------------|---------------------|----------|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | 10/17/23 | Code | Matrix |
| | | | | | | A | Air |
| Equipment: | | | | | | Code | Container/Preservative |
| | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | 1 | 1 | 1 | | | | | | |
|--------------------------------|-------------|------|------------|------------|-------------|-------------|----------------|------|--------|--------------|--|--|--|--|
| Sample ID | Matrix | Date | Time | Samp Init. | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments | | | | |
| 1 | PM072823-01 | A | 10/11/2023 | 0654 | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 2 | PM072823-02 | A | 10/11/2023 | 0654 | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 3 | PM072823-03 | A | 10/11/2023 | 0703 | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 4 | PM072823-04 | A | 10/11/2023 | 0703 | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|-------|---|
| | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | | | 10/18/23 | 14:55 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 10/18/23 Custody 14:55 Seal Intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # **101723AIRC**



| | | |
|---|--|---------------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | | | | | | | | | | | | | |
|-------------------|------------------------|------------------|-----------------|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | Code | Matrix |
| | | | | | | | | | | | | | | | | | | A | Air |
| Equipment: | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | Code | Container/Preservative |
| | | | | | | | | | | | | | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | | | | | | | | | | | | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | |
|--------------------------------|--------------|------|------------|------------|------------|---|---|---|--|--|--|--|-------------|-------------|----------------|------|--------------|--------|--------------|--|--|--|--|--|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Top - Bottom | Cooler | Comments | | | | | |
| 1 | PM072823-05 | A | 10/12/2023 | 0650 | [REDACTED] | X | | | | | | | MSC01 | N1 | 0.00 | 0.00 | | 1 | VOLUME (M3): | | | | | |
| 2 | TSP072823-06 | A | 10/12/2023 | 0650 | [REDACTED] | | X | X | | | | | MSC01 | N1 | 0.00 | 0.00 | | 1 | VOLUME (M3): | | | | | |
| 3 | PM072823-07 | A | 10/12/2023 | 0701 | [REDACTED] | X | | | | | | | MSC02 | N1 | 0.00 | 0.00 | | 1 | VOLUME (M3): | | | | | |
| 4 | TSP072823-08 | A | 10/12/2023 | 0701 | [REDACTED] | | X | X | | | | | MSC02 | N1 | 0.00 | 0.00 | | 1 | VOLUME (M3): | | | | | |
| Turnaround Time: 5 days | | | | | | | | | | | | | | | | | | | | | | | | |

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|-------|---|
| [REDACTED] | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | | [REDACTED] | 10/18/23 | 14:55 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | [REDACTED] 10/18/23 Custody 14:55 Seal Intact |

CHAIN-OF-CUSTODY RECORD

Gilbane Federal

1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282

COC # [REDACTED] 101723AIRC



B291104



| | | |
|---|--|---------------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [REDACTED] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | | | | | | | | |
|-------------------|-------------------------------|------------------|-----------------|----------------------|--|--|--|--|--|--|--|--|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Min | | | | | | | | | Code | Matrix |
| | | | | | | | | | | | | | A | Air |
| Equipment: | | | | | | | | | | | | | Code | Container/Preservative |
| | | | | | | | | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | | | | | | | | 1 | 1x Envelope, None |

| | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|--|--|--|--|--|--|--|--|--|--|--|
| Event: Parcel C Air Monitoring | 1 | 1 | 1 | | | | | | | | | | | |
|--------------------------------|---|---|---|--|--|--|--|--|--|--|--|--|--|--|

| | Sample ID | Matrix | Date | Time | Samp Init. | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
|---|--------------|--------|------------|------|--|---|---|---|--|--|-------------|-------------|----------------|--------|--------|--------------|
| | | | | | | | | | | | | | Top | Bottom | | |
| 1 | PM072823-09 | A | 10/12/2023 | 1510 | [REDACTED] | X | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 2 | TSP072823-10 | A | 10/12/2023 | 1510 | [REDACTED] | | X | X | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 3 | PM072823-11 | A | 10/12/2023 | 1454 | [REDACTED] | X | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP072823-12 | A | 10/12/2023 | 1454 | [REDACTED] | | X | X | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|--|----------|------|--|----------|-------|---|
| [REDACTED] | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | | [REDACTED] | 10/18/23 | 14:55 | |
| | | | | | | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | [REDACTED] 10/18/23 Custody Seal Intact |

COC # ████101723AIRC



B291104

| | |
|--|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | |
| WBS Code: J310000600 | |

| | Sample ID | Matrix | Date | Time | Comments |
|----|--------------|--------|------------|------|----------------------|
| 1 | PM051623-25 | AQ | 10/09/2023 | 0800 | |
| 2 | TSP051923-06 | AQ | 10/09/2023 | 0800 | |
| 3 | PM051923-07 | A | 10/10/2023 | 0647 | VOLUME (M3): 1600.72 |
| 4 | TSP051923-08 | A | 10/10/2023 | 0647 | VOLUME (M3): 1601.09 |
| 5 | PM051923-09 | A | 10/10/2023 | 0655 | VOLUME (M3): 1610.13 |
| 6 | TSP051923-10 | A | 10/10/2023 | 0655 | VOLUME (M3): 1698.84 |
| 7 | PM072823-01 | A | 10/11/2023 | 0654 | VOLUME (M3): 1648.79 |
| 8 | TSP072823-02 | A | 10/11/2023 | 0654 | VOLUME (M3): 1644.70 |
| 9 | PM072823-03 | A | 10/11/2023 | 0703 | VOLUME (M3): 1659.43 |
| 10 | TSP072823-04 | A | 10/11/2023 | 0703 | VOLUME (M3): 1762.08 |
| 11 | PM072823-05 | A | 10/12/2023 | 0650 | VOLUME (M3): 1633.44 |
| 12 | TSP072823-06 | A | 10/12/2023 | 0650 | VOLUME (M3): 1626.58 |
| 13 | PM072823-07 | A | 10/12/2023 | 0701 | VOLUME (M3): 1620.22 |
| 14 | TSP072823-08 | A | 10/12/2023 | 0701 | VOLUME (M3): 1699.40 |
| 15 | PM072823-09 | A | 10/12/2023 | 1510 | VOLUME (M3): 570.34 |
| 16 | TSP072823-10 | A | 10/12/2023 | 1510 | VOLUME (M3): 569.08 |
| 17 | PM072823-11 | A | 10/12/2023 | 1454 | VOLUME (M3): 539.40 |
| 18 | TSP072823-12 | A | 10/12/2023 | 1454 | VOLUME (M3): 574.50 |



B 2 9 1 1 0 4

| Sample ID | Cubic Meter | Volume (L) |
|------------------|--------------------|-------------------|
| PM051923-07 | 1600.72 | 1600720 |
| TSP051923-08 | 1601.09 | 1601090 |
| PM051923-09 | 1610.13 | 1610130 |
| TSP051923-10 | 1698.84 | 1698840 |
| PM072823-01 | 1648.79 | 1648790 |
| TSP072823-02 | 1644.7 | 1644700 |
| PM072823-03 | 1659.43 | 1659430 |
| TSP072823-04 | 1762.08 | 1762080 |
| PM072823-05 | 1633.44 | 1633440 |
| TSP072823-06 | 1626.58 | 1626580 |
| PM072823-07 | 1620.22 | 1620220 |
| TSP072823-08 | 1699.4 | 1699400 |
| PM072823-09 | 570.34 | 570340 |
| TSP072823-10 | 569.08 | 569080 |
| PM072823-11 | 539.4 | 539400 |
| TSP072823-12 | 574.5 | 574500 |

From: [REDACTED]
Sent: Wednesday, October 18, 2023 3:53 PM
To: [REDACTED]
Cc: Analytics - NoReply; [REDACTED]
Subject: RE: Questions about samples; B291-104

You don't often get email from [REDACTED] [Learn why this is important](#)

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

[REDACTED]

COC's attached with revised ID's on page 2. Thank you for bringing this to our attention.

Thanks

[REDACTED]

Chemist II
GES | MBE

[REDACTED]

GES-AIS.COM

From: [REDACTED]
Sent: Wednesday, October 18, 2023 12:38 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Questions about samples; B291-104

⚠ CAUTION: EXTERNAL SENDER *This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.*

Good Afternoon,

I am reaching out in regards to the project attached above. For page 2 of the COC, all of the samples begin with "PM" instead of alternating PM and TSP. The physical samples are correct and the cubic meter sheet is also correct. Can you please provide a revised COC for this project? Please reply at your earliest convenience.

All the best,

[Redacted]

Receiving Supervisor

Eurofins Built Environment Testing Analytics
10329 Stony Run Lane
Ashland, VA 23005

[Redacted]

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # 101723AIRC



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | |
|------------|------------------------|------|--------------------------------|
| Comments: | Analytical Test Method | Code | Matrix |
| | | A | Air |
| Equipment: | CAAIR - Air PM10 | AQ | Air Quality Control Matrix |
| | N0500 - Air TSP | Code | Container/Preservative |
| | SW6010B - Air Pb Mn | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | |
|--------------------------------|--------------|------|------------|------------|---|---|---|--|-------------|-------------|----------------|--------|--------|--------------|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
| | | | | | | | | | | | Top | Bottom | | |
| 1 | PM051623-25 | AQ | 10/09/2023 | 0800 | X | | | | FIELDQC | FB1 | 0.00 | 0.00 | 1 | |
| 2 | TSP051923-06 | AQ | 10/09/2023 | 0800 | | X | X | | FIELDQC | FB1 | 0.00 | 0.00 | 1 | |
| 3 | PM051923-07 | A | 10/10/2023 | 0647 | X | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP051923-08 | A | 10/10/2023 | 0647 | | X | X | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 5 | PM051923-09 | A | 10/10/2023 | 0655 | X | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 6 | TSP051923-10 | A | 10/10/2023 | 0655 | | X | X | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|-------|---|
| | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | | | 10/18/23 | 14:55 | |
| | | | | | | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 10/18/23 Custody 14:55 Seal Intact |

**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
1501 W Fountainhead Parkway, Suite 550. Tempe, Arizona 85282

COC # **101723AIRC**



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [Redacted] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | |
|------------|--|------|--------------------------------|
| Comments: | Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6010B - Air Pb Mn | Code | Matrix |
| | | A | Air |
| Equipment: | | Code | Container/Preservative |
| | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | |
|--------------------------------|--------|------------|------|------------|---|---|---|--|--|-------------|-------------|--------------------------------|--------|--------------|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | Location ID | Sample Type | Depth (ft bgs) Top - Bottom | Cooler | Comments |
| 1 | A | 10/11/2023 | 0654 | [Redacted] | X | | | | | MSC01 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |
| 2 | A | 10/11/2023 | 0654 | [Redacted] | | X | X | | | MSC01 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |
| 3 | A | 10/11/2023 | 0703 | [Redacted] | X | | | | | MSC02 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |
| 4 | A | 10/11/2023 | 0703 | [Redacted] | | X | X | | | MSC02 | N1 | 0.00 0.00 | 1 | VOLUME (M3): |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|-------|---|
| [Redacted] | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | | [Redacted] | 10/18/23 | 14:55 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | [Redacted] 10/18/23 Custody Seal Intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # **101723AIRC**



| | | |
|---|--|---------------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [Redacted] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | | | | | | | | | | | | | | |
|-------------------|------------------------|------------------|-----------------|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------------|-----------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | ND500 - Air TSP | SW6010B - Air Pb Mn | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | Code Matrix |
| | | | | | | | | | | | | | | | | | | | | A Air |
| Equipment: | | | | | | | | | | | | | | | | | | | | Code Container/Preservative |
| | | | | | | | | | | | | | | | | | | | | 1 1x 250-ml. Plastic, 4 Degrees C |
| | | | | | | | | | | | | | | | | | | | 1 1x Envelope, None | |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------|------|------------|------------|------------|---|---|--|--|--|--|-------------|-------------|----------------|--------|--------|--------------|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments |
| | | | | | | | | | | | | | | Top | Bottom | | |
| 1 | PM072823-05 | A | 10/12/2023 | 0650 | [Redacted] | X | | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 2 | TSP072823-06 | A | 10/12/2023 | 0650 | [Redacted] | X | X | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 3 | PM072823-07 | A | 10/12/2023 | 0701 | [Redacted] | X | | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP072823-08 | A | 10/12/2023 | 0701 | [Redacted] | X | X | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |

Turnaround Time: 5 days

| Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|----------|------|--------------------------|----------|-------|---|
| 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | [Redacted] | 10/18/23 | 14:55 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | [Redacted] | | | 10/18/23 Custody |
| | | [Redacted] | | | 14:55 Seal Intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # 101723AIRC



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | |
|------------|--|------|--------------------------------|
| Comments: | Analytical Test Method | Code | Matrix |
| | | A | Air |
| Equipment: | CAAIR - Air PM10 N0500 - Air TSP SW6010B - Air Pb Mn | Code | Container/Preservative |
| | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------|------|------------|------------|---|---|---|---|---|---|---|-------------|-------------|--------------------------------|--------|----------|--------------|
| Sample ID | Matrix | Date | Time | Samp Init. | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Location ID | Sample Type | Depth (ft bgs) Top - Bottom | Cooler | Comments | |
| 1 | PM072823-09 | A | 10/12/2023 | 1510 | X | | | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 2 | TSP072823-10 | A | 10/12/2023 | 1510 | | X | X | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 3 | PM072823-11 | A | 10/12/2023 | 1454 | X | | | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP072823-12 | A | 10/12/2023 | 1454 | | X | X | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|-------|---|
| | 10/17/23 | 1300 | FEDEX | 10/17/23 | 1300 | Shipping Date: 10/17/2023 / FEDEX / 7735 5878 2140 |
| | | | | 10/18/23 | 14:55 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 10/18/23 Custody 14:55 Seal Intact |

COC # [REDACTED] 101723AIRC



| | |
|--|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Event: Parcel C Air Monitoring |
| Project Number: J31000600 | |
| WBS Code: J31000600 | |

| | Sample ID | Matrix | Date | Time | Comments |
|----|--------------|--------|------------|------|----------------------|
| 1 | PM051623-25 | AQ | 10/09/2023 | 0800 | |
| 2 | TSP051923-06 | AQ | 10/09/2023 | 0800 | |
| 3 | PM051923-07 | A | 10/10/2023 | 0647 | VOLUME (M3): 1600.72 |
| 4 | TSP051923-08 | A | 10/10/2023 | 0647 | VOLUME (M3): 1601.09 |
| 5 | PM051923-09 | A | 10/10/2023 | 0655 | VOLUME (M3): 1610.13 |
| 6 | TSP051923-10 | A | 10/10/2023 | 0655 | VOLUME (M3): 1698.84 |
| 7 | PM072823-01 | A | 10/11/2023 | 0654 | VOLUME (M3): 1648.79 |
| 8 | TSP072823-02 | A | 10/11/2023 | 0654 | VOLUME (M3): 1644.70 |
| 9 | PM072823-03 | A | 10/11/2023 | 0703 | VOLUME (M3): 1659.43 |
| 10 | TSP072823-04 | A | 10/11/2023 | 0703 | VOLUME (M3): 1762.08 |
| 11 | PM072823-05 | A | 10/12/2023 | 0650 | VOLUME (M3): 1633.44 |
| 12 | TSP072823-06 | A | 10/12/2023 | 0650 | VOLUME (M3): 1626.58 |
| 13 | PM072823-07 | A | 10/12/2023 | 0701 | VOLUME (M3): 1620.22 |
| 14 | TSP072823-08 | A | 10/12/2023 | 0701 | VOLUME (M3): 1699.40 |
| 15 | PM072823-09 | A | 10/12/2023 | 1510 | VOLUME (M3): 570.34 |
| 16 | TSP072823-10 | A | 10/12/2023 | 1510 | VOLUME (M3): 569.08 |
| 17 | PM072823-11 | A | 10/12/2023 | 1454 | VOLUME (M3): 539.40 |
| 18 | TSP072823-12 | A | 10/12/2023 | 1454 | VOLUME (M3): 574.50 |



| Sample ID | Cubic Meter | Volume (L) |
|------------------|--------------------|-------------------|
| PM051923-07 | 1600.72 | 1600720 |
| TSP051923-08 | 1601.09 | 1601090 |
| PM051923-09 | 1610.13 | 1610130 |
| TSP051923-10 | 1698.84 | 1698840 |
| PM072823-01 | 1648.79 | 1648790 |
| TSP072823-02 | 1644.7 | 1644700 |
| PM072823-03 | 1659.43 | 1659430 |
| TSP072823-04 | 1762.08 | 1762080 |
| PM072823-05 | 1633.44 | 1633440 |
| TSP072823-06 | 1626.58 | 1626580 |
| PM072823-07 | 1620.22 | 1620220 |
| TSP072823-08 | 1699.4 | 1699400 |
| PM072823-09 | 570.34 | 570340 |
| TSP072823-10 | 569.08 | 569080 |
| PM072823-11 | 539.4 | 539400 |
| TSP072823-12 | 574.5 | 574500 |



Level 2 QA/QC Summary Report

Work Order #: B291104

Report Date: 10/24/2023

Batch ID: ICP231019C Analysis Date: 10/23/2023
Media:: 8X10PW GFF Preparation Date 10/20/2023

Blank Spike Results

| QC ID | Parameter | Percent Recovery | | | | |
|----------------|-----------|------------------|------|------------|-----|-------|
| | | LCS | LCSD | Acceptance | RPD | Limit |
| LCS ICP231019C | Lead | 103 | 100 | 75-125 | 2.7 | 20 |
| LCS ICP231019C | Manganese | 101 | 99 | 75-125 | 2.3 | 20 |

Method Blank Results


| QC ID | Parameter | Result | RL | Units |
|----------------|-----------|--------|----|-------|
| LMB ICP231019C | Lead | < 14 | 14 | ug |
| LMB ICP231019C | Manganese | < 98 | 98 | ug |



Built Environment Testing
Analytics

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

November 3, 2023


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

Laboratory Workorder ID: B298056

Client Project ID: J310000600 PARCEL C HUNTERS PT
Received: October 25, 2023
Reported: October 31, 2023
Amended: November 3, 2023

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

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

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

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


, CIH
Technical Director

Enclosures



Final Report

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

Customer: PARCELC1
Attention: [REDACTED]
PO Number J310000600

Date Received: 10/25/23
Client Project ID J310000600 PARCEL C
HUNTERS PT

| | | | | |
|--------------------|------------------------|---------|------------------------------|---------------------------------|
| Lab ID: B298056001 | Sample ID: PM072823-13 | FIELDQC | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/16/2023 8:00 AM |
|--------------------|------------------------|---------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|--------|-----------------|-------|------|-----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 0 L | 1000 ug | | | < 1000 ug | -- |

| | | | | |
|--------------------|-------------------------|---------|------------------------------|---------------------------------|
| Lab ID: B298056002 | Sample ID: TSP072823-14 | FIELDQC | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/16/2023 8:00 AM |
|--------------------|-------------------------|---------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|--------|-----------------|-------|------|-----------|---------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 0 L | 1000 ug | | | < 1000 ug | -- |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 0 L | 14 ug | | | < 14 ug | -- |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 0 L | 98 ug | | | < 98 ug | -- |

| | | | | |
|--------------------|------------------------|-------|------------------------------|---------------------------------|
| Lab ID: B298056003 | Sample ID: PM072823-15 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/17/2023 6:50 AM |
|--------------------|------------------------|-------|------------------------------|---------------------------------|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 1614180 L | 1000 ug | | | 13500 ug | 8 ug/M3 |



Final Report

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056004 | Sample ID: TSP072823-16 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/17/2023 6:50 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|-----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 1644790 L | 1000 ug | | | 39700 ug | 24 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1644790 L | 14 ug | | | < 14 ug | < 0.0085 ug/M3 |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1644790 L | 98 ug | | | < 98 ug | < 0.0596 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056005 | Sample ID: PM072823-17 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/17/2023 6:59 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 1636300 L | 1000 ug | | | 16000 ug | 10 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056006 | Sample ID: TSP072823-18 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/17/2023 6:59 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|-----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 1734790 L | 1000 ug | | | 28700 ug | 17 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1734790 L | 14 ug | | | < 14 ug | < 0.0081 ug/M3 |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1734790 L | 98 ug | | | < 98 ug | < 0.0565 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056007 | Sample ID: PM072823-19 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/18/2023 6:49 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|---------|--------|---------------|--------|-----------------|-------|------|-------|---------------|
|---------|--------|---------------|--------|-----------------|-------|------|-------|---------------|



Final Report

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056007 | Sample ID: PM072823-19 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/18/2023 6:49 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 1661860 L | 1000 ug | | | 11000 ug | 7 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056008 | Sample ID: TSP072823-20 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/18/2023 6:49 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|-----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 1639750 L | 1000 ug | | | 34700 ug | 21 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1639750 L | 14 ug | | | < 14 ug | < 0.0085 ug/M3 |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1639750 L | 98 ug | | | < 98 ug | < 0.0598 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056009 | Sample ID: PM072823-21 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/18/2023 6:58 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 1634440 L | 1000 ug | | | 14200 ug | 9 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056010 | Sample ID: TSP072823-22 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/18/2023 6:58 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|-----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 1731360 L | 1000 ug | | | 30100 ug | 17 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1731360 L | 14 ug | | | < 14 ug | < 0.0081 ug/M3 |



Final Report

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056010 | Sample ID: TSP072823-22 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/18/2023 6:58 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-----------|-----------------------------|---------------|-----------|-----------------|-------|------|---------|----------------|
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1731360 L | 98 ug | | | < 98 ug | < 0.0566 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056011 | Sample ID: PM072823-23 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 7:06 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 1676450 L | 1000 ug | | | 42000 ug | 25 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056012 | Sample ID: TSP072823-24 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 7:06 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|-----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 1675900 L | 1000 ug | | | 84800 ug | 51 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1675900 L | 14 ug | | | < 14 ug | < 0.0084 ug/M3 |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1675900 L | 98 ug | | | < 98 ug | < 0.0585 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056013 | Sample ID: PM072823-25 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 7:14 AM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|-----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 1668630 L | 1000 ug | | | 46600 ug | 28 ug/M3 |



Final Report

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056014 | Sample ID: TSP072823-26 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 7:14 AM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|-----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 1768440 L | 1000 ug | | | 82900 ug | 47 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1768440 L | 14 ug | | | < 14 ug | < 0.0079 ug/M3 |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 1768440 L | 98 ug | | | < 98 ug | < 0.0554 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056015 | Sample ID: PM072823-27 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 2:51 PM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 510000 L | 1000 ug | | | 10000 ug | 20 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056016 | Sample ID: TSP072823-28 | MSC01 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 2:51 PM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 508800 L | 1000 ug | | | 42400 ug | 83 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 508800 L | 14 ug | | | < 14 ug | < 0.0275 ug/M3 |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 508800 L | 98 ug | | | < 98 ug | < 0.1926 ug/M3 |

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056017 | Sample ID: PM072823-29 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 2:33 PM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|---------|--------|---------------|--------|-----------------|-------|------|-------|---------------|
|---------|--------|---------------|--------|-----------------|-------|------|-------|---------------|



Final Report

| | | | | |
|---------------------------|-------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056017 | Sample ID: PM072823-29 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 2:33 PM |
|---------------------------|-------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|-------------------|---------------|---------------|----------|-----------------|-------|------|----------|---------------|
| PM10 Particulates | 40CFR50 App.J | 10/26/23 | 505470 L | 1000 ug | | | 20700 ug | 41 ug/M3 |

| | | | | |
|---------------------------|--------------------------------|-------|-------------------------------------|--|
| Lab ID: B298056018 | Sample ID: TSP072823-30 | MSC02 | Media: 8X10 PREWEIGHED GLASS | Sample Date: 10/19/2023 2:33 PM |
|---------------------------|--------------------------------|-------|-------------------------------------|--|

| Analyte | Method | Analysis Date | Volume | Reporting Limit | Front | Rear | Total | Concentration |
|------------------------------|-----------------------------|---------------|----------|-----------------|-------|------|----------|----------------|
| Total Suspended Particulates | 40CFR50 App.B | 10/26/23 | 536050 L | 1000 ug | | | 38900 ug | 73 ug/M3 |
| Lead | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 536050 L | 14 ug | | | < 14 ug | < 0.0261 ug/M3 |
| Manganese | 40CFR50App.G Mod./EPA 6010B | 10/30/23 | 536050 L | 98 ug | | | < 98 ug | < 0.1828 ug/M3 |

Missed Units entered (ug/M3).



Built Environment Testing
Analytics

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

Final Report

General Laboratory Comments

Abbreviations:

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

**CHAIN-OF-CUSTODY
RECORD**

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

COC # 102423AIRC



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | |
|------------|------------------------|------------------|-----------------|---------------------|----------|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | 10/24/23 | Code | Matrix |
| | | | | | | A | Air |
| Equipment: | | | | | | AQ | Air Quality Control Matrix |
| | | | | | | Code | Container/Preservative |
| | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | 1 | 1 | 1 | | | | | | | |
|--------------------------------|--------------|------|------------|------------|--|---|---|---|--|--|-------------|-------------|----------------|------|--------|--------------|--|--|--|--|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments | | | | |
| 1 | PM072823-13 | AQ | 10/16/2023 | 0800 | | X | | | | | FIELDQC | FB1 | 0.00 | 0.00 | 1 | | | | | |
| 2 | TSP072823-14 | AQ | 10/16/2023 | 0800 | | | X | X | | | FIELDQC | FB1 | 0.00 | 0.00 | 1 | | | | | |
| 3 | PM072823-15 | A | 10/17/2023 | 0650 | | X | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 4 | TSP072823-16 | A | 10/17/2023 | 0650 | | | X | X | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 5 | PM072823-17 | A | 10/17/2023 | 0659 | | X | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 6 | TSP072823-18 | A | 10/17/2023 | 0659 | | | X | X | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|------|---|
| | 10/24/23 | 1300 | FEDEX | 10/24/23 | 1300 | Shipping Date: 10/24/2023 / FEDEX / 7736 6627 7630 |
| | | | | 10/25/23 | 1406 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 012573 CUSTODY 1406 seal 1A744 |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # 102423AIRC



B298056

| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | |
|------------|------------------------|------------------|-----------------|---------------------|----------|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | 10/24/23 | Code | Matrix |
| | | | | | | A | Air |
| Equipment: | | | | | | Code | Container/Preservative |
| | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | 1 | 1x Envelope, None |

| Event: Parcel C Air Monitoring | | | | | | | | | | | 1 | 1 | 1 | | | | | | | |
|--------------------------------|--------------|------|------------|------------|--|---|---|---|--|--|-------------|-------------|----------------|------|--------|--------------|--|--|--|--|
| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments | | | | |
| 1 | PM072823-19 | A | 10/18/2023 | 0649 | | X | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 2 | TSP072823-20 | A | 10/18/2023 | 0649 | | | X | X | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 3 | PM072823-21 | A | 10/18/2023 | 0658 | | X | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 4 | TSP072823-22 | A | 10/18/2023 | 0658 | | | X | X | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|------|---|
| | 10/24/23 | 1300 | FEDEX | 10/24/23 | 1300 | Shipping Date: 10/24/2023 / FEDEX / 7736 6627 7630 |
| | | | | 10/25/23 | 1406 | |
| | | | | | | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 10/25/23 1406 Custody seal intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # [Redacted] 102423AIRC



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: [Redacted] | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | | | | | | | |
|------------|------------------------|------------------|-----------------|---------------------|------------|------------|------------|------------|------------|------------|------------|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | Code | Matrix |
| | | | | | | | | | | | | A | Air |
| Equipment: | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | Code | Container/Preservative |
| | | | | | | | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | | | | | | | 1 | 1x Envelope, None |

Event: Parcel C Air Monitoring

| Sample ID | Matrix | Date | Time | Samp Init. | | | | | | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments | | |
|-----------|--------------|------|------------|------------|------------|---|---|---|--|-------------|-------------|----------------|--------|--------|----------|---|--------------|
| | | | | | | | | | | | | Top | Bottom | | | | |
| 1 | PM072823-23 | A | 10/19/2023 | 0706 | [Redacted] | X | | | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 2 | TSP072823-24 | A | 10/19/2023 | 0706 | [Redacted] | | X | X | | | | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 3 | PM072823-25 | A | 10/19/2023 | 0714 | [Redacted] | X | | | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |
| 4 | TSP072823-26 | A | 10/19/2023 | 0714 | [Redacted] | | X | X | | | | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|------|---|
| [Redacted] | 10/24/23 | 1300 | FEDEX | 10/24/23 | 1300 | Shipping Date: 10/24/2023 / FEDEX / 7736 6627 7630 |
| | | | [Redacted] | 10/25/23 | 1406 | |
| | | | | | | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | [Redacted] 10/25/23 Custody seal intact |

**CHAIN-OF-CUSTODY
RECORD**

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

COC # 102423AIRC



| | | |
|--|---|--------------------------------|
| Project Name: Hunters Point Shipyard, Parcel C Removal Site Evaluation | Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA | Event: Parcel C Air Monitoring |
| Project Number: J310000600 | POC: | |
| WBS Code: J310000600 | Ship to: 10329 Stony Run Lane, Ashland, VA 23005 | |

| | | | | | | | |
|------------|------------------------|------------------|-----------------|---------------------|----------|------|--------------------------------|
| Comments: | Analytical Test Method | CAAIR - Air PM10 | N0500 - Air TSP | SW6010B - Air Pb Mn | 10/24/23 | Code | Matrix |
| | | | | | | A | Air |
| Equipment: | | | | | | Code | Container/Preservative |
| | | | | | | 1 | 1x 250-mL Plastic, 4 Degrees C |
| | | | | | | 1 | 1x Envelope, None |


| Event: Parcel C Air Monitoring | | | | | | 1 | 1 | 1 | | | | | | |
|--------------------------------|--------------|------|-----------------|------------|-------------|-------------|----------------|------|--------|--------------|--|--|--|--|
| Sample ID | Matrix | Date | Time | Samp Init. | Location ID | Sample Type | Depth (ft bgs) | | Cooler | Comments | | | | |
| 1 | PM072823-27 | A | 10/19/2023 1451 | X | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 2 | TSP072823-28 | A | 10/19/2023 1451 | X X | MSC01 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 3 | PM072823-29 | A | 10/19/2023 1433 | X | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |
| 4 | TSP072823-30 | A | 10/19/2023 1433 | X X | MSC02 | N1 | 0.00 | 0.00 | 1 | VOLUME (M3): | | | | |

Turnaround Time: 5 days

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Shipping Date / Carrier / Airbill Number |
|------------------------------|----------|------|--------------------------|----------|------|---|
| | 10/24/23 | 1300 | FEDEX | 10/24/23 | 1300 | Shipping Date: 10/24/2023 / FEDEX / 7736 6627 7630 |
| | | | | 10/25/23 | 1406 | Received by Laboratory: (Signature, Date, Time) & condition |
| | | | | | | 10/25/23 Custody seal intact |

COC # XXXXXXXXXX102423AIRC



| Project Name: Hunters Point Shipyard, Parcel C Removal Site | | | | |  |
|---|--------------|--------|------------|------|---|
| Project Number: J310000600 | | | | | |
| WBS Code: J310000600 | | | | | |
| Event: Parcel C Air Monitoring | | | | | |
| | Sample ID | Matrix | Date | Time | Comments |
| 1 | PM072823-13 | AQ | 10/16/2023 | 0800 | |
| 2 | TSP072823-14 | AQ | 10/16/2023 | 0800 | |
| 3 | PM072823-15 | A | 10/17/2023 | 0650 | VOLUME (M3): 1614.18 |
| 4 | TSP072823-16 | A | 10/17/2023 | 0650 | VOLUME (M3): 1644.79 |
| 5 | PM072823-17 | A | 10/17/2023 | 0659 | VOLUME (M3): 1636.30 |
| 6 | TSP072823-18 | A | 10/17/2023 | 0659 | VOLUME (M3): 1734.79 |
| 7 | PM072823-19 | A | 10/18/2023 | 0649 | VOLUME (M3): 1661.86 |
| 8 | TSP072823-20 | A | 10/18/2023 | 0649 | VOLUME (M3): 1639.75 |
| 9 | PM072823-21 | A | 10/18/2023 | 0658 | VOLUME (M3): 1634.44 |
| 10 | TSP072823-22 | A | 10/18/2023 | 0658 | VOLUME (M3): 1731.36 |
| 11 | PM072823-23 | A | 10/19/2023 | 0706 | VOLUME (M3): 1676.45 |
| 12 | TSP072823-24 | A | 10/19/2023 | 0706 | VOLUME (M3): 1675.90 |
| 13 | PM072823-25 | A | 10/19/2023 | 0714 | VOLUME (M3): 1668.63 |
| 14 | TSP072823-26 | A | 10/19/2023 | 0714 | VOLUME (M3): 1768.44 |
| 15 | PM072823-27 | A | 10/19/2023 | 1451 | VOLUME (M3): 510.00 |
| 16 | TSP072823-28 | A | 10/19/2023 | 1451 | VOLUME (M3): 508.80 |
| 17 | PM072823-29 | A | 10/19/2023 | 1433 | VOLUME (M3): 505.47 |
| 18 | TSP072823-30 | A | 10/19/2023 | 1433 | VOLUME (M3): 536.05 |



Level 2 QA/QC Summary Report

Work Order #: B298056

Report Date: 11/3/2023

Batch ID: ICP231027A Analysis Date: 10/30/2023

Media:: 8X10PW GFF Preparation Date 10/27/2023

Blank Spike Results

| QC ID | Parameter | Percent Recovery | | | RPD | Limit |
|----------------|-----------|------------------|------|------------|-----|-------|
| | | LCS | LCSD | Acceptance | | |
| LCS ICP231027A | Lead | 99 | 98 | 75-125 | 1.0 | 20 |
| LCS ICP231027A | Manganese | 99 | 100 | 75-125 | 0.1 | 20 |

Method Blank Results

| QC ID | Parameter | Result | RL | Units |
|----------------|-----------|--------|----|-------|
| LMB ICP231027A | Lead | < 14 | 14 | ug |
| LMB ICP231027A | Manganese | < 98 | 98 | ug |