

***Report on Quarterly Air Monitoring,
Area IV, First Quarter 2025***

***Santa Susana Field Laboratory
Ventura County, California***



***Prepared for:
United States
Department of Energy***

***Prepared by:
North Wind Portage, Inc.***

(This page intentionally left blank)

**REPORT ON QUARTERLY AIR MONITORING, AREA IV,
FIRST QUARTER 2025, SANTA SUSANA FIELD
LABORATORY, VENTURA COUNTY, CA**

July 2025

Contract No. 89303324DEM000108

Prepared for:

U.S. Department of Energy
4100 Guardian Street, Suite 160
Simi Valley, California 93063

Prepared by:

North Wind Portage, Inc.
1425 Higham Street
Idaho Falls, Idaho 83402

(This page intentionally left blank)

EXECUTIVE SUMMARY

This report summarizes the United States Department of Energy (DOE) air monitoring activities conducted during the first quarter of 2025 (Q1/2025), which is the twenty-eighth quarter (Q28) of the monitoring period (January 1, 2025, to March 31, 2025) at Area IV within the Santa Susana Field Laboratory (SSFL), located in Ventura County, California. The area specifically discussed within this report is the DOE portion, Area IV of SSFL, known as the Energy Technology Engineering Center (ETEC). The program is continuing for an eighth year, which consists of 2025, reporting periods Q28 through Q31.

This quarterly report has been developed by North Wind Portage, Inc., on behalf of DOE in cooperation with The Boeing Company (Boeing) and the National Aeronautics and Space Administration (NASA), as part of the Baseline Air Monitoring Program.

In accordance with the *Final Baseline Air Monitoring Work Plan, Santa Susana Field Laboratory, Ventura County, California* (NASA 2017), the responsible parties are monitoring for particulate matter between 2.5 and 10 microns in aerodynamic diameter (PM₁₀), volatile organic compounds (VOCs), and radionuclides at air monitoring stations DOE-1, DOE-2, DOE-3, and DOE-4 encompassing the ETEC, Area IV portion of SSFL. Having developed the baseline levels for PM₁₀, VOCs, and radionuclides helps distinguish between levels that naturally occur or were previously present at the ETEC site and if onsite remediation activities produce elevated results. Air monitoring will be continued throughout remediation activities to be able to compare results from onsite remediation activities to baseline data in the Annual Air Monitoring Reports.

The following air monitoring activities conducted during Q1/2025, by DOE within Area IV are summarized in this report:

- Collected meteorological data from one location (DOE-4);
- Collected PM₁₀ data from four locations (DOE-1 through DOE-4);
- Collected air samples from four locations (DOE-1 through DOE-4) for VOC laboratory analysis; and
- Collected radionuclide samples for laboratory analysis from four locations (DOE-1 through DOE-4).

PM₁₀ data, meteorological data, and radionuclide data all met the data completeness goal of 80%, and VOC data met the completeness goal of 85% for Q1/2025. The Q2/2025 monitoring period of the Air Monitoring Program will begin April 1, 2025.

The following site activities were conducted during Q1/2025 by DOE within Area IV:

- Quarterly site-wide groundwater level monitoring;
- CDM Smith conducted groundwater sampling activities at the Former Sodium Disposal Facility as a part of groundwater interim measures; and
- Surveillance and maintenance.

CONTENTS

EXECUTIVE SUMMARY	v
ACRONYMS AND ABBREVIATIONS	viii
1. INTRODUCTION	1-1
1.1 Regional Climate and Wind Direction	1-2
2. SUMMARY	2-1
3. ANALYTICAL SAMPLING EVENTS.....	3-1
4. DATA.....	4-1
4.1 Meteorological Data.....	4-1
4.2 PM ₁₀ Data	4-4
4.3 Volatile Organic Compound Data	4-5
4.4 Radionuclide Data	4-6
5. QA/QC ACTIVITIES.....	5-1
5.1 Field QA/QC	5-1
5.2 Laboratory QA/QC.....	5-4
5.3 Audit Results	5-5
6. REFERENCES	6-1

FIGURES

Figure 1 – SSFL Air Monitoring Locations

Figure 2 – DOE Air Monitoring Locations

Figure 3 – DOE Quarterly Wind Rose

TABLES

Table 1. Data screening quality control codes for meteorological data.....	4-1
Table 2. Data screening summary for monitored meteorological parameters.....	4-3
Table 3. PM ₁₀ data completeness for January 1, 2025, to March 31, 2025.....	4-4
Table 4. Top five PM ₁₀ 24-hour average concentration days for Q1/2025.....	4-5
Table 5. Ambient air VOC data completeness.	4-5
Table 6. Gross alpha and beta-gamma average results for Q1/2025.....	4-7
Table 7. Meteorological sensor recommended maintenance frequency (Met One).....	5-4
Table 8. PM ₁₀ audit completeness.....	5-5

APPENDICES

Appendix A – PM₁₀ Daily Averages and Monthly Statistics

Appendix B – Analytical Results for Ambient Air VOCs

Appendix C – Radionuclide Results

Appendix D – PM₁₀ Monthly Audit Reports and Flow Verification Results

ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
°F	degrees Fahrenheit
μCi	microcurie(s)
μg/m ³	microgram(s) per cubic meter
Boeing	The Boeing Company
CAAQS	California Ambient Air Quality Standards
CFR	Code of Federal Regulations
DASC	Data Assessment Statistical Calculator
DOE	U.S. Department of Energy
DTSC	State of California Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
ETEC	Energy Technology Engineering Center
GC	gas chromatography
Hg	mercury
HHRA	Human Health Risk Assessment
m	meter(s)
m/sec	meter(s) per second
mb	millibar(s)
MDC	minimum detectable concentration
mL	milliliter(s)
mph	miles per hour
MS	mass spectrometry
MDL	method detection limit
NAAQS	National Ambient Air Quality Standards
NASA	National Aeronautics and Space Administration
NIST	National Institute of Standards and Technology
pCi	picocurie(s)
PM ₁₀	particulate matter less than 10 microns in aerodynamic diameter
Q28	twenty-eighth quarter
QA	quality assurance
QC	quality control
RAWS	Remote Automatic Weather Stations
RPD	relative percent difference
RSL	regional screening level
SDG	sample delivery group
SSFL	Santa Susana Field Laboratory
VOC	volatile organic compound

1. INTRODUCTION

National Aeronautics and Space Administration (NASA), The Boeing Company (Boeing), and the U.S. Department of Energy (DOE), also known as the responsible parties, are performing air monitoring at the Santa Susana Field Laboratory (SSFL) site located in Ventura County, California. The SSFL was a business segment of Boeing. SSFL includes 2,849 acres located atop a range of hills between the Simi and San Fernando valleys, north of Los Angeles. The westernmost 290 acres of the SSFL, known as Area IV, contains both DOE and Boeing former facilities. The DOE portion is mainly contained within the 90 acres known as the Energy Technology Engineering Center (ETEC).

When opened in the late 1950s, ETEC was ideally remote from population centers to enable development of security-sensitive projects. These projects supported research for DOE and its predecessor agencies for nuclear research and energy development. Area IV included buildings that house test apparatus for large-scale heat transfer and fluid mechanics experiments, mechanical and chemical test facilities, office buildings, and auxiliary facilities.

Air monitoring is being conducted in accordance with the *Final Baseline Air Monitoring Work Plan, Santa Susana Field Laboratory, Ventura County, California* (NASA 2017), which was submitted to the State of California Department of Toxic Substances Control (DTSC) on September 21, 2017. DTSC approved the Work Plan. Final locations of the air monitoring locations were approved by DTSC on January 30, 2018 (DTSC 2018).

The objective of the Air Monitoring Program is to evaluate project conditions and provide a basis for determining the magnitude of deviation from those baseline conditions that may result from onsite remediation activities at SSFL. Responsible parties are monitoring for particulate matter between 2.5 and 10 microns in aerodynamic diameter (PM₁₀), and volatile organic compounds (VOCs), at 14 locations at SSFL. Data was collected for four perimeter samplers (DOE-1 through DOE-4) and analyzed for gross alpha and gross beta. Individual radionuclide concentrations were determined by analysis at an offsite laboratory for these same four locations. Meteorological data are also collected as a part of the Air Monitoring Program.

Figure 1 shows the air monitoring locations for the Air Monitoring Program. These locations were selected based on the areas to be remediated, with consideration of winds in the area, topographic features, and accessibility. The air monitoring sites were also selected based on guidance obtained from the U.S. Environmental Protection Agency's (EPA's) *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II, Ambient Air Monitoring Program* (EPA 2017) and *Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA 2000). Sites were evaluated per 40 Code of Federal Regulations (CFR) 58, Appendix C – Ambient Air Quality Monitoring Methodology. DOE is responsible for DOE-1, DOE-2, DOE-3, and DOE-4 of the 14 monitoring locations, represented in Figure 1. VOCs, PM₁₀, and radionuclides are monitored at the four DOE monitoring locations, and meteorological conditions are monitored at the DOE-4 location. The DOE monitoring locations DOE-1 through DOE-4 are shown in Figure 2.

This report summarizes the results and quality assurance (QA) activities performed during the first quarter of 2025 (Q1/2025), which was from January 1, 2025, through March 31, 2025.

1.1 Regional Climate and Wind Direction

The climate in the SSFL area is characterized as “Mediterranean.” The mean temperature during the winter months is approximately 50 degrees Fahrenheit (°F), and the mean temperature in the summer months is approximately 70°F. Based on climate data from 2021 through 2024 from Weather Currents, average rainfall is on the order of 15.62 inches per year. The majority of the rainfall occurs between December and April, with January and February being the wettest months.

During Q1/2025, the Simi Valley received approximately 8.29 inches of rainfall.

The average hourly wind speed in Simi Valley varies significantly by season. The more turbulent part of the year lasts for 6 months, from November to April, with average western wind speeds of more than 7 miles per hour (mph). The calmer time of year lasts for 6 months, with northerly winds from May to October.

During the fall, winter, and spring, Santa Ana winds can blow from the north or northeast in excess of 35 mph.

2. SUMMARY

This report summarizes the air monitoring data collected during the Q1/2025 reporting period (January 1, 2025, through March 31, 2025).

Quality objectives and data completeness were met for all meteorological, PM₁₀, VOC, and radionuclide data for Q1/2025 of the Air Monitoring Program. Urban background data compared with air monitoring data indicate that the PM₁₀ concentrations measured at stations DOE-1, DOE-2, DOE-3, and DOE-4 during Q1/2025 are comparable to the PM₁₀ concentrations measured at stations characterizing urban background. Other sources that emit VOC characteristics are motor vehicle emissions, fossil fuel combustion, and wildfires. The results are reflected when considering SSFL site's urban background and relatively remote location from vehicle traffic. Two PM₁₀ concentrations exceeded the California Ambient Air Quality Standard (CAAQS; 50 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), and none of these values were above the National Ambient Air Quality Standard (NAAQS; 150 $\mu\text{g}/\text{m}^3$).

During Q1/2025 no downtime was observed for the unit at DOE-1. The unit at DOE-2 was down on January 1, 2025, due to pump and flow sensor issues; the pump and flow sensor were replaced and the unit restarted on January 17, 2025. The unit at DOE-3 was down on January 1, 2025; the unit was sent in for repair, and once a backup unit was received back from repair the replacement unit was restarted on January 20, 2025. The unit at DOE-4 was down on February 1, 2025; the unit was sent in for repair, and once a backup unit was received back from repair the replacement unit was restarted on February 17, 2025.

During Q1/2025 five VOC analytes were detected above the EPA regional screening level (RSL) or the April 2025 DTSC Human Health Risk Assessment (HHRA) Note 3 Screening Levels. Benzene was detected at DOE-1, DOE-2, DOE-3, and DOE-4; ethyl acetate was detected at DOE-1, DOE-2, and DOE-4; acrolein was detected at DOE-1 and DOE-2; acrylonitrile was detected at DOE-4; and naphthalene was detected at DOE-3. Benzene is a chemical used in a variety of industries and applications, such as gasoline, plastic manufacturing, adhesives, cleaning products, paint thinners, dyes, pesticides, pharmaceuticals, and printing inks. Ethyl acetate is a solvent used in a variety of industries and applications, such as adhesives, paint and coating products, pharmaceuticals, and printing inks. Acrolein is a chemical used as a chemical intermediate in the synthesis of other chemicals as well as a byproduct of combustion and is found in tobacco smoke and vehicle exhaust. Acrylonitrile is a chemical used to produce plastics, synthetic rubbers, and acrylic fibers. Naphthalene is a chemical used in the production of various industrial and consumer products as well as a byproduct of combustion and is found in tobacco smoke, vehicle exhaust, and forest fires. By using the results from the baseline Air Monitoring Program, along with other site characterization information, analytes were selected for routine air monitoring during soil disturbances. Establishing sources for specific contaminants or performing source apportionment was not a requirement for identifying remedial air quality impacts, nor was it within the scope or data quality objectives of the Air Monitoring Program.

Data collected during Q1/2025 agree with data collected, analyzed, and reported by the State of California DTSC, Los Angeles County Emergency Response Organization, the DOE Emergency Response organization, or other Multi-Agency Task Forces. Air monitoring at Area IV of the SSFL is to be continued starting April 1, 2025, for Q2/2025 of the Air Monitoring Program.

Site activities during Q1/2025 included quarterly site-wide groundwater level monitoring, surveillance and maintenance, and groundwater sampling activities conducted by CDM Smith at the Former Sodium Disposal Facility as part of the groundwater interim measures.

(This page intentionally left blank)

3. ANALYTICAL SAMPLING EVENTS

VOCs are collected according to the EPA Toxic Compendium Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)* (EPA 1999). Twenty-four-hour time-integrated samples are collected into Summa canisters via a flow controller and sent to an offsite laboratory for analysis. VOCs are collected every other week. There were seven VOC sampling events with seven field duplicate samples collected during this reporting period.

During Q1/2025, radionuclide samples were collected at four perimeter sampler locations, DOE-1 through DOE-4. These samples were collected on glass fiber (Type A/E) filters that are changed twice a week. After a minimum 120-hour holding time to allow the decay of short-lived radon and thoron daughter products, the samples are simultaneously counted for gross alpha and beta activity with a low-background, thin-window, gas-flow, proportional counting system continually purged with P-10 argon/methane counting gas over a preset time interval. There were 102 airborne radioactivity filter samples collected in Q1/2025 — 26 each at DOE-1 and DOE-3, and 25 each at DOE-2 and DOE-4. Following analysis for gross alpha and gross beta radiation, sample filters were combined to form one composite sample representative of each location. The four composite samples were then analyzed for individual radionuclides at an offsite laboratory.

(This page intentionally left blank)

4. DATA

Sections 4.1 through 4.4 discuss Q1/2025 air monitoring data.

4.1 Meteorological Data

General Summary

Meteorological data, also called weather data, are being collected as part of the ETEC cleanup and restoration effort. This information, particularly the wind direction and wind speed, can be used to help understand how dust and other air pollutants from the site are carried by the wind to possibly affect nearby public and residential areas. This is especially important when the E-BAM particulate monitors at the site detect higher-than-normal amounts of dust in the air. Scientific computer models can be used with this weather data in association with the particulate monitoring data to describe the air quality for the communities near the ETEC site. However, before the weather data can be used with the computer models, it must first be quality tested for completeness and accuracy to ensure it meets acceptance criteria. A detailed description of the weather data collection and quality testing is provided in the following paragraphs.

Monitored meteorology parameters at the DOE-4 station included wind speed, wind direction, air temperature at 2 meters (m) and 10 m, relative humidity, precipitation, barometric pressure, and solar radiation. In addition, statistical parameters provided by the data logger included delta temperature (i.e., the 10-m temperature minus the 2-m temperature), maximum wind speed (i.e., wind gust), and standard deviation of wind direction. Observations were recorded at 15-minute intervals corresponding to minutes :00, :15, :30, and :45 each hour. There were 90 days in this reporting period (Q1/2025) from 01 Jan 2025 through 31 Mar 2025 with a total of 8,640 possible 15-minute observations. This is the first quarter of Year 8 of the baseline monitoring.

Data Validation and Statistics

Data validation screening was performed on the recorded meteorological observations pursuant to EPA's *Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA 2000), Table 8-4 (Suggested Data Screening Criteria) and Table 8-3 (Suggested Quality Control Codes). Validation screening provided the basis for evaluating data completeness and for determining sensor performance and/or maintenance status. Validation was performed following each weekly data download. Data validation quality control codes applied to the meteorological observations are defined in Table 1.

Table 1. Data screening quality control codes for meteorological data.

Code	Meaning	Description (as used for ETEC meteorological data validation)
0	Valid	PASS – Observation is accurate within the performance limits of the instrument (i.e., value passes all data validation screening criteria).
3	Acceptable	PASS – Observation originally failed initial quality control (QC) check (see Code 6), but additional review using other independent data and meteorological judgment support final validity.
6	Failed initial QC check	FAIL – Observation did not pass data validation screening criteria.
7	Suspect	FAIL – Observation failed initial data validation QC check (see Code 6) and could not be verified through additional review using other independent data.
8	Invalid	FAIL – Observation judged to be inaccurate or in error, and the cause is known.
9	Missing	FAIL – Observation was not collected.

The validation screening involved comparing, on an individual parameter basis, the recorded values (i.e., observations) against the EPA screening criteria shown in Table 2. The data validation procedure involved an initial automated review to apply a first-level QC Code of 0 (valid), 6 (failed), or 9 (missing), as defined in Table 1. Observations initially flagged with a QC Code = 6 were then manually (i.e., second-level) reviewed by a project meteorologist. The procedure is outlined below:

- Values meeting all screening criteria for the respective meteorological parameter were automatically considered “valid” (QC Code = 0).
- Values not meeting a screening criterion were automatically flagged as “failed initial QC” (QC Code = 6). These values were subjected to second-level manual meteorological review using other available observations (e.g., 2-m vs. 10-m temperature at DOE-4 or from nearby Remote Automatic Weather Stations [RAWS] meteorological station CEEC1 in the Cheeseboro Canyon, California, area located 2.6 miles south of the DOE-4 site), and meteorological judgment:
 - Values confirmed by second-level review were deemed “acceptable” (final QC Code = 3).
 - Otherwise, the values were deemed “suspect” (final QC Code = 7).
- Observations known to be inaccurate (QC Code = 8).
- Missing observations were automatically flagged as “missing” (QC Code = 9).

Values that pass validation with a final QC Code of 0 or 3 are included in the data completeness statistics and the final validated meteorological data set. Values with a final QC Code of 7, 8, or 9 are excluded from the final dataset and counted against the data completeness percentage. Quarterly data statistics for the meteorological parameters are listed in Table 2 along with year-to-date and project-to-date results. Year-to-date and project-to-date percentages are calculated as total valid observations through the completed quarters for the year divided by the total possible observations through this same period.

The completeness goal for meteorological data is 80% on an annual basis. Data completeness statistics for all completed reporting quarters in Year 8 of the baseline monitoring are presented in Table 2. Data completeness to-date for Year 8 exceeds 80% for all meteorological parameters being monitored.

Wind Rose

The final validated 15-minute meteorological dataset was used to develop the wind rose for Q1/2025 as presented in Figure 3. A wind rose is a graphical representation of wind speed and direction distribution (or wind climatology) for the period of interest. The frequency of winds blowing from specific directions are shown as petals on the wind rose, with the frequency of wind speeds depicted by color bands. Calm winds are identified as being less than 0.5 meters per second (m/sec).

During Q1/2025, data capture for wind speed and direction at DOE-4 was 100%. The average and maximum wind speeds were 5.0 m/sec and 26.4 m/sec, respectively. The maximum recorded wind gust was 35.5 m/sec. The predominant wind directions this quarter were from the east-southeast (ESE) and from the north-northeast (NNE).

4.2 PM₁₀ Data

PM₁₀ data, defined as coarse particles between 2.5 and 10 microns in aerodynamic diameter, are measured at the ETEC site. Sources of particulate matter can be naturally occurring or caused by human activity. The air monitoring conducted at ETEC is used to determine if any suspended particles are from activities conducted onsite or if they are consistent with surrounding air quality data. Some of the naturally occurring particles can originate from high winds, forest or grass fires, burning of fossil fuels in vehicles, or stirred-up road dust.

PM₁₀ data are collected with Met One E-BAM monitors at four monitoring locations. The Met One E-BAM uses the principle of beta attenuation to provide a determination of mass concentration. Twenty-four-hour concentrations are calculated from the hourly concentrations. There were 90 days in this reporting period.

- DOE-1 had valid readings all 90 days.
- DOE-2 had valid readings 74 out of 90 days.
- DOE-3 had valid readings 71 out of 90 days.
- DOE-4 had valid readings 73 out of 90 days.

DOE-1 had data completeness of 100% for PM₁₀ in Q1/2025, and DOE-2, DOE-3, and DOE-4 had data completeness of 82%, 79%, and 81%, respectively, for a total data completeness of 85.5%, exceeding the project goal of 80% completeness for total samples collected during Q1/2025 (see Table 3). The cumulative total project data completeness has been calculated as 92% from April 2018 through March 2025. The complete table of daily averages for Q1/2025 is presented in Appendix A. During Q1/2025 no downtime was observed for the unit at DOE-1. The unit at DOE-2 was down on January 1, 2025, due to pump and flow sensor issues; the pump and flow sensor were replaced and the unit restarted on January 17, 2025. The unit at DOE-3 was down on January 1, 2025; the unit was sent in for repair, and once a backup unit was received back from repair the replacement unit was restarted on January 20, 2025. The unit at DOE-4 was down on February 1, 2025; the unit was sent in for repair, and once a backup unit was received back from repair the replacement unit was restarted on February 17, 2025. See the PM₁₀ daily average table in Appendix A for specific downtime dates.

The nearby State and Local Air Monitoring Stations (SLAMS), Simi Valley – Cochran Street – PM₁₀ Daily Averages, from 01/01/2024 to 07/31/2024 are presented in Appendix A (2025a). At the time of writing this report, the data posted are the most current available. Please note, per the EPA website, the EPA data are updated twice per year: once in June to capture the complete data for the prior year, and once in December to capture the data for the summer (ozone season).

Table 3. PM₁₀ data completeness for January 1, 2025, to March 31, 2025.

Location	Valid Readings (Days)	Possible Readings (Days)	Data Completeness (Percent)
DOE-1	90	90	100%
DOE-2	74	90	82%
DOE-3	71	90	79%
DOE-4	73	90	81%

Average Total Data Completeness 85.5%

The five highest PM₁₀ results identified for the reporting period are listed in Table 4 along with the CAAQS for PM₁₀. PM₁₀ concentrations were consistent with levels typically found in urban air. Of these top five

results, three were recorded at DOE-1, and two at DOE-4. In total for Q1/2025, two values were above the CAAQS of 50 $\mu\text{g}/\text{m}^3$ and none of the values were above the NAAQS of 150 $\mu\text{g}/\text{m}^3$. Over these dates, elevated winds and nearby wildfires may have contributed to the elevated readings since on those days the elevated readings correlated very closely with wind direction from the Palisades Fire. Historically, a direct correlation between wildfires, high wind speeds, and higher PM_{10} readings has been noticeable.

Table 4. Top five PM_{10} 24-hour average concentration days for Q1/2025.

Date	Location	PM_{10} Value ($\mu\text{g}/\text{m}^3$)	CAAQS ($\mu\text{g}/\text{m}^3$)
1/8/2025	DOE-4	59.775	50
1/7/2025	DOE-1	55.833	50
1/7/2025	DOE-4	43.045	50
1/8/2025	DOE-1	38.166	50
3/25/2025	DOE-1	28.818	50

Note: Bold numbers and gray shading indicate values that exceeded CAAQS.

4.3 Volatile Organic Compound Data

VOCs are organic chemicals that have a high vapor pressure, which causes them to evaporate quickly and enter the surrounding air. VOCs can be naturally occurring or man-made. The VOC data collected can help distinguish between man-made detections from onsite activities or naturally existing organic chemicals. The VOC data collected are compared against screening levels. These screening levels are risk-based concentrations derived from standardized equations combining exposure information with toxicity data.

All four DOE locations were sampled during each of the seven VOC sampling events this period. Data completeness goals for VOCs exceeded the project goal of 85% (see Table 5).

Table 5. Ambient air VOC data completeness.

Location	Valid Readings (Days)	Possible Readings (Days)	Data Completeness (Percent)
DOE-1	7	7	100%
DOE-2	7	7	100%
DOE-3	7	7	100%
DOE-4	7	7	100%

Average Total Data Completeness 100%

VOC detection results are presented in Table B-1 (Appendix B), including comparison to the April 2025 DTSC HHRA Note 3 Screening Levels (DTSC 2025) or the EPA RSLs (EPA 2024b).

- Benzene was detected above the DTSC HHRA Note 3 level limit of 0.097 $\mu\text{g}/\text{m}^3$ during the January 8, 2025, sampling at all four locations at concentrations of 0.40 J;J $\mu\text{g}/\text{m}^3$, 0.31 J;J $\mu\text{g}/\text{m}^3$, 0.28 J;J $\mu\text{g}/\text{m}^3$, and 0.33 J;J $\mu\text{g}/\text{m}^3$. In addition, ethyl acetate was detected above the EPA RSL limit of 73 $\mu\text{g}/\text{m}^3$ during the January 8, 2025, sampling at three locations at concentrations of 870;D; $\mu\text{g}/\text{m}^3$, 75; $\mu\text{g}/\text{m}^3$, and 79; $\mu\text{g}/\text{m}^3$.
- Benzene was detected above the DTSC HHRA Note 3 level limit of 0.097 $\mu\text{g}/\text{m}^3$ during the January 14, 2025, sampling at all four locations at concentrations of 0.28 J;J $\mu\text{g}/\text{m}^3$, 0.26 J;J $\mu\text{g}/\text{m}^3$, 0.25 J;J $\mu\text{g}/\text{m}^3$, and 0.25 J;J $\mu\text{g}/\text{m}^3$.

- Benzene was detected above the DTSC HHRA Note 3 level limit of 0.097 $\mu\text{g}/\text{m}^3$ during the January 29, 2025, sampling at all four locations at concentrations of 0.55 J; $\mu\text{g}/\text{m}^3$, 0.49 J; $\mu\text{g}/\text{m}^3$, 0.50 J; $\mu\text{g}/\text{m}^3$, and 0.51 J; $\mu\text{g}/\text{m}^3$. In addition, acrolein was detected above the EPA RSL limit of 0.021 $\mu\text{g}/\text{m}^3$ during the January 29, 2025, sampling at one location at a concentration of 1.3 J; $\mu\text{g}/\text{m}^3$.
- Benzene was detected above the DTSC HHRA Note 3 level limit of 0.097 $\mu\text{g}/\text{m}^3$ during the February 13, 2025, sampling at all four locations at concentrations of 0.34 J; $\mu\text{g}/\text{m}^3$, 0.61 J; $\mu\text{g}/\text{m}^3$, 0.34 J; $\mu\text{g}/\text{m}^3$, and 0.35 J; $\mu\text{g}/\text{m}^3$. In addition, acrolein was detected above the EPA RSL limit of 0.021 $\mu\text{g}/\text{m}^3$ during the February 12, 2025, sampling at one location at a concentration of 0.71 J; $\mu\text{g}/\text{m}^3$.
- Benzene was detected above the DTSC HHRA Note 3 level limit of 0.097 $\mu\text{g}/\text{m}^3$ during the February 26, 2025, sampling at all four locations at concentrations of 0.24 J; $\mu\text{g}/\text{m}^3$, 0.21 J; $\mu\text{g}/\text{m}^3$, 0.23 J; $\mu\text{g}/\text{m}^3$, and 0.21 J; $\mu\text{g}/\text{m}^3$. In addition, acrylonitrile was detected above the EPA RSL limit of 0.041 $\mu\text{g}/\text{m}^3$ during the February 26, 2025, sampling at one location at a concentration of 5.4; $\mu\text{g}/\text{m}^3$.
- Benzene was detected above the DTSC HHRA Note 3 level limit of 0.097 $\mu\text{g}/\text{m}^3$ during the March 13, 2025, sampling at all four locations at concentrations of 0.38 J; $\mu\text{g}/\text{m}^3$, 0.33 J; $\mu\text{g}/\text{m}^3$, 1.2; $\mu\text{g}/\text{m}^3$, and 0.35 J; $\mu\text{g}/\text{m}^3$. In addition, naphthalene was detected above the EPA RSL limit of 0.083 $\mu\text{g}/\text{m}^3$ during the March 13, 2025, sampling at one location at a concentration of 0.22 J; $\mu\text{g}/\text{m}^3$.
- Benzene was detected above the DTSC HHRA Note 3 level limit of 0.097 $\mu\text{g}/\text{m}^3$ during the March 28, 2025, sampling at all four locations at concentrations of 0.19 J; $\mu\text{g}/\text{m}^3$, 0.19 J; $\mu\text{g}/\text{m}^3$, 0.16 J; $\mu\text{g}/\text{m}^3$, and 0.18 J; $\mu\text{g}/\text{m}^3$.

Two man-made VOC analytes, dichlorodifluoromethane (freon-12) and ethyl acetate, have been detected routinely at all four monitoring stations during all quarterly sampling events and in duplicate samples, indicating that these VOCs were not caused by the building demolition activities performed during June 2020 through February 2022. These analytes were also detected as estimated values at NASA stations but were not detected at Boeing stations. Based on laboratory QC data (method blanks, clean canister certifications), the sampling process and laboratory process are not the sources of the two analytes. The onsite source of the analytes is currently unknown.

Neither the establishment of sources for specific contaminants nor the performance of source apportionment was required for identifying remedial air quality impacts, nor was either within the scope or data quality objectives of the Air Monitoring Program.

4.4 Radionuclide Data

EETC continuously monitors air at multiple locations for radioactive particles. This is performed for two reasons: (1) to determine the background airborne radioactivity concentration so that any possible releases from work activities can be detected, and (2) to detect any possible release from existing activities.

There were 102 airborne radioactivity filter samples collected in Q1/2025 — 26 each for DOE-1 and DOE-3, and 25 each for DOE-2 and DOE-4. Each sample was collected on a glass-fiber filter (as discussed in Section 3) and was analyzed using a “low background” Protean radiation counter system onsite. These

samples included background radioactive materials and the potential of Area IV–specific radioactive materials.

The alpha and beta data are presented in Table C-1 (Appendix C). The onsite analysis determined only “alpha” or “beta/gamma” and did not analyze for specific isotopes. Isotopic analysis was performed later by an offsite laboratory. Each sample produced a gross alpha and beta-gamma count. The analysis compared these values with the background radiation count rates, and using the volume of air collected determined the net counts and the minimum detectable concentration (MDC) for each sampling event. Some results in Table C-1 (Appendix C) are shown as negative values (because detector background is subtracted from the result).

While approximately 1% of the gross alpha results and approximately 76% of the gross beta-gamma results are above the MDC, none of these results are significant and all were well below the effluent limits specified in California regulations. This is because the “background” value is computed with a clean filter, not a filter exposed to background airborne concentrations. While a proportion of the beta results were detectable, the average results remained low. The elevated (but still low) results may be due to more airborne dust or smoke. Historically, there has been a noticeable direct correlation between high wind speeds and higher beta results.

Following collection and onsite analysis, the air filters were composited and analyzed for specific radionuclides by an offsite laboratory. The data are shown in Table C-2 (Appendix C). The laboratory analysis determined that most radioactive material present was natural in origin, consisting of beryllium-7, polonium-210, potassium-40, combined radium-226 and radium-228, thorium-228, thorium-230, thorium-232, uranium-233/234, uranium-235/236, and uranium-238.

While artificial radionuclides (e.g., cesium-137, strontium-90, plutonium-239) were present in very small amounts, none of the results were above the MDC in Q1/2025. The presence of these radionuclides is considered a part of the normal variation of global fallout and resuspension activities.

A summary of the gross air sampling data is shown in Table 6.

Table 6. Gross alpha and beta-gamma average results for Q1/2025.

Location	Average alpha result (μCi/mL)	Average alpha MDC (μCi/mL)	Average beta result (μCi/mL)	Average beta MDC (μCi/mL)
DOE-1	7.31E-16	6.02E-15	4.99E-14	2.44E-14
DOE-2	8.61E-16	6.09E-15	4.80E-14	2.47E-14
DOE-3	3.99E-16	6.02E-15	4.74E-14	2.45E-14
DOE-4	1.68E-16	6.18E-15	5.27E-14	2.51E-14
Average	5.40E-16	6.08E-15	4.95E-14	2.47E-14

(This page intentionally left blank)

5. QA/QC ACTIVITIES

The following QA/QC activities were conducted for the PM₁₀, VOC, radionuclide, and meteorological data collection and analysis.

5.1 Field QA/QC

5.1.1 PM₁₀

The 24-hour daily averages for Q1/2025 are presented in Appendix A along with the monthly minimum, maximum, and 95th percentile for each station location. In addition, the nearby SLAMS, Simi Valley – Cochran Street – PM₁₀ Daily Averages, from 01/01/2024 to 07/31/2024 along with the monthly average minimum, maximum, and 95th percentile for the Simi Valley – Cochran Street location, are presented in Appendix A (2025a). Please note, only the Simi Valley PM₁₀ data from the SLAMS have been reported. The Simi Valley PM_{2.5} and the Reseda PM_{2.5} have not been reported here since this report discusses only PM₁₀ data, not PM_{2.5} data. In addition, per the EPA website, the EPA data are updated twice per year: once in June to capture the complete data for the prior year, and once in December to capture the data for the summer (ozone season). At the time of writing this report, the data posted are the most current available.

Flow Verifications

Functionality of the Met One E-BAM units is verified and recorded monthly during instrument audits; however, the instruments are also checked several times a week for operability. During the monthly audits, the Met One E-BAM temperature, pressure, and flow rate are verified against a National Institute of Standards and Technology (NIST) traceable flowmeter. The flow rate audit results are presented as bias percentages. The average quarterly bias for each DOE site (DOE-1, DOE-2, DOE-3, and DOE-4) is compared to the flow rate measurement quality objective of +/- 4%.

E-BAM units are occasionally swapped out for maintenance. When this occurs during a quarter, the reported quarterly bias percentage for the affected DOE site is based on the combined monthly audit results for the E-BAM units that operated at the site during that quarter. During Q1/2025, the monitors at DOE-2 and DOE-3 were down to start the year and were restarted in mid-January once repaired monitors were received back; the monitor at DOE-4 stopped functioning in February and was replaced and restarted in mid-February. The Q1/2025 quarterly flow rate bias percentages at the four E-BAM sites ranged from -2.67 to -1.00%. These results were within the flow rate measurement quality objective of +/- 4%.

Complete audit reports and flow verification results for Q1/2025 are presented in Appendix D of this document. The flow rate verifications were based on 40 CFR 58, Appendix A, 3.3.1 and 4.2.2 through 4.2.3, along with the *Guideline on the Meaning and the Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A* (EPA 2007). The *Data Assessment Statistical Calculator* (DASC) tool, which is an EPA Excel-based software application, was used to perform the necessary statistical calculations based on the flowrate data collected during the monthly audits. Sections 2 and 2.5 of this EPA guidance document (EPA 2007) provide additional information and instruction for using the DASC tool.

5.1.2 VOCs

All data underwent at least two levels of QC review at the laboratory prior to transmission to North Wind. A minimum of 20% of the transmitted VOC results undergo Level IV data validation, annually. During this quarter, two of the seven SDGs, P2500084 and P2500124, underwent Level IV data validation. The data

validation ensures that the required analytical measurement quality objectives are met to ensure the data are of sufficient quality for their intended purpose.

Each location had valid readings on the seven sample days for a sample completeness of 100%. Data completeness goals for VOCs exceeded the project goal of 85%.

5.1.3 Field Duplicates

Seven field duplicates were collected during this reporting period. Seven sampling events were conducted for the Q1/2025 effort. Forty-four sample and duplicate analyte detections were within the quality objective of +/- 15% relative percent difference (RPD). Forty-six sample and duplicate analyte detections exceeded the quality objective of +/- 15% RPD; however, these warrant no qualification since the parent and field duplicate results were either non-detect or <MDL. There were no other detections associated with the samples and associated duplicates collected during this reporting period. The following analytes in the field duplicate pairs exceeded the quality objective of +/- 15% RPD:

- Ethyl acetate in P2500084, P2500707, P2500922, and P2501109.
- Dichlorodifluoromethane (CFC 12), trichlorofluoromethane (CFC 11), 2-propanol (isopropyl alcohol), methylene chloride, ethyl acetate, and toluene in P2500124.
- 2-Propanol (isopropyl alcohol), carbon disulfide, ethyl acetate, and toluene in P2500316.
- Dichlorodifluoromethane (CFC 12), carbon disulfide, 2-butanone (MEK), ethyl acetate, and toluene in P2500558.

5.1.4 Canister Pressure

Vacuum in the canisters is measured before and after sampling with an analog pressure gauge to ensure proper function. Final canister vacuums ranged from -3.5 inches mercury (Hg) to -1.0 inches Hg during this reporting period.

5.1.5 Radiological

The detector for onsite gross alpha and beta sample analysis is calibrated annually by a third-party vendor using sources traceable to the NIST. The detector is checked by counting alpha- and beta-emitting sources at the site when received from the vendor following calibration. This establishes an acceptable performance range for daily source checks. On each day the detector is used, performance is determined with the site source. The detector may be used if the daily check is within the acceptable performance range.

Samples analyzed at the offsite laboratory are QC-checked at the laboratory. These QC checks include blanks, laboratory replicates, matrix spikes, and matrix spike duplicates. Barium, which behaves chemically similar to radium, is used as a carrier to determine the yield of the chemical extraction.

Since Q2/2021, 100% of the radiological analytical results have undergone Level IV, third-party data validation. The data validation ensures that the required analytical measurement quality objectives are met to ensure the data are of sufficient quality for their intended purpose.

5.1.6 Meteorological

During the reporting period, a weekly data validation screening and review was performed on the monitored meteorological parameters based on the EPA guidance document *Meteorological Monitoring*

Guidance for Regulatory Modeling Applications (EPA 2000), Table 8-4 – Suggested Data Screening Criteria, as outlined in Section 4.1. The data validation procedure provided the basis for evaluating data completeness and for determining sensor performance and/or maintenance status.

5.1.7 Maintenance

Routine visual checks were performed on the meteorological station during weekly data downloading site visits. This included inspection of the meteorological tower sensors, E-BAM monitoring unit wind sensors, and solar-powered batteries to ensure proper functioning.

5.1.8 Corrective Action

Issues and corrective actions regarding the PM₁₀ monitors and the meteorological station are noted in Sections 5.1.8.1 and 5.1.8.2, respectively. Issues and corrective actions regarding the E-BAM monitors are noted in Section 4.2. No issues or corrective actions were noted regarding the remaining monitoring equipment or sampling events during this reporting period.

5.1.8.1 PM₁₀ Monitors

E-BAM units are occasionally swapped out for maintenance or repair. Refer to Section 4.2 for a detailed description of PM₁₀ air monitoring equipment issues.

5.1.8.2 Meteorological Station

This section covers data quality issues and associated corrective actions that occurred during the current monitoring quarter. The data percent completion goal of $\geq 80\%$ was met during Q1/2025 for all parameters. Quality issues this quarter included: (1) continued post-processing of the delta temperature data to resolve a datalogger programming equation where the 10-m and 2-m temperature parameters are reversed; and (2) implementation of the recommended sensor maintenance schedule (shown in Table 7 for reference).

(1) Delta Temperature Calculation

- Data Quality Issue:
 - For meteorological monitoring, delta temperature should be defined as T at the higher level minus T at the lower level. However, the datalogger was improperly programmed to calculate the inverse of delta temperature when the station was replaced after the Woolsey Wildfire in 2018. Consequently, delta temperature observations continue to be calculated with an opposite sign compared to the values from the original data logger.
- Corrective Action:
 - Datalogger Equation – Instead of reprogramming the datalogger to correctly calculate delta temperature, an adjustment multiplication factor of “-1” has been applied to the delta temperature values from the new data logger prior to performing the data validation.

Resolution – With application of the “-1” multiplication factor, delta temperature values in the validated project dataset accurately present delta temperature as:

$$\text{Delta Temperature} = [\text{Temperature @ 10 m}] \text{ minus } [\text{Temperature @ 2 m}]$$

(2) Recommended Maintenance Schedule:

Although not a corrective action, the manufacturer’s recommended maintenance frequency for meteorological sensors is presented below for information purposes. Proper and timely maintenance of the meteorological sensors is critical for ensuring that the data are not only valid (based on screening criteria) but also accurate. Schedules for maintenance and calibration are provided in the sensor user manuals and based on the in-service time of the sensor. Table 7 lists the recommended maintenance schedules for the Met One sensors installed at the DOE-4 meteorological station.

Table 7. Meteorological sensor recommended maintenance frequency (Met One).

Sensor	Frequency	Maintenance
WS	6–12 Month	Inspect for proper operation (manual check of pulses per revolution, bearing condition, anemometer cup condition, and bearing replacement if warranted)
	12–24 Month	Return to Met One for complete overhaul
WD	6–12 Month	Inspect for proper operation (manual check of sensor readings through 360°)
	6–12 Month	Field calibration
	12–24 month	Replace bearings & potentiometer
T	6–12 Month	Inspect sensor for proper operation (field comparison sensor reading against a precision mercury thermometer)
RH	6–12 Month	Inspect sensor for proper operation (compare sensor reading against local weather service or field psychrometer)
	12 Month	Return sensor to Met One for calibration and replacement of O-rings and filter membrane
Rain Gauge	6 Month	Clean sensor and bucket and field verify proper operation
Pressure	12 Month	Return sensor to Met One for calibration and replacement of O-rings and filter membrane
Radiometer	Monthly	Clean sensor glass dome with clean rag/tissue

Note: Maintenance schedules are as specified in the respective Met One sensor user manuals.

5.2 Laboratory QA/QC

This report covers 35 air monitoring samples for VOCs collected and analyzed according to the EPA Toxic Compendium Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)* (EPA 1999). These samples were reported under seven SDGs by the laboratory. All seven SDG analyses were performed by ALS in Simi Valley, CA. For each SDG, the laboratory ran continuing calibration verification, a method blank, and laboratory control samples, and verified surrogate recoveries for each sample.

The laboratory provided certified clean canisters for the sampling events. The certification of the canister batch is considered the equipment blank for each sampling event. The ALS case narrative discusses the cleaning of the canisters.

5.3 Audit Results

The PM₁₀ instruments were calibrated at the manufacturer and were functioning properly upon installation. The PM₁₀ instruments were audited monthly with a secondary NIST traceable flow meter. Although audits occur only monthly, the instruments were checked several times a week to ensure that they were functioning. Table 8 lists the dates for audits conducted in January through March 2025. No flow rate comparisons exceeded the project’s acceptance criterion of +/- 4. The sample nozzles and support vanes were cleaned as needed. Complete audit reports are presented in Appendix D.

Table 8. PM₁₀ audit completeness.

Location	Met One E-BAM Serial Number	Parameter	Date
DOE-1	W23314	PM ₁₀	01/17/2025
DOE-2	Y12096	PM ₁₀	01/17/2025
DOE-3	W23313	PM ₁₀	01/20/2025*
DOE-4	B18932	PM ₁₀	01/17/2025
DOE-1	W23314	PM ₁₀	02/22/2025
DOE-2	Y12096	PM ₁₀	02/22/2025
DOE-3	W23313	PM ₁₀	02/22/2025
DOE-4	X16067	PM ₁₀	02/22/2025
DOE-1	W23314	PM ₁₀	03/21/2025
DOE-2	Y12096	PM ₁₀	03/21/2025
DOE-3	W23313	PM ₁₀	03/21/2025
DOE-4	X16067	PM ₁₀	03/21/2025

Note:

* = There was no January 17, 2025, audit for B20070. This is the initial audit for W23313, which replaced B20070.

(This page intentionally left blank)

6. REFERENCES

- 10 Code of Federal Regulations (CFR) 20, Appendix B, “Annual Limits on Intake (ALIs) and Derived Air Concentrations (DACs) of Radionuclides for Occupational Exposure; Effluent Concentrations; Concentrations for Release to Sewerage,” Table 2.
- 40 CFR 58, Appendix C – Ambient Air Quality Monitoring Methodology.
- California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). 2018. *Approval of the Final Air Monitoring Station Locations for the Santa Susana Field Laboratory, Ventura County, California*. January.
- California Environmental Protection Agency, DTSC. 2025. Human and Ecological Risk Office Human Health Risk Assessment Note Number 3, DTSC-modified Screening Levels. April. Available online at: <https://dtsc.ca.gov/wp-content/uploads/sites/31/2025/04/HHRA-Note-3-Revised-April-2025.pdf>.
- National Aeronautics and Space Administration (NASA). 2017. *Baseline Air Monitoring Work Plan, Santa Susana Field Laboratory, Ventura County, California*. Prepared for California Department of Toxic Substances Control. Prepared on behalf of National Aeronautics and Space Administration, George C. Marshall Space Flight Center, The Boeing Company, and Department of Energy, Energy Technology and Engineering Center. September. Available online at: [SSFL Baseline Air Monitoring Work Plan](#)
- U.S. Environmental Protection Agency (EPA). 1999. *Air Method, Toxic Organics-15 (TO-15), Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)*. EPA 625/R-96/010b. January. Available online at: https://19january2017snapshot.epa.gov/sites/production/files/2015-07/documents/epa-to-15_0.pdf
- U.S. Environmental Protection Agency (EPA). 2000. *Meteorological Monitoring Guidance for Regulatory Modeling Applications, United State Environmental Protection Agency, Office of Air Quality Planning and Standards*. EPA-454/R-99-005. February.
- U.S. Environmental Protection Agency (EPA). 2007. *Guideline on the Meaning and the Use of Precision and Bias Data Required by 40 CFR Part 58 Appendix A, Version 1.1*. EPA-454/B-07-001. October.
- U.S. Environmental Protection Agency (EPA). 2017. *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II, Ambient Air Monitoring Program*. EPA-454/B-17-001. January.
- U.S. Environmental Protection Agency (EPA). 2025a. Air Data, Pre-Generated Data Files, Particulates 2024 PM10 Daily Mass. https://aqs.epa.gov/aqsweb/airdata/download_files.html#Meta.
- U.S. Environmental Protection Agency (EPA). 2024b. Regional Screening Levels – Generic Tables. <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>. November.

(This page intentionally left blank)

Figure 1 – SSFL Air Monitoring Locations

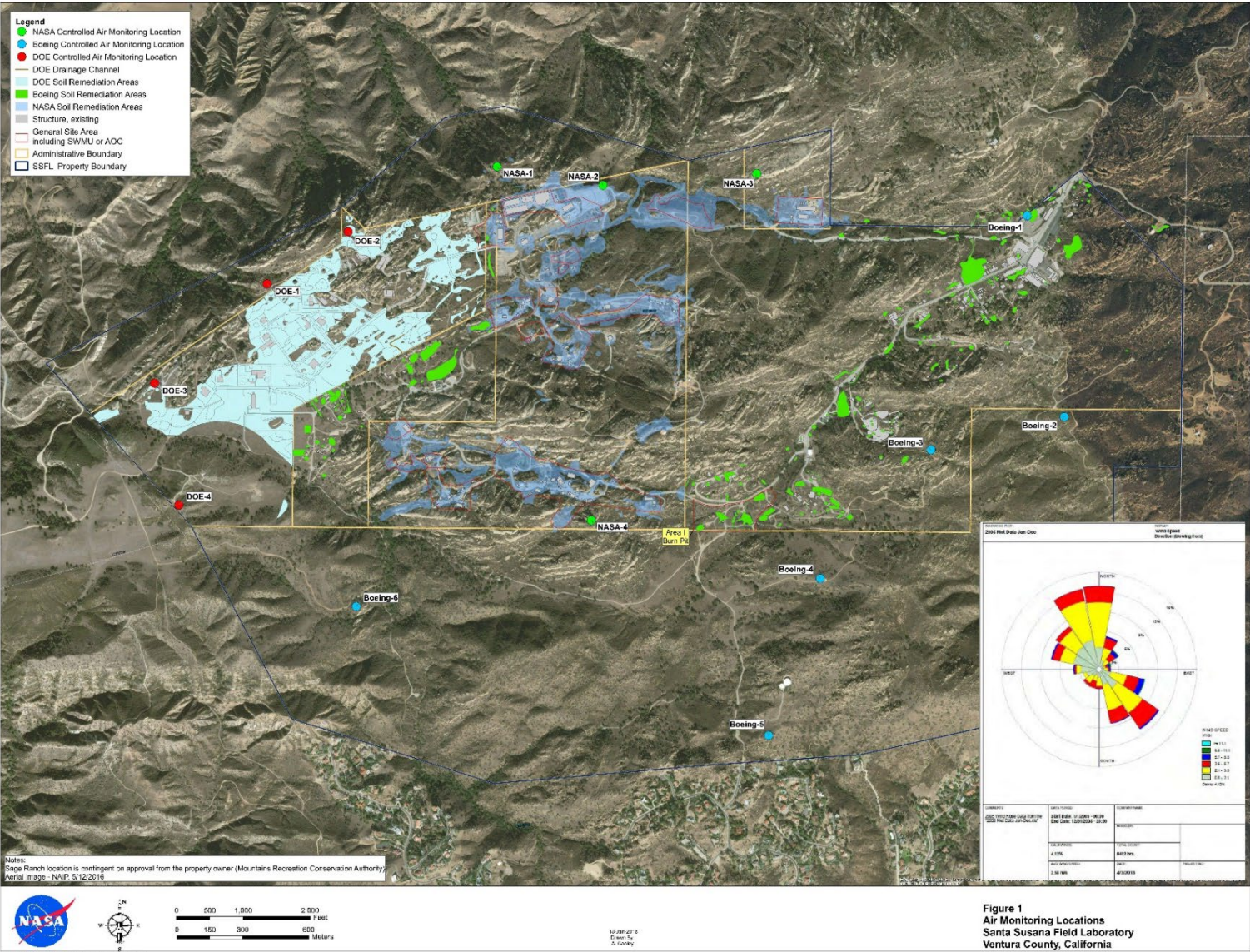
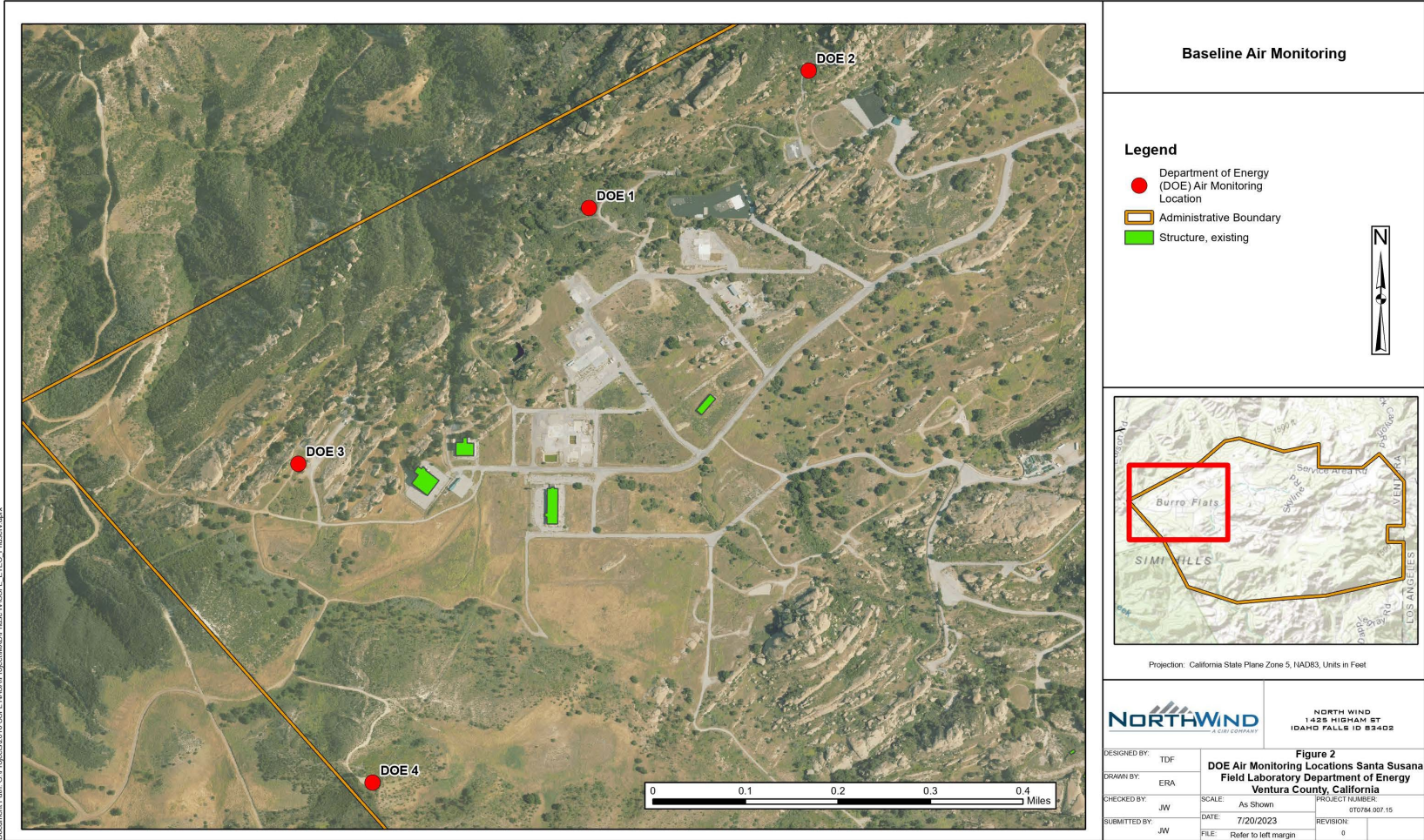
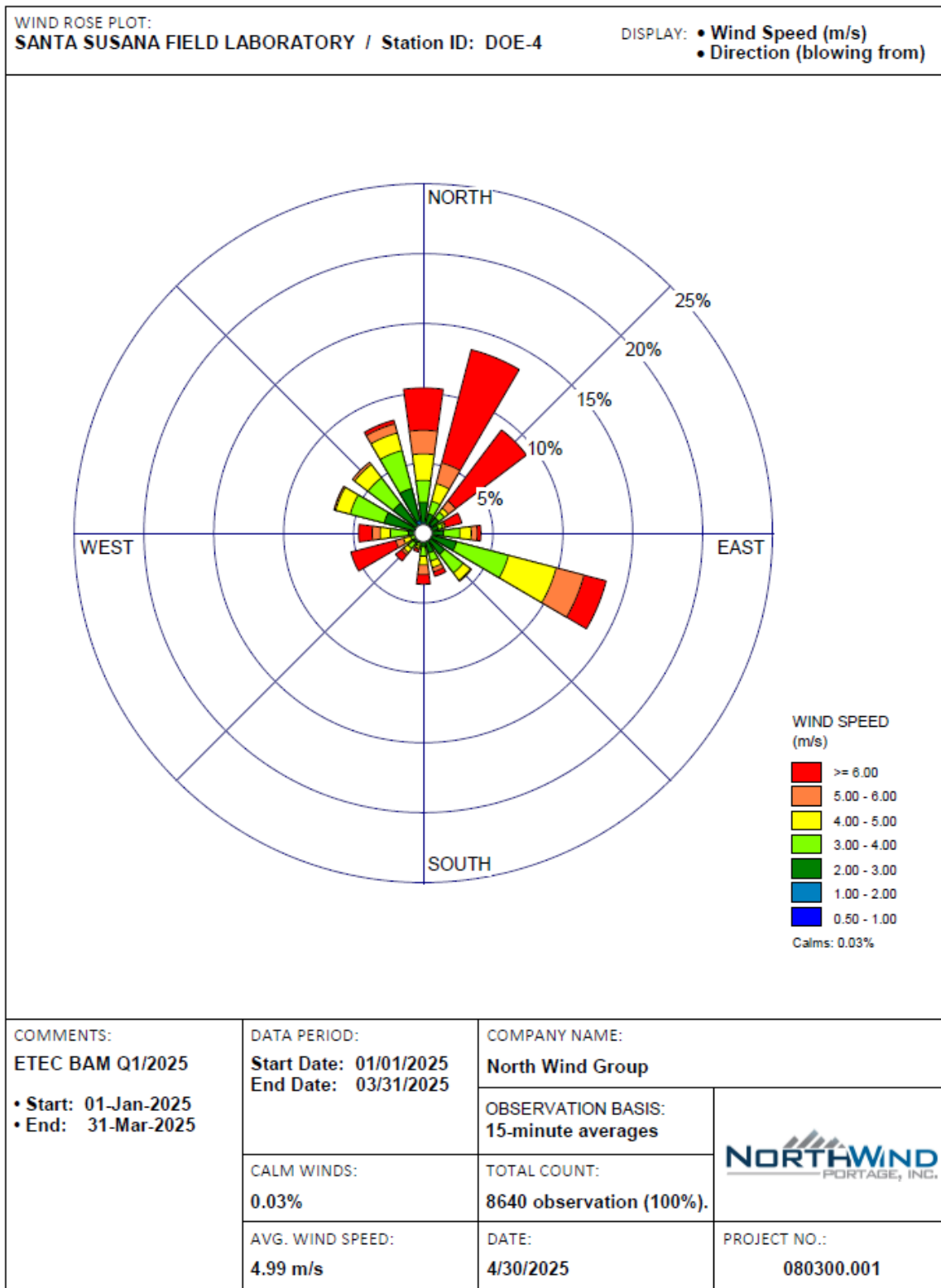


Figure 2 – DOE Air Monitoring Locations



Document Path: G:\Projects\2018_SSEL_LAS\A\Project\KMD\Phase IV\SSFL_ETEC_PhaseIV.dwg

Figure 3 – DOE Quarterly Wind Rose



(This page intentionally left blank)

APPENDIX A

PM₁₀ Daily Averages and Monthly Statistics

(This page intentionally left blank)

PM₁₀ Daily Averages

Site ID	DOE-1	DOE-2	DOE-3	DOE-4
Sample Date	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
01/01/2025	3.750	–	–	2.883
01/02/2025	4.916	–	–	3.541
01/03/2025	21.541	–	–	12.412
01/04/2025	8.583	–	–	2.962
01/05/2025	3.208	–	–	2.712
01/06/2025	3.000	–	–	2.691
01/07/2025	55.833	–	–	43.045
01/08/2025	38.166	–	–	59.775
01/09/2025	8.625	–	–	5.183
01/10/2025	7.500	–	–	5.441
01/11/2025	12.833	–	–	9.312
01/12/2025	2.416	–	–	2.125
01/13/2025	4.083	–	–	2.883
01/14/2025	2.916	–	–	2.237
01/15/2025	5.208	–	–	4.400
01/16/2025	6.666	–	–	4.029
01/17/2025	22.791	19.300	–	6.991
01/18/2025	14.083	10.541	–	7.737
01/19/2025	25.416	17.375	–	11.866
01/20/2025	19.833	24.250	19.555	10.891
01/21/2025	4.625	4.833	5.041	3.550
01/22/2025	6.083	9.541	6.625	4.345
01/23/2025	8.500	18.541	10.250	6.512
01/24/2025	5.375	5.041	5.875	3.650
01/25/2025	16.000	14.375	25.458	10.075
01/26/2025	4.083	3.875	5.916	2.145
01/27/2025	4.416	3.583	2.791	0.862
01/28/2025	5.666	5.291	4.750	4.741
01/29/2025	21.500	10.375	11.500	6.647
01/30/2025	12.958	11.291	15.083	4.850
01/31/2025	14.541	11.958	11.416	6.609
02/01/2025	9.541	7.958	7.500	–
02/02/2025	12.541	14.083	13.708	–
02/03/2025	20.583	14.500	18.416	–
02/04/2025	6.041	6.833	5.333	–
02/05/2025	0.916	-0.041	0.333	–

Site ID	DOE-1	DOE-2	DOE-3	DOE-4
Sample Date	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
02/06/2025	0.958	0.541	-0.625	–
02/07/2025	3.625	2.583	4.750	–
02/08/2025	3.833	3.791	1.958	–
02/09/2025	4.625	5.500	4.000	–
02/10/2025	15.416	11.541	12.666	–
02/11/2025	16.208	12.541	10.625	–
02/12/2025	7.833	3.291	6.045	–
02/13/2025	0.375	-0.083	-0.291	–
02/14/2025	8.083	10.291	8.416	–
02/15/2025	3.333	2.750	2.416	–
02/16/2025	2.625	3.041	1.958	–
02/17/2025	13.416	6.916	7.041	–
02/18/2025	6.125	5.958	4.875	8.000
02/19/2025	3.958	3.583	3.208	3.416
02/20/2025	9.750	7.041	6.869	6.666
02/21/2025	2.791	2.625	2.458	2.125
02/22/2025	2.375	1.833	1.583	1.750
02/23/2025	3.583	3.375	2.833	3.083
02/24/2025	8.041	7.208	6.541	6.958
02/25/2025	6.375	6.125	5.833	6.625
02/26/2025	2.458	2.208	2.541	1.958
02/27/2025	4.250	4.375	4.625	4.541
02/28/2025	14.166	9.083	9.833	10.500
03/01/2025	14.750	11.791	11.958	13.583
03/02/2025	12.125	9.791	9.208	8.333
03/03/2025	6.416	6.708	5.875	7.333
03/04/2025	17.208	15.041	15.416	12.125
03/05/2025	9.583	6.000	11.708	6.208
03/06/2025	3.541	3.125	4.916	2.416
03/07/2025	2.416	2.000	2.416	2.375
03/08/2025	6.125	6.250	5.291	5.125
03/09/2025	7.250	8.333	7.541	6.750
03/10/2025	5.458	4.625	4.000	3.625
03/11/2025	4.666	5.125	5.541	4.750
03/12/2025	1.708	1.166	1.541	0.083
03/13/2025	3.291	3.416	3.333	3.125

Site ID	DOE-1	DOE-2	DOE-3	DOE-4
Sample Date	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
03/14/2025	2.375	1.791	2.375	1.333
03/15/2025	7.750	7.166	7.375	6.875
03/16/2025	17.791	14.500	18.458	14.416
03/17/2025	12.708	11.291	15.083	9.833
03/18/2025	2.958	3.166	2.833	3.375
03/19/2025	3.208	3.458	3.208	2.916
03/20/2025	5.166	6.083	5.333	4.625
03/21/2025	7.761	6.086	6.956	5.045
03/22/2025	10.458	8.958	8.208	8.500
03/23/2025	26.250	12.750	12.500	11.250
03/24/2025	7.583	7.291	7.000	4.875
03/25/2025	28.818	9.500	13.708	10.000
03/26/2025	9.666	4.916	6.416	3.875
03/27/2025	6.125	4.250	4.000	3.958
03/28/2025	22.333	10.416	14.708	8.125
03/29/2025	23.291	10.833	12.750	10.291
03/30/2025	5.958	2.875	2.833	4.125
03/31/2025	10.916	2.375	3.375	2.708

Notes:

“—” indicates a filter sensor pressure failure with no value.

Negative values mean the background exceeded the particulate count.

Gray-shaded boxes with bold numbers indicate value exceeded CAAQS but is below the NAAQS of 150 µg/m³.

EPA – Simi Valley – Cochran Street – PM₁₀ Daily Averages, 01/01/2024–07/31/2024

Simi Valley PM ₁₀ Sample Date	Simi Valley AQS # 061112002
	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
01/01/24	10
01/02/24	11
01/03/24	7
01/04/24	5
01/05/24	15
01/06/24	12
01/07/24	6
01/08/24	6
01/13/24	14
01/14/24	21
01/15/24	19
01/16/24	12
01/17/24	15
01/18/24	22
01/19/24	23
01/20/24	9
01/21/24	4
01/22/24	2
01/23/24	3
01/24/24	14
01/25/24	8
01/26/24	3
01/27/24	1
01/28/24	2
01/29/24	9
01/30/24	12
01/31/24	20
02/01/24	3
02/02/24	9
02/03/24	9
02/04/24	3
02/05/24	1
02/06/24	1
02/07/24	5
02/08/24	4
02/09/24	4

Simi Valley PM ₁₀ Sample Date	Simi Valley AQS # 061112002
	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
02/10/24	4
02/11/24	5
02/12/24	5
02/13/24	10
02/14/24	13
02/15/24	8
02/16/24	12
02/17/24	14
02/18/24	3
02/19/24	0
02/20/24	0
02/21/24	3
02/22/24	8
02/23/24	4
02/24/24	6
02/25/24	8
02/26/24	10
02/27/24	7
02/28/24	11
02/29/24	11
03/01/24	1
03/02/24	3
03/03/24	6
03/04/24	7
03/05/24	9
03/06/24	5
03/07/24	3
03/08/24	11
03/09/24	8
03/10/24	6
03/11/24	7
03/12/24	11
03/13/24	12
03/14/24	47
03/15/24	11
03/16/24	12
03/17/24	12

Simi Valley PM ₁₀ Sample Date	Simi Valley AQS # 061112002
	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
03/18/24	11
03/19/24	18
03/20/24	18
03/21/24	21
03/22/24	21
03/23/24	9
03/24/24	4
03/25/24	11
03/26/24	18
03/27/24	16
03/28/24	11
03/29/24	9
03/30/24	3
03/31/24	1
04/01/24	4
04/02/24	9
04/03/24	11
04/04/24	10
04/05/24	5
04/06/24	6
04/07/24	8
04/08/24	8
04/09/24	9
04/10/24	16
04/11/24	20
04/12/24	19
04/13/24	8
04/14/24	3
04/15/24	5
04/16/24	8
04/17/24	12
04/18/24	19
04/19/24	20
04/20/24	21
04/21/24	20
04/22/24	19
04/23/24	7

Simi Valley PM ₁₀ Sample Date	Simi Valley AQS # 061112002
	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
04/24/24	13
04/25/24	10
04/26/24	21
04/27/24	13
04/28/24	15
04/29/24	21
04/30/24	29
05/01/24	36
05/02/24	32
05/03/24	31
05/04/24	17
05/05/24	6
05/06/24	9
05/07/24	16
05/08/24	26
05/09/24	34
05/10/24	29
05/11/24	23
05/12/24	18
05/13/24	25
05/14/24	23
05/15/24	16
05/16/24	16
05/17/24	15
05/18/24	14
05/19/24	11
05/20/24	15
05/21/24	25
05/22/24	24
05/23/24	27
05/24/24	25
05/25/24	12
05/26/24	13
05/27/24	20
05/28/24	21
05/29/24	24
05/30/24	27

Simi Valley PM ₁₀ Sample Date	Simi Valley AQS # 061112002
	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
05/31/24	24
06/01/24	17
06/02/24	14
06/03/24	19
06/04/24	28
06/05/24	25
06/06/24	23
06/07/24	16
06/08/24	14
06/09/24	8
06/10/24	18
06/11/24	20
06/12/24	22
06/13/24	15
06/14/24	25
06/15/24	31
06/16/24	57
06/17/24	41
06/18/24	42
06/19/24	38
06/20/24	33
06/21/24	32
06/22/24	28
06/23/24	13
06/24/24	20
06/25/24	29
06/26/24	32
06/27/24	33
06/28/24	35
06/29/24	31
06/30/24	16
07/01/24	24
07/02/24	29
07/03/24	27
07/04/24	27
07/05/24	36
07/06/24	35

Simi Valley PM ₁₀ Sample Date	Simi Valley AQS # 061112002
	PM ₁₀ (µg/m ³) (CAAQS 50 µg/m ³)
07/07/24	21
07/08/24	24
07/09/24	29
07/10/24	36
07/11/24	34
07/12/24	24
07/14/24	16
07/15/24	23
07/16/24	24
07/17/24	27
07/18/24	31
07/19/24	28
07/20/24	20
07/21/24	21
07/22/24	28
07/23/24	26
07/24/24	28
07/25/24	36
07/26/24	31
07/27/24	26
07/28/24	19
07/29/24	22
07/30/24	25
07/31/24	26

Notes:

Data supplied from https://aqs.epa.gov/aqsweb/airdata/download_files.html#Meta (2025a) Only the Simi Valley PM₁₀ data from the State and Local Air Monitoring Stations (SLAMS) have been reported here. The Simi Valley PM_{2.5} and the Reseda PM_{2.5} have not been reported here since this report discusses only PM₁₀ data, not PM_{2.5} data. This webpage page contains pre-generated files of data available for download. The files are updated twice per year: once in June to capture the complete data for the prior year, and once in December to capture the data for the summer (ozone season). At the time of writing this report, the data posted are the most current available.

Gray-shaded box with bold number indicates that the value exceeded CAAQS but is below the NAAQS of 150 µg/m³.

PM₁₀ Monthly Statistics

Location ID	January 2025			February 2025			March 2025		
	PM ₁₀			PM ₁₀			PM ₁₀		
	High	Low	95th PCTL	High	Low	95th PCTL	High	Low	95th PCTL
DOE-1	55.833	2.416	31.791	20.583	0.375	15.931	28.818	1.708	24.77
DOE-2	24.25	3.583	20.785	14.5	-0.083	13.543	15.041	1.166	13.625
DOE-3	25.458	2.791	22.211	18.416	-0.625	13.343	18.458	1.541	15.25
DOE-4	59.775	0.862	27.729	10.5	1.75	9.25	14.416	0.083	12.854

PCTL = percentile

EPA – Simi Valley – Cochran Street – PM₁₀ Monthly Statistics, 01/01/2024–07/31/2024

Location ID	January 2024			February 2024			March 2024		
	PM 2.5 / PM 10			PM 2.5 / PM 10			PM 2.5 / PM 10		
	High	Low	95th Pctl	High	Low	95th Pctl	High	Low	95 th Pctl
Simi Valley AQS # 061112002 (PM ₁₀)	23.00000	1.00000	21.70000	14.00000	0.00000	12.60000	47.00000	1.00000	21.00000

Location ID	April 2024			May 2024			June 2024		
	PM 10			PM 10			PM 10		
	High	Low	95th Pctl	High	Low	95th Pctl	High	Low	95th Pctl
Simi Valley AQS #061112002 (PM ₁₀)	29.00000	3.00000	21.00000	36.00000	6.00000	33.00000	57.00000	8.00000	41.55000

Location ID	July 2024		
	PM 10		
	High	Low	95th Pctl
Simi Valley AQS #061112002 (PM ₁₀)	36.00000	16.00000	36.00000

Notes:

Data supplied from https://aqg.epa.gov/aqgweb/airdata/download_files.html#Meta (2025a). Only the Simi Valley PM₁₀ data from the State and Local Air Monitoring Stations (SLAMS) have been reported here. The Simi Valley PM_{2.5} and the Reseda PM_{2.5} have not been reported here since this report discusses only PM₁₀ data, not PM_{2.5} data. This webpage contains pre-generated files of data available for download. The files are updated twice per year: once in June to capture the complete data for the prior year, and once in December to capture the data for the summer (ozone season).

APPENDIX B

Analytical Results for Ambient Air VOCs

(This page intentionally left blank)

Table B-1. Ambient air VOC detection results compared to Screening Level Values.

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-1	1/8/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.63	µg/m ³	0.59 J; J
DOE-1	1/8/2025	2-butanone	-	5200 ¹	0.34	1.4	µg/m ³	0.57 J; J
DOE-1	1/8/2025	Benzene	0.097	-	0.11	0.71	µg/m ³	0.40 J; J
DOE-1	1/8/2025	Carbon tetrachloride	-	0.47	0.10	0.73	µg/m ³	0.41 J; J
DOE-1	1/8/2025	Chloromethane	-	94 ¹	0.12	0.76	µg/m ³	0.40 J; J
DOE-1	1/8/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.73	µg/m ³	2.5 ;
DOE-1	1/8/2025	Ethyl acetate	-	73 ¹	11	28	µg/m ³	870 D;
DOE-1	1/8/2025	Isopropanol	-	210 ¹	0.31	1.4	µg/m ³	2.5 ;
DOE-1	1/8/2025	Methylene chloride	1	-	0.21	0.64	µg/m ³	0.40 J; J
DOE-1	1/8/2025	Tetrahydrofuran	-	2100	0.29	1.4	µg/m ³	0.32 J; J
DOE-1	1/8/2025	Toluene	440 ¹	-	0.091	0.76	µg/m ³	0.99 ;
DOE-1	1/8/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.71	µg/m ³	1.2 ;
DOE-1	1/8/2025	Vinyl acetate	-	210 ¹	1.7	7.5	µg/m ³	4.6 J; J
DOE-2	1/8/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.53 J; J
DOE-2	1/8/2025	Benzene	0.097	-	0.11	0.73	µg/m ³	0.31 J; J
DOE-2	1/8/2025	Carbon tetrachloride	-	0.47	0.11	0.75	µg/m ³	0.42 J; J
DOE-2	1/8/2025	Chloromethane	-	94 ¹	0.12	0.78	µg/m ³	0.56 J; J
DOE-2	1/8/2025	Dichlorodifluoromethane	-	100 ¹	0.13	0.75	µg/m ³	2.3 ;
DOE-2	1/8/2025	Ethyl acetate	-	73 ¹	1.1	2.9	µg/m ³	75 ;
DOE-2	1/8/2025	Isopropanol	-	210 ¹	0.32	1.4	µg/m ³	0.45 J; J
DOE-2	1/8/2025	Methylene chloride	1	-	0.22	0.66	µg/m ³	0.48 J; J
DOE-2	1/8/2025	Toluene	440 ¹	-	0.094	0.78	µg/m ³	0.45 J; J
DOE-2	1/8/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.73	µg/m ³	1.1 ;
DOE-3	1/8/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.63	µg/m ³	0.54 J; J
DOE-3	1/8/2025	Benzene	0.097	-	0.11	0.71	µg/m ³	0.28 J; J
DOE-3	1/8/2025	Carbon tetrachloride	-	0.47	0.10	0.72	µg/m ³	0.39 J; J
DOE-3	1/8/2025	Chloromethane	-	94 ¹	0.12	0.75	µg/m ³	0.40 J; J
DOE-3	1/8/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.72	µg/m ³	2.3 ;
DOE-3	1/8/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	58 ; J
DOE-3	1/8/2025	Isopropanol	-	210 ¹	0.31	1.4	µg/m ³	0.56 J; J
DOE-3	1/8/2025	Methylene chloride	1	-	0.21	0.64	µg/m ³	0.52 J; J
DOE-3	1/8/2025	Toluene	440 ¹	-	0.090	0.75	µg/m ³	0.37 J; J
DOE-3	1/8/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.71	µg/m ³	1.1 ;
DOE-4	1/8/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.10	0.61	µg/m ³	0.53 J; J
DOE-4	1/8/2025	Benzene	0.097	-	0.10	0.69	µg/m ³	0.33 J; J
DOE-4	1/8/2025	Carbon tetrachloride	-	0.47	0.10	0.71	µg/m ³	0.40 J; J
DOE-4	1/8/2025	Chloromethane	-	94 ¹	0.12	0.73	µg/m ³	0.37 J; J
DOE-4	1/8/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.71	µg/m ³	2.3 ;
DOE-4	1/8/2025	Ethyl acetate	-	73 ¹	1.0	2.7	µg/m ³	79 ;
DOE-4	1/8/2025	Methylene chloride	1	-	0.20	0.63	µg/m ³	0.33 J; J
DOE-4	1/8/2025	Toluene	440 ¹	-	0.088	0.73	µg/m ³	0.49 J; J

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-4	1/8/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.69	µg/m ³	1.1 ;
DOE-1	1/14/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.63	µg/m ³	0.50 J; J
DOE-1	1/14/2025	Benzene	0.097	-	0.11	0.72	µg/m ³	0.28 J; J
DOE-1	1/14/2025	Carbon tetrachloride	-	0.47	0.10	0.73	µg/m ³	0.39 J; J
DOE-1	1/14/2025	Chloromethane	-	94 ¹	0.12	0.76	µg/m ³	0.43 J; J
DOE-1	1/14/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.73	µg/m ³	2.3 ;
DOE-1	1/14/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	19 ;
DOE-1	1/14/2025	Isopropanol	-	210 ¹	0.31	1.4	µg/m ³	0.31 J; J
DOE-1	1/14/2025	Methylene chloride	1	-	0.21	0.65	µg/m ³	0.43 J; J
DOE-1	1/14/2025	Toluene	440 ¹	-	0.092	0.76	µg/m ³	0.20 J; J
DOE-1	1/14/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.72	µg/m ³	1.1 ;
DOE-2	1/14/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.10	0.62	µg/m ³	0.53 J; J
DOE-2	1/14/2025	Benzene	0.097	-	0.11	0.70	µg/m ³	0.26 J; J
DOE-2	1/14/2025	Carbon tetrachloride	-	0.47	0.10	0.72	µg/m ³	0.39 J; J
DOE-2	1/14/2025	Chloromethane	-	94 ¹	0.12	0.75	µg/m ³	0.40 J; J
DOE-2	1/14/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.72	µg/m ³	2.3 ;
DOE-2	1/14/2025	Ethyl acetate	-	73 ¹	1.0	2.8	µg/m ³	13 ;
DOE-2	1/14/2025	Methylene chloride	1	-	0.21	0.63	µg/m ³	0.41 J; J
DOE-2	1/14/2025	Toluene	440 ¹	-	0.090	0.75	µg/m ³	0.12 J; J
DOE-2	1/14/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.70	µg/m ³	1.1 ;
DOE-3	1/14/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.48 J; J
DOE-3	1/14/2025	Benzene	0.097	-	0.11	0.73	µg/m ³	0.25 J; J
DOE-3	1/14/2025	Carbon tetrachloride	-	0.47	0.11	0.75	µg/m ³	0.39 J; J
DOE-3	1/14/2025	Chloromethane	-	94 ¹	0.12	0.78	µg/m ³	0.42 J; J
DOE-3	1/14/2025	Dichlorodifluoromethane	-	100 ¹	0.13	0.75	µg/m ³	2.3 ;
DOE-3	1/14/2025	Ethyl acetate	-	73 ¹	1.1	2.9	µg/m ³	5.3 ;
DOE-3	1/14/2025	Methylene chloride	1	-	0.22	0.66	µg/m ³	0.40 J; J
DOE-3	1/14/2025	Toluene	440 ¹	-	0.094	0.78	µg/m ³	0.11 J; J
DOE-3	1/14/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.73	µg/m ³	1.1 ;
DOE-4	1/14/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.48 J; J
DOE-4	1/14/2025	Benzene	0.097	-	0.11	0.73	µg/m ³	0.25 J; J
DOE-4	1/14/2025	Carbon tetrachloride	-	0.47	0.11	0.75	µg/m ³	0.37 J; J
DOE-4	1/14/2025	Chloromethane	-	94 ¹	0.12	0.78	µg/m ³	0.42 J; J
DOE-4	1/14/2025	Dichlorodifluoromethane	-	100 ¹	0.13	0.75	µg/m ³	2.3 ; J
DOE-4	1/14/2025	Ethyl acetate	-	73 ¹	1.1	2.9	µg/m ³	2.4 J; J
DOE-4	1/14/2025	Methylene chloride	1	-	0.22	0.66	µg/m ³	0.44 J; J
DOE-4	1/14/2025	Toluene	440 ¹	-	0.094	0.78	µg/m ³	0.099 J; J
DOE-4	1/14/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.73	µg/m ³	1.1 ; J
DOE-1	1/29/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.51 J;
DOE-1	1/29/2025	2-butanone	-	5200 ¹	0.34	1.4	µg/m ³	1.1 J;
DOE-1	1/29/2025	4-isopropyltoluene	-	-	0.11	0.73	µg/m ³	0.16 J;

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-1	1/29/2025	Acrolein	-	0.021	0.44	1.5	µg/m ³	1.3 J;
DOE-1	1/29/2025	Benzene	0.097	-	0.11	0.72	µg/m ³	0.55 J;
DOE-1	1/29/2025	Carbon tetrachloride	-	0.47	0.10	0.72	µg/m ³	0.42 J;
DOE-1	1/29/2025	Chloromethane	-	94 ¹	0.12	0.75	µg/m ³	0.36 J;
DOE-1	1/29/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.71	µg/m ³	2.4 ;
DOE-1	1/29/2025	Ethyl acetate	-	73 ¹	1.1	2.7	µg/m ³	35 ;
DOE-1	1/29/2025	Hexane, n-	-	730	0.16	0.73	µg/m ³	0.29 J;
DOE-1	1/29/2025	Isopropanol	-	210 ¹	0.31	1.5	µg/m ³	1.6 ;
DOE-1	1/29/2025	Methylene chloride	1	-	0.21	0.64	µg/m ³	0.54 J;
DOE-1	1/29/2025	m-xylene & p-xylene	-	100	0.20	1.5	µg/m ³	0.25 J;
DOE-1	1/29/2025	N-heptane	-	420	0.12	0.73	µg/m ³	0.17 J;
DOE-1	1/29/2025	Toluene	440 ¹	-	0.092	0.77	µg/m ³	0.86 ;
DOE-1	1/29/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.71	µg/m ³	1.2 ;
DOE-1	1/29/2025	Xylenes, total	-	100	0.20	1.5	µg/m ³	0.25 J;
DOE-2	1/29/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.50 J;
DOE-2	1/29/2025	2-butanone	-	5200 ¹	0.34	1.4	µg/m ³	0.65 J;
DOE-2	1/29/2025	4-isopropyltoluene	-	-	0.12	0.74	µg/m ³	0.13 J;
DOE-2	1/29/2025	Benzene	0.097	-	0.11	0.72	µg/m ³	0.49 J;
DOE-2	1/29/2025	Carbon disulfide	-	730	0.23	1.5	µg/m ³	0.79 J;
DOE-2	1/29/2025	Carbon tetrachloride	-	0.47	0.11	0.72	µg/m ³	0.42 J;
DOE-2	1/29/2025	Chloromethane	-	94 ¹	0.12	0.75	µg/m ³	0.38 J;
DOE-2	1/29/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.72	µg/m ³	2.5 ;
DOE-2	1/29/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	20 ;
DOE-2	1/29/2025	Hexane, n-	-	730	0.16	0.74	µg/m ³	0.26 J;
DOE-2	1/29/2025	Isopropanol	-	210 ¹	0.31	1.5	µg/m ³	1.1 J;
DOE-2	1/29/2025	Methylene chloride	1	-	0.21	0.65	µg/m ³	0.42 J;
DOE-2	1/29/2025	m-xylene & p-xylene	-	100	0.20	1.5	µg/m ³	0.23 J;
DOE-2	1/29/2025	N-heptane	-	420	0.12	0.74	µg/m ³	0.17 J;
DOE-2	1/29/2025	Toluene	440 ¹	-	0.092	0.77	µg/m ³	0.73 J;
DOE-2	1/29/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.72	µg/m ³	1.2 ;
DOE-2	1/29/2025	Xylenes, total	-	100	0.20	1.5	µg/m ³	0.23 J;
DOE-3	1/29/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.49 J;
DOE-3	1/29/2025	2-butanone	-	5200 ¹	0.34	1.4	µg/m ³	0.71 J;
DOE-3	1/29/2025	4-isopropyltoluene	-	-	0.12	0.74	µg/m ³	0.12 J;
DOE-3	1/29/2025	Benzene	0.097	-	0.11	0.72	µg/m ³	0.50 J;
DOE-3	1/29/2025	Carbon tetrachloride	-	0.47	0.11	0.72	µg/m ³	0.41 J;
DOE-3	1/29/2025	Chloromethane	-	94 ¹	0.12	0.75	µg/m ³	0.33 J;
DOE-3	1/29/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.72	µg/m ³	2.4 ;
DOE-3	1/29/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	61 ;
DOE-3	1/29/2025	Hexane, n-	-	730	0.16	0.74	µg/m ³	0.26 J;
DOE-3	1/29/2025	Isopropanol	-	210 ¹	0.31	1.5	µg/m ³	1.3 J;
DOE-3	1/29/2025	Methylene chloride	1	-	0.21	0.65	µg/m ³	0.42 J;
DOE-3	1/29/2025	m-xylene & p-xylene	-	100	0.20	1.5	µg/m ³	0.23 J;
DOE-3	1/29/2025	N-heptane	-	420	0.12	0.74	µg/m ³	0.13 J;

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-3	1/29/2025	Toluene	440 ¹	-	0.092	0.77	µg/m ³	0.79 ;
DOE-3	1/29/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.72	µg/m ³	1.2 ;
DOE-3	1/29/2025	Xylenes, total	-	100	0.20	1.5	µg/m ³	0.23 J;
DOE-4	1/29/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.51 J;
DOE-4	1/29/2025	2-butanone	-	5200 ¹	0.34	1.4	µg/m ³	0.67 J;
DOE-4	1/29/2025	Benzene	0.097	-	0.11	0.72	µg/m ³	0.51 J;
DOE-4	1/29/2025	Carbon tetrachloride	-	0.47	0.11	0.72	µg/m ³	0.41 J;
DOE-4	1/29/2025	Chloromethane	-	94 ¹	0.12	0.75	µg/m ³	0.37 J;
DOE-4	1/29/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.72	µg/m ³	2.4 ;
DOE-4	1/29/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	49 ;
DOE-4	1/29/2025	Hexane, n-	-	730	0.16	0.74	µg/m ³	0.27 J;
DOE-4	1/29/2025	Isopropanol	-	210 ¹	0.31	1.5	µg/m ³	1.2 J;
DOE-4	1/29/2025	Methylene chloride	1	-	0.21	0.65	µg/m ³	0.42 J;
DOE-4	1/29/2025	m-xylene & p-xylene	-	100	0.20	1.5	µg/m ³	0.22 J;
DOE-4	1/29/2025	N-heptane	-	420	0.12	0.74	µg/m ³	0.14 J;
DOE-4	1/29/2025	Toluene	440 ¹	-	0.092	0.77	µg/m ³	0.88 ;
DOE-4	1/29/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.72	µg/m ³	1.2 ;
DOE-4	1/29/2025	Xylenes, total	-	100	0.20	1.5	µg/m ³	0.22 J;
DOE-1	2/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.099	0.60	µg/m ³	0.50 J;
DOE-1	2/13/2025	2-butanone	-	5200 ¹	0.31	1.3	µg/m ³	0.41 J;
DOE-1	2/13/2025	Benzene	0.097	-	0.10	0.66	µg/m ³	0.34 J;
DOE-1	2/13/2025	Carbon disulfide	-	730	0.21	1.3	µg/m ³	0.36 J;
DOE-1	2/13/2025	Carbon tetrachloride	-	0.47	0.096	0.66	µg/m ³	0.40 J;
DOE-1	2/13/2025	Chloroform	-	0.12	0.092	0.69	µg/m ³	0.095 J;
DOE-1	2/13/2025	Chloromethane	-	94	0.11	0.69	µg/m ³	0.33 J;
DOE-1	2/13/2025	Dichlorodifluoromethane	-	100 ¹	0.11	0.66	µg/m ³	2.4 ;
DOE-1	2/13/2025	Ethyl acetate	-	73 ¹	0.99	2.5	µg/m ³	8.9 ;
DOE-1	2/13/2025	Hexane, n-	-	730	0.14	0.68	µg/m ³	0.18 J;
DOE-1	2/13/2025	Isopropanol	-	210 ¹	0.29	1.3	µg/m ³	0.81 J;
DOE-1	2/13/2025	Methylene chloride	1	-	0.20	0.59	µg/m ³	0.43 J;
DOE-1	2/13/2025	m-xylene & p-xylene	-	100	0.18	1.4	µg/m ³	0.21 J;
DOE-1	2/13/2025	Tetrahydrofuran	-	2100	0.27	1.2	µg/m ³	0.38 J;
DOE-1	2/13/2025	Toluene	440 ¹	-	0.085	0.71	µg/m ³	0.41 J;
DOE-1	2/13/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.66	µg/m ³	1.1 ;
DOE-1	2/13/2025	Xylenes, total	-	100	0.18	1.4	µg/m ³	0.21 J;
DOE-2	2/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.10	0.62	µg/m ³	0.47 J;
DOE-2	2/13/2025	1,2,4-trimethylbenzene	-	63	0.099	0.70	µg/m ³	0.13 J;
DOE-2	2/13/2025	2-butanone	-	5200 ¹	0.32	1.4	µg/m ³	1.7 ;
DOE-2	2/13/2025	4-isopropyltoluene	-	-	0.11	0.70	µg/m ³	0.22 J;
DOE-2	2/13/2025	Acrolein	-	0.021	0.42	1.5	µg/m ³	0.71 J;
DOE-2	2/13/2025	Benzene	0.097	-	0.10	0.68	µg/m ³	0.61 J;
DOE-2	2/13/2025	Carbon disulfide	-	730	0.21	1.4	µg/m ³	24 ;
DOE-2	2/13/2025	Carbon tetrachloride	-	0.47	0.099	0.68	µg/m ³	0.39 J;

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-2	2/13/2025	Chloroform	-	0.12	0.095	0.71	µg/m ³	0.096 J;
DOE-2	2/13/2025	Chloromethane	-	94	0.12	0.71	µg/m ³	0.15 J;
DOE-2	2/13/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.68	µg/m ³	2.0 ;
DOE-2	2/13/2025	Ethyl acetate	-	73 ¹	1.0	2.6	µg/m ³	11 ;
DOE-2	2/13/2025	Ethylbenzene	-	1.1	0.10	0.73	µg/m ³	0.12 J;
DOE-2	2/13/2025	Hexane, n-	-	730	0.15	0.70	µg/m ³	0.39 J;
DOE-2	2/13/2025	Isopropanol	-	210 ¹	0.29	1.4	µg/m ³	1.2 J;
DOE-2	2/13/2025	Methylene chloride	1	-	0.20	0.61	µg/m ³	0.44 J;
DOE-2	2/13/2025	m-xylene & p-xylene	-	100	0.19	1.4	µg/m ³	0.49 J;
DOE-2	2/13/2025	N-heptane	-	420	0.11	0.70	µg/m ³	0.22 J;
DOE-2	2/13/2025	o-Xylene (1,2-dimethylbenzene)	-	100	0.10	0.72	µg/m ³	0.15 J;
DOE-2	2/13/2025	Styrene	940	-	0.12	0.71	µg/m ³	0.23 J;
DOE-2	2/13/2025	Toluene	440 ¹	-	0.087	0.73	µg/m ³	1.2 ;
DOE-2	2/13/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.68	µg/m ³	1.1 ;
DOE-2	2/13/2025	Xylenes, total	-	100	0.19	1.4	µg/m ³	0.64 J;
DOE-3	2/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.49 J;
DOE-3	2/13/2025	2-butanone	-	5200 ¹	0.34	1.4	µg/m ³	0.45 J;
DOE-3	2/13/2025	Benzene	0.097	-	0.11	0.72	µg/m ³	0.34 J;
DOE-3	2/13/2025	Carbon disulfide	-	730	0.23	1.5	µg/m ³	0.31 J;
DOE-3	2/13/2025	Carbon tetrachloride	-	0.47	0.10	0.72	µg/m ³	0.39 J;
DOE-3	2/13/2025	Chloromethane	-	94	0.12	0.75	µg/m ³	0.32 J;
DOE-3	2/13/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.71	µg/m ³	2.3 ;
DOE-3	2/13/2025	Ethyl acetate	-	73 ¹	1.1	2.7	µg/m ³	5.9 ;
DOE-3	2/13/2025	Hexane, n-	-	730	0.16	0.73	µg/m ³	0.16 J;
DOE-3	2/13/2025	Isopropanol	-	210	0.31	1.5	µg/m ³	0.95 J;
DOE-3	2/13/2025	Methylene chloride	1	-	0.21	0.64	µg/m ³	0.43 J;
DOE-3	2/13/2025	Toluene	440 ¹	-	0.092	0.77	µg/m ³	0.38 J;
DOE-3	2/13/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.71	µg/m ³	1.1 ;
DOE-4	2/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.67	µg/m ³	0.48 J;
DOE-4	2/13/2025	Benzene	0.097	-	0.11	0.74	µg/m ³	0.35 J;
DOE-4	2/13/2025	Carbon tetrachloride	-	0.47	0.11	0.74	µg/m ³	0.38 J;
DOE-4	2/13/2025	Chloromethane	-	94	0.13	0.77	µg/m ³	0.29 J;
DOE-4	2/13/2025	Dichlorodifluoromethane	-	100 ¹	0.13	0.74	µg/m ³	2.3 ;
DOE-4	2/13/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	3.5 ;
DOE-4	2/13/2025	Isopropanol	-	210	0.32	1.5	µg/m ³	0.57 J;
DOE-4	2/13/2025	Methylene chloride	1	-	0.22	0.66	µg/m ³	0.42 J;
DOE-4	2/13/2025	Toluene	440 ¹	-	0.095	0.80	µg/m ³	0.42 J;
DOE-4	2/13/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.74	µg/m ³	1.1 ;
DOE-1	2/26/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.12	0.72	µg/m ³	0.45 J;
DOE-1	2/26/2025	2-butanone	-	5200 ¹	0.37	1.6	µg/m ³	0.48 J;
DOE-1	2/26/2025	Benzene	0.097	-	0.12	0.80	µg/m ³	0.24 J;
DOE-1	2/26/2025	Carbon tetrachloride	-	0.47	0.12	0.80	µg/m ³	0.38 J;

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-1	2/26/2025	Chloromethane	-	94	0.13	0.83	µg/m ³	0.33 J;
DOE-1	2/26/2025	Dichlorodifluoromethane	-	100 ¹	0.14	0.79	µg/m ³	2.0 ;
DOE-1	2/26/2025	Ethyl acetate	-	73 ¹	1.2	3.0	µg/m ³	19 ;
DOE-1	2/26/2025	Isopropanol	-	210	0.34	1.6	µg/m ³	0.52 J;
DOE-1	2/26/2025	Methylene chloride	1	-	0.23	0.71	µg/m ³	0.42 J;
DOE-1	2/26/2025	Toluene	440 ¹	-	0.10	0.85	µg/m ³	0.26 J;
DOE-1	2/26/2025	Trichlorofluoromethane	1300 ¹	-	0.13	0.79	µg/m ³	1.0 ;
DOE-2	2/26/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.67	µg/m ³	0.47 J;
DOE-2	2/26/2025	2-butanone	-	5200 ¹	0.35	1.5	µg/m ³	0.38 J;
DOE-2	2/26/2025	Benzene	0.097	-	0.11	0.74	µg/m ³	0.21 J;
DOE-2	2/26/2025	Carbon tetrachloride	-	0.47	0.11	0.74	µg/m ³	0.40 J;
DOE-2	2/26/2025	Chloromethane	-	94	0.12	0.77	µg/m ³	0.31 J;
DOE-2	2/26/2025	Dichlorodifluoromethane	-	100 ¹	0.13	0.73	µg/m ³	2.1 ;
DOE-2	2/26/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	9.1 ;
DOE-2	2/26/2025	Methylene chloride	1	-	0.22	0.66	µg/m ³	0.34 J;
DOE-2	2/26/2025	Tetrachloroethene	0.46	-	0.10	0.78	µg/m ³	0.19 J;
DOE-2	2/26/2025	Toluene	440 ¹	-	0.094	0.79	µg/m ³	0.20 J;
DOE-2	2/26/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.73	µg/m ³	1.1 ;
DOE-3	2/26/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.12	0.70	µg/m ³	0.49 J;
DOE-3	2/26/2025	2-butanone	-	5200 ¹	0.37	1.6	µg/m ³	0.65 J;
DOE-3	2/26/2025	Benzene	0.097	-	0.12	0.78	µg/m ³	0.23 J;
DOE-3	2/26/2025	Carbon tetrachloride	-	0.47	0.11	0.78	µg/m ³	0.41 J;
DOE-3	2/26/2025	Chloromethane	-	94	0.13	0.81	µg/m ³	0.35 J;
DOE-3	2/26/2025	Dichlorodifluoromethane	-	100 ¹	0.13	0.77	µg/m ³	2.2 ;
DOE-3	2/26/2025	Ethyl acetate	-	73 ¹	1.2	3.0	µg/m ³	9.9 ;
DOE-3	2/26/2025	Methylene chloride	1	-	0.23	0.70	µg/m ³	0.37 J;
DOE-3	2/26/2025	Toluene	440 ¹	-	0.099	0.83	µg/m ³	0.19 J;
DOE-3	2/26/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.77	µg/m ³	1.1 ;
DOE-4	2/26/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.12	0.70	µg/m ³	0.47 J;
DOE-4	2/26/2025	2-butanone	-	5200 ¹	0.36	1.6	µg/m ³	0.40 J;
DOE-4	2/26/2025	Acrylonitrile	-	0.041	0.38	1.6	µg/m ³	5.4 ;
DOE-4	2/26/2025	Benzene	0.097	-	0.12	0.78	µg/m ³	0.21 J;
DOE-4	2/26/2025	Carbon tetrachloride	-	0.47	0.11	0.78	µg/m ³	0.40 J;
DOE-4	2/26/2025	Chloromethane	-	94	0.13	0.81	µg/m ³	0.34 J;
DOE-4	2/26/2025	Dichlorodifluoromethane	-	100 ¹	0.13	0.77	µg/m ³	2.1 ;
DOE-4	2/26/2025	Ethyl acetate	-	73 ¹	1.2	3.0	µg/m ³	6.8 ;
DOE-4	2/26/2025	Methylene chloride	1	-	0.23	0.69	µg/m ³	0.34 J;
DOE-4	2/26/2025	Toluene	440 ¹	-	0.099	0.83	µg/m ³	0.18 J;
DOE-4	2/26/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.77	µg/m ³	1.1 ;
DOE-1	3/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.10	0.62	µg/m ³	0.51 J;
DOE-1	3/13/2025	1,2-Dichloroethane	-	0.11	0.080	0.68	µg/m ³	0.084 J;
DOE-1	3/13/2025	Benzene	0.097	-	0.10	0.69	µg/m ³	0.38 J;

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-1	3/13/2025	Carbon disulfide	-	730	0.22	1.4	µg/m ³	0.22 J;
DOE-1	3/13/2025	Carbon tetrachloride	-	0.47	0.10	0.69	µg/m ³	0.40 J;
DOE-1	3/13/2025	Chloromethane	-	94	0.12	0.72	µg/m ³	0.39 J;
DOE-1	3/13/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.68	µg/m ³	2.1 ;
DOE-1	3/13/2025	Ethyl acetate	-	73 ¹	1.0	2.6	µg/m ³	39 ;
DOE-1	3/13/2025	Methylene chloride	1	-	0.20	0.61	µg/m ³	0.40 J;
DOE-1	3/13/2025	Tetrahydrofuran	-	2100	0.28	1.3	µg/m ³	1.2 J;
DOE-1	3/13/2025	Toluene	440 ¹	-	0.088	0.74	µg/m ³	0.61 J;
DOE-1	3/13/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.68	µg/m ³	1.2 ;
DOE-2	3/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.65	µg/m ³	0.53 J;
DOE-2	3/13/2025	1,2,4-trimethylbenzene	-	63	0.11	0.75	µg/m ³	1.5 ;
DOE-2	3/13/2025	1,3,5-trimethylbenzene	-	63	0.11	0.77	µg/m ³	0.24 J;
DOE-2	3/13/2025	2-butanone	-	5200 ¹	0.34	1.4	µg/m ³	0.87 J;
DOE-2	3/13/2025	4-ethyltoluene	-		0.12	0.74	µg/m ³	0.52 J;
DOE-2	3/13/2025	4-methyl-2-pentanone	-	3100	0.27	1.5	µg/m ³	3.3 ;
DOE-2	3/13/2025	Benzene	0.097	-	0.11	0.72	µg/m ³	0.33 J;
DOE-2	3/13/2025	Carbon tetrachloride	-	0.47	0.11	0.72	µg/m ³	0.39 J;
DOE-2	3/13/2025	Chloromethane	-	94	0.12	0.75	µg/m ³	0.38 J;
DOE-2	3/13/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.72	µg/m ³	2.1 ;
DOE-2	3/13/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	12 ;
DOE-2	3/13/2025	Ethylbenzene	-	1.1	0.11	0.77	µg/m ³	0.12 J;
DOE-2	3/13/2025	Isopropanol	-	210	0.31	1.5	µg/m ³	0.33 J;
DOE-2	3/13/2025	Isopropylbenzene	-	420	0.11	0.75	µg/m ³	0.42 J;
DOE-2	3/13/2025	Methylene chloride	1	-	0.21	0.65	µg/m ³	0.51 J;
DOE-2	3/13/2025	m-xylene & p-xylene	-	100	0.20	1.5	µg/m ³	0.60 J;
DOE-2	3/13/2025	N-propylbenzene	-	1000	0.11	0.74	µg/m ³	0.29 J;
DOE-2	3/13/2025	o-Xylene (1,2-dimethylbenzene)	-	100	0.11	0.77	µg/m ³	0.43 J;
DOE-2	3/13/2025	Toluene	440 ¹	-	0.092	0.77	µg/m ³	0.78 ;
DOE-2	3/13/2025	Trichloroethene	-	0.48	0.10	0.75	µg/m ³	0.14 J;
DOE-2	3/13/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.72	µg/m ³	1.3 ;
DOE-2	3/13/2025	Xylenes, total	-	100	0.20	1.5	µg/m ³	1.0 J;
DOE-3	3/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.098	0.59	µg/m ³	0.53 J;
DOE-3	3/13/2025	1,2,4-trimethylbenzene	-	63	0.095	0.68	µg/m ³	0.21 J;
DOE-3	3/13/2025	1,2-Dichloroethane	-	0.11	0.076	0.65	µg/m ³	0.081 J;
DOE-3	3/13/2025	2-butanone	-	5200 ¹	0.31	1.3	µg/m ³	0.36 J;
DOE-3	3/13/2025	Benzene	0.097	-	0.099	0.66	µg/m ³	1.2 ;
DOE-3	3/13/2025	Carbon tetrachloride	-	0.47	0.095	0.66	µg/m ³	0.42 J;
DOE-3	3/13/2025	Chloromethane	-	94	0.11	0.68	µg/m ³	0.42 J;
DOE-3	3/13/2025	Dichlorodifluoromethane	-	100 ¹	0.11	0.65	µg/m ³	2.1 ;
DOE-3	3/13/2025	Ethyl acetate	-	73 ¹	0.98	2.5	µg/m ³	8.7 ;
DOE-3	3/13/2025	Isopropylbenzene	-	420	0.099	0.68	µg/m ³	0.17 J;
DOE-3	3/13/2025	Methylene chloride	1	-	0.19	0.59	µg/m ³	0.43 J;
DOE-3	3/13/2025	Naphthalene	-	0.083	0.17	1.4	µg/m ³	0.22 J;

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-3	3/13/2025	Toluene	440 ¹	-	0.084	0.70	µg/m ³	0.20 J;
DOE-3	3/13/2025	Trichloroethene	-	0.48	0.093	0.68	µg/m ³	0.11 J;
DOE-3	3/13/2025	Trichlorofluoromethane	1300 ¹	-	0.10	0.65	µg/m ³	1.3 ;
DOE-4	3/13/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.10	0.63	µg/m ³	0.51 J;
DOE-4	3/13/2025	Benzene	0.097	-	0.11	0.70	µg/m ³	0.35 J;
DOE-4	3/13/2025	Carbon tetrachloride	-	0.47	0.10	0.70	µg/m ³	0.42 J;
DOE-4	3/13/2025	Chloromethane	-	94	0.12	0.73	µg/m ³	0.44 J;
DOE-4	3/13/2025	Dichlorodifluoromethane	-	100 ¹	0.12	0.69	µg/m ³	2.2 ;
DOE-4	3/13/2025	Ethyl acetate	-	73 ¹	1.0	2.7	µg/m ³	11 ;
DOE-4	3/13/2025	Isopropanol	-	210	0.30	1.4	µg/m ³	0.32 J;
DOE-4	3/13/2025	Methylene chloride	1	-	0.21	0.62	µg/m ³	0.42 J;
DOE-4	3/13/2025	Toluene	440 ¹	-	0.089	0.75	µg/m ³	0.20 J;
DOE-4	3/13/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.69	µg/m ³	1.3 ;
DOE-1	3/28/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.67	µg/m ³	0.49 J;
DOE-1	3/28/2025	2-butanone	-	5200 ¹	0.35	1.5	µg/m ³	0.98 J;
DOE-1	3/28/2025	Benzene	0.097	-	0.11	0.74	µg/m ³	0.19 J;
DOE-1	3/28/2025	Carbon tetrachloride	-	0.47	0.11	0.74	µg/m ³	0.37 J;
DOE-1	3/28/2025	Chloromethane	-	94	0.12	0.77	µg/m ³	0.28 J;
DOE-1	3/28/2025	Dichlorodifluoromethane	-	100	0.13	0.73	µg/m ³	2.3 ;
DOE-1	3/28/2025	Ethyl acetate	-	73 ¹	1.1	2.8	µg/m ³	8.6 ;
DOE-1	3/28/2025	Isopropanol	-	210	0.32	1.5	µg/m ³	1.1 J;
DOE-1	3/28/2025	Methylene chloride	1	-	0.22	0.66	µg/m ³	0.44 J;
DOE-1	3/28/2025	Toluene	440 ¹	-	0.094	0.79	µg/m ³	0.29 J;
DOE-1	3/28/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.73	µg/m ³	1.2 ;
DOE-2	3/28/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.10	0.63	µg/m ³	0.46 J;
DOE-2	3/28/2025	Benzene	0.097	-	0.10	0.69	µg/m ³	0.19 J;
DOE-2	3/28/2025	Carbon tetrachloride	-	0.47	0.10	0.69	µg/m ³	0.37 J;
DOE-2	3/28/2025	Chloromethane	-	94	0.12	0.72	µg/m ³	0.27 J;
DOE-2	3/28/2025	Dichlorodifluoromethane	-	100	0.12	0.69	µg/m ³	2.1 ;
DOE-2	3/28/2025	Ethyl acetate	-	73 ¹	1.0	2.7	µg/m ³	6.9 ;
DOE-2	3/28/2025	Isopropanol	-	210	0.30	1.4	µg/m ³	0.95 J;
DOE-2	3/28/2025	Methylene chloride	1	-	0.20	0.62	µg/m ³	1.0 ;
DOE-2	3/28/2025	Toluene	440 ¹	-	0.088	0.74	µg/m ³	0.20 J;
DOE-2	3/28/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.69	µg/m ³	1.1 ;
DOE-3	3/28/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.64	µg/m ³	0.49 J;
DOE-3	3/28/2025	Benzene	0.097	-	0.11	0.71	µg/m ³	0.16 J;
DOE-3	3/28/2025	Carbon tetrachloride	-	0.47	0.10	0.71	µg/m ³	0.40 J;
DOE-3	3/28/2025	Chloromethane	-	94	0.12	0.74	µg/m ³	0.27 J;
DOE-3	3/28/2025	Dichlorodifluoromethane	-	100	0.12	0.71	µg/m ³	2.3 ;
DOE-3	3/28/2025	Ethyl acetate	-	73 ¹	1.1	2.7	µg/m ³	5.8 ;
DOE-3	3/28/2025	Isopropanol	-	210	0.31	1.4	µg/m ³	0.96 J;
DOE-3	3/28/2025	Methylene chloride	1	-	0.21	0.64	µg/m ³	0.42 J;

ID	Sample Date	Analyte	DTSC HHRA NOTE 3	US EPA RSL	MDL	MRL	Unit	Result
DOE-3	3/28/2025	Toluene	440 ¹	-	0.091	0.76	µg/m ³	0.17 J;
DOE-3	3/28/2025	Trichlorofluoromethane	1300 ¹	-	0.11	0.71	µg/m ³	1.2 ;
DOE-4	3/28/2025	1,1,2-trichloro-1,2,2-trifluoroethane	-	5200 ¹	0.11	0.68	µg/m ³	0.51 J;
DOE-4	3/28/2025	Benzene	0.097	-	0.11	0.75	µg/m ³	0.18 J;
DOE-4	3/28/2025	Carbon tetrachloride	-	0.47	0.11	0.75	µg/m ³	0.41 J;
DOE-4	3/28/2025	Chloromethane	-	94	0.13	0.78	µg/m ³	0.30 J;
DOE-4	3/28/2025	Dichlorodifluoromethane	-	100	0.13	0.74	µg/m ³	2.3 ;
DOE-4	3/28/2025	Ethyl acetate	-	73 ¹	1.1	2.9	µg/m ³	5.6 ;
DOE-4	3/28/2025	Isopropanol	-	210	0.32	1.5	µg/m ³	0.83 J;
DOE-4	3/28/2025	Methylene chloride	1	-	0.22	0.67	µg/m ³	0.44 J;
DOE-4	3/28/2025	Tetrahydrofuran	-	2100	0.31	1.4	µg/m ³	1.3 J;
DOE-4	3/28/2025	Toluene	440 ¹	-	0.096	0.80	µg/m ³	0.18 J;
DOE-4	3/28/2025	Trichlorofluoromethane	1300 ¹	-	0.12	0.74	µg/m ³	1.2 ;

Notes:

¹ Indicates non-cancerous screening level value, utilized only when cancerous values are not established.

Peach shading indicates the result is above DTSC HHRA NOTE 3.

Pink shading indicates the result is above the US EPA RSL.

Bold text indicates result above MDL.

"—" indicates no value.

MDL = Method Detection Limit

MRL = Method Reporting Limit

D = Dilution

J = Result is an estimated quantity. Associated numerical value is approximate concentration of analyte in sample.

; = separates lab qualifiers from data validation qualifiers. If no qualifier(s) then just the ; may be reported.

µg/m³ = micrograms per meter cubed

(This page intentionally left blank)

APPENDIX C
Radionuclide Results

(This page intentionally left blank)

Table C-1. Gross alpha and gross beta air sample results for air samplers.

Sample Collection Date / Time	Result Alpha (μCi/mL)	MDC – Alpha (μCi/mL)	Result Beta (μCi/mL)	MDC – Beta (μCi/mL)
Sample location DOE-1				
1/3/25 8:41	4.42E-15	6.73E-15	9.02E-14	2.81E-14
1/6/25 8:38	4.70E-15	6.64E-15	3.15E-14	2.78E-14
1/10/25 9:29	2.00E-15	4.93E-15	2.21E-14	2.06E-14
1/13/25 8:53	-3.38E-16	6.69E-15	3.03E-14	2.80E-14
1/17/25 9:21	2.25E-15	4.95E-15	4.28E-14	2.07E-14
1/20/25 9:34	5.02E-15	6.61E-15	1.39E-13	2.77E-14
1/24/25 9:06	2.53E-16	5.00E-15	4.40E-14	2.09E-14
1/28/25 9:30	3.01E-15	4.95E-15	2.93E-14	2.07E-14
1/31/25 9:58	3.00E-15	6.59E-15	1.13E-13	2.76E-14
2/3/25 8:51	1.88E-15	6.79E-15	1.36E-13	2.83E-14
2/7/25 9:36	2.62E-15	4.97E-15	1.97E-14	2.07E-14
2/10/25 8:59	-8.39E-16	6.74E-15	4.26E-14	2.81E-14
2/14/25 9:32	6.30E-16	4.98E-15	2.93E-14	2.08E-14
2/17/25 8:20	5.19E-16	6.80E-15	2.26E-14	2.84E-14
2/21/25 8:46	2.38E-15	4.99E-15	4.99E-14	2.08E-14
2/24/25 9:10	-1.83E-15	6.65E-15	6.08E-14	2.77E-14
2/28/25 9:19	-1.88E-15	5.01E-15	4.90E-14	2.09E-14
3/3/25 8:58	-1.59E-15	7.08E-15	6.26E-14	2.73E-14
3/7/25 9:03	-2.93E-15	5.27E-15	1.82E-14	2.03E-14
3/10/25 8:55	-9.24E-16	7.15E-15	4.11E-14	2.76E-14
3/14/25 9:51	2.06E-15	5.23E-15	1.78E-14	2.02E-14
3/17/25 8:46	1.45E-15	7.14E-15	2.43E-14	2.75E-14
3/21/25 9:22	-9.27E-16	5.24E-15	4.27E-14	2.02E-14
3/24/25 9:16	-1.58E-15	7.05E-15	6.34E-14	2.72E-14
3/28/25 9:10	-2.44E-15	5.29E-15	3.46E-14	2.04E-14
3/31/25 9:14	-1.91E-15	7.03E-15	3.94E-14	2.71E-14

Sample Collection Date / Time	Result Alpha (μCi/mL)	MDC – Alpha (μCi/mL)	Result Beta (μCi/mL)	MDC – Beta (μCi/mL)
Sample location DOE-2				
1/3/25 9:03	6.45E-15	6.71E-15	6.05E-14	2.80E-14
1/6/25 8:47	0.00E+00	6.66E-15	4.98E-14	2.78E-14
1/10/25 9:38	2.49E-16	4.93E-15	2.58E-14	2.06E-14
1/13/25 9:03	2.71E-15	6.69E-15	6.61E-14	2.80E-14
1/17/25 9:30	3.76E-15	4.95E-15	6.61E-14	2.07E-14
1/20/25 9:44	6.20E-15	6.81E-15	1.34E-13	2.85E-14
1/24/25 9:16	3.04E-15	5.00E-15	4.33E-14	2.09E-14
1/31/25 10:06	3.97E-15	7.14E-15	8.50E-14	2.98E-14
2/3/25 9:01	3.58E-15	6.79E-15	1.11E-13	2.83E-14
2/7/25 9:55	-1.36E-15	4.97E-15	1.89E-14	2.07E-14
2/10/25 9:10	3.90E-15	6.75E-15	2.57E-14	2.82E-14
2/14/25 9:50	3.79E-16	4.98E-15	2.69E-14	2.08E-14
2/17/25 8:30	-8.48E-16	6.81E-15	4.27E-14	2.84E-14
2/21/25 8:57	-6.20E-16	4.99E-15	4.56E-14	2.08E-14
2/24/25 9:21	8.40E-16	6.65E-15	6.93E-14	2.77E-14
2/28/25 9:27	8.84E-16	5.01E-15	2.87E-14	2.09E-14
3/3/25 9:12	-4.27E-15	7.06E-15	4.37E-14	2.72E-14
3/7/25 9:21	-1.68E-15	5.27E-15	1.76E-14	2.03E-14
3/10/25 9:15	-3.98E-15	7.14E-15	3.18E-14	2.75E-14
3/14/25 10:11	-1.17E-15	5.22E-15	3.26E-14	2.01E-14
3/17/25 8:58	-1.27E-15	7.16E-15	3.54E-14	2.76E-14
3/21/25 9:31	6.98E-17	5.24E-15	4.40E-14	2.02E-14
3/24/25 9:31	2.79E-15	7.09E-15	4.57E-14	2.73E-14
3/28/25 9:20	8.24E-16	5.29E-15	3.51E-14	2.04E-14
3/31/25 9:25	-2.91E-15	7.03E-15	1.48E-14	2.71E-14

Sample Collection Date / Time	Result Alpha (μCi/mL)	MDC – Alpha (μCi/mL)	Result Beta (μCi/mL)	MDC – Beta (μCi/mL)
Sample location DOE-3				
1/3/25 9:13	1.70E-15	6.71E-15	4.76E-14	2.80E-14
1/6/25 8:56	2.36E-15	6.66E-15	4.34E-14	2.79E-14
1/10/25 9:57	-7.47E-16	4.92E-15	6.55E-14	2.06E-14
1/13/25 9:15	1.02E-15	6.70E-15	3.72E-14	2.80E-14
1/17/25 9:42	1.00E-15	4.95E-15	4.81E-14	2.07E-14
1/20/25 10:05	9.01E-15	6.60E-15	1.04E-13	2.76E-14
1/24/25 9:26	5.07E-16	5.01E-15	4.01E-14	2.09E-14
1/28/25 9:58	1.25E-15	4.95E-15	4.07E-14	2.07E-14
1/31/25 10:15	2.67E-15	6.61E-15	1.08E-13	2.76E-14
2/3/25 9:10	-1.87E-15	6.79E-15	9.00E-14	2.83E-14
2/7/25 10:06	-1.86E-15	4.96E-15	2.15E-14	2.07E-14
2/10/25 9:22	3.23E-15	6.75E-15	1.67E-14	2.82E-14
2/14/25 10:38	8.74E-16	4.95E-15	5.00E-14	2.06E-14
2/17/25 8:40	-1.20E-15	6.88E-15	4.41E-14	2.87E-14
2/21/25 9:08	3.80E-16	4.99E-15	4.67E-14	2.08E-14
2/24/25 9:34	1.51E-15	6.65E-15	5.54E-14	2.77E-14
2/28/25 9:35	3.82E-16	5.01E-15	6.94E-14	2.09E-14
3/3/25 9:19	-1.58E-15	7.06E-15	1.80E-14	2.72E-14
3/7/25 9:31	-3.93E-15	5.27E-15	3.61E-14	2.03E-14
3/10/25 9:27	2.47E-15	7.14E-15	5.68E-14	2.75E-14
3/14/25 10:35	-1.42E-15	5.22E-15	1.20E-14	2.01E-14
3/17/25 9:06	-1.61E-15	7.18E-15	3.45E-14	2.77E-14
3/21/25 9:39	-4.29E-16	5.25E-15	3.41E-14	2.02E-14
3/24/25 9:39	1.10E-15	7.07E-15	5.76E-14	2.73E-14
3/28/25 9:30	-1.19E-15	5.29E-15	2.59E-14	2.04E-14
3/31/25 9:46	-3.24E-15	7.01E-15	2.98E-14	2.70E-14

Sample Collection Date / Time	Result Alpha (μCi/mL)	MDC – Alpha (μCi/mL)	Result Beta (μCi/mL)	MDC – Beta (μCi/mL)
Sample location DOE-4				
1/3/25 9:24	2.04E-15	6.70E-15	6.02E-14	2.80E-14
1/6/25 9:04	3.37E-15	6.66E-15	6.16E-14	2.79E-14
1/10/25 10:09	1.24E-15	4.92E-15	2.94E-14	2.06E-14
1/13/25 9:36	-6.76E-16	6.68E-15	3.92E-14	2.79E-14
1/17/25 9:36	-1.25E-15	4.96E-15	5.51E-14	2.07E-14
1/20/25 10:15	6.01E-15	6.60E-15	1.04E-13	2.76E-14
1/24/25 9:35	7.61E-16	5.01E-15	4.15E-14	2.10E-14
1/28/25 10:08	-2.25E-15	4.95E-15	6.08E-14	2.07E-14
1/31/25 10:25	4.01E-15	6.61E-15	1.06E-13	2.76E-14
2/3/25 9:17	1.88E-15	6.79E-15	1.06E-13	2.83E-14
2/7/25 10:27	-1.36E-15	4.95E-15	1.30E-14	2.07E-14
2/10/25 9:33	5.16E-16	6.77E-15	4.02E-14	2.82E-14
2/12/25 10:27	7.51E-16	9.84E-15	1.01E-13	4.11E-14
2/21/25 9:22	-8.70E-16	4.99E-15	4.05E-14	2.08E-14
2/24/25 9:43	-4.94E-16	6.65E-15	4.41E-14	2.78E-14
2/28/25 9:50	-8.74E-16	5.01E-15	5.27E-14	2.09E-14
3/3/25 9:27	-3.60E-15	7.08E-15	6.51E-14	2.73E-14
3/7/25 9:48	-1.80E-16	5.26E-15	1.37E-14	2.03E-14
3/10/25 9:41	1.11E-15	7.15E-15	4.65E-14	2.76E-14
3/14/25 8:53	5.76E-16	5.32E-15	5.74E-14	2.05E-14
3/17/25 9:14	7.59E-16	7.00E-15	2.76E-14	2.70E-14
3/21/25 9:49	8.18E-16	5.24E-15	3.88E-14	2.02E-14
3/24/25 9:51	-2.25E-15	7.03E-15	6.78E-14	2.71E-14
3/28/25 9:39	7.04E-17	5.29E-15	1.67E-14	2.04E-14
3/31/25 10:00	-5.90E-15	7.00E-15	2.91E-14	2.70E-14

Note: Some values are negative after background subtraction.

Table C-2. Individual radionuclide analysis for the composite filter samples.

Radionuclide	MDC (pCi/sample)	Result (pCi/sample)	Data Qualifier	Airborne Concentration (μ Ci/mL)
Q1/2025 Location DOE-1 – Air volume/sample = 9.72E+08				
Strontium-90	2.78	0.945	U ; U	9.72E-16
Radium-226, -228 combined	3.92	14.8	; UJ	1.52E-14
Ra-228	4.93	-1.57	U ; U	-1.62E-15
Polonium-210	0.409	6.93	;	7.13E-15
Americium-241	0.303	0.128	U ; U	1.32E-16
Thorium-228	0.659	0.501	U ; U	5.15E-16
Thorium-230	0.599	1.09	; UJ	1.12E-15
Thorium-232	0.499	0.510	; UJ	5.25E-16
Uranium-233/234	0.625	1.37	; UJ	1.41E-15
Uranium-235/236	0.518	-0.0611	U ; U	-6.29E-17
Uranium-238	0.380	0.860	; UJ	8.85E-16
Plutonium-238	0.548	0.165	U ; U	1.70E-16
Plutonium-239	0.646	0.0192	U ; U	1.98E-17
Plutonium-241	60.7	4.61	U ; U	4.74E-15
Actinium-228	41.4	7.57	U ; U	7.79E-15
Beryllium-7	89.8	65.4	U ; U	6.73E-14
Cesium-137	9.53	-1.82	U ; U	-1.87E-15
Cobalt-60	6.87	-1.96	U ; U	-2.02E-15
Potassium-40	81.7	121	UI ; UJ	1.24E-13
Q1/2025 Location DOE-2 – Air volume/sample = 9.25E+08				
Strontium-90	2.82	-0.682	U ; U	-7.37E-16
Radium-226, -228 combined	4.98	2.08	U ; U	2.25E-15
Ra-228	4.97	2.63	U ; U	2.84E-15
Polonium-210	0.424	4.27	;	4.62E-15
Americium-241	0.441	-0.0892	U ; U	-9.64E-17
Thorium-228	0.762	0.919	; UJ	9.94E-16
Thorium-230	0.813	1.04	; UJ	1.12E-15
Thorium-232	0.463	0.755	; UJ	8.16E-16
Uranium-233/234	0.710	0.442	U ; U	4.78E-16
Uranium-235/236	0.549	0.170	U ; U	1.84E-16
Uranium-238	0.473	0.863	; UJ	9.33E-16
Plutonium-238	0.427	0.160	U ; U	1.73E-16
Plutonium-239	0.427	0.0196	U ; U	2.12E-17
Plutonium-241	86.3	8.05	U ; UJ	8.70E-15
Actinium-228	43.4	1.56	U ; U	1.69E-15
Beryllium-7	100	75.0	U ; U	8.11E-14
Cesium-137	9.77	-1.88	U ; U	-2.03E-15
Cobalt-60	13.6	2.90	U ; U	3.14E-15
Potassium-40	130	3.70	U ; U	4.00E-15
Q1/2025 Location DOE-3 – Air volume/sample = 9.72E+08				
Strontium-90	1.75	-1.37	U ; U	-1.41E-15
Radium-226, -228 combined	4.69	9.43	; UJ	9.70E-15
Ra-228	6.94	4.06	U ; U	4.18E-15
Polonium-210	0.635	0.821	; UJ	8.45E-16

Radionuclide	MDC (pCi/sample)	Result (pCi/sample)	Data Qualifier	Airborne Concentration (μCi/mL)
Americium-241	0.310	0.0262	U ; U	2.70E-17
Thorium-228	0.691	0.892	; UJ	9.18E-16
Thorium-230	0.817	1.36	; UJ	1.40E-15
Thorium-232	0.712	0.473	U ; U	4.87E-16
Uranium-233/234	0.624	0.549	U ; U	5.65E-16
Uranium-235/236	0.401	0.110	U ; U	1.13E-16
Uranium-238	0.433	0.911	; UJ	9.37E-16
Plutonium-238	0.363	0.0997	U ; U	1.03E-16
Plutonium-239	0.400	-0.0472	U ; U	-4.86E-17
Plutonium-241	85.1	-65.4	U ; UJ	-6.73E-14
Actinium-228	41.8	14.9	U ; U	1.53E-14
Beryllium-7	105	226	;	2.33E-13
Cesium-137	12.5	1.38	U ; U	1.42E-15
Cobalt-60	10.0	0.371	U ; U	3.82E-16
Potassium-40	113	145	UI ; UJ	1.49E-13
Q1/2025 Location DOE-4 – Air volume/sample = 9.19E+08				
Strontium-90	2.54	0.0552	U ; U	6.01E-17
Radium-226, -228 combined	5.01	8.54	; UJ	9.29E-15
Ra-228	4.74	-0.667	U ; U	-7.26E-16
Polonium-210	0.457	6.28	;	6.83E-15
Americium-241	0.408	0.0640	U ; U	6.96E-17
Thorium-228	0.557	1.03	; UJ	1.12E-15
Thorium-230	0.537	0.487	U ; U	5.30E-16
Thorium-232	0.441	0.0100	U ; U	1.09E-17
Uranium-233/234	1.13	0.112	U ; U	1.22E-16
Uranium-235/236	0.834	-0.0983	U ; U	-1.07E-16
Uranium-238	0.674	0.473	U ; U	5.15E-16
Plutonium-238	0.215	0.0718	U ; U	7.81E-17
Plutonium-239	0.344	-0.0172	U ; U	-1.87E-17
Plutonium-241	95.7	-7.59	U ; UJ	-8.26E-15
Actinium-228	50.8	25.3	U ; U	2.75E-14
Beryllium-7	123	-12.2	U ; U	-1.33E-14
Cesium-137	13.8	6.72	U ; U	7.31E-15
Cobalt-60	13.9	1.46	U ; U	1.59E-15
Potassium-40	185	101	U ; U	1.10E-13

NOTES AND ABBREVIATIONS

MDC – minimum detectable concentration

Airborne concentration (μCi/mL) = (Result [pCi/sample]) / ([Air Volume (mL)/Sample]*1000000)

; – separates lab qualifiers from data validation qualifiers. If no qualifier(s) then just the ; may be reported.

Bold text indicates detection.

pCi/sample – picocuries per sample

μCi/mL – microcuries per milliliter

Data Qualifier definitions:

U – Analyzed for but not detected.

UJ – The analyte was not detected; however, the result is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

UI – Results are considered a false positive due to high peak-width.

APPENDIX D

PM₁₀ Monthly Audit Reports and Flow Verification Results

(This page intentionally left blank)



One-Point Flow Rate Bias Estimate

ETEC Site: DOE-1	Pollutant type: PM10	Bias (%)
-------------------------	-----------------------------	-----------------

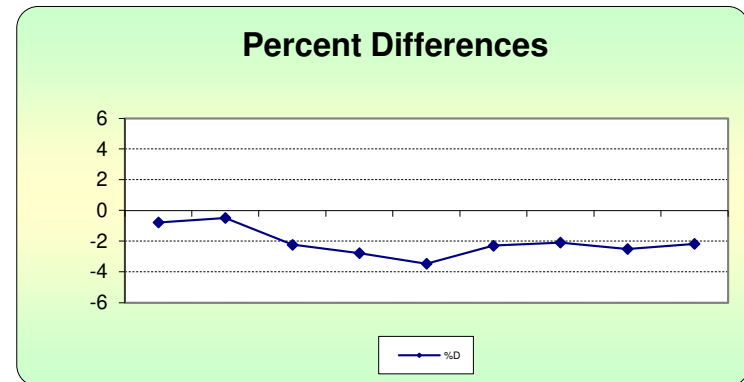
Quarter	E-BAM	Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	Percentile	d ²	d	d ²
Q1/2025 (Q28)	W23314	1/17/2025	14.00	14.11	-0.780	25th -2.510	0.608	0.780	0.608
			16.70	16.78	-0.477		0.227	0.477	0.227
			17.50	17.90	-2.235		4.994	2.235	4.994
Q1/2025	W23314	2/22/2025	14.00	14.40	-2.778	75th -2.098	7.716	2.778	7.716
			16.70	17.30	-3.468		12.028	3.468	12.028
			17.50	17.91	-2.289		5.241	2.289	5.241
Q1/2025	W23314	3/21/2025	14.00	14.30	-2.098		4.401	2.098	4.401
			16.70	17.13	-2.510		6.301	2.510	6.301
			17.50	17.89	-2.180		4.752	2.180	4.752

n	$\sum d $	"AB" (Eqn 4)
9	18.814	2.090
n-1	$\sum d ^2$	"AS" (Eqn 5)
8	46.268	0.931

Bias (%) (Eqn 3)	Both Signs Positive
2.67	FALSE
Signed Bias (%)	Both Signs Negative
-2.67	TRUE

Note: No quality issues reported this quarter.

Reference: U.S. EPA, Ambient Monitoring Technology Information Center (AMTIC)
 Quality Indicator Assessment Reports
 Data Assessment Statistical Calculator - Software to calculate precision and bias statistics
 MS EXCEL filename - "11/3/2017 (dasc)11_3_17.xls"
<https://www3.epa.gov/tnn/amtic/qareport.html>





One-Point Flow Rate Bias Estimate

ETEC Site: DOE-2	Pollutant type: PM10	Bias (%)
-------------------------	-----------------------------	-----------------

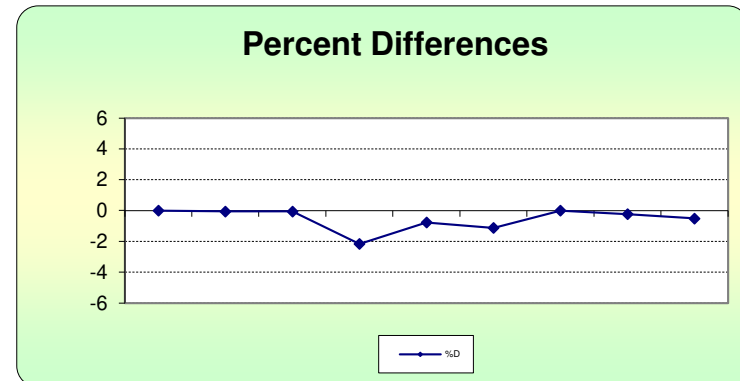
Quarter	E-BAM	Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	Percentile	d ²	d	d ²
Q1/2025 (Q28)	Y12096	1/17/2025	14.00	14.00	0.000	25th -0.772	0.000	0.000	0.000
			16.70	16.71	-0.060		0.004	0.060	0.004
			17.50	17.51	-0.057		0.003	0.057	0.003
Q1/2025	Y12096	2/22/2025	14.00	14.31	-2.166	75th -0.057	4.693	2.166	4.693
			16.70	16.83	-0.772		0.597	0.772	0.597
			17.50	17.70	-1.130		1.277	1.130	1.277
Q1/2025	Y12096	3/21/2025	14.00	14.00	0.000		0.000	0.000	0.000
			16.70	16.74	-0.239	0.057	0.239	0.057	
			17.50	17.59	-0.512	0.262	0.512	0.262	

n	$\sum d $	"AB" (Eqn 4)
9	4.936	0.548
n-1	$\sum d ^2$	"AS" (Eqn 5)
8	6.892	0.723

Bias (%) (Eqn 3)	Both Signs Positive
1	FALSE
Signed Bias (%)	Both Signs Negative
-1.00	TRUE

Note: No quality issues reported this quarter.

Reference: U.S. EPA, Ambient Monitoring Technology Information Center (AMTIC)
 Quality Indicator Assessment Reports
 Data Assessment Statistical Calculator - Software to calculate precision and bias statistics
 MS EXCEL filename - "11/3/2017 (dasc)11_3_17.xls"
<https://www3.epa.gov/tnn/amtic/qareport.html>





One-Point Flow Rate Bias Estimate

ETEC Site: DOE-3	Pollutant type: PM10	Bias (%)
-------------------------	-----------------------------	-----------------

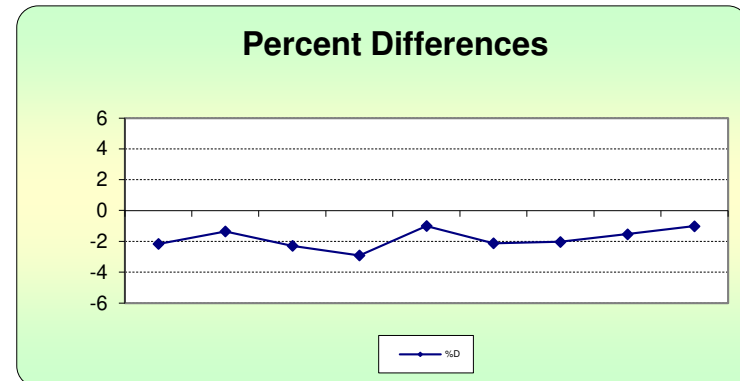
Quarter	E-BAM	Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	Percentile	d ²	d	d ²
Q1/2025 (Q28)	W23313	1/20/2025	14.00	14.31	-2.166	25th -2.166	4.693	2.166	4.693
			16.70	16.93	-1.359		1.846	1.359	1.846
			17.50	17.91	-2.289		5.241	2.289	5.241
Q1/2025	W23313	2/22/2025	14.00	14.42	-2.913	75th -1.359	8.483	2.913	8.483
			16.70	16.87	-1.008		1.015	1.008	1.015
			17.50	17.88	-2.125		4.517	2.125	4.517
Q1/2025	W23313	3/21/2025	14.00	14.29	-2.029		4.118	2.029	4.118
			16.70	16.96	-1.533		2.350	1.533	2.350
			17.50	17.68	-1.018		1.037	1.018	1.037

n	$\sum d $	"AB" (Eqn 4)
9	16.440	1.827
n-1	$\sum d^2$	"AS" (Eqn 5)
8	33.300	0.639

Bias (%) (Eqn 3)	Both Signs Positive
2.22	FALSE
Signed Bias (%)	Both Signs Negative
-2.22	TRUE

Note: No quality issues reported this quarter.

Reference: U.S. EPA, Ambient Monitoring Technology Information Center (AMTIC)
 Quality Indicator Assessment Reports
 Data Assessment Statistical Calculator - Software to calculate precision and bias statistics
 MS EXCEL filename - "11/3/2017 (dasc)11_3_17.xls"
<https://www3.epa.gov/tnn/amtic/qareport.html>





One-Point Flow Rate Bias Estimate

ETEC Site: DOE-4	Pollutant type: PM10	Bias (%)
-------------------------	-----------------------------	-----------------

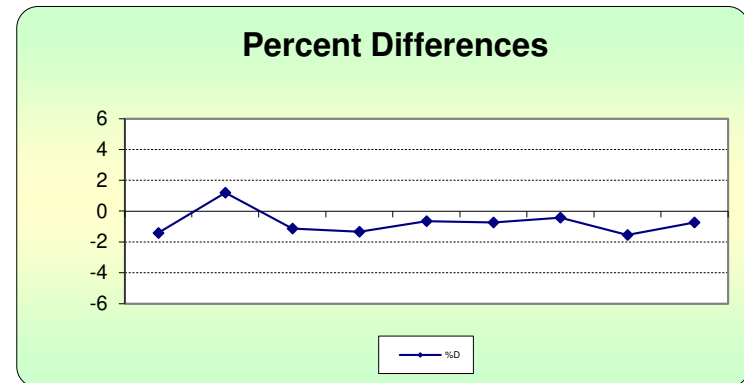
Quarter	E-BAM	Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	Percentile	d ²	d	d ²
Q1/2025 (Q28)	B18932	1/17/2025	14.00	14.20	-1.408	25th -1.339	1.984	1.408	1.984
			16.70	16.50	1.212		1.469	1.212	1.469
			17.50	17.70	-1.130		1.277	1.130	1.277
Q1/2025	X16067	2/22/2025	14.00	14.19	-1.339	75th -0.654	1.793	1.339	1.793
			16.70	16.81	-0.654		0.428	0.654	0.428
			17.50	17.63	-0.737		0.544	0.737	0.544
Q1/2025	X16067	3/21/2025	14.00	14.06	-0.427		0.182	0.427	0.182
			16.70	16.96	-1.533		2.350	1.533	2.350
			17.50	17.63	-0.737		0.544	0.737	0.544

n	$\sum d $	"AB" (Eqn 4)
9	9.178	1.020
n-1	$\sum d ^2$	"AS" (Eqn 5)
8	10.571	0.389

Bias (%) (Eqn 3)	Both Signs Positive
1.26	FALSE
Signed Bias (%)	Both Signs Negative
-1.26	TRUE

Note: E-BAM unit B18932 malfunctioned on 2/12/2025 and was replaced with unit X16067.

Reference: U.S. EPA, Ambient Monitoring Technology Information Center (AMTIC)
 Quality Indicator Assessment Reports
 Data Assessment Statistical Calculator - Software to calculate precision and bias statistics
 MS EXCEL filename - "11/3/2017 (dasc)11_3_17.xls"
<https://www3.epa.gov/tnn/amtic/qareport.html>





Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-1

Serial # W23314

Audit Date: 1/17/25

Audited By: TS Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 2/5/2024

Leak Check Value: as found: 0.4 as left: 0.4

		E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found:	<u>13.7</u> °C	<u>13.2</u> °C	as left:	<u>13.7</u> °C	<u>13.2</u> °C
Barometric Pressure:	as found:	<u>715.0</u> mmHg	<u>716.3</u> mmHg	as left:	<u>715.0</u> mmHg	<u>716.3</u> mmHg
16.7 lpm Flow Rate	as found:	<u>16.7</u> lpm	<u>16.78</u> lpm	as left:	<u>16.7</u> lpm	<u>16.78</u> lpm
14.0 lpm Flow Rate	as found:	<u>14.0</u> lpm	<u>14.11</u> lpm	as left:	<u>14.0</u> lpm	<u>14.11</u> lpm
17.5 lpm Flow Rate	as found:	<u>17.5</u> lpm	<u>17.9</u> lpm	as left:	<u>17.5</u> lpm	<u>17.9</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Pump Test

Expected Span Mass (mg/cm2): <u>0.984</u>	Flow Rate 14.0 - 15.0 (lpm)	Vacuum Value (Hg)	Quality Category Good / Marginal / Poor
Measured Span Mass (mg/cm2): <u>0.980</u>			
Difference (mg/cm2): <u>0.004</u>			
% Difference / <u>Pass</u> or Fail: <u>0.41%</u>	<u>14.4</u>	<u>410</u>	<u>Marginal</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1015</u>	<u>1015</u>	Analog Mode	Hourly	<u>Hourly</u>	Flow Type	Actual	<u>Act</u>
Location	<u>1</u>	<u>1</u>	Baud Rate	9600	<u>9600</u>	Restart Voltage	12.5 v	<u>12.5</u>
Tape Advance	24 hrs	<u>24hr</u>	RH Setpoint	45%	<u>45%</u>	Std Cond Temp	25 C	<u>25C</u>
Realtime Avg	60 mins	<u>60mins</u>	Delta T Setpoint	15 C	<u>15C</u>	DAC	8.0 v	<u>8.0v</u>
Machine Type	PM-10	<u>PM-10</u>	RH Control	On	<u>on</u>	RH Connect	No	<u>NO</u>
Analog FS	1.0 v	<u>1.0v</u>	Flow Setpoint	16.7	<u>16.7</u>	Pump Protect	Off	<u>off</u>

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
<u>1 No new Messages</u>	<u>1/17/25</u>				
<u>2</u>	<u>1/17/25</u>	<u>1021</u>			
<u>3</u>					

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-2 Serial # Y12096
 Audit Date: 1/17/2025 Audited By: Bwilliford

Flow Audit

Flow Audit Device Model:	BGI Delta Cal DC-1A	Serial No:	158047	Calibration Date:	2/5/2024
Leak Check Value:	as found: <u>0.4</u>	as left:	<u>0.4</u>		
Ambient Temperature:	as found: <u>13.3</u> °C	Ref. Std. <u>12.9</u> °C	as left:	<u>13.3</u> °C	<u>12.9</u> °C
Barometric Pressure:	as found: <u>715.3</u> mmHg	Ref. Std. <u>716.7</u> mmHg	as left:	<u>715.3</u> mmHg	<u>716.7</u> mmHg
16.7 lpm Flow Rate	as found: <u>16.7</u> lpm	Ref. Std. <u>16.71</u> lpm	as left:	<u>16.7</u> lpm	<u>16.71</u> lpm
14.0 lpm Flow Rate	as found: <u>14.0</u> lpm	Ref. Std. <u>14.00</u> lpm	as left:	<u>14.0</u> lpm	<u>14.00</u> lpm
17.5 lpm Flow Rate	as found: <u>17.5</u> lpm	Ref. Std. <u>17.51</u> lpm	as left:	<u>17.5</u> lpm	<u>17.51</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Pump Test

Expected Span Mass (mg/cm2):	<u>0.891</u>	Flow Rate	14.0 - 15.0 (lpm)	Vacuum Value (Hg)	396.5	Quality Category	Good / Marginal / Poor
Measured Span Mass (mg/cm2):	<u>0.872</u>						
Difference (mg/cm2):	<u>0.019</u>						
% Difference / Pass or Fail:	<u>2.16%</u>						<u>Good</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	11:18	11:18	Analog Mode	Hourly	Hourly	Flow Type	Actual	Act
Location	2	2	Baud Rate	9600	9600	Restart Voltage	12.5 v	12.5v
Tape Advance	24 hrs	24hr	RH Setpoint	45%	45%	Std Cond Temp	25 C	25C
Realtime Avg	60 mins	60 min	Delta T Setpoint	15 C	15C	DAC	8.0 v	8.0v
Machine Type	PM-10	PM-10	RH Control	On	on	RH Connect	No	No
Analog FS	1.0 v	1.0v	Flow Setpoint	16.7	16.7	Pump Protect	Off	off

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 No New Messages	1/17/25	11:25			
2					
3					

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-3 Serial # W23313
 Audit Date: 1/20/2025 Audited By: TS Williford

Flow Audit

Flow Audit Device Model:	<u>BGI Delta Cal DC-1A</u>	Serial No:	<u>158047</u>	Calibration Date:	<u>2/5/2024</u>
Leak Check Value:	as found: <u>0.5</u>		as left: <u>0.5</u>		
Ambient Temperature:	as found:	<u>15.3</u> °C	<u>16.1</u> °C	as left:	<u>15.3</u> °C <u>16.1</u> °C
Barometric Pressure:	as found:	<u>715.0</u> mmHg	<u>716.1</u> mmHg	as left:	<u>715.0</u> mmHg <u>716.1</u> mmHg
16.7 lpm Flow Rate	as found:	<u>16.7</u> lpm	<u>16.93</u> lpm	as left:	<u>16.7</u> lpm <u>16.93</u> lpm
14.0 lpm Flow Rate	as found:	<u>14.0</u> lpm	<u>14.31</u> lpm	as left:	<u>14.0</u> lpm <u>14.31</u> lpm
17.5 lpm Flow Rate	as found:	<u>17.5</u> lpm	<u>17.91</u> lpm	as left:	<u>17.5</u> lpm <u>17.91</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Pump Test

Expected Span Mass (mg/cm2):	<u>0.885</u>	Flow Rate	14.0 - 15.0 (lpm)	Vacuum Value (Hg)	<u>401.0</u>	Quality Category	Good / Marginal / Poor
Measured Span Mass (mg/cm2):	<u>0.886</u>						
Difference (mg/cm2):	<u>0.001</u>						
% Difference Pass or Fail:	<u>0.11%</u>		<u>14.1</u>			<u>Good</u>	

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1236</u>	<u>1236</u>	Analog Mode	Hourly	<u>Hourly</u>	Flow Type	Actual	<u>Act</u>
Location	<u>3</u>	<u>3</u>	Baud Rate	9600	<u>9600</u>	Restart Voltage	12.5 v	<u>12.5v</u>
Tape Advance	24 hrs	<u>24hr</u>	RH Setpoint	45%	<u>45%</u>	Std Cond Temp	25 C	<u>25C</u>
Realtime Avg	60 mins	<u>60min</u>	Delta T Setpoint	15 C	<u>15C</u>	DAC	8.0 v	<u>8.0V</u>
Machine Type	PM-10	<u>PM-10</u>	RH Control	On	<u>on</u>	RH Connect	No	<u>No</u>
Analog FS	1.0 v	<u>1.0V</u>	Flow Setpoint	16.7	<u>16.7</u>	Pump Protect	Off	<u>off</u>

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
<u>1 No new messages</u>	<u>1/17/25</u>	<u>1256</u>	4		
<u>2</u>			5		
<u>3</u>			6		

Audit Notes:

* This is the initial Audit for W23313. B20070 has been down and I finally got W23313 back from the shop.



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-4

Serial # B18932

Audit Date: 1/17/25

Audited By: TS Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 2/5/2024

Leak Check Value: as found: 0.35 as left: 0.35

		E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found:	15.0 °C	15.3 °C	as left:	15.0 °C	15.3 °C
Barometric Pressure:	as found:	715.5 mmHg	716.0 mmHg	as left:	715.5 mmHg	716.0 mmHg
16.7 lpm Flow Rate	as found:	16.7 lpm	16.5 lpm	as left:	16.7 lpm	16.5 lpm
14.0 lpm Flow Rate	as found:	14.0 lpm	14.2 lpm	as left:	14.0 lpm	14.2 lpm
17.5 lpm Flow Rate	as found:	17.5 lpm	17.7 lpm	as left:	17.5 lpm	17.7 lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Pump Test

Expected Span Mass (mg/cm ²):	<u>0.854</u>	Flow Rate	14.0 - 15.0 (lpm)	Vacuum Value (Hg)	403.2	Quality Category	Good / Marginal / Poor
Measured Span Mass (mg/cm ²):	<u>0.865</u>						
Difference (mg/cm ²):	<u>0.011</u>						
% Difference Pass or Fail:	<u>1.28%</u>						<u>Good</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	1346	1346	Analog Mode	Hourly	Hourly	Flow Type	Actual	Act
Location	4	4	Baud Rate	9600	115200	Restart Voltage	12.5 v	12.5v
Tape Advance	24 hrs	24hr	RH Setpoint	45%	45%	Std Cond Temp	25 C	25C
Realtime Avg	60 mins	60min	Delta T Setpoint	15 C	15C	DAC	8.0 v	8.0v
Machine Type	PM-10	PM-10	RH Control	On	ON	RH Connect	No	NO
Analog FS	1.0 v	1.0V	Flow Setpoint	16.7	16.7	Pump Protect	Off	OFF

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
1 <u>No new messages</u>	<u>1/17/25</u>	<u>1355</u>	4		
2			5		
3			6		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-1
 Audit Date: 2/22/25

Serial # W23314
 Audited By: TS Williford

Flow Audit					
Flow Audit Device Model:	BGI Delta Cal DC-1A	Serial No:	158047	Calibration Date:	2/11/2025
Leak Check Value:	as found: <u>0.5</u>		as left: _____		
Ambient Temperature:	as found:	E-BAM	Ref. Std.	as left:	E-BAM
		<u>17.2</u> °C	<u>17.9</u> °C		<u>17.2</u> °C
Barometric Pressure:	as found:	<u>710.0</u> mmHg	<u>711.3</u> mmHg	as left:	<u>710.0</u> mmHg
16.7 lpm Flow Rate	as found:	<u>16.7</u> lpm	<u>17.3</u> lpm	as left:	<u>16.7</u> lpm
14.0 lpm Flow Rate	as found:	<u>14.0</u> lpm	<u>14.4</u> lpm	as left:	<u>14.0</u> lpm
17.5 lpm Flow Rate	as found:	<u>17.5</u> lpm	<u>17.91</u> lpm	as left:	<u>17.5</u> lpm

Mechanical Audits (Y = Yes N = No)					
Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>	

Manual Span Membrane Test	Pump Test		
Expected Span Mass (mg/cm2): <u>0.984</u>	Flow Rate	Vacuum	Quality Category
Measured Span Mass (mg/cm2): <u>0.971</u>	14.0 - 15.0	Value	Good / Marginal / Poor
Difference (mg/cm2): <u>0.013</u>	(lpm)	(Hg)	
% Difference / Pass or Fail: <u>1.33%</u>	<u>14.7</u>	<u>422.1</u>	<u>Marginal</u>

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>0915</u>	<u>0915</u>	Analog Mode	Hourly	<u>✓</u>	Flow Type	Actual	<u>✓</u>
Location	<u>1</u>	<u>1</u>	Baud Rate	9600	<u>✓</u>	Restart Voltage	12.5 v	<u>✓</u>
Tape Advance	24 hrs	<u>✓</u>	RH Setpoint	45%	<u>✓</u>	Std Cond Temp	25 C	<u>✓</u>
Realtime Avg	60 mins	<u>✓</u>	Delta T Setpoint	15 C	<u>✓</u>	DAC	8.0 v	<u>✓</u>
Machine Type	PM-10	<u>✓</u>	RH Control	On	<u>✓</u>	RH Connect	No	<u>✓</u>
Analog FS	1.0 v	<u>✓</u>	Flow Setpoint	16.7	<u>✓</u>	Pump Protect	Off	<u>✓</u>

Last 6 Errors in E-BAM Error Log						
Error	Date	Time	Error	Date	Time	
<u>1 No new messages</u>	<u>2/22/25</u>	<u>0922</u>				
<u>2</u>						
<u>3</u>						

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-2 Serial # Y12096
 Audit Date: 2/22/25 Audited By: TS Williford

Flow Audit					
Flow Audit Device Model:	BGI Delta Cal DC-1A	Serial No:	158047	Calibration Date:	2/11/2025
Leak Check Value:	as found: <u>0.4</u>		as left: <u>0.4</u>		
Ambient Temperature:	as found:	E-BAM	Ref. Std.	as left:	E-BAM
		<u>16.5</u> °C	<u>16.0</u> °C		<u>16.5</u> °C
Barometric Pressure:	as found:	<u>711.0</u> mmHg	<u>711.0</u> mmHg	as left:	<u>711.0</u> mmHg
16.7 lpm Flow Rate	as found:	<u>16.7</u> lpm	<u>16.83</u> lpm	as left:	<u>16.7</u> lpm
14.0 lpm Flow Rate	as found:	<u>14.0</u> lpm	<u>14.31</u> lpm	as left:	<u>14.0</u> lpm
17.5 lpm Flow Rate	as found:	<u>17.5</u> lpm	<u>17.70</u> lpm	as left:	<u>17.5</u> lpm

Mechanical Audits (Y = Yes N = No)					
Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>	

Manual Span Membrane Test	Pump Test		
Expected Span Mass (mg/cm2) : <u>0.891</u>	Flow Rate	Vacuum	Quality Category
Measured Span Mass (mg/cm2) : <u>0.876</u>	14.0 - 15.0	Value	Good / Marginal / Poor
Difference (mg/cm2) : <u>0.015</u>	(lpm)	(Hg)	
% Difference <u>Pass</u> or Fail: <u>1.69%</u>	<u>14.2</u>	<u>403.1</u>	<u>Good</u>

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1042</u>	<u>1042</u>	Analog Mode	Hourly	<u>✓</u>	Flow Type	Actual	<u>✓</u>
Location	<u>2</u>	<u>2</u>	Baud Rate	9600	<u>✓</u>	Restart Voltage	12.5 v	<u>✓</u>
Tape Advance	24 hrs	<u>✓</u>	RH Setpoint	45%	<u>✓</u>	Std Cond Temp	25 C	<u>✓</u>
Realtime Avg	60 mins	<u>✓</u>	Delta T Setpoint	15 C	<u>✓</u>	DAC	8.0 v	<u>✓</u>
Machine Type	PM-10	<u>✓</u>	RH Control	On	<u>✓</u>	RH Connect	No	<u>✓</u>
Analog FS	1.0 v	<u>✓</u>	Flow Setpoint	16.7	<u>✓</u>	Pump Protect	Off	<u>✓</u>

Last 6 Errors in E-BAM Error Log						
Error	Date	Time	Error	Date	Time	
1 <u>No new messages</u>	<u>2/22/25</u>	<u>1051</u>	4			
2			5			
3			6			

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-3
 Audit Date: 2/22/25

Serial # W23313
 Audited By: TSWilleford

Flow Audit					
Flow Audit Device Model:	BGI Delta Cal DC-1A	Serial No:	158047	Calibration Date:	2/11/2025
Leak Check Value:	as found: <u>0.5</u>		as left: <u>0.5</u>		
Ambient Temperature:	as found:	E-BAM	Ref. Std.	as left:	E-BAM
		<u>16.4</u> °C	<u>17.1</u> °C		<u>16.4</u> °C
Barometric Pressure:	as found:	<u>710.5</u> mmHg	<u>711.4</u> mmHg	as left:	<u>710.5</u> mmHg
16.7 lpm Flow Rate	as found:	<u>16.7</u> lpm	<u>16.87</u> lpm	as left:	<u>16.7</u> lpm
14.0 lpm Flow Rate	as found:	<u>14.0</u> lpm	<u>14.42</u> lpm	as left:	<u>14.0</u> lpm
17.5 lpm Flow Rate	as found:	<u>17.5</u> lpm	<u>17.88</u> lpm	as left:	<u>17.5</u> lpm

Mechanical Audits (Y = Yes N = No)					
Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>	

Manual Span Membrane Test	Pump Test		
Expected Span Mass (mg/cm2): <u>0.885</u>	Flow Rate	Vacuum	Quality Category
Measured Span Mass (mg/cm2): <u>0.883</u>	14.0 - 15.0	Value	Good / Marginal / Poor
Difference (mg/cm2): <u>0.002</u>	(lpm)	(Hg)	
% Difference / Pass or Fail: <u>0.23%</u>	<u>14.5</u>	<u>412.6</u>	<u>Marginal</u>

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1156</u>	<u>1156</u>	Analog Mode	Hourly	<u>✓</u>	Flow Type	Actual	<u>✓</u>
Location	<u>3</u>	<u>3</u>	Baud Rate	9600	<u>✓</u>	Restart Voltage	12.5 v	<u>✓</u>
Tape Advance	24 hrs	<u>✓</u>	RH Setpoint	45%	<u>✓</u>	Std Cond Temp	25 C	<u>✓</u>
Realtime Avg	60 mins	<u>✓</u>	Delta T Setpoint	15 C	<u>✓</u>	DAC	8.0 v	<u>✓</u>
Machine Type	PM-10	<u>✓</u>	RH Control	On	<u>✓</u>	RH Connect	No	<u>✓</u>
Analog FS	1.0 v	<u>✓</u>	Flow Setpoint	16.7	<u>✓</u>	Pump Protect	Off	<u>✓</u>

Last 6 Errors in E-BAM Error Log						
Error	Date	Time	Error	Date	Time	
1 <u>No new messages</u>	<u>2/22/25</u>	<u>1209</u>	4			
2			5			
3			6			

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-4 Serial # X16067
 Audit Date: 2/22/25 Audited By: TS. Williford

Flow Audit					
Flow Audit Device Model:	BGI Delta Cal DC-1A	Serial No:	158047	Calibration Date:	2/11/2025
Leak Check Value:	as found: <u>0.5</u>		as left: <u>0.5</u>		
Ambient Temperature:	as found:	E-BAM	Ref. Std.	as left:	E-BAM
		<u>16.2</u> °C	<u>16.9</u> °C		<u>16.2</u> °C
Barometric Pressure:	as found:	<u>710.0</u> mmHg	<u>711.0</u> mmHg	as left:	<u>710.0</u> mmHg
16.7 lpm Flow Rate	as found:	<u>16.7</u> lpm	<u>16.81</u> lpm	as left:	<u>16.7</u> lpm
14.0 lpm Flow Rate	as found:	<u>14.0</u> lpm	<u>14.19</u> lpm	as left:	<u>14.0</u> lpm
17.5 lpm Flow Rate	as found:	<u>17.5</u> lpm	<u>17.63</u> lpm	as left:	<u>17.5</u> lpm

Mechanical Audits (Y = Yes N = No)					
Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>	

Manual Span Membrane Test	Pump Test		
Expected Span Mass (mg/cm2): <u>1349 0.950</u>	Flow Rate	Vacuum	Quality Category
Measured Span Mass (mg/cm2): <u>0.956</u>	14.0 - 15.0	Value	Good / Marginal / Poor
Difference (mg/cm2): <u>0.006</u>	(lpm)	(Hg)	
% Difference / <u>Pass</u> or Fail: <u>0.63%</u>	<u>14.7</u>	<u>408.3</u>	<u>Good</u>

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1349</u>	<u>1349</u>	Analog Mode	Hourly	<u>✓</u>	Flow Type	Actual	<u>✓</u>
Location	<u>4</u>	<u>4</u>	Baud Rate	9600	<u>✓</u>	Restart Voltage	12.5 v	<u>✓</u>
Tape Advance	24 hrs	<u>✓</u>	RH Setpoint	45%	<u>✓</u>	Std Cond Temp	25 C	<u>✓</u>
Realtime Avg	60 mins	<u>✓</u>	Delta T Setpoint	15 C	<u>✓</u>	DAC	8.0 v	<u>✓</u>
Machine Type	PM-10	<u>✓</u>	RH Control	On	<u>✓</u>	RH Connect	No	<u>✓</u>
Analog FS	1.0 v	<u>✓</u>	Flow Setpoint	16.7	<u>✓</u>	Pump Protect	Off	<u>✓</u>

Last 6 Errors in E-BAM Error Log						
Error	Date	Time	Error	Date	Time	
1 <u>No new messages</u>	<u>2/22/25</u>	<u>1406</u>				
2						
3						

Audit Notes:

This is the initial audit for unit X16067. unit B18932 went down on 2/12/2025.



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-1 Serial # W23314
 Audit Date: 3/21/25 Audited By: TSW:iliford

Flow Audit

Flow Audit Device Model: <u>BGI Delta Cal DC-1A</u>		Serial No: <u>158047</u>		Calibration Date: <u>2/11/2025</u>		
Leak Check Value: as found: <u>0.5</u>				as left: <u>0.5</u>		
Ambient Temperature: Barometric Pressure: 16.7 lpm Flow Rate 14.0 lpm Flow Rate 17.5 lpm Flow Rate	as found:	E-BAM <u>13.3</u> °C	Ref. Std. <u>13.7</u> °C	as left:	E-BAM <u>13.3</u> °C	Ref. Std. <u>13.7</u> °C
	as found:	<u>715.2</u> mmHg	<u>716.2</u> mmHg	as left:	<u>715.2</u> mmHg	<u>716.2</u> mmHg
	as found:	<u>16.7</u> lpm	<u>17.13</u> lpm	as left:	<u>16.7</u> lpm	<u>17.13</u> lpm
	as found:	<u>14.0</u> lpm	<u>14.30</u> lpm	as left:	<u>14.0</u> lpm	<u>14.30</u> lpm
	as found:	<u>17.5</u> lpm	<u>17.89</u> lpm	as left:	<u>17.5</u> lpm	<u>17.89</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test	Pump Test		
Expected Span Mass (mg/cm2) : <u>0.984</u>	Flow Rate 14.0 - 15.0 (lpm)	Vacuum Value (Hg)	Quality Category Good / Marginal / Poor
Measured Span Mass (mg/cm2) : <u>0.976</u>			
Difference (mg/cm2) : <u>0.008</u>			
% Difference / <u>Pass</u> or Fail: <u>0.82%</u>	<u>14.7</u>	<u>406.0</u>	<u>Good/Marginal</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>0714</u>	<u>0714</u>	Analog Mode	Hourly	✓	Flow Type	Actual	✓
Location	<u>1</u>	<u>1</u>	Baud Rate	9600	✓	Restart Voltage	12.5 v	✓
Tape Advance	24 hrs	✓	RH Setpoint	45%	✓	Std Cond Temp	25 C	✓
Realtime Avg	60 mins	✓	Delta T Setpoint	15 C	✓	DAC	8.0 v	✓
Machine Type	PM-10	✓	RH Control	On	✓	RH Connect	No	✓
Analog FS	1.0 v	✓	Flow Setpoint	16.7	✓	Pump Protect	Off	✓

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
<u>1 No new messages</u>	<u>3/21/25</u>	<u>0720</u>	4		
<u>2</u>			5		
<u>3</u>			6		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-2 Serial # Y12096
 Audit Date: 3/21/25 Audited By: TS Williford

Flow Audit

Flow Audit Device Model: <u>BGI Delta Cal DC-1A</u> Serial No: <u>158047</u> Calibration Date: <u>2/11/2025</u>	
Leak Check Value:	as found: <u>0.5</u> as left: <u>0.5</u>
Ambient Temperature:	as found: <u>20.0</u> °C <u>18.4</u> °C as left: <u>20.0</u> °C <u>18.4</u> °C
Barometric Pressure:	as found: <u>711.9</u> mmHg <u>713.7</u> mmHg as left: <u>711.9</u> mmHg <u>713.7</u> mmHg
16.7 lpm Flow Rate	as found: <u>16.7</u> lpm <u>16.74</u> lpm as left: <u>16.7</u> lpm <u>16.74</u> lpm
14.0 lpm Flow Rate	as found: <u>14.0</u> lpm <u>14.0</u> lpm as left: <u>14.0</u> lpm <u>14.0</u> lpm
17.5 lpm Flow Rate	as found: <u>17.5</u> lpm <u>17.59</u> lpm as left: <u>17.5</u> lpm <u>17.59</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test	Pump Test		
Expected Span Mass (mg/cm2) : <u>0.891</u>	Flow Rate 14.0 - 15.0 (lpm)	Vacuum Value (Hg)	Quality Category Good / Marginal / Poor
Measured Span Mass (mg/cm2) : <u>0.849</u>			
Difference (mg/cm2) : <u>0.012</u>			
% Difference / <u>Pass</u> or Fail: <u>1.36%</u>	<u>14.1</u>	<u>383.0</u>	<u>Good</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>0947</u>	<u>0947</u>	Analog Mode	Hourly	<u>✓</u>	Flow Type	Actual	<u>✓</u>
Location	<u>2</u>	<u>2</u>	Baud Rate	9600	<u>✓</u>	Restart Voltage	12.5 v	<u>✓</u>
Tape Advance	24 hrs	<u>✓</u>	RH Setpoint	45%	<u>✓</u>	Std Cond Temp	25 C	<u>✓</u>
Realtime Avg	60 mins	<u>✓</u>	Delta T Setpoint	15 C	<u>✓</u>	DAC	8.0 v	<u>✓</u>
Machine Type	PM-10	<u>✓</u>	RH Control	On	<u>✓</u>	RH Connect	No	<u>✓</u>
Analog FS	1.0 v	<u>✓</u>	Flow Setpoint	16.7	<u>✓</u>	Pump Protect	Off	<u>✓</u>

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
<u>1 No new messages</u>	<u>3/21/25</u>	<u>0958</u>	<u>4</u>		
<u>2</u>			<u>5</u>		
<u>3</u>			<u>6</u>		

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-3

Serial # W23313

Audit Date: 3/21/25

Audited By: TS Williford

Flow Audit

Flow Audit Device Model: BGI Delta Cal DC-1A Serial No: 158047 Calibration Date: 2/11/2025

Leak Check Value: as found: 0.5 as left: 0.5

		E-BAM	Ref. Std.		E-BAM	Ref. Std.
Ambient Temperature:	as found:	<u>22.9</u> °C	<u>22.2</u> °C	as left:	<u>22.9</u> °C	<u>22.2</u> °C
Barometric Pressure:	as found:	<u>715.5</u> mmHg	<u>715.2</u> mmHg	as left:	<u>715.5</u> mmHg	<u>715.2</u> mmHg
16.7 lpm Flow Rate	as found:	<u>16.7</u> lpm	<u>16.96</u> lpm	as left:	<u>16.7</u> lpm	<u>16.96</u> lpm
14.0 lpm Flow Rate	as found:	<u>14.0</u> lpm	<u>14.29</u> lpm	as left:	<u>14.0</u> lpm	<u>14.29</u> lpm
17.5 lpm Flow Rate	as found:	<u>17.5</u> lpm	<u>17.68</u> lpm	as left:	<u>17.5</u> lpm	<u>17.68</u> lpm

Mechanical Audits (Y = Yes N = No)

Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>

Manual Span Membrane Test

Pump Test

Expected Span Mass (mg/cm ²): <u>0.885</u>	Flow Rate 14.0 - 15.0 (lpm)	Vacuum Value (Hg)	Quality Category Good / Marginal / Poor
Measured Span Mass (mg/cm ²): <u>0.888</u>			
Difference (mg/cm ²): <u>0.003</u>			
% Difference / <u>Pass</u> or Fail: <u>0.34%</u>	<u>14.3</u>	<u>376.4</u>	<u>Good</u>

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1037</u>	<u>1037</u>	Analog Mode	Hourly	<u>✓</u>	Flow Type	Actual	<u>✓</u>
Location	<u>3</u>	<u>3</u>	Baud Rate	9600	<u>✓</u>	Restart Voltage	12.5 v	<u>✓</u>
Tape Advance	24 hrs	<u>✓</u>	RH Setpoint	45%	<u>✓</u>	Std Cond Temp	25 C	<u>✓</u>
Realtime Avg	60 mins	<u>✓</u>	Delta T Setpoint	15 C	<u>✓</u>	DAC	8.0 v	<u>✓</u>
Machine Type	PM-10	<u>✓</u>	RH Control	On	<u>✓</u>	RH Connect	No	<u>✓</u>
Analog FS	1.0 v	<u>✓</u>	Flow Setpoint	16.7	<u>✓</u>	Pump Protect	Off	<u>✓</u>

Last 6 Errors in E-BAM Error Log

Error	Date	Time	Error	Date	Time
<u>1 No new messages</u>	<u>3/21/25</u>	<u>1045</u>			
<u>2</u>					
<u>3</u>					

Audit Notes:



Baseline Air Monitoring Program - DOE

E-BAM Monthly Audit and Maintenance

Station # DOE-4 Serial # X16067
 Audit Date: 3/21/25 Audited By: Tswillford

Flow Audit					
Flow Audit Device Model:	BGI Delta Cal DC-1A	Serial No:	158047	Calibration Date:	2/11/2025
Leak Check Value:	as found: <u>0.5</u>		as left: <u>0.5</u>		
Ambient Temperature:	as found:	E-BAM	Ref. Std.	as left:	E-BAM
Barometric Pressure:	as found:	707.2 mmHg	707.2 mmHg	as left:	707.2 mmHg
16.7 lpm Flow Rate	as found:	16.7 lpm	16.96 lpm	as left:	16.7 lpm
14.0 lpm Flow Rate	as found:	14.0 lpm	14.06 lpm	as left:	14.0 lpm
17.5 lpm Flow Rate	as found:	17.5 lpm	17.63 lpm	as left:	17.5 lpm

Mechanical Audits (Y = Yes N = No)					
Sample nozzle clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape support vane clean:	as found	<u>Y</u>	as left	<u>Y</u>	
Tape spool covers tight:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 particle trap clean:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 drip jar empty:	as found	<u>Y</u>	as left	<u>Y</u>	
PM10 bug screen clear:	as found	<u>Y</u>	as left	<u>Y</u>	

Manual Span Membrane Test	Pump Test		
Expected Span Mass (mg/cm2): <u>0.950</u>	Flow Rate	Vacuum	Quality Category
Measured Span Mass (mg/cm2): <u>0.961</u>	14.0 - 15.0	Value	Good / Marginal / Poor
Difference (mg/cm2): <u>0.011</u>	(lpm)	(Hg)	
% Difference / Pass or Fail: <u>1.15%</u>	<u>14.7</u>	<u>397.5</u>	<u>Good</u>

Setup and Calibration Values								
Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock	<u>1127</u>	<u>1127</u>	Analog Mode	Hourly	<u>✓</u>	Flow Type	Actual	<u>✓</u>
Location	<u>4</u>	<u>4</u>	Baud Rate	9600	<u>✓</u>	Restart Voltage	12.5 v	<u>✓</u>
Tape Advance	24 hrs	<u>✓</u>	RH Setpoint	45%	<u>✓</u>	Std Cond Temp	25 C	<u>✓</u>
Realtime Avg	60 mins	<u>✓</u>	Delta T Setpoint	15 C	<u>✓</u>	DAC	8.0 v	<u>✓</u>
Machine Type	PM-10	<u>✓</u>	RH Control	On	<u>✓</u>	RH Connect	No	<u>✓</u>
Analog FS	1.0 v	<u>✓</u>	Flow Setpoint	16.7	<u>✓</u>	Pump Protect	Off	<u>✓</u>

Last 6 Errors in E-BAM Error Log						
Error	Date	Time	Error	Date	Time	
<u>1 No new messages</u>	<u>3/21/25</u>	<u>1148</u>	4			
<u>2</u>			5			
<u>3</u>			6			

Audit Notes:

