

# **State of Hawaii 2026 Air Monitoring Network Plan**

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## Acronyms and Definitions

AADT	Annual Average Daily Traffic
AQI	Air Quality Index
AQS	Environmental Protection Agency Air Quality System
BAM	Beta-Attenuation Mass Monitor
CAA	Clean Air Act
CAB	State of Hawaii Department of Health Clean Air Branch
CAB-IT	Clean Air Branch Information Technology
CBSA	Core-Based Statistical Areas
CFR	Code of Federal Regulations
CO	Carbon Monoxide
DOH	Hawaii State Department of Health
DRR	Data Requirements Rule
DWS	Hawaii County Department of Water Supply
ECA	(North American) Emissions Control Area (Maritime)
EPA	United States Environmental Protection Agency
FEM	Federal Equivalent Method
FRM	Federal Reference Method
H <sub>2</sub> S	Hydrogen Sulfide
HECO	Hawaiian Electric Company
IMPROVE	Integrated Monitoring of Protected Visual Environments
MSA	Metropolitan Statistical Area
MSL	Mean Sea Level
NAAQS	National Ambient Air Quality Standards
NCORE	National Core Multi-Pollutant Monitoring Stations
NEI	National Emissions Inventory
NO	Nitrogen Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>y</sub>	Reactive Oxides of Nitrogen
O <sub>3</sub>	Ozone
OMB	Federal Office of Management and Budget
PAMS	Photochemical Assessment Monitoring Station
Pb	Lead
PGV	Puna Geothermal Ventures
PM	Particulate matter
PM <sub>2.5</sub>	Particulate matter less than or equal to 2.5 microns in aerodynamic diameter
PM <sub>10</sub>	Particulate matter less than or equal to 10 microns in aerodynamic diameter
PM <sub>10-2.5</sub>	Particulate matter coarse
POC	Parameter Occurrence Code
PQAO	Primary Quality Assurance Organization
PPB	Parts per billion
PPM	Parts per million
PSD	Prevention of Significant Deterioration
PWEI	Population Weighted Emissions Index
QC	Quality Control
SLAMS	State and Local Air Monitoring Stations
SO <sub>2</sub>	Sulfur Dioxide
SPM(S)	Special Purpose Monitoring (Stations)
VMAP	Vog Measurement and Prediction Project
VOG	Haze due to volcanic emissions
WD	Wind direction
WS	Wind speed
µg/m <sup>3</sup>	micrograms per cubic meter of air

# Introduction

The State of Hawaii Department of Health (DOH), Clean Air Branch (CAB) plans, operates, and maintains the statewide ambient air quality monitoring network. Ambient air monitoring data is submitted to the U.S. Environmental Protection Agency's (EPA), Air Quality System (AQS) and the AirNow website which reports air quality using the Air Quality Index (AQI). This data is used to determine compliance with National Ambient Air Quality Standards (NAAQS), to track and characterize air quality trends, evaluate emission control strategies, and to support health studies.

The DOH manages the State and Local Air Monitoring Stations (SLAMS), Special Purpose Monitoring Stations (SPMS), and the National Core Multi-Pollutant Monitoring Station (NCore). Additionally, Hawaii has two Interagency Monitoring of Protected Visual Environments (IMPROVE) stations located at Haleakala National Park on Maui and Volcanoes National Park on the island of Hawaii. The IMPROVE stations are operated and maintained by the National Park Service through their federal land management agency.

This annual review evaluates the state's existing ambient air monitoring network to determine adequacy in meeting monitoring objectives, optimizing the network by adding new, relocating, or discontinuing stations, ensuring that air quality issues important to the state are being addressed, and that the quality assured data meets the needs of stakeholders.

This plan encompasses the 18-month period from July 1, 2026, through December 31, 2027. During this period, modifications to this plan may occur due to changes of available resources, staff reductions, funding restrictions, unanticipated community concerns, site issues, or new EPA monitoring requirements. This plan is being submitted to the EPA Region 9 according to the Code of Federal Regulations (CFR), Title 40, Part 58, Section 58.10 Annual monitoring network plan and periodic network assessment.

Notification of the plan availability for public inspection and comment was provided through public notices published on May 21, 2026, in the daily newspapers of all counties. The plan was available for inspection on the Clean Air Branch website at <http://health.hawaii.gov/cab>, for 30 days from May 21, 2026, to June 20, 2026. Documentation of public notification is provided in **Appendix A**. Comments received will be addressed and included in this plan.

# 1.0 Network Purpose and Design

## 1.1 Overview

In 1970, the federal Clean Air Act (CAA) was promulgated as a comprehensive response to address air pollution and created the EPA as the agency responsible for carrying out the law. In 1990, the CAA was amended, Title 40 of the Code of Federal Regulations (CFR) Part 50 required the EPA to set National Ambient Air Quality Standards (NAAQS) for pollutants considered harmful to public health and the environment. This amendment identified six principal pollutants, which are called criteria air pollutants, they are: particulate matter (PM), sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), ozone (O<sub>3</sub>), and lead (Pb). Additionally, the CAA NAAQS defined two types of standards:

- *Primary standards* are health-based standards designed to protect the public health, especially “sensitive” populations such as children, the elderly, and individuals with respiratory conditions.
- *Secondary standards* are welfare-based standards designed to protect public welfare and to prevent environmental and property damage.

These NAAQS standards are reviewed every five years by EPA and based on the latest scientific data and studies, reaffirmed, tightened or rarely, relaxed. Additionally, there is a state standard for hydrogen sulfide (H<sub>2</sub>S) that was established primarily to monitor the emissions of geothermal energy production activities on the island of Hawaii.

40 CFR Part 58 requires that states establish and operate an ambient air quality surveillance system in a manner that assures the most applicable data of the highest quality is collected. Appendix A to 40 CFR Part 58 provides the quality assurance requirements that each monitoring organization must implement to ensure that the data produced will be of the type and quality needed and expected by the data user. The data is used, in part, to support regulatory, research, and health decisions and to provide air quality information to the public.

The ambient air monitoring network is designed for the following purposes:

- To determine compliance with the NAAQS.
- To provide the public with timely air quality information.
- To support air pollution research and health studies.
- To track pollution trends throughout the region, including non-urban areas.
- To develop emissions control strategies.
- To prevent or alleviate air pollution episodes by activating emergency control procedures.

The State of Hawaii’s monitoring network consists of three major categories of monitoring stations, State and Local Air Monitoring Stations (SLAMS), National Core (NCore), and Special Purpose Monitoring Stations (SPMS).

The annual network review ensures that Hawaii continues to meet monitoring and siting requirements, the three basic monitoring objectives, addresses the six site types in 40 CFR Part 58, Appendix D, provides information for non-regulatory data goals, and complies with requirements of 40 CFR Part 58, Appendices A, C, D, and E as follows:

- *Appendix A: Quality Assurance Requirements for SLAMS, SPMS and PSD Air Monitoring*
- *Appendix C: Ambient Air Quality Monitoring Methodology*
- *Appendix D: Network Design Criteria for Ambient Air Quality Monitoring*
- *Appendix E: Probe and Monitoring Path Siting Criteria for Ambient Air Quality Monitoring*

### 1.1.1 State and Local Air Monitoring Stations (SLAMS)

The **SLAMS** sites were established primarily to determine compliance with the NAAQS and to meet minimum monitoring requirements set forth in 40 CFR Part 58, Appendix D but may also serve other data purposes such as providing real-time air pollution data for the public, for regulatory decision making and compliance.

One of the main objectives is to show whether the state is in attainment or non-attainment of the seven criteria pollutants. Non-attainment of any of the NAAQS may have regulatory consequences addressed through the air permitting program. Historically, Hawaii has been in attainment of the NAAQS. Summarized data is available at: <https://health.hawaii.gov/cab/hawaii-air-quality-data-books>.

All SLAMS must meet quality assurance, methodology, and siting requirements of 40 CFR 58 Appendix A, C and E, respectively. All data is submitted to EPA's Air Quality System (AQS) within 90 days at the end of each calendar quarter, as required in 40 CFR 58.16.

On October 17, 2006, as published in the Federal Register, the EPA provided final rule revisions to ambient monitoring regulations as contained in 40 CFR, Parts 53 and 58. Included in these revised rules are the requirements for establishing NCore sites. NCore stations are established to support the tracking of long-term trends of criteria and non-criteria pollutants, model evaluation, long-term health and ecosystem assessments, and other scientific and technological studies.

It was mandated by the EPA that each state is required to operate at least one **NCore** site, to begin January 1, 2011, and measure, at a minimum, PM<sub>2.5</sub> particulate matter (particles with an average aerodynamic diameter of 2.5 micrometers or less) using continuous and integrated/filter-based samplers, speciated PM<sub>2.5</sub>, PM<sub>10-2.5</sub> particulate matter, SO<sub>2</sub>, CO, nitrogen oxide (NO), reactive oxides of nitrogen (NO<sub>y</sub>), O<sub>3</sub>, wind speed, wind direction, relative humidity and ambient temperature. Gas monitors at this site are more sensitive than the standard monitors used at the other sites. Concentrations measured are well below NAAQS but are important in the formation of ozone and particulate matter. Hawaii's SLAMS network includes one NCore site in Kapolei which became fully operational on January 1, 2011.

### **1.1.2 Special Purpose Monitoring Stations (SPMS)**

The **SPMS** were established for specific areas of interest to the state and do not count in meeting the minimum monitoring requirements. However, all SPMS utilize Federal Reference Methods (FRM), Federal Equivalent Methods (FEM), or Approved Regional Methods (ARM), and meet the requirements of 40 CFR Part 58, Appendix E, follow all the quality assurance criteria contained in 40 CFR Part 58, Appendix A as well as the data quality and measurement quality objectives and siting requirements. All data from SPMS meeting siting requirements which have operated for more than 24 months are eligible for comparison to respective NAAQS.

Hawaii established SPMS as needed to address specific air quality questions, community concerns, research, or pollutions hotspots. On Hawaii Island the SPMS network of eight (8) stations is established primarily to monitor air quality impacts of emissions from Kilauea volcano and hydrogen sulfide (H<sub>2</sub>S) emissions from geothermal energy production. Two (2) SPMS on Maui monitor impacts from agricultural burning and wildfires. One (1) SPMS monitors cruise ships emissions on the island of Kauai.

## **1.2 Network Design and Review Process**

The network review process is conducted to determine if any changes or modifications to the network are necessary. Changes such as meeting new NAAQS monitoring requirements, utilizing newer and better technology, reducing or eliminating redundancy and low value monitoring, ensuring that enough data is being collected using the best technology, and that all siting and quality assurance requirements are met.

Modification decisions are made using a variety of tools, including but not limited to data trend analyses; performance and technical systems audits; regular site inspections; cost and value analyses; assessment of unfavorable site changes such as loss of lease or construction that adversely affect data collection; and the need to address special studies or new regulatory as well as non-regulatory monitoring objectives.

### **1.2.1 Monitoring Objectives and Site Types**

Ambient air monitoring networks must be designed to meet three basic objectives as stated in 40 CFR Part 58, Appendix D:

- 1) Provide air pollution data to the public in a timely manner.
- 2) Support compliance with NAAQS and emissions strategy development.
- 3) Support air pollution research studies.

The state's ambient air monitoring network achieves all three objectives as follows:

- 1) Air pollution data from all SLAMS and SPMS are exhibited near real-time on the DOH public website. Additionally, continuous PM<sub>2.5</sub> and O<sub>3</sub> data is provided to EPA's AIRNow website for use in calculating the AQI, SO<sub>2</sub> data is provided for the Hawaii SO<sub>2</sub> Short Term Advisory, and PM<sub>2.5</sub> and SO<sub>2</sub> data is provided to the Vog Measurement and Prediction Project (VMAP).
- 2) Data from SLAMS are used to demonstrate compliance with the NAAQS and in development and tracking of emissions control strategies. Similarly, data from the NCore station is used to demonstrate compliance with the NAAQS

and to track long-term trends of criteria and non-criteria pollutants as well as support emissions control strategies.

- 3) All SLAMS, SPMS, and NCore monitoring provide valuable information in support of air pollution, health, and other scientific studies.

For the network to support the three basic objectives outlined above, it must be designed with a variety of monitoring site types. The six general site types are:

- 1) Determine the highest pollutant concentrations expected in the network.
- 2) Measure typical concentrations in areas of high population density.
- 3) Determine the impact of significant sources or source categories on air quality.
- 4) Determine general background concentrations.
- 5) Determine the extent of regional pollutant transport between populated areas.
- 6) Measure pollution impacts on visibility, vegetation, crops, animals, and buildings.

The site type for each station in the network is included in its detailed description in Section 3.0 of this plan.

### **1.2.2 PM<sub>2.5</sub> Network Changes**

According to 40 CFR 58.10 (c), this network plan must document how the state will provide for the review of changes to a PM<sub>2.5</sub> monitoring network that impact the location of a violating PM<sub>2.5</sub> monitor. The agency must document the process for obtaining public comments and include any comments received through the public notification process within the submitted plan. The state has in place a public notification procedure which includes posting a notice in the newspapers of all counties and on the agency web site allowing for public inspection and comments of the changes that are in the annual network plan document. Any comments received are reviewed and if appropriate provided a response.

### **1.3 Organizational Structure and Responsibilities**

The CAB is the state agency responsible for air pollution control in Hawaii and includes planning, management, data collection, quality assurance, and regulatory activities. The DOH serves as the Primary Quality Assurance Organization (PQAO).

The CAB monitoring section is responsible for the overall planning, siting, installing, operation, maintenance, data collection, and quality assurance oversight of the ambient air monitoring program. The CAB QA officer provides QA oversight for the program. The validated, quality assured, defensible data which meets EPA QA requirements is submitted to EPA's AQS database. The DOH contracts out laboratory support for collocated PM<sub>2.5</sub> mass analyses.

## 2.0 Network Evaluation

The criteria ambient air quality network for the State of Hawaii is established according to the requirements of 40 CFR Part 58, Appendix D. The CAB is responsible for ensuring that the network meets or exceeds the minimum EPA monitoring requirements and locating stations to adequately address the purposes and objectives. Pollutants covered in this document include CO, NO<sub>2</sub>, O<sub>3</sub>, SO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> and H<sub>2</sub>S, which are currently monitored at sixteen (16) stations statewide as follows:

- CO monitors
  - one (1) SLAMS (Honolulu)
  - one (1) SLAMS/NCore (Kapolei)
- NO<sub>2</sub> monitor
  - one (1) SLAMS/NCore (Kapolei)
- NO/NO<sub>y</sub> monitor
  - one (1) SLAMS/NCore (Kapolei)
- O<sub>3</sub> monitors
  - one (1) SLAMS (Sand Island)
  - one (1) SLAMS/NCore (Kapolei)
- SO<sub>2</sub> monitors
  - four (4) SLAMS (Honolulu, Hilo, Kona, and Pahala)
  - one (1) SLAMS/NCore (Kapolei)
  - seven (7) SPMS (Mountain View, Ocean View, Keaau, Leilani, Naalehu, Waikoloa, and Niumalu)
- PM<sub>10</sub> monitors
  - one (1) SLAMS (Honolulu)
  - one (1) SLAMS/NCore (Kapolei)
- PM<sub>2.5</sub> monitors
  - four (4) SLAMS (Honolulu, Sand Island, Hilo, and Kona)
  - one (1) SLAMS/NCore (Kapolei)
  - nine (9) SPMS (Mountain View, Ocean View, Pahala, Kailua-Kona, Keaau, Naalehu, Waikoloa, Kahului, and Kihei)
- H<sub>2</sub>S monitor
  - one (1) SPMS (Leilani)

40 CFR Part 58, Appendix D identifies the minimum monitoring requirements for criteria pollutants in the SLAMS network. The monitoring requirements are based on the latest census population in each Metropolitan Statistical Area (MSA). MSAs are defined by the Federal Office of Management and Budget (OMB) and the U.S. Census Bureau. According to the OMB, there are two MSAs in the state: Urban Honolulu with a 2025 census population of 988,703 and Kahului-Wailuku-Lahaina in Maui County with a 2025 census population of 160,592. The 2025 census population was estimated at 1,432,820 for the state, down 0.9% from the 2024 estimate of 1,446,146. There are five counties in the state: Kauai (islands of Niihau and Kauai); City & County of Honolulu (island of Oahu); Maui (islands of Maui, Molokai excluding Kalawao County, Lanai, and Kahoolawe); Kalawao (Kalaupapa Settlement on Molokai) and Hawaii (island of Hawaii). Hawaii's network meets the minimum monitoring requirements.

As the NAAQS are revised, the number of required monitors may also change, some of the tools that may be used to determine network adequacy are:

- Monitoring strategies.
- Historical monitoring data.
- Population density changes.
- Maps of emissions densities.
- Special studies.
- State Implementation Plan requirements.
- Dispersion modeling.
- Traffic counts.
- Best professional judgment.

The actual geographic location of monitors in the network is reviewed using maps, photographs, and GIS information. Plots of source emissions, historical monitoring data, population density, and other special study findings may also be used to evaluate the monitor locations.

The stated objective for each monitoring site is reconfirmed, and the location's spatial scale is verified. If the site location does not support the stated objectives or the designated spatial scale, proposed changes are submitted to EPA in the annual network plan.

An integral part of the network review is an in-depth determination of whether it meets the needs of specific state objectives as well as budgetary and staff limitations. This includes reviewing for:

- The need for new monitors or monitoring sites.
- The need to relocate existing monitors.
- Siting problems and solutions.
- Data submittal and completeness problems.
- Station maintenance issues.
- Quality assurance problems.
- The need for air quality studies and special monitoring programs.
- Other issues such as proposed regulations and funding.

The network review is documented in the annual network plan and is made available for public inspection at least thirty (30) days prior to submittal to EPA Region 9 on or before July 1 of each year. The most current network plan is posted on the CAB website at <http://health.hawaii.gov/cab> under "Reports".

## **2.1 PM<sub>2.5</sub> Network**

The state must operate a minimum number of required PM<sub>2.5</sub> monitors based on population and the most recent 3-year design value in each MSA. There are three PM<sub>2.5</sub> SLAMS in the Honolulu MSA, one SPMS in the Maui MSA, and two SLAMS on Hawaii Island (not an MSA) with complete design values. The design value for the annual PM<sub>2.5</sub> standard is the most current 3-year average annual mean for each site. The design value for the 24-hour PM<sub>2.5</sub> standard is the most current 3-year average of annual 98<sup>th</sup> percentile 24-hour values recorded at each monitoring site. Table 2-1 shows the annual and daily design values for complete data years 2023 to 2025.

The most recent 3-year design values in the Honolulu and Maui MSAs were less than 85% of any PM<sub>2.5</sub> NAAQS. Table 2-2 shows that the state operates more than the minimum monitoring requirements for PM<sub>2.5</sub> in each MSA. Additionally, the state has another SPMS in the Maui MSA, and seven SPMS on the island of Hawaii for volcanic emissions. All SPMS stations use FEM monitors and follow the requirements of 40 CFR Part 58, Appendices A, D, and E. Currently, Naalehu and Mountain View do not meet siting requirements and Kailua-Kona has operated less than two years at its new location after being moved to meet siting requirements. Kihei, Kahului, Pahala, Ocean View, Keaau, and Waikoloa meet siting requirements and have been operating for more than 24 months at its current location are subject to NAAQS comparison.

Beginning January 1, 2026, the Hilo and Kona PM<sub>2.5</sub> monitors, which were previously designated as SPMS, were re-designated as SLAMS due to their continued operations. These stations have been operating as special purpose stations providing historical data, we anticipate that they will continue to operate in the current locations, therefore, will officially be SLAMS sites. The remaining stations will continue to operate as special purpose.

As sensor technology improves, along with resource management considerations, an option to replace FEM monitors with sensors is being planned for two of the SPMS sites, Kailua-Kona and Naalehu. For the Mountain View station, due to the discretion of the landowner, siting requirements cannot be met and thus the FEM monitor will also be requested to be discontinued and be replaced with a sensor. See Section 2.10 for discussion on site closures and Section 3.0 for detailed location information.

The IMPROVE monitoring station (HACR1) at Haleakala National Park on Maui, operated by the National Park Service, serves as the background/transport PM<sub>2.5</sub> site for the state’s network. All primary PM<sub>2.5</sub> monitors operated by the state are continuous FEM. Figure 2-1 shows the map locations of all the PM<sub>2.5</sub> stations in the state.

**Table 2-1. PM<sub>2.5</sub> Network and Concentrations for Each MSA**

Site	AQS No.	Sampling Frequency	Annual Design Value (µg/m <sup>3</sup> ) 2023 – 2025	Percent of Annual NAAQS (9 µg/m <sup>3</sup> )	Daily Design Value (µg/m <sup>3</sup> ) 2023-2025	Percent of 24-Hour NAAQS (35 µg/m <sup>3</sup> )
<b>Honolulu MSA</b>						
Honolulu	150031001	Continuous	4.1	46	8	23
Kapolei	150030010	Continuous	<b>4.3</b>	48	<b>9</b>	26
Sand Island	150031004	Continuous	4.0	44	<b>9</b>	26
<b>Maui MSA</b>						
Kahului <sup>1</sup>	150090006	Continuous	<b>3.9</b>	43	<b>8</b>	23

NOTE: Haleakala IMPROVE (150099001) is the PM<sub>2.5</sub> background/transport site for Hawaii and is operated and maintained by the NPS  
<sup>1</sup> The Kahului station is used above for the Maui MSA as it had a complete 3-year design value. The Kihei station resumed operations on August 21, 2023 as a SPMS after having been shut down since March 30, 2022; it had been slated for discontinuation but restarted due to concerns of air quality impact from wildfires. In addition, the Kihei station no longer meets siting requirements.

**Table 2-2. PM<sub>2.5</sub> Minimum Monitoring Requirements for Each MSA**

MSA Population Category (2025 Census) (40 CFR 58 Appendix D Table D-5)		Most recent 3-year Design Value ≥85% of any PM <sub>2.5</sub> NAAQS (≥29.75 µg/m <sup>3</sup> for 24-hr standard; ≥7.65 µg/m <sup>3</sup> for annual standard)		Most recent 3-year Design Value <85% of any PM <sub>2.5</sub> NAAQS (<29.75 µg/m <sup>3</sup> for 24-hour standard; <7.65 µg/m <sup>3</sup> for annual standard)		
>1,000,000		3		2		
500,000-1,000,000		2		1		
50,000-<500,000		1		0		
MSA	2025 Census Population (estimated)	Highest Annual Design Value 2023 – 2025	Highest Daily Design Value 2023-2025	Required No. of Monitors	Number of Active Monitors in the MSA	Number of Monitors Needed
Honolulu	988,703	4.3	9	1	3	0
Maui	160,592	3.9	8	0	2	0

Appendix A to 40 CFR Part 58 requires that 15 percent of each PM<sub>2.5</sub> monitoring method be collocated. The state currently operates four SLAMS, one NCore and nine SPMS FEM monitors (fourteen in total); twelve of which are using Method 209 and two that are using Method 638. The number of collocated monitors will be adjusted accordingly as needed to accommodate any future PM<sub>2.5</sub> network changes.

One collocated monitor is required for the two stations using Method 638, Honolulu and Kapolei NCore. One FRM collocated monitor is operating at the Kapolei NCore station to meet this requirement.

Two collocated monitors are currently required for the twelve stations using Method 209, one is the FRM collocated monitor operating at the Sand Island station and the other is a PM<sub>2.5</sub> FEM collocated monitor at the Kona station. The number of FRM and/or FEM collocated monitors will be adjusted accordingly as needed to accommodate any future PM<sub>2.5</sub> network changes. Table 2-3 summarizes the PM<sub>2.5</sub> collocated network at the time of plan publication and Table 2-4 summarizes the PM<sub>2.5</sub> collocated network with the approval of EPA of the requested shutdowns discussed in Section 2.10 of this plan.

**Table 2-3. PM<sub>2.5</sub> Collocated Network**

Method Code	# Primary Monitors	# Required Collocated	# Active Collocated FRM	# Active Collocated FEM (same method designation as primary)
209	12	2	1	1
638	2	1	1	0

**Table 2-4. PM<sub>2.5</sub> Collocated Network with Planned Shutdowns**

Method Code	# Primary Monitors	# Required Collocated	# Active Collocated FRM	# Active Collocated FEM (same method designation as primary)
209	9	1	1	0
638	1	1	1	0

**Figure 2-1. PM<sub>2.5</sub> Network**



## 2.2 PM<sub>10</sub> Network

The minimum number of required PM<sub>10</sub> monitoring stations for the MSA is dependent upon population and concentration measurements. High concentration areas are those for which the ambient PM<sub>10</sub> data show concentrations exceeding the PM<sub>10</sub> NAAQS by 20 percent or more. Medium and low concentration areas are those for which ambient PM<sub>10</sub> data show concentrations exceeding 80 percent of the NAAQS, and concentrations less than 80 percent of the NAAQS, respectively.

PM<sub>10</sub> data for 2025 showed the Honolulu MSA to be a low concentration area (Table 2-5) and, therefore, requires having one to two PM<sub>10</sub> monitors (Table 2-6). In the absence of a PM<sub>10</sub> design value for the Maui MSA and with a population <250,000, no PM<sub>10</sub> monitoring is required in that MSA. The state meets the minimum PM<sub>10</sub> monitoring requirements with two PM<sub>10</sub> stations in the Honolulu MSA.

**Table 2-5. PM<sub>10</sub> Network and Concentrations for the Honolulu MSA<sup>1</sup>**

Site Name	AQS No.	2025 Maximum 24-Hr Value (µg/m <sup>3</sup> )	Percent of 24-Hr NAAQS (150 µg/m <sup>3</sup> )	Sampling Frequency
Honolulu	150031001	24	16	Continuous
Kapolei	150030010	31	21	Continuous

<sup>1</sup> There is currently no PM<sub>10</sub> monitor operating in the Maui MSA.

**Table 2-6. PM<sub>10</sub> Minimum Monitoring Requirements for Each MSA**

MSA Population Category (2025 Census) (40 CFR 58 Appendix D Table D-4)		High Concentration ≥120% of NAAQS (≥180 µg/m <sup>3</sup> )	Medium Concentration >80% of NAAQS (>120 µg/m <sup>3</sup> )	Low Concentration <80% of NAAQS (<120 µg/m <sup>3</sup> ) <sup>1</sup>	
>1,000,000		6-10	4-8	2-4	
500,000-1,000,000		4-8	2-4	1-2	
250,000-500,000		3-4	1-2	0-1	
100,000-250,000		1-2	0-1	0	
MSA	2025 Census Population (estimated)	Highest 24-hr Value (2025)	Required # of Monitors	# of Active Monitors in the MSA	# of Monitors Needed
Honolulu	988,703	31 µg/m <sup>3</sup>	1-2	2	0
Maui	160,592	No data available	0 <sup>1</sup>	0	0

<sup>1</sup> 40 CFR Part 58, Appendix D, Section 4.6, Table D-4 states that in the absence of a design value, these minimum monitoring requirements apply.

Figure 2-2 is a map of the current PM<sub>10</sub> sites in the state. All the PM<sub>10</sub> stations are in the Honolulu MSA.

**Figure 2-2. PM<sub>10</sub> Network**



### 2.3 Pb Network

Pb monitoring was discontinued on December 31, 2018. EPA approved the discontinuation of Pb monitoring per letter dated October 29, 2018.

**Table 2-7. Minimum Pb Monitoring Requirement at NCore**

NCore	AQS ID	CBSA	2025 Census Population (estimated)	# Required Monitors	# Active Monitors	# Monitors Needed
KA	150030010	Honolulu	988,703	*0	*0	0

\* Per EPA letter dated October 29, 2018, the Pb monitoring at Kapolei NCore was approved to be discontinued.

## 2.4 O<sub>3</sub> Network

Depending upon MSA population and typical peak concentrations, the state must operate a minimum number of O<sub>3</sub> monitors. NCore sites are intended to complement O<sub>3</sub> data collection and can be used to meet the minimum monitoring requirements.

The O<sub>3</sub> monitoring season for the State of Hawaii is 12 months from January to December. The O<sub>3</sub> design value is the 3-year average of the fourth-highest daily maximum 8-hour concentrations measured at each monitor.

The most recent O<sub>3</sub> design value concentrations at the Sand Island and Kapolei NCore stations in the Honolulu MSA showed less than 85% of the O<sub>3</sub> NAAQS (Table 2-8). The Maui MSA does not have any O<sub>3</sub> monitoring. According to 40 CFR Part 58, Appendix D, Table D-2 and, as shown in Table 2-9 below, with a 2025 census population estimated at 160,592 and in the absence of a design value, no O<sub>3</sub> monitor is required in the Maui MSA. The state meets the minimum O<sub>3</sub> network monitoring requirements.

**Table 2-8. O<sub>3</sub> Design Values for the Honolulu MSA**

Stations in the MSA	8-Hour Design Value 2023 – 2025	2025 MSA Census Population	Required # of Monitors	# of Active Monitors in the MSA	# of Additional Monitors Needed
Sand Island (150031004)	0.044	988,703 (estimated)	1	2	0
Kapolei (150030010)	0.043				
There is no O <sub>3</sub> monitor in the Maui MSA		160,592 (estimated)	0	0	0

**Table 2-9. O<sub>3</sub> Minimum Monitoring Requirements for Each MSA**

MSA Population Category (40 CFR 58 Appendix D Table D-2)	Most recent 3-year design value ≥85% of any O <sub>3</sub> NAAQS (≥.064 ppm, 8-hr standard)	Most recent 3-year design value <85% of any O <sub>3</sub> NAAQS (<.064 ppm, 8-hr standard) <sup>1</sup>
>10 million	4	2
4-10 million	3	1
350,000-<4 million	2	1
50,000-<350,000	1	0

<sup>1</sup> According to 40 CFR part 58 Appendix D, Table D-2, these minimum monitoring requirements apply in the absence of a design value.

Hawaii is in attainment with the 8-hour O<sub>3</sub> standard and is not required to submit an Enhanced Monitoring Plan (EMP). 40 CFR Part 58.10 requires that states with Moderate and above 8-hour O<sub>3</sub> nonattainment areas and states in the Ozone Transport Region as defined in 40 CFR 51.900 shall develop and implement an EMP.

Figure 2-3 shows the map locations of the SLAMS and NCore O<sub>3</sub> stations. Both stations are in the Honolulu MSA.

**Figure 2-3. O<sub>3</sub> Network**



## 2.5 NO<sub>2</sub> Network

40 CFR Part 58, Appendix D Section 4.3.3 requires area wide NO<sub>2</sub> monitoring in the location of highest expected concentration in Core-Based Statistical Areas (CBSA) with a population  $\geq 1,000,000$ . The Honolulu MSA had a 2025 census population estimated at 988,703, down 1.0% from the 2024 estimate of 998,747, reverting to the recent trend of slightly decreasing from year to year except for a slight increase from 2023 to 2024. The population and Annual Average Daily Traffic (AADT) for the Honolulu CBSA will be monitored, and when thresholds are reached, the near-road monitoring will be established.

The state currently has one SLAMS NO<sub>2</sub> station in the Honolulu MSA which measures typical concentration in areas of high population density. Additionally, this location would be suitable as the area-wide monitor because it is in the area of highest expected concentration. No NO<sub>2</sub> monitoring is required in the Maui MSA.

**Table 2-10. Minimum Near-Road NO<sub>2</sub> Monitoring Requirements for the MSA**

CBSA	2025 Census Population (estimated)	Max AADT Counts (2023) <sup>1</sup>	# Required Monitors	# Monitors to be operational by 1/1/2017
Honolulu	988,703	234,400	0	0

<sup>1</sup> 2023 estimated average AADT provided by the State of Hawaii Data Book 2023, Department of Business, Economic Development and Tourism.

**Figure 2-4. NO<sub>2</sub> Network**



## 2.6 CO Network

The state currently operates two CO monitors, one SLAMS and one SLAMS/NCore, in the Honolulu MSA. Figure 2-5 shows the locations of the CO sites in the state. 40 CFR Part 58, Appendix D Section 4.2.2 requires one collocated CO monitor at near-road NO<sub>2</sub> sites in Core-based Statistical Areas (CBSA) with populations  $\geq 1,000,000$ . The Honolulu MSA had a 2025 census population estimated at 988,703. The population and AADT for the Honolulu CBSA will be monitored, and when thresholds are reached, the near-road monitoring and the collocated CO monitor will be established. No CO monitoring is required in the Maui MSA.

**Figure 2-5. CO Network**



## 2.7 SO<sub>2</sub> Network

According to the Population Weighted Emissions Index (PWEI) calculation, established to determine SO<sub>2</sub> monitoring requirements, Hawaii is required to operate one SO<sub>2</sub> monitor in the Honolulu MSA and none in the Maui MSA (Table 2-11). The state currently operates one SLAMS SO<sub>2</sub> monitor in the Honolulu MSA, and one at the NCore station in Kapolei which meets the minimum number of required SO<sub>2</sub> stations. There are no requirements for an SO<sub>2</sub> monitor in the Maui MSA.

The SPM station on Kauai was established to measure SO<sub>2</sub> from cruise ship emissions and will continue. Elevated levels of SO<sub>2</sub> in communities affected by volcanic emissions continue to be a concern on Hawaii Island. There are currently nine stations monitoring for SO<sub>2</sub> on Hawaii Island, three are SLAMS (Hilo, Kona and Pahala) and six (Mountain View, Ocean View, Keaau, Leilani, Naalehu, and Waikoloa) are SPMS. The probes at Mountain View and Naalehu do not meet siting requirements and therefore are not currently subject to NAAQS comparisons. All stations use FEM monitors and follow the requirements of 40 CFR Part 58, Appendices A, D, and E. DOH changed the designation of the Pahala SO<sub>2</sub> station from SPMS to SLAMS on January 1, 2026. See Section 2.12 for discussion on site modifications and Section 3.0 for detailed location information. Figure 2-6 shows the locations of the SLAMS, SLAMS/NCore, and SPMS discussed.

**Table 2-11. Minimum SO<sub>2</sub> Monitoring Requirements**

CBSA	County	2025 Census Population (estimated)	Total SO <sub>2</sub> (tons/year) 2020 NEI	PWEI <sup>1</sup>	# Required Monitors	# Active Monitors	# Monitors Needed
Honolulu	City & County of Honolulu	988,703	11,318	11,190	1	1 SLAMS 1 SLAMS/NCore	0
Maui	Maui	160,592	2,227	358	0	0	0

<sup>1</sup> According to 40 CFR 58 Appendix D, if the PWEI for a CBSA is ≥ 5,000 but < 100,000, a minimum of one SO<sub>2</sub> monitor is required.

**Figure 2-6. SO<sub>2</sub> Network**



## 2.8 NCore

The Kapolei NCore station is in the residential, commercial, and industrial community on the southwest side of Oahu. Kapolei is considered the “second city” to downtown and urban Honolulu, and includes private businesses, county, state, and federal agencies with established offices in the area. The NCore parameters are: NO/NO<sub>y</sub>, trace-level SO<sub>2</sub>, trace-level CO, O<sub>3</sub>, PM<sub>2.5</sub>, PM<sub>10-2.5</sub>, PM<sub>2.5</sub> speciation and the meteorological parameters wind speed, wind direction, temperature, and relative humidity.

40 CFR Part 58, Appendix D, Section 5 (a) requires the state to collect and report Photochemical Assessment Monitoring Station (PAMS) measurements at each NCore site located in a CBSA with a population ≥1,000,000. The Honolulu MSA had a 2025 census population estimated at 988,703, down 1.0% from 2024, therefore, DOH will

continue to monitor the population and work with EPA to determine the appropriate timeline necessary to meet the requirement to operate a PAMS.

## **2.9 H<sub>2</sub>S Network**

Puna Geothermal Ventures (PGV) facility is located on Hawaii Island in the lower east rift zone of the Kilauea volcano. PGV is permitted to operate a 41-megawatt geothermal power plant and to conduct geothermal energy exploration and production. The pollutant of concern emitted from the facility operations is hydrogen sulfide (H<sub>2</sub>S). The state has a one-hour H<sub>2</sub>S standard of 25 parts per billion (ppb).

DOH operates a station at the Leilani Community Association Center, downwind of the facility, to monitor ambient levels of H<sub>2</sub>S due to activities from PGV. The Leilani station is operated and maintained according to EPA monitoring and quality assurance requirements.

## **2.10 Site Closures**

40 CFR Part 58, Appendix A, Section 2.1.3 states: The PQAQO/monitoring organization's quality system must have adequate resources both in personnel and funding to plan, implement, assess, and report on the achievement of the requirements of this appendix and its' approved Quality Assurance Project Plan (QAPP).

### **2.10.1 Honolulu (150031001) SLAMS Honolulu, Oahu, Hawaii Parameter: CO, SO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>**

This monitoring station is located on the roof of a state-owned building scheduled to undergo extensive renovations and will need to be shut down to accommodate the planned work. DOH plans to shut the station down sometime prior to December 31, 2026. The request to shut down this station and all supporting information is included in Appendix B of this plan.

### **2.10.2 Kailua-Kona (150013034) SPMS Kailua-Kona, Hawaii Parameter: PM<sub>2.5</sub>**

This station is in the middle of Kailua-Kona town within a fenced area that contains a County of Hawaii water reservoir and pump house. The station was established to monitor the effects of volcanic emissions and has been monitoring for PM<sub>2.5</sub> since November 21, 2018.

To deal with difficulties maintaining adequate staffing and manpower, and the ever increasing cost required to maintain FEM samplers, DOH plans to shut down this station some time prior to December 31, 2026. A nonregulatory low cost sensor will be installed in its place to continue providing the community with near real-time monitoring. The request to shut down this station and all supporting information is included in Appendix C of this plan.

**2.10.3 Mountain View (150012023) SPMS**  
**Mountain View, Hawaii**  
**Parameter: PM<sub>2.5</sub>**

This monitor is located on the grounds of the Mountain View Elementary School. Due to its proximity to the Kilauea volcano, the station was established to monitor volcanic emissions in the surrounding area during non-trade wind days. To accommodate the discretion of the landowner, proper siting requirements cannot be met. DOH plans to shut down this monitor some time prior to December 31, 2026 and replace it with a nonregulatory low cost sensor. The request to shut down this station and all supporting information is included in Appendix D of this plan.

**2.10.4 Naalehu (150013033) SPMS**  
**Naalehu, Hawaii**  
**Parameter: PM<sub>2.5</sub>**

This PM<sub>2.5</sub> monitor is in the town of Naalehu on the Naalehu Elementary School campus and has been operating since December 2, 2022. Proper siting requirements cannot be met at its current location, thus DOH plans to shut down this monitor some time prior to December 31, 2026 and use a nonregulatory low cost sensor in its place. The request to shut down this station and all supporting information is included in Appendix F of this plan.

**2.10.5 Kona (150011012) FEM Collocated**  
**Kona, Hawaii**  
**Parameter: PM<sub>2.5</sub> Collocated**

This FEM collocated PM<sub>2.5</sub> monitor is being operated to satisfy the collocation requirements of 40 CFR Part 58, Appendix A, Section 3.2.3. With EPA's approval of the above listed PM<sub>2.5</sub> discontinuations, this collocated monitor will no longer be required. DOH plans to shut this monitor down when appropriate.

As requested by EPA, DOH is including the closure approval letters for Pearl City PM<sub>10</sub> and PM<sub>2.5</sub> (150032004), Niimalu PM<sub>2.5</sub> and NO<sub>2</sub> (15007007), Kapolei CO and SO<sub>2</sub> (150030010), and Honaunau PM<sub>2.5</sub> (150013032). The approval letters are included in Appendix F of this plan.

## **2.11 Site Additions**

DOH has no planned site additions in the next 18 months. However, DOH has installed and will continue to maintain a network of nonregulatory PM<sub>2.5</sub> sensors to provide additional air quality information to the public in areas where there is limited air monitoring. The use of sensors is a great addition to the air monitoring network measuring volcanic emissions, smoke, windblown dust, or facility emissions.

## **2.12 Site Modifications**

### **2.12.1 Hilo (150011006) SPMS to SLAMS Hilo, Hawaii Parameter: PM<sub>2.5</sub>**

This PM<sub>2.5</sub> monitor, which was previously designated as SPMS, was re-designated as SLAMS on January 1, 2026.

### **2.12.2 Kona (150012012) SPMS to SLAMS Kona, Hawaii Parameter: PM<sub>2.5</sub>, PM<sub>2.5</sub> Collocated**

This PM<sub>2.5</sub> monitor, which was previously designated as SPMS, was re-designated as SLAMS on January 1, 2026.

### **2.12.3 Pahala (150012016) SPMS to SLAMS Pahala, Hawaii Parameter: SO<sub>2</sub>**

This SO<sub>2</sub> monitor, which was previously designated as SPMS, was re-designated as SLAMS on January 1, 2026.

There are no other plans to modify any of the other current sites in the next 18 months.

## **2.13 Summary of Network and Changes**

Table 2-12 summarizes the state's 2026 network monitors and planned changes. Since it has been determined that no criteria monitors are currently required in the Maui MSA, only monitors required for the Honolulu MSA are addressed in the table. Sections 2.10 to 2.12 detail station closures, additions, and equipment or network modifications, and is summarized in Table 2-13.

As indicated in table 2-12, the monitors used for all criteria pollutants are FRM or FEM and follow the requirements of 40 CFR 58, Appendices A, C, D, E and G. Hawaii's air monitoring network meets or exceeds the minimum required monitoring for each parameter.

**Table 2-12. Number of Monitors by Pollutant or Program**

N/A = Not applicable

Pollutant/ Program	SLAMS Only	SPMS	SLAMS/NCore	No. of Collocated	Total in MSA <sup>1,2</sup>	Total in State <sup>2</sup>	Total Required in MSA <sup>1</sup>	Meets EPA Required Minimum?	Planned Additions	Planned Closures
CO (FRM)	1	0	1	N/A	2	2	N/A	N/A	0	1
NO <sub>2</sub> (FRM)	1	0	---	N/A	1	1	N/A	N/A	0	0
SO <sub>2</sub> (FEM)	4	7	1	N/A	2	12	1	YES	0	1
O <sub>3</sub> (FEM)	1	0	1	N/A	2	2	1	YES	0	0
NO/NO <sub>y</sub>	N/A	N/A	1 (NCore)	N/A	1	1	1	YES	0	0
PM <sub>10</sub> (FEM)	1	0	1	N/A	2	2	1-2	YES	0	1
PM <sub>2.5</sub> (all are FEM)	4	9	1	2 FRM 1 FEM	3	14 <sup>3</sup>	1	YES	0	4
PM <sub>2.5</sub> Speciation	0	0	1 (NCore/ Supplemental Speciation)	N/A	1	1	1 (NCore)	YES	0	0
PM <sub>10-2.5</sub>	N/A	N/A	1 (NCore)	N/A	1	1	1 (NCore)	YES	0	0
H <sub>2</sub> S	N/A	1	N/A	N/A	0	1	N/A	N/A	0	0

<sup>1</sup> As promulgated in 40 CFR 58 Appendix D, the minimum monitoring requirements apply to Metropolitan Statistical Areas (MSA).

Currently, only the Honolulu MSA has requirements for minimum criteria pollutant monitoring.

<sup>2</sup> Total refers to the number of primary monitors only and does not count collocated monitors.

<sup>3</sup> Twelve of the fourteen are using Method 209 and two are using Method 238.

**Table 2-13. Summary of Network Changes**

Site	AQS ID	Site Type	Affected Parameters	Reason for Closure/Addition/Modification
<b>City and County of Honolulu</b>				
Honolulu	150031001	SLAMS	CO SO <sub>2</sub> PM <sub>2.5</sub> PM <sub>10</sub>	<b>Site closure:</b> This monitoring station is located on the roof of a state-owned building scheduled to undergo extensive renovations and will need to be shut down. DOH plans to shut the station down prior to December 31, 2026.
<b>Hawaii County</b>				
Kailua-Kona PM <sub>2.5</sub>	150013034	SPMS	PM <sub>2.5</sub>	<b>Site closure:</b> This station is in the middle of Kailua-Kona town and was established to monitor the effects of volcanic emissions. It has been monitoring for PM <sub>2.5</sub> since November 21, 2018. To deal with difficulties maintaining adequate staffing and manpower, and the ever increasing cost required to maintain FEM samplers, DOH plans to shut down this station prior to December 31, 2026.
Mountain View PM <sub>2.5</sub>	150012023	SPMS	PM <sub>2.5</sub>	<b>Site closure:</b> This monitor is located on the grounds of the Mountain View Elementary School. Due to its proximity to the Kilauea volcano, the station was established to monitor volcanic emissions in the surrounding area during non-trade wind days. To accommodate the discretion of the landowner, proper siting requirements cannot be met. DOH plans to shut down this monitor prior to December 31, 2026.
Naalehu PM <sub>2.5</sub>	150013033	SPMS	PM <sub>2.5</sub>	<b>Site closure:</b> This PM <sub>2.5</sub> monitor is in the town of Naalehu on the Naalehu Elementary School campus and has been operating since December 2, 2022. Proper siting requirements cannot be met at its current location, thus DOH plans to shut down this monitor prior to December 31, 2026.

Site	AQS ID	Site Type	Affected Parameters	Reason for Closure/Addition/Modification
Hilo PM <sub>2.5</sub>	150011006	SPMS	PM <sub>2.5</sub>	<b>Site modification:</b> This PM <sub>2.5</sub> monitor, which was previously designated as SPMS, was re-designated as SLAMS on January 1, 2026.
Hilo PM <sub>2.5</sub>	150011012	SPMS	PM <sub>2.5</sub>	<b>Site modification:</b> This PM <sub>2.5</sub> monitor, which was previously designated as SPMS, was re-designated as SLAMS on January 1, 2026.
Pahala SO <sub>2</sub>	150012016	SPMS	PM <sub>2.5</sub>	<b>Site modification:</b> This SO <sub>2</sub> monitor, which was previously designated as SPMS, was re-designated as SLAMS on January 1, 2026.

The operation of each monitor meets the requirements of appendices A, C, D, E and G of 40 CFR Part 58, where applicable.

### 3.0 Detailed Site Descriptions

The following are descriptions and photos of each station in the state’s current ambient air monitoring network. The descriptions include area location, traffic, probe siting, monitor information and adherence to quality assurance.

DOH Clean Air Branch is the collecting and reporting agency for all stations and monitors operating in the state.

**Table 3-1. State of Hawaii Ambient Air Monitoring Network**

ID	AQS No.	Site Name	Basic Monitoring Objective(s) <sup>1</sup>	Parameters
DH	150031001	Honolulu	1,2	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , CO
KA SLAMS/ NCore	150030010	Kapolei	1,2,3	PM <sub>2.5</sub> , PM <sub>2.5</sub> collocated FRM, PM <sub>10</sub> , (PM <sub>10-2.5</sub> ), trace SO <sub>2</sub> , NO <sub>2</sub> , NO/NO <sub>y</sub> , trace CO, O <sub>3</sub> , PM <sub>2.5</sub> speciation, WS, WD, RH, Ambient Temperature
SI	150031004	Sand Island	1,2	PM <sub>2.5</sub> , PM <sub>2.5</sub> collocated FRM, O <sub>3</sub>
KH	150090006	Kihei	1,2,3	PM <sub>2.5</sub>
KL	150090025	Kahului	1,2,3	PM <sub>2.5</sub>
NI	150070007	Niimalu	1,2,3	SO <sub>2</sub>
HL	150011006	Hilo	1,2,3	PM <sub>2.5</sub> , SO <sub>2</sub>
KN	150011012	Kona	1,2,3	SO <sub>2</sub> , PM <sub>2.5</sub> , PM <sub>2.5</sub> collocated FEM
MV	150012023	Mt. View	1,2,3	PM <sub>2.5</sub> , SO <sub>2</sub>
OV	150012020	Ocean View	1,2,3	PM <sub>2.5</sub> , SO <sub>2</sub>
PA (SLAMS)	150012016	Pahala	1,2,3	SO <sub>2</sub>
PA (SPMS)	150012016	Pahala	1,2,3	PM <sub>2.5</sub>
LE	150012035	Leilani	1,3	H <sub>2</sub> S, SO <sub>2</sub>
KK	150013034	Kailua-Kona	1,2,3	PM <sub>2.5</sub>
KS	150013027	Keaau	1,2,3	PM <sub>2.5</sub> , SO <sub>2</sub>
NA	150013033	Naalehu	1,2,3	PM <sub>2.5</sub> , SO <sub>2</sub>
WL	150012021	Waikoloa	1,2,3	PM <sub>2.5</sub> , SO <sub>2</sub>

<sup>1</sup> Basic Monitoring Objectives:

- 1) Public information
- 2) NAAQS compliance
- 3) Support research

<b>(DH) HONOLULU</b>			
AQS: 150031001	Type: SLAMS	County: Honolulu	MSA: Honolulu
Address: 1250 Punchbowl St., Honolulu, HI 96813			
Latitude: 21.30758	Longitude: -157.85542		Elevation: 20 m MSL
<b>Location Description:</b> This station is located on the roof of the state Department of Health building in downtown Honolulu. The surrounding streets are busy thoroughfares serving the downtown area. The area includes a major hospital (Queen's Medical Center), the state capitol, other state, county, commercial and business buildings as well as residential condominiums. This station has been operating since 1972.			



<b>DH TRAFFIC DESCRIPTION</b>			
<b>Type of Roadway</b>	Punchbowl	S. Beretania	Vineyard
Freeway			
Major Street or Highway	X	X	X
Distance from air intake (m)	19	71	270
Direction from air inlet	E	S	NE
Composition of roadway	asphalt	asphalt	asphalt
Number of traffic lanes	5	6	6
Average daily traffic	19,800 <sup>1</sup>	20,100 <sup>1</sup>	17,400 <sup>2</sup>
Average vehicle speed (est. mph)	20	25	25
Traffic one way or two	2	1	2
Street parking?	No	No	No
<sup>1</sup> Source: Hawaii Department of Transportation (2016 count) <sup>2</sup> Hawaii Data Book (2023 count)			

For "Site Representativeness" in the following table:

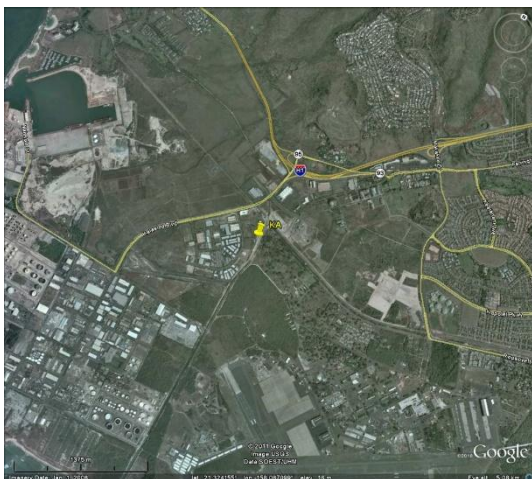
- <sup>1</sup>Site Types:
- 1) Located to determine the highest concentrations;
  - 2) Located to measure typical concentrations in areas of high population density;
  - 3) Located to determine the impact of significant sources or source categories on air quality;
  - 4) Located to determine general background concentration levels;
  - 5) Located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) Located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts.

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research.

**(DH) Honolulu continued**

<b>DH MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>CO</b>
POC/FRM or FEM	1/FEM	3/FEM	6/FEM	1/FRM
Type of monitor	SLAMS	SLAMS	SLAMS	SLAMS
AQS parameter code	81102	88101	42401	42101
Manufacturer	TAPI	TAPI	Thermo	TAPI
Model no.	T640X	T640X	43iQ	T300
AQS method code	639	638	060	093
Monitoring start date	8/17/2022	1/1/2023	9/27/2019	10/15/2019
Monitoring frequency	Continuous	Continuous	Continuous	Continuous
Probe material	N/A	N/A	Glass	Glass
Residence time (sec)	N/A	N/A	14.5	9.2
Distance between collocated monitors	N/A	N/A	N/A	N/A
Analytical laboratory	N/A	N/A	N/A	N/A
Location of probe	building roof	building roof	building roof	building roof
Building dimensions (H) (m)	13.7	13.7	13.7	13.7
Horizontal distance from supporting structure (m)	3.1	3.1	4.8	4.8
Vertical distance above supporting structure (m)	2.5	2.5	1.1	1.1
Height of probe above ground (m)	16.2	16.2	14.8	14.8
Distance (m) & direction from drip line of tree(s)	8 N	8 N	9 N	9 N
Horizontal distance from edge of nearest traffic lane (m)	19	19	22	22
Horizontal distance from nearest parking lot (m)	10	10	9	9
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	10.5 ESE, 2.7	10.5 ESE, 2.7	9 S, 2.7	9 S 2.7
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	N/A	N/A
Distance (m) & direction from furnace or incineration flues	234 S/SW	234 S/SW	238 S/SW	238 S/SW
Unrestricted airflow	360°	360°	360°	360°
Located in paved (P) or vegetative (V) ground?	P	P	P	P
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Middle
Applicable NAAQS averaging time(s)	24-hr	24-hr, annual	1-hr, annual	1-hr, 8-hr
Sampling season	12 months	12 months	12 months	12 months
Site type <sup>1</sup>	2	2	2	1
Purpose of monitor <sup>2</sup>	1, 2	1, 2	1, 2	1, 2
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	N/A	Yes	N/A	N/A
<b>DATA QUALITY</b>				
Last PEP	N/A	12/3/25	N/A	N/A
Last NPAP (2017 NPAP done for O <sub>3</sub> only in SI site)	N/A	N/A	12/6/24	12/6/24
Date of last annual independent performance audit (CAB)	N/A	N/A	7/3/25	6/18/25
Frequency of flow rate verification (automated PM)	Monthly	Monthly	N/A	N/A
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (PM)	4/15/25, 10/30/25	4/15/25, 10/30/25	N/A	N/A
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	N/A	N/A
Precision & accuracy submitted to AQS	Quarterly	Quarterly	Quarterly	Quarterly
Frequency of 1-pt. QC check (gases)	N/A	N/A	Weekly	Weekly
Frequency of multi-point gas calibration	N/A	N/A	6 months	6 months
Annual data certification submitted	4/14/26	4/14/26	4/14/26	4/14/26
Changes in the next 18 months?	Shut down by 12/31/2026	Shut down by 12/31/2026	Shut down by 12/31/2026	Shut down by 12/31/2026

<b>(KA) KAPOLEI SLAMS and N CORE</b>			
AQS: 150030010	Type: SLAMS	County: Honolulu	MSA: Honolulu
Address: 2052 Lauwiliwili St., Kapolei, HI 96707			
Latitude: 21.32374	Longitude: -158.08861		Elevation: 17.9 m MSL
<p>Location Description: Located in the Kapolei Business Park in the city of Kapolei, the area is a mix of business, commercial, and government activities surrounded by an ever-expanding residential community. The site is also approximately 1.25 km northeast (upwind) of the state's largest industrial park on the southwest coast of Oahu. The station has been operating as a SLAMS station since 2002. On October 30, 2009, EPA approved the Kapolei station as the state's NCore site, and in addition to the SLAMS parameters, the station began collecting the required NCore parameters on January 1, 2011. There are plans to replace the station shelters with new ones.</p>			



<b>KA TRAFFIC DESCRIPTION</b>		
<b>Type of Roadway</b>	<b>Kalaeloa Blvd.</b>	<b>Lauwiliwili St.</b>
Freeway		
Major Street or Highway	X	
Local Street or Road		X
Distance from air intake (m)	370	134
Direction from air inlet	NW	W
Composition of roadway	Asphalt	Asphalt
Number of traffic lanes	6	2
Average daily traffic	34,800 <sup>1</sup>	<sup>2</sup> Estimated: <5,000
Average vehicle speed (est. mph)	35	30
Traffic one way or two	2	2
Street parking?	No	Yes
<sup>1</sup> Source: State of Hawaii Data Book (2023 count) <sup>2</sup> Estimate only, no data available, local road		

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(KA) Kapolei SLAMS and NCore continued**

<b>KA MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub> Primary</b>	<b>PM<sub>2.5</sub> QA Collocated</b>	<b>PM<sub>10-2.5</sub></b>
POC/FRM or FEM	3/FEM	1/FEM	2/FRM	7/FEM
Type of monitor	SLAMS	SLAMS/NCore	SLAMS/NCore	NCore
AQS parameter code	81102	88101	88101	86101
Manufacturer	TAPI	TAPI	Met One	TAPI
Model no.	T640X	T640X	E-SEQ-FRM	T640X
AQS method code	639	638	142	640
Monitoring start date	1/7/2022	1/7/2022	9/4/21	1/7/2022
Monitoring frequency	Continuous	Continuous	1/3 days	Continuous
Probe material	N/A	N/A	N/A	N/A
Residence time (sec)	N/A	N/A	N/A	N/A
Manual PM instrument flow rate (liters per minute)	N/A	N/A	16.7	N/A
Distance between collocated monitors (m)	N/A	2.1	2.1	N/A
Analytical laboratory	N/A	N/A	Pace Analytical	N/A
Location of probe	shelter roof	shelter roof	shelter roof	shelter roof
Shelter dimensions (H x W x D) (m)	2.7x2.4x4.9	2.7x2.4x4.9	2.7x2.4x4.9	2.7x2.4x4.9
Horizontal distance from supporting structure (m)	N/A	N/A	N/A	N/A
Vertical distance above supporting structure (m)	2.2	2.2	1.9	2.2
Height of probe above ground (m)	4.9	4.9	4.6	4.9
Distance (m) & direction from drip line of tree(s)	17 NW	17 NW	18 NW	18 NW
Horizontal distance from edge of nearest traffic lane (m)	132	132	133	132
Horizontal distance from nearest parking lot (m)	37	37	37	37
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	N/A	N/A
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	170 E, 9	170 E, 9	170 E, 9	170 E, 9
Distance (m) & direction from furnace or incineration flues	None	N/A	None	None
Unrestricted airflow	360°	360°	360°	360°
Located in paved (P) or vegetative (V) ground?	gravel	gravel	gravel	gravel
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Applicable NAAQS averaging time(s)	24-hr	24-hr, annual	24-hr, annual	N/A
Sampling season	12 months	12 months	12 months	12 months
Site type <sup>1</sup>	2	1	Quality Assurance	2
Purpose of monitor <sup>2</sup>	1, 2	1, 2	Quality Assurance	4
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	N/A	Yes	Yes	N/A
<b>DATA QUALITY</b>				
Last PEP	N/A	10/12/22	N/A	N/A
Last NPAP	N/A	N/A	N/A	N/A
Date of last annual independent performance audit (CAB)	N/A	N/A	N/A	N/A
Frequency of flow rate verification (automated PM)	Monthly	Monthly	N/A	Monthly
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	Monthly	N/A
Dates of last 2 semi-annual flow rate audits (PM)	6/19/25, 12/2/25	6/19/25, 12/2/25	6/19/25, 12/2/25	6/19/25, 12/2/25
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	N/A	N/A
Precision & accuracy submitted to AQS	Quarterly	Quarterly	Quarterly	Quarterly
Frequency of 1-pt. QC check (gases)	N/A	N/A	N/A	N/A
Frequency of multi-point gas calibration	N/A	N/A	N/A	N/A
Annual data certification submitted	4/14/26	4/14/26	4/14/26	4/14/26
Changes in the next 18 months?	None	None	None	None

**(KA) Kapolei SLAMS and NCore continued**

<b>KA MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>O<sub>3</sub></b>	<b>NO<sub>2</sub></b>	<b>Trace CO</b>	<b>Trace SO<sub>2</sub></b>
POC/FRM or FEM	1/FRM	1/FRM	2/FRM	2/FEM
Type of monitor	SLAMS/NCore	SLAMS	SLAMS/NCore	SLAMS/NCore
AQS parameter code	44201	42602	42101	42401
Manufacturer	Thermo	TAPI	TAPI	Thermo
Model no.	49iQ	T500U	T300EU	43iTLE
AQS method code	047	212	093	560
Monitoring start date	1/9/2014	10/5/2006	9/30/2014	1/1/2011
Monitoring frequency	Continuous	Continuous	Continuous	Continuous
Probe material	Teflon	Teflon	Teflon	Teflon
Residence time (sec)	2.7	2.8	2.4	10.3
Distance between collocated monitors (m)	N/A	N/A	N/A	N/A
Analytical laboratory	N/A	N/A	N/A	N/A
Location of probe	shelter roof	shelter roof	shelter roof	shelter roof
Shelter dimensions (H x W x D) (m)	2.7x2.4x4.9	2.7x2.4x4.9	4 x 2.4 x 5	4 x 2.4 x 5
Horizontal distance from supporting structure (m)	N/A	N/A	N/A	N/A
Vertical distance above supporting structure (m)	1.2	1.2	1.2	1.2
Height of probe above ground (m)	3.86	3.86	3.86	3.86
Distance (m) & direction from drip line of tree(s)	12 N	12 N	12 N	12 N
Horizontal distance from edge of nearest traffic lane (m)	162	167	162	162
Horizontal distance from nearest parking lot (m)	82	87	82	82
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	N/A	N/A
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	165 E, 9	170 E, 9	165 E, 9	165 E, 9
Distance (m) & direction from furnace or incineration flues	None	None	N/A	N/A
Unrestricted airflow	360°	360°	360°	360°
Located in paved (P) or vegetative (V) ground?	gravel	gravel	gravel	gravel
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Applicable NAAQS averaging time(s)	8-hr	1-hr, annual	1-hr, 8-hr	1-hr, annual
Sampling season	12 months	12 months	12 months	12 months
Site type <sup>1</sup>	2	2	2	2
Purpose of monitor <sup>2</sup>	1, 2	1, 2	1,2,4	1,2,4
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	N/A	N/A	N/A	N/A
<b>DATA QUALITY</b>				
Last PEP	N/A	N/A	N/A	N/A
Last NPAP	12/6/24	6/23/21	6/24/24	6/24/24
Date of last annual independent performance audit (CAB)	7/8/25	7/31/25	7/15/25	7/15/25
Frequency of flow rate verification (automated PM)	N/A	N/A	N/A	N/A
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (PM)	N/A	N/A	N/A	N/A
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	N/A	N/A
Precision & accuracy submitted to AQS	Quarterly	Quarterly	Quarterly	Quarterly
Frequency of 1-pt. QC check (gases)	14 days	Weekly	14 days	14 days
Frequency of multi-point gas calibration	6 months	6 months	6 months	6 months
Annual data certification submitted	4/14/26	4/14/26	4/14/26	4/14/26
Changes in the next 18 months?	None	None	None	None

**(KA) Kapolei SLAMS and NCore continued**

<b>KA MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>NO/NOy</b>	<b>PM<sub>2.5</sub> Spec.</b>	<b>RH</b>	<b>AT</b>
POC/FRM or FEM	1/FRM	N/A	POC 1	POC 1
Type of monitor	NCore	NCore/Supp. Speciation	NCore	NCore
AQS parameter code	42601/42600	Various	62201	62101
Manufacturer	Thermo	Met-One/URG	RM Young	RM Young
Model no.	42iY	SASS/3000N	05103VP	05103VP
AQS method code	574	811/136	014	020
Monitoring start date	1/14/2016	7/24/2019	1/1/2011	1/1/2011
Monitoring frequency	Continuous	1/3 days	Continuous	Continuous
Probe material	Teflon	N/A	N/A	N/A
Residence time (sec)	18.9	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	N/A	N/A
Analytical laboratory	N/A	EPA contract	N/A	N/A
Location of probe	shelter roof	shelter roof	10m tower	10m tower
Shelter dimensions (H x W x D) (m)	2.7 x 2.4 x 4.9	2.7 x 2.4 x 4.9	2.7 x 2.4 x 4.9	2.7 x 2.4 x 4.9
Horizontal distance from supporting structure (m)	N/A	N/A	N/A	N/A
Vertical distance above supporting structure (m)	7.4	2.1/1.9	N/A	N/A
Height of probe above ground (m)	10	4.7/4.5	N/A	N/A
Distance (m) & direction from drip line of tree(s)	12 N	13N/11N	N/A	N/A
Horizontal distance from edge of nearest traffic lane (m)	162	165	N/A	N/A
Horizontal distance from nearest parking lot (m)	82	85	N/A	N/A
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	N/A	N/A
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	165 E, 9	168 E, 9	N/A	N/A
Distance (m) & direction from furnace or incineration flues	N/A	N/A	N/A	N/A
Unrestricted airflow	360°	360°	360°	360°
Located in paved (P) or vegetative (V) ground?	gravel	gravel	gravel	gravel
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood	Neighborhood	N/A	N/A
Applicable NAAQS averaging time(s)	N/A	N/A	N/A	N/A
Sampling season	12 months	12 months	12 months	12 months
Site type <sup>1</sup>	2	2	N/A	N/A
Purpose of monitor <sup>2</sup>	4	4	N/A	N/A
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	N/A	N/A	N/A	N/A
<b>DATA QUALITY</b>				
Last PEP	N/A	N/A	N/A	N/A
Last NPAP	6/23/21	N/A	N/A	N/A
Date of last annual independent performance audit (CAB)	8/15/25	N/A	12/2/25	12/2/25
Frequency of flow rate verification (automated PM)	N/A	N/A	N/A	N/A
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	Monthly	N/A	N/A
Dates of last 2 semi-annual flow rate audits (manual PM <sub>2.5</sub> )	N/A	6/19/25, 12/2/25	N/A	N/A
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	N/A	N/A
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	N/A	N/A
Precision & accuracy submitted to AQS	Quarterly	Quarterly	N/A	N/A
Frequency of 1-pt. QC check (gases)	14 days	N/A	N/A	N/A
Frequency of multi-point gas calibration	6 months	N/A	N/A	N/A
Annual data certification submitted	4/14/26	4/14/26	4/14/26	4/14/26
Changes in the next 18 months?	None	None	None	None

(KA) Kapolei SLAMS and NCore continued

KA MONITOR INFORMATION (N/A = Not Applicable)			
	WS	WD	
POC/FRM or FEM	POC 1	POC 1	
Type of monitor	NCore	NCore	
AQS parameter code	61103	61104	
Manufacturer	RM Young	RM Young	
Model no.	05103VP	05103VP	
AQS method code	020	020	
Monitoring start date	1/1/2011	1/1/2011	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	N/A	
Residence time (sec)	N/A	N/A	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	10m tower	10m tower	
Shelter dimensions (H x W x D) (m)	4 x 2.4 x 5	4 x 2.4 x 5	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	N/A	N/A	
Height of probe above ground (m)	N/A	N/A	
Distance (m) & direction from drip line of tree(s)	N/A	N/A	
Horizontal distance from edge of nearest traffic lane (m)	N/A	N/A	
Horizontal distance from nearest parking lot (m)	N/A	N/A	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	gravel	gravel	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	N/A	N/A	
Applicable NAAQS averaging time(s)	N/A	N/A	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	N/A	N/A	
Purpose of monitor <sup>2</sup>	N/A	N/A	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	N/A	N/A	
<b>DATA QUALITY</b>			
Last PEP	N/A	N/A	
Last NPAP	N/A	N/A	
Date of last annual independent performance audit (CAB)	12/2/25	12/2/25	
Frequency of flow rate verification (automated PM)	N/A	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (manual PM <sub>2.5</sub> )	N/A	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	N/A	N/A	
Frequency of 1-pt. QC check (gases)	N/A	N/A	
Frequency of multi-point gas calibration	N/A	N/A	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	None	None	

<b>(SI) SAND ISLAND</b>			
AQS: 150031004	Type: SLAMS	County: Honolulu	MSA: Honolulu
Address: 1039 Sand Island Parkway, Honolulu, HI 96819			
Latitude: 21.30384	Longitude: -157.87117		Elevation: 5.3 m MSL
<b>Location Description:</b> Station is located in the University of Hawaii's Anuenue Fisheries near the entrance to the Sand Island Recreational Area. Sand Island is downwind of downtown Honolulu, across from Honolulu Harbor. This station has been operating since 1980.			



<b>SI TRAFFIC DESCRIPTION</b>	
Type of Roadway	Sand Island Parkway
Freeway	
Major Street or Highway	X
Local Street or Road	
Distance from air intake (m)	39
Direction from air inlet	W
Composition of roadway	asphalt
Number of traffic lanes	2
Average daily traffic	11,600 <sup>1</sup>
Average vehicle speed (est. mph)	30
Traffic one way or two	2
Street parking?	No

<sup>1</sup> Source: State of Hawaii Data Book (2023 count)

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

## (SI) Sand Island continued

<b>SI MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>PM<sub>2.5</sub> Primary</b>	<b>O<sub>3</sub></b>	<b>PM<sub>2.5</sub> QA Collocated</b>	
POC/FRM or FEM	2/FEM	2/FRM	1/FRM	
Type of monitor	SLAMS	SLAMS	SLAMS	
AQS parameter code	88101	44201	88101	
Manufacturer	Met One	Thermo	Met One	
Model no.	BAM1022	49iQ	E-SEQ-FRM	
AQS method code	209	047	142	
Monitoring start date	2/13/2019	1/1/1980	4/6/2023	
Monitoring frequency	Continuous	Continuous	1/12 days	
Probe material	N/A	Glass	N/A	
Residence time (sec)	N/A	3.1	N/A	
Distance between collocated monitors	2	N/A	2	
Manual PM instrument flow rate (liters per minute)	N/A	N/A	16.7	
Analytical laboratory	N/A	N/A	Pace Analytical	
Location of probe	shelter roof	shelter roof	shelter roof	
Shelter dimensions (H x W x D) (m)	2.5x2.5x4.9	2.5x2.5x4.9	2.5x2.5x4.9	
Horizontal distance from supporting structure (m)	N/A	N/A	N/A	
Vertical distance above supporting structure (m)	2.2	1.1	2.2	
Height of probe above ground (m)	4.7	3.6	4.7	
Distance (m) & direction from drip line of tree(s)	19 SE	19 SE	20 SE	
Horizontal distance from edge of nearest traffic lane (m)	40	39	40	
Horizontal distance from nearest parking lot (m)	25	26	25	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	14 NW, 5.5	14 NW, 5.5	14 NW, 5.5	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	N/A	
Unrestricted airflow	360°	360°	360°	
Located in paved (P) or vegetative (V) ground?	gravel	gravel	gravel	
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	8-hr	24-hr, annual	
Sampling season	12 months	12 months	12 months	
Site type <sup>1</sup>	5	1	Quality Assurance	
Purpose of monitor <sup>2</sup>	1, 2	1, 2, 3	Quality Assurance	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	N/A	Yes	
<b>DATA QUALITY</b>				
Last PEP	12/3/25	N/A	N/A	
Last NPAP	N/A	6/24/21	N/A	
Date of last annual independent performance audit (CAB)	N/A	7/9/25	N/A	
Frequency of flow rate verification (automated PM)	Monthly	N/A	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	Monthly	
Dates of last 2 semi-annual flow rate audits (PM)	4/15/25, 10/30/25	N/A	4/15/25, 10/30/25	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	N/A	
Frequency of multi-point gas calibration	N/A	6 months	N/A	
Annual data certification submitted	4/14/26	4/14/26	4/14/26	
Changes in the next 18 months?	None	None	None	

<b>(KH) KIHEI</b>			
AQS: 150090006	Type: SPMS	County: Maui	MSA: Maui
Address: TMK 2-3-9-4:28 Hale Piilani Park, Kihei, HI 96753			
Latitude: 20.780997	Longitude: -156.44637	Elevation: 46.5 m MSL	
<b>Location Description:</b> This station is in the Hale Piilani subdivision's park in upper Kihei and is currently bordered by former ag lands to the northeast and by homes to the southwest. The station was originally established to monitor the effects of agricultural burning and had been operating since 1999 monitoring for particulates. It was shut down on March 30, 2022, for network resource management purposes, but was restarted on August 21, 2023, to monitor the impact from wildfires.			



<b>KH TRAFFIC DESCRIPTION</b>		
<b>Type of Roadway</b>	<b>Kaiolohia</b>	<b>Kaiwahine</b>
Freeway		
Major Street or Highway		
Local Street or Road	X	X
Distance from air intake (m)	114	118
Direction from air inlet	NW	S
Composition of roadway	asphalt	Asphalt
Number of traffic lanes	2	2
Average daily traffic	<sup>1</sup> Estimated <3,000	<sup>1</sup> Estimated <3,000
Average vehicle speed (est. mph)	25	25
Traffic one way or two	2	2
Street parking?	Yes	Yes
<sup>1</sup> Estimated only, no data available, roads are for local residential access		

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(KH) Kihei continued**

<b>KH MONITOR INFORMATION</b>		<b>(N/A = Not Applicable)</b>		
	<b>PM<sub>2.5</sub></b>			
POC/FRM or FEM	2/FEM			
Type of monitor	SLAMS			
AQS parameter code	88101			
Manufacturer	Met One			
Model no.	BAM1022			
AQS method code	209			
Monitoring start date	2/11/2019 8/21/2023 (restart)			
Monitoring frequency	Continuous			
Probe material	N/A			
Residence time (sec)	N/A			
Distance between collocated monitors	N/A			
Analytical laboratory	N/A			
Location of probe	shelter roof			
Shelter dimensions (H x W x D) (m)	4 x 2 x 5			
Horizontal distance from supporting structure (m)	N/A			
Vertical distance above supporting structure (m)	1			
Height of probe above ground (m)	5			
Distance (m) & direction from drip line of tree(s)	none			
Horizontal distance from edge of nearest traffic lane (m)	154.5			
Horizontal distance from nearest parking lot (m)	105.2			
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A			
Distance (m) & direction from possible obstructions not on roof, vertical height above probe (m)	15.2 NNW, 3			
Distance (m) & direction from furnace or incineration flues	N/A			
Unrestricted airflow	360°			
Located in paved (P) or vegetative (V) ground?	V			
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood			
Applicable NAAQS averaging time(s)	24-hr, annual			
Sampling season	12 months			
Site type <sup>1</sup>	2, 3			
Purpose of monitor <sup>2</sup>	1, 2, 4			
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	No			
<b>DATA QUALITY</b>				
Last PEP	12/4/25			
Last NPAP	N/A			
Date of last annual independent performance audit (CAB)	N/A			
Frequency of flow rate verification (automated PM)	Monthly			
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A			
Dates of last 2 semi-annual flow rate audits (PM)	5/14/25, 11/5/25			
Frequency of 1-point flow rate verification (Pb)	N/A			
Dates of last 2 semi-annual flow rate audits (Pb)	N/A			
Precision & accuracy submitted to AQS	Quarterly			
Frequency of 1-pt. QC check (gases)	N/A			
Frequency of multi-point gas calibration	N/A			
Annual data certification submitted	4/14/26			
Changes in the next 18 months?	None			

<b>(KL) KAHULUI</b>			
AQS: 150090025	Type: SPMS	County: Maui	MSA: Maui
Address: TMK 2-3-8-007-153, Maui Lani Parkway, Kahului, HI 96732			
Latitude: 20.869444	Longitude: -156.492417		Elevation: 55.5 m MSL
<b>Location Description:</b> This station is located off Maui Lani Parkway in Kahului and surrounded primarily by residential land. The station was established to measure typical concentrations of air pollutants in areas of high population density. This station began monitoring for PM <sub>2.5</sub> on January 13, 2015.			



<b>KL TRAFFIC DESCRIPTION</b>	
Type of Roadway	Maui Lani Parkway
Freeway	
Major Street or Highway	
Local Street or Road	X
Distance from air intake (m)	80
Direction from air inlet	S
Composition of roadway	asphalt
Number of traffic lanes	2
Average daily traffic	<3000 <sup>1</sup>
Average vehicle speed (est. mph)	30
Traffic one way or two	2
Street parking?	No
<sup>1</sup> Estimate only, no data available, local road	

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(KL) Kahului continued**

<b>KL MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>PM<sub>2.5</sub></b>			
POC/FRM or FEM	1/FEM			
Type of monitor	SPMS			
AQS parameter code	88101			
Manufacturer	Met One			
Model no.	BAM 1022			
AQS method code	209			
Monitoring start date	2/11/2019			
Monitoring frequency	Continuous			
Probe material	N/A			
Residence time (sec)	N/A			
Distance between collocated monitors	N/A			
Analytical laboratory	N/A			
Location of probe	stand-alone shelter on ground			
Shelter dimensions (H x W x D) (m)	N/A			
Horizontal distance from supporting structure (m)	N/A			
Vertical distance above supporting structure (m)	N/A			
Height of probe above ground (m)	2.7			
Distance (m) & direction from drip line of tree(s)	12.2 N			
Horizontal distance from edge of nearest traffic lane (m)	70			
Horizontal distance from nearest parking lot (m)	N/A			
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A			
Distance (m) & direction from possible obstructions not on roof, vertical height above probe (m)	12.2 N, 4			
Distance (m) & direction from furnace or incineration flues	N/A			
Unrestricted airflow	360°			
Located in paved (P) or vegetative (V) ground?	P			
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood			
Applicable NAAQS averaging time(s)	24-hr, annual			
Sampling season	12 months			
Site type <sup>1</sup>	2, 3			
Purpose of monitor <sup>2</sup>	1, 2, 4			
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes			
<b>DATA QUALITY</b>				
Last PEP	12/4/25			
Last NPAP	N/A			
Date of last annual independent performance audit (CAB)	N/A			
Frequency of flow rate verification (automated PM)	Monthly			
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A			
Dates of last 2 semi-annual flow rate audits (PM)	5/14/25, 11/5/25			
Frequency of 1-point flow rate verification (Pb)	N/A			
Dates of last 2 semi-annual flow rate audits (Pb)	N/A			
Precision & accuracy submitted to AQS	Quarterly			
Frequency of 1-pt. QC check (gases)	N/A			
Frequency of multi-point gas calibration	N/A			
Annual data certification submitted	4/14/26			
Changes in the next 18 months?	None			

<b>(NI) NIUMALU</b>			
AQS: 150070007	Type: SPMS	County: Kauai	MSA: Not in an MSA
Address: 2342 Hulemalu Rd., Lihue, HI 96766			
Latitude: 21.9495	Longitude: -159.365	Elevation: 11 m MSL	
<b>Location Description:</b> Located on a private residential property approximately 1 mile downwind of Nawiliwili Harbor, this station was established to monitor the impact of cruise ship emissions on nearby communities. With the lower ECA fuel sulfur requirements for cruise ships, this station provides information on the effects of lowered fuel sulfur on ambient SO <sub>2</sub> . This station began operating in April 2011. The shelter was replaced on September 6, 2024.			



<b>NI TRAFFIC DESCRIPTION</b>		
<b>Type of Roadway</b>	Hulemalu Rd.	Niimalu Rd.
Freeway		
Major Street or Highway		
Local Street or Road	X	X
Distance from air intake (m)	44.4	309.7
Direction from air inlet	NW	NE
Composition of roadway	asphalt	asphalt
Number of traffic lanes	2	1
Average daily traffic	100 <sup>1</sup>	30 <sup>1</sup>
Average vehicle speed (est. mph)	15	20
Traffic one way or two	2	2
Street parking?	No	No
<sup>1</sup> Estimated only, no data available, roads are for local residential access		

For "Site Representativeness" in the following table:

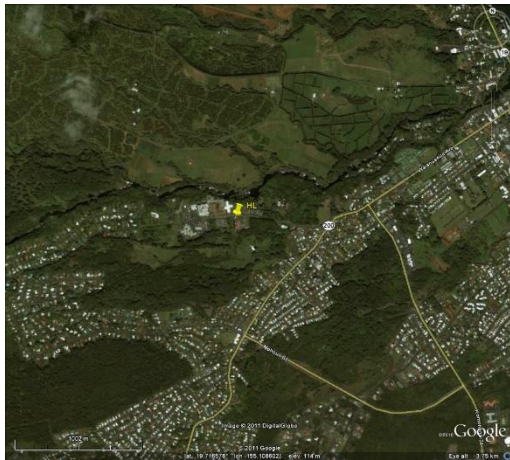
- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(NI) Niimalu continued**

<b>NI MONITOR INFORMATION</b>		<b>(N/A = Not Applicable)</b>		
	<b>SO<sub>2</sub></b>			
POC/FRM or FEM	1/FEM			
Type of monitor	SPMS			
AQS parameter code	42401			
Manufacturer	TECO			
Model no.	43iQ			
AQS method code	060			
Monitoring start date	8/29/2019			
Monitoring frequency	Continuous			
Probe material	Glass			
Residence time (sec)	10.7			
Distance between collocated monitors	N/A			
Analytical laboratory	N/A			
Location of probe	shelter roof			
Shelter dimensions (H x W x D) (m)	3x5x2.4			
Horizontal distance from supporting structure (m)	N/A			
Vertical distance above supporting structure (m)	1			
Height of probe above ground (m)	4			
Distance (m) & direction from drip line of tree(s)	11.5 SE			
Horizontal distance from edge of nearest traffic lane (m)	44.4			
Horizontal distance from nearest parking lot (m)	N/A			
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A			
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	5.2 W, 2.2			
Distance (m) & direction from furnace or incineration flues	N/A			
Unrestricted airflow	360°			
Located in paved (P) or vegetative (V) ground?	V			
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood			
Applicable NAAQS averaging time(s)	1-hr, annual			
Sampling season	12 months			
Site type <sup>1</sup>	3			
Purpose of monitor <sup>2</sup>	1, 2, 4			
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	N/A			
<b>DATA QUALITY</b>				
Last PEP	N/A			
Last NPAP	6/20/23			
Date of last annual independent performance audit (CAB)	10/23/25			
Frequency of flow rate verification (automated PM)	N/A			
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A			
Dates of last 2 semi-annual flow rate audits (PM)	N/A			
Frequency of 1-point flow rate verification (Pb)	N/A			
Dates of last 2 semi-annual flow rate audits (Pb)	N/A			
Precision & accuracy submitted to AQS	Quarterly			
Frequency of 1-pt. QC check (gases)	Semi-weekly			
Frequency of multi-point gas calibration	6 months			
Annual data certification submitted	4/14/26			
Changes in the next 18 months?	No			

<b>(HL) HILO</b>			
AQS: 150011006	Type: SLAMS	County: Hawaii	MSA: Not in an MSA
Address: 1099 Waianuenu Ave., Hilo, HI 96720			
Latitude: 19.71756	Longitude: -155.11053		Elevation: 136.8 m MSL
<b>Location Description:</b> Located on the grounds of the Adult Rehabilitation Center of Hilo, near the Hilo Medical Center, this site was originally established to monitor volcanic emissions during non-prevalent wind conditions. This station has been operating since 1997. The shelter was replaced on March 31, 2023.			



<b>HL TRAFFIC DESCRIPTION</b>	
<b>Type of Roadway</b>	Waianuenu Ave.
Freeway	
Major Street or Highway	X
Local Street or Road	
Distance from air intake (m)	18
Direction from air inlet	N
Composition of roadway	Asphalt
Number of traffic lanes	2
Average daily traffic	8,400 <sup>1</sup>
Average vehicle speed (est. mph)	35
Traffic one way or two	2
Street parking?	No
<sup>1</sup> Source: State of Hawaii Department of Transportation (2016 count)	

For "Site Representativeness" in the following table:

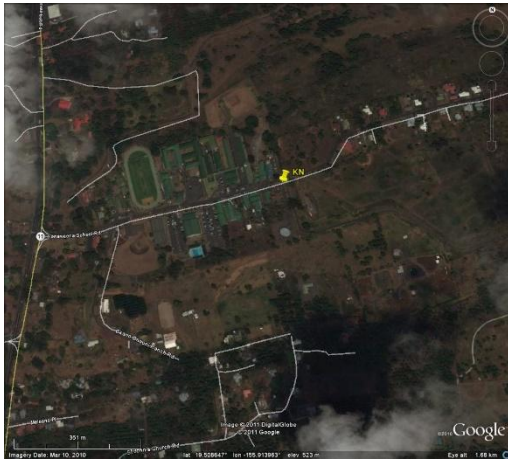
- <sup>1</sup>Site Types: 1) located to determine the highest concentrations;  
 2) located to measure typical concentrations in areas of high population density;  
 3) located to determine the impact of significant sources or source categories on air quality;  
 4) located to determine general background concentration levels;  
 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;  
 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes: 1) Provide air pollution data to the general public in a timely manner;  
 2) Support compliance with ambient air quality standards;  
 3) Support emissions strategy development and track trends in air pollution abatement control measures;  
 4) Support for air pollution research

**(HL) Hilo continued**

<b>HL MONITOR INFORMATION (N/A = Not Applicable)</b>			
	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	1/FEM	1/FEM	
Type of monitor	SLAMS	SLAMS	
AQS parameter code	88101	42401	
Manufacturer	Met-One	TECO	
Model no.	BAM 1022	43iQ	
AQS method code	209	060	
Monitoring start date	1/1/2018	1/1/2007	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	Teflon	
Residence time (sec)	N/A	11.1	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	stand-alone shelter on ground	shelter roof	
Shelter dimensions (H x W x D) (m)	N/A	2.7x2.3x3.7	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	2.2	1	
Height of probe above ground (m)	5.5	4	
Distance (m) & direction from drip line of tree(s)	15 NW	19 NW	
Horizontal distance from edge of nearest traffic lane (m)	16	15	
Horizontal distance from nearest parking lot (m)	26	29	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	
Distance (m) & direction from furnace or incineration flues	29 NNW (10m stack height)	29 NNW (10m stack height)	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	V	V	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3	3	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	N/A	
<b>DATA QUALITY</b>			
Last PEP	7/27/25	N/A	
Last NPAP	N/A	7/27/22	
Date of last annual independent performance audit (CAB)	N/A	10/16/25	
Frequency of flow rate verification (automated PM)	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/22/25, 11/13/25	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	6 months	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	None	None	

<b>(KN) KONA</b>			
AQS: 150011012	Type: SLAMS	County: Hawaii	MSA: Not in an MSA
Address: 81-1043 Konawaena School Rd., Kona, HI 96750			
Latitude: 19.50978	Longitude: -155.91342		Elevation: 517.2 m MSL
<b>Location Description:</b> This station is located on the upper campus of Konawaena High School. It was established to measure impacts from volcanic emissions. The station has been operating at this site since 2005. The shelter is scheduled to be replaced; the date is to be determined.			



<b>KN TRAFFIC DESCRIPTION</b>		
<b>Type of Roadway</b>	Konawaena School Rd.	Mamalahoa Highway
Freeway		
Major Street or Highway		X
Local Street or Road	X	
Distance from air intake (m)	17	702
Direction from air inlet	N	W
Composition of roadway	asphalt	Asphalt
Number of traffic lanes	1	2
Average daily traffic	500 <sup>1</sup>	16,300 <sup>2</sup>
Average vehicle speed (est. mph)	10	55
Traffic one way or two	2	2
Street parking?	No	No
<sup>1</sup> Estimated only, no data available. School access only with limited ingress/egress <sup>2</sup> Source: State of Hawaii Department of Transportation (2016 count)		

For "Site Representativeness" in the following table:

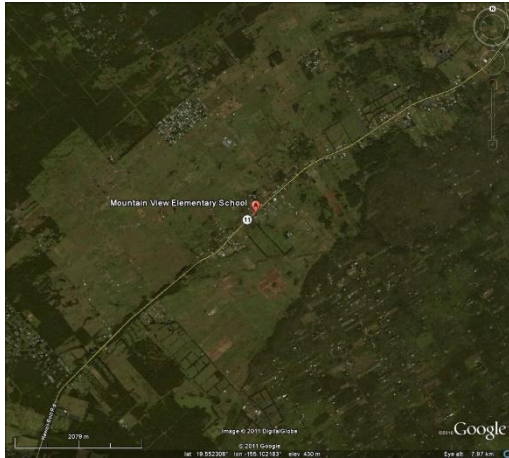
- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(KN) Kona continued**

<b>KN MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>PM<sub>2.5</sub> Primary</b>	<b>PM<sub>2.5</sub> QA Collocated</b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	1/FEM	2/FEM	1/FEM	
Type of monitor	SLAMS	SPMS	SLAMS	
AQS parameter code	88101	88101	42401	
Manufacturer	Met-One	Met-One	TECO	
Model no.	BAM 1022	BAM 1022	43iQ	
AQS method code	209	209	060	
Monitoring start date	3/5/2019	3/5/2019	9/13/2005	
Monitoring frequency	Continuous	Continuous	Continuous	
Probe material	N/A	N/A	Teflon	
Residence time (sec)	N/A	N/A	11.8	
Distance between collocated monitors (m)	2.5	2.5	N/A	
Analytical laboratory	N/A	N/A	N/A	
Location of probe	stand-alone shelter on ground	stand-alone shelter on ground	shelter roof	
Shelter dimensions (H x W x D) (m)	N/A	N/A	3x2.4x5	
Horizontal distance from supporting structure (m)	N/A	N/A	N/A	
Vertical distance above supporting structure (m)	N/A	N/A	1.1	
Height of probe above ground (m)	2.1	2.1	4.1	
Distance (m) & direction from drip line of tree(s)	42.5 SW	42.5 SW	38 SW	
Horizontal distance from edge of nearest traffic lane (m)	30	30	30	
Horizontal distance from nearest parking lot (m)	N/A	N/A	N/A	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	3.4 S, 1	3.4 S, 1	21 SSW, 9	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	N/A	
Unrestricted airflow	360°	360°	360°	
Located in paved (P) or vegetative (V) ground?	V	V	V	
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	12 months	
Site type <sup>1</sup>	3	Quality Assurance	3	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	Yes	N/A	
<b>DATA QUALITY</b>				
Last PEP	7/30/25	7/30/25	N/A	
Last NPAP	N/A	N/A	6/28/22	
Date of last annual independent performance audit (CAB)	N/A	N/A	9/18/25	
Frequency of flow rate verification (automated PM)	Monthly	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/29/25, 11/20/25	5/29/25, 11/20/25	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	N/A	6 months	
Annual data certification submitted	4/14/26	4/14/26	4/14/26	
Changes in the next 18 months?	None	Shut down by 12/31/2026	Replace shelter	

<b>(MV) MOUNTAIN VIEW</b>			
AQS: 150012023	Type: SPMS	County: Hawaii	MSA: Not in an MSA
Address: 18-1235 Volcano Rd., Mt. View, HI 96771			
Latitude: 19.57002	Longitude: -155.08046	Elevation: 436.5 m MSL	
<b>Location Description:</b> This station is located on the grounds of the Mountain View Elementary School. The original Mountain View station, which began in December 2007, was moved at the ending of 2010 approximately 1.8 miles southwest to this current location. Due to the proximity of this community to the Kilauea volcano, it was established to monitor volcanic emissions during non-trade wind days.			



<b>MV TRAFFIC DESCRIPTION</b>	
<b>Type of Roadway</b>	<b>Volcano Rd.</b>
Freeway	
Major Street or Highway	X
Local Street or Road	
Distance from air intake (m)	21
Direction from air inlet	N
Composition of roadway	asphalt
Number of traffic lanes	2
Average daily traffic	13,400 <sup>1</sup>
Average vehicle speed (est. mph)	40
Traffic one way or two	2
Street parking?	No
<sup>1</sup> Source: State of Hawaii Department of Transportation (2016 count)	

For "Site Representativeness" in the following table:

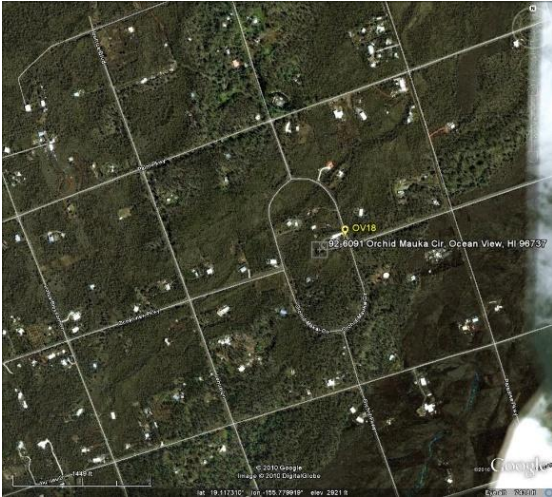
- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(MV) Mt. View continued**

<b>MV MONITOR INFORMATION (N/A = Not Applicable)</b>			
	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	1/FEM	1/FEM	
Type of monitor	SPMS	SPMS	
AQS parameter code	88101	42401	
Manufacturer	Met-One	TECO	
Model no.	BAM 1022	43iQ	
AQS method code	209	060	
Monitoring start date	5/29/2019	12/8/2010	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	Teflon	
Residence time (sec)	N/A	11.7	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	stand-alone shelter on ground	shelter roof	
Shelter dimensions (H x W x D) (m)	N/A	3x2.4x5	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	N/A	1	
Height of probe above ground (m)	2.2	4	
Distance (m) & direction from drip line of tree(s)	4 SW	2 SW	
Horizontal distance from edge of nearest traffic lane (m)	21	23	
Horizontal distance from nearest parking lot (m)	46.5	46.5	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	V	V	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3	3	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	N/A	
<b>DATA QUALITY</b>			
Last PEP	7/27/25	N/A	
Last NPAP	N/A	6/23/22	
Date of last annual independent performance audit (CAB)	N/A	10/1/25	
Frequency of flow rate verification (automated PM)	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/22/25, 11/13/25	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	60 days	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	Shut down by 12/31/26	None	

<b>(OV) OCEAN VIEW</b>			
AQS: 150012020	Type: SPMS	County: Hawaii	MSA: Not in an MSA
Address: 92-6091 Orchid Mauka Circle, Ocean View, HI 96737			
Latitude: 19.11756	Longitude: -155.77814	Elevation: 862.6 m MSL	
<b>Location Description:</b> This station was established in 2010 and is located on the grounds of the Ocean View Fire Station. During normal trade-winds, volcanic emissions are carried into this residential/agricultural community. The shelter was replaced on December 11, 2024.			



<b>OV TRAFFIC DESCRIPTION</b>	
Type of Roadway	Orchid Mauka Circle
Freeway	
Major Street or Highway	
Local Street or Road	X
Distance from air intake (m)	13.6
Direction from air inlet	ENE
Composition of roadway	asphalt
Number of traffic lanes	2
Average daily traffic	< 3,000 <sup>1</sup>
Average vehicle speed (est. mph)	25
Traffic one way or two	2
Street parking?	No
<sup>1</sup> Estimated only, local residential street, no data available	

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types: 1) located to determine the highest concentrations;  
 2) located to measure typical concentrations in areas of high population density;  
 3) located to determine the impact of significant sources or source categories on air quality;  
 4) located to determine general background concentration levels;  
 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;  
 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes: 1) Provide air pollution data to the general public in a timely manner;  
 2) Support compliance with ambient air quality standards;  
 3) Support emissions strategy development and track trends in air pollution abatement control measures;  
 4) Support for air pollution research

**(OV) Ocean View continued**

<b>OV MONITOR INFORMATION (N/A = Not Applicable)</b>			
	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	1/FEM	1/FEM	
Type of monitor	SPMS	SPMS	
AQS parameter code	88101	42401	
Manufacturer	Met-One	TECO	
Model no.	BAM 1022	43iQ	
AQS method code	209	060	
Monitoring start date	5/1/2019	4/1/2010	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	Teflon	
Residence time (sec)	N/A	11.9	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	Stand-alone PM shelter on station stairs platform	shelter roof	
Shelter dimensions (H x W x D) (m)	N/A	3x2.4x5	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	2.1	1.1	
Height of probe above ground (m)	3	4	
Distance (m) & direction from drip line of tree(s)	14 SE	11 SE	
Horizontal distance from edge of nearest traffic lane (m)	8.5	11.5	
Horizontal distance from nearest parking lot (m)	13.5	10	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	2.8 W/ 0.6	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	gravel	gravel	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3, 6	3, 6	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	N/A	
<b>DATA QUALITY</b>			
Last PEP	7/30/25	N/A	
Last NPAP	N/A	6/28/22	
Date of last annual independent performance audit (CAB)	N/A	8/28/25	
Frequency of flow rate verification (automated PM)	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/29/25, 11/21/24	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	6 months	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	None	None	

<b>(PA) PAHALA</b>			
AQS: 150012016	Type: SLAMS (SO <sub>2</sub> ) SPMS (PM <sub>2.5</sub> )	County: Hawaii	MSA: Not in an MSA
Address: 96-3150 Pikake St., Pahala, HI 96777			
Latitude: 19.2039		Longitude: -155.48018	Elevation: 320 m MSL
<b>Location Description:</b> This station is located on the grounds of the Ka'u High/Pahala Elementary School. During normal trade-winds, volcanic emissions are carried into this rural community. The station began operating in 2007.			



<b>PA TRAFFIC DESCRIPTION</b>		
<b>Type of Roadway</b>	Puahala	Pumeli
Freeway		
Major Street or Highway		
Local Street or Road	X	X
Distance from air intake (m)	226	61
Direction from air inlet	E	N
Composition of roadway	Asphalt	Asphalt
Number of traffic lanes	2	2
Average daily traffic	< 3,000 <sup>1</sup>	< 3,000 <sup>1</sup>
Average vehicle speed (est. mph)	25 mph	25 mph
Traffic one way or two	2	2
Street parking?	No	No
<sup>1</sup> Estimated only, no data available. Local roads for a community with a 2010 population of about 1,400		

For "Site Representativeness" in the following table:

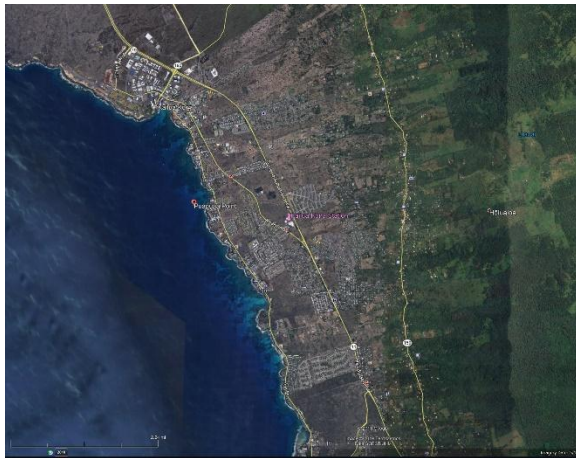
- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(PA) Pahala continued**

<b>PA MONITOR INFORMATION (N/A = Not Applicable)</b>			
	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	1/FEM	1/FEM	
Type of monitor	SPMS	SLAMS	
AQS parameter code	88101	42401	
Manufacturer	Met-One	TECO	
Model no.	BAM 1022	43iQ	
AQS method code	209	060	
Monitoring start date	2/26/2019	8/10/2007	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	Teflon	
Residence time (sec)	N/A	11.4	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	stand-alone shelter on ground	shelter roof	
Shelter dimensions (H x W x D) (m)	N/A	2.7x2x3.7	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	N/A	1	
Height of probe above ground (m)	2.1	4	
Distance (m) & direction from drip line of tree(s)	14.5 S	16.5 S	
Horizontal distance from edge of nearest traffic lane (m)	48	48	
Horizontal distance from nearest parking lot (m)	40	40	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	V	V	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3	3	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	N/A	
<b>DATA QUALITY</b>			
Last PEP	7/27/25	N/A	
Last NPAP	N/A	6/23/22	
Date of last annual independent performance audit (CAB)	N/A	10/9/25	
Frequency of flow rate verification (automated PM)	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/22/25, 11/13/25	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	6 months	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	None	None	

<b>(KK) KAILUA-KONA</b>			
AQS: 150013034	Type: SPMS	County: Hawaii	MSA: Not in an MSA
Address: Department of Water Supply Puapua'a Reservoir, Kailua-Kona, HI 96740			
Latitude: 19.618158	Longitude: -155.971242		Elevation: 92.4 m MSL
<b>Location Description:</b> This station is in the middle of Kailua-Kona town within a fenced area that contains a County of Hawaii water reservoir and pump house. The station was established to monitor the effects of volcanic emissions and has been operating since November 21, 2018 monitoring for PM <sub>2.5</sub> , the sampler was moved a few feet further away from the water tank on November 12, 2024.			



<b>KK TRAFFIC DESCRIPTION</b>			
<b>Type of Roadway</b>	Kuakini Highway	Walua Road	Queen Kaahumanu Hwy
Freeway			
Major Street or Highway	X		X
Local Street or Road		X (no through traffic)	
Distance from air intake (m)	125	42	145
Direction from air inlet	NW	S	E
Composition of roadway	asphalt	Asphalt	Asphalt
Number of traffic lanes	2	2	2
Average daily traffic	8,200 <sup>1</sup>	<sup>2</sup> Estimated <50	25,200 <sup>3</sup>
Average vehicle speed (est. mph)	45	25	45
Traffic one way or two	2	2	2
Street parking?	No	No	No
<sup>1</sup> Source: State of Hawaii Department of Transportation (2016 count) <sup>2</sup> Estimated only, no data available, road is for local business access <sup>3</sup> Source: State of Hawaii Data Book (2023 count)			

For "Site Representativeness" in the following table:

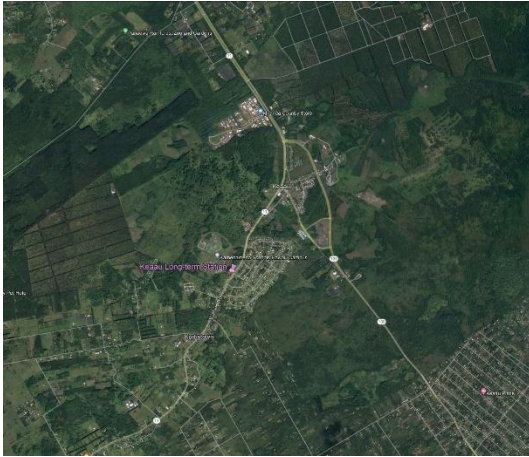
- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(KK) Kailua-Kona continued**

<b>KK MONITOR INFORMATION (N/A = Not Applicable)</b>				
	<b>PM<sub>2.5</sub></b>			
POC/FRM or FEM	1/FEM			
Type of monitor	SPMS			
AQS parameter code	88101			
Manufacturer	Met One			
Model no.	BAM1022			
AQS method code	209			
Monitoring start date	11/15/2018			
Monitoring frequency	Continuous			
Probe material	N/A			
Residence time (sec)	N/A			
Distance between collocated monitors	N/A			
Analytical laboratory	N/A			
Location of probe	stand-alone shelter on ground			
Shelter dimensions (H x W x D) (m)	N/A			
Horizontal distance from supporting structure (m)	N/A			
Vertical distance above supporting structure (m)	N/A			
Height of probe above ground (m)	2.2			
Distance (m) & direction from drip line of tree(s)	16 SW			
Horizontal distance from edge of nearest traffic lane (m)	53			
Horizontal distance from nearest parking lot (m)	37.5			
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A			
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	11.5 NW/5.1			
Distance (m) & direction from furnace or incineration flues	N/A			
Unrestricted airflow	360°			
Located in paved (P) or vegetative (V) ground?	gravel			
<b>SITE REPRESENTATIVENESS</b>				
Spatial scale	Neighborhood			
Applicable NAAQS averaging time(s)	24-hr, annual			
Sampling season	12 months			
Site type <sup>1</sup>	3			
Purpose of monitor <sup>2</sup>	1, 2, 4			
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	No			
<b>DATA QUALITY</b>				
Last PEP	None			
Last NPAP	N/A			
Date of last annual independent performance audit (CAB)	N/A			
Frequency of flow rate verification (automated PM)	Monthly			
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A			
Dates of last 2 semi-annual flow rate audits (PM)	5/29/25, 11/20/25			
Frequency of 1-point flow rate verification (Pb)	N/A			
Dates of last 2 semi-annual flow rate audits (Pb)	N/A			
Precision & accuracy submitted to AQS	Quarterly			
Frequency of 1-pt. QC check (gases)	N/A			
Frequency of multi-point gas calibration	N/A			
Annual data certification submitted	4/14/26			
Changes in the next 18 months?	Shut down by 12/31/2026			

<b>(KS) KEAAU</b>			
AQS: 150013027	Type: SPMS	County: Hawaii	MSA: Not in an MSA
Address: Kamehameha Schools Hawaii Campus, 16-714 Volcano Road, Keaau, HI 96749			
Latitude: 19.605424	Longitude: -155.051379		Elevation: 179.8 m MSL
<b>Location Description:</b> This station is located in the town of Keaau on the Kamehameha Schools Hawaii campus. The station began monitoring for PM <sub>2.5</sub> and SO <sub>2</sub> on June 14, 2018 at a temporary location elsewhere on campus and was relocated to its permanent location on June 30, 2022.			



<b>KS TRAFFIC DESCRIPTION</b>	
Type of Roadway	Volcano Road/Mamalahoa Highway
Freeway	
Major Street or Highway	X
Local Street or Road	
Distance from air intake (m)	40
Direction from air inlet	S
Composition of roadway	asphalt
Number of traffic lanes	2
Average daily traffic	13,400 <sup>1</sup>
Average vehicle speed (est. mph)	45
Traffic one way or two	2
Street parking?	No
<sup>1</sup> Source: State of Hawaii Department of Transportation (2016 count)	

For “Site Representativeness” in the following table:

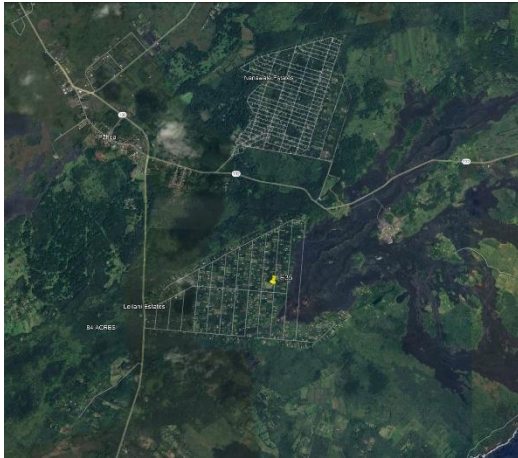
- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(KS) Keaau continued**

<b>KS MONITOR INFORMATION (N/A = Not Applicable)</b>			
	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	1/FEM	1/FEM	
Type of monitor	SPMS	SPMS	
AQS parameter code	88101	42401	
Manufacturer	Met One	TECO	
Model no.	BAM1022	43iQ	
AQS method code	209	060	
Monitoring start date	6/14/2018	6/14/2018	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	Teflon	
Residence time (sec)	N/A	10.7	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	stand-alone shelter on ground	shelter roof	
Shelter dimensions (H x W x D) (m)	N/A	2.7x2x3.7	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	N/A	1	
Height of probe above ground (m)	2.2	4	
Distance (m) & direction from drip line of tree(s)	52 E	52 E	
Horizontal distance from edge of nearest traffic lane (m)	39	41	
Horizontal distance from nearest parking lot (m)	330	330	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	V	V	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3	3	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	N/A	
<b>DATA QUALITY</b>			
Last PEP	None	N/A	
Last NPAP	N/A	None	
Date of last annual independent performance audit (CAB)	N/A	8/26/25	
Frequency of flow rate verification (automated PM)	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/22/25, 11/13/25	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	6 months	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	None	None	

<b>(LE) LEILANI</b>			
AQS: 150012035	Type: SPMS	County: Hawaii	MSA: Not in an MSA
Address: Leilani Community Association Center, 13-3441 Moku Street, Pahoa, Hawaii 96778			
Latitude: 19.46566667	Longitude: - 154.91444444		Elevation: 243 m MSL
<b>Location Description:</b> This station is in a residential subdivision within a fenced area that contains the Leilani Community Association Center. The station was established to monitor emissions from the nearby geothermal energy facility and has been monitoring for H <sub>2</sub> S and SO <sub>2</sub> since September 2019. The shelter was moved to a more suitable location at the center on September 20, 2020.			



<b>LE TRAFFIC DESCRIPTION</b>		
<b>Type of Roadway</b>	Leilani Avenue	Kupono Street
Freeway		
Major Street or Highway		
Local Street or Road	X	X
Distance from air intake (m)	130	45
Direction from air inlet	S	E
Composition of roadway	asphalt	asphalt
Number of traffic lanes	2	2
Average daily traffic	<sup>1</sup> Estimated <2,000	<sup>1</sup> Estimated <200
Average vehicle speed (est. mph)	25	20
Traffic one way or two	2	2
Street parking?	No	No
<sup>1</sup> Estimated only, no data available, roads are for local residential access		

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(LE) Leilani continued**

<b>LE MONITOR INFORMATION (N/A = Not Applicable)</b>			
	<b>H<sub>2</sub>S</b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	N/A	1/FEM	
Type of monitor	SPMS	SPMS	
AQS parameter code	N/A	42401	
Manufacturer	TECO	TECO	
Model no.	450IQ	43IQ	
AQS method code	N/A	060	
Monitoring start date	9/17/2019	9/12/2019	
Monitoring frequency	Continuous	Continuous	
Probe material	Teflon	Teflon	
Residence time (sec)	4.9	11.2	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	shelter roof	shelter roof	
Shelter dimensions (H x W x D) (m)	2.7x2x3.7	2.7x2x3.7	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	1.0	1.0	
Height of probe above ground (m)	4	4	
Distance (m) & direction from drip line of tree(s)	10 W	10 W	
Horizontal distance from edge of nearest traffic lane (m)	45	45	
Horizontal distance from nearest parking lot (m)	175	175	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	N/A	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	gravel	gravel	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	1-hour state standard 25 ppb	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3	3	
Purpose of monitor <sup>2</sup>	1, 4	1, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	N/A	N/A	
<b>DATA QUALITY</b>			
Last PEP	N/A	N/A	
Last NPAP	N/A	None	
Date of last annual independent performance audit (CAB)	9/11/25	9/11/25	
Frequency of flow rate verification (automated PM)	N/A	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	N/A	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	Weekly	Weekly	
Frequency of multi-point gas calibration	6 months	6 months	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	None	None	

<b>(NA) NAALEHU</b>			
AQS: 150013033	Type: SPMS	County: Hawaii	MSA: Not in an MSA
Address: Naalehu Elementary School, 95-5545 Mamalahoa Hwy., Naalehu, HI 96772			
Latitude: 19.060656	Longitude: -155.579167		Elevation: 196.3 m MSL
<b>Location Description:</b> This station is located at the USGS Seismograph building on the campus of Naalehu Elementary School. The SO <sub>2</sub> monitor has been operating since September 6, 2018. A PM <sub>2.5</sub> sampler that was previously operating at the nearby Naalehu Volunteer Fire Station (150013028) was relocated to this station on December 2, 2022.			



<b>NA TRAFFIC DESCRIPTION</b>	
Type of Roadway	Mamalahoa Highway
Freeway	
Major Street or Highway	X
Local Street or Road	
Distance from air intake (m)	180
Direction from air inlet	N
Composition of roadway	asphalt
Number of traffic lanes	2
Average daily traffic	3,700 <sup>1</sup>
Average vehicle speed (est. mph)	25
Traffic one way or two	2
Street parking?	No
<sup>1</sup> Source: State of Hawaii Department of Transportation (2016 count)	

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

## (NA) Naalehu continued

NA MONITOR INFORMATION (N/A = Not Applicable)			
	PM <sub>2.5</sub>	SO <sub>2</sub>	
POC/FRM or FEM	1/FEM	1/FEM	
Type of monitor	SPMS	SPMS	
AQS parameter code	88101	42401	
Manufacturer	Met One	TECO	
Model no.	BAM1022	43iQ	
AQS method code	209	060	
Monitoring start date	12/2/2022	9/6/2018	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	Teflon	
Residence time (sec)	N/A	11.3	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	stand-alone shelter on ground	building wall	
Shelter dimensions (H x W x D) (m)	N/A	2.4 x 3.7 x 3.1	
Horizontal distance from supporting structure (m)	N/A	1	
Vertical distance above supporting structure (m)	2.2	N/A	
Height of probe above ground (m)	2.2	1.9	
Distance (m) & direction from drip line of tree(s)	20 NW	20 NW	
Horizontal distance from edge of nearest traffic lane (m)	114	114	
Horizontal distance from nearest parking lot (m)	114	114	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	1 E/2.4	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	180°	
Located in paved (P) or vegetative (V) ground?	V	V	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3	3	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	Yes	N/A	
<b>DATA QUALITY</b>			
Last PEP	N/A	N/A	
Last NPAP	N/A	Not Done	
Date of last annual independent performance audit (CAB)	N/A	9/25/25	
Frequency of flow rate verification (automated PM)	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/22/25, 11/13/25	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	6 months	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	Shut down by 12/31/2026	None	

<b>(WL) WAIKOLOA</b>			
AQS: 150012021	Type: SPMS	County: Hawaii	MSA: Not in an MSA
Address: TMK 3-6-8-002-019, Waikoloa, HI 96738			
Latitude: 19.977500	Longitude: -155.798056	Elevation: 180.1 m MSL	
<b>Location Description:</b> This station is located within a fenced area that contains a County of Hawaii water tank and pump house, approximately 3 km northeast of Waikoloa. The PM <sub>2.5</sub> monitor for this station was relocated from Waikoloa E.S. on July 28, 2021. An SO <sub>2</sub> monitor and shelter was added to the station on December 8, 2022.			



<b>WL TRAFFIC DESCRIPTION</b>	
Type of Roadway	Queen Kaahumanu Hwy.
Freeway	
Major Street or Highway	X
Local Street or Road	
Distance from air intake (m)	2,283
Direction from air inlet	W
Composition of roadway	asphalt
Number of traffic lanes	2
Average daily traffic	11,900 <sup>1</sup>
Average vehicle speed (est. mph)	55
Traffic one way or two	2
Street parking?	No
<sup>1</sup> Source: State of Hawaii Department of Transportation (2016 count)	

For "Site Representativeness" in the following table:

- <sup>1</sup>Site Types:
- 1) located to determine the highest concentrations;
  - 2) located to measure typical concentrations in areas of high population density;
  - 3) located to determine the impact of significant sources or source categories on air quality;
  - 4) located to determine general background concentration levels;
  - 5) located to determine extent of regional pollutant transport among populated areas and in support of secondary standards;
  - 6) located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

- <sup>2</sup> Purposes:
- 1) Provide air pollution data to the general public in a timely manner;
  - 2) Support compliance with ambient air quality standards;
  - 3) Support emissions strategy development and track trends in air pollution abatement control measures;
  - 4) Support for air pollution research

**(WL) Waikoloa continued**

<b>WL MONITOR INFORMATION (N/A = Not Applicable)</b>			
	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	
POC/FRM or FEM	1/FEM	1/FEM	
Type of monitor	SPMS	SPMS	
AQS parameter code	88101	42401	
Manufacturer	Met One	TECO	
Model no.	BAM1022	43iQ	
AQS method code	209	060	
Monitoring start date	7/28/2021	12/8/2022	
Monitoring frequency	Continuous	Continuous	
Probe material	N/A	Teflon	
Residence time (sec)	N/A	11.7	
Distance between collocated monitors	N/A	N/A	
Analytical laboratory	N/A	N/A	
Location of probe	stand-alone shelter on ground	shelter roof	
Shelter dimensions (H x W x D) (m)	N/A	2.7 x 2.0 x 3.7	
Horizontal distance from supporting structure (m)	N/A	N/A	
Vertical distance above supporting structure (m)	N/A	1	
Height of probe above ground (m)	2.2	4	
Distance (m) & direction from drip line of tree(s)	11.5 E	14.5 SE	
Horizontal distance from edge of nearest traffic lane (m)	2,283	2,283	
Horizontal distance from nearest parking lot (m)	2590	2590	
Distance (m) & direction from obstructions on roof, vertical height above probe (m)	N/A	N/A	
Distance (m) & direction from possible obstructions not on roof, vertical height (m)	3 NE / 0.5	N/A	
Distance (m) & direction from furnace or incineration flues	N/A	N/A	
Unrestricted airflow	360°	360°	
Located in paved (P) or vegetative (V) ground?	gravel	gravel	
<b>SITE REPRESENTATIVENESS</b>			
Spatial scale	Neighborhood	Neighborhood	
Applicable NAAQS averaging time(s)	24-hr, annual	1-hr, annual	
Sampling season	12 months	12 months	
Site type <sup>1</sup>	3	3	
Purpose of monitor <sup>2</sup>	1, 2, 4	1, 2, 4	
Suitable for comparison against the annual PM <sub>2.5</sub> NAAQS?	No	N/A	
<b>DATA QUALITY</b>			
Last PEP	N/A	N/A	
Last NPAP	N/A	None - new	
Date of last annual independent performance audit (CAB)	N/A	9/16/25	
Frequency of flow rate verification (automated PM)	Monthly	N/A	
Frequency of flow rate verification (manual PM <sub>2.5</sub> )	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (PM)	5/29/25, 11/20/25	N/A	
Frequency of 1-point flow rate verification (Pb)	N/A	N/A	
Dates of last 2 semi-annual flow rate audits (Pb)	N/A	N/A	
Precision & accuracy submitted to AQS	Quarterly	Quarterly	
Frequency of 1-pt. QC check (gases)	N/A	Weekly	
Frequency of multi-point gas calibration	N/A	6 months	
Annual data certification submitted	4/14/26	4/14/26	
Changes in the next 18 months?	None	Replace Shelter	

## Appendix A

### Public Notice Documentation

The 2025 Air Monitoring Network Plan, based on 40 CFR 58.10, documents, and describes the establishment and maintenance of Hawaii's ambient air monitoring network. This document was made available for public viewing on the Clean Air Branch website and at the following Department of Health locations:

- Clean Air Branch, 2827 Waimano Home Road, Room 130, Pearl City, Oahu
- Kauai District Health Office, 3040 Umi Street, Lihue, Kauai
- Maui District Health Office, 54 High Street, Room 300, Wailuku, Maui
- Hawaii District Health Office, 1582 Kamehameha Avenue, Hilo, Hawaii
- Clean Air Branch-Kona, Keakealani Building, 79-1020 Haukapila Street, Room 115, Kealahou, Hawaii

Public notification of the availability of the Plan for public inspection was published in the major newspapers on all counties. The public comment period was for 30 days from May 21, 2026, to June 20, 2026.

The public notice was published in the following newspapers for the following counties:

- Kauai County: The Garden Island
- City and County of Honolulu: The Star Advertiser
- Maui County: The Maui News
- Hawaii County: West Hawaii Today and Hawaii Tribune Herald

Documentations of the public notice are attached.

Comments received will be addressed and included in this plan.

## Appendix B

### Request to Close the Honolulu (DH) SLAMS Air Monitoring Station (150031001)

The State of Hawaii is requesting EPA approval to permanently discontinue the Honolulu (DH) ambient air monitoring station (150031001). The station was initially established to measure neighborhood concentrations of PM<sub>10</sub>, PM<sub>2.5</sub> and SO<sub>2</sub>, and middle/max scale for CO, in a commercial and residential area and has been in operation since 1994. This station is located on the roof of a state-owned building scheduled to undergo extensive renovations and will need to be shut down to accommodate the planned work.

PM<sub>10</sub> data for 2025 showed the Honolulu MSA to be a low concentration area and is required to have one to two PM<sub>10</sub> monitors. With this station's closure, there will be one PM<sub>10</sub> station remaining in the Honolulu MSA, which meets the minimum PM<sub>10</sub> monitoring requirements.

For PM<sub>2.5</sub> the most recent 3-year design values in the Honolulu MSA were less than 85% of any PM<sub>2.5</sub> NAAQS. The state currently operates three PM<sub>2.5</sub> monitors in the MSA, which meets the minimum requirement of one monitor for the Honolulu MSA.

According to 40 CFR 58.14, the state may request for discontinuance of a SLAMS station if any of the stated criteria are met and if requirements of Appendix D to Part 58 continues to be met. The PC station meets the following requirement for shutdown:

Any criteria SLAMS monitor which has been in attainment during the previous five years, has a probability of less than 10 percent of exceeding 80 percent of the applicable NAAQS during the next three years, and which is not specifically required by an attainment or maintenance plan.

### II. Data in Support of Discontinuing the DH Station

To comply with the removal requirements based on past and future expected attainment for all applicable NAAQS, the following tests must be met:

- 1) The PM<sub>10</sub> and PM<sub>2.5</sub> monitors are currently in attainment and have been in attainment during the previous five years;
- 2) The probability is less than 10% that the monitors will exceed 80% of the applicable NAAQS during the next three years based on past concentrations, trends, and variability;
- 3) The monitors are not required by an attainment or maintenance plan; and
- 4) The monitors are not the last monitors in a nonattainment or maintenance area plan.

The State of Hawaii is in attainment for all NAAQS and therefore, DH is not specifically required for any attainment, non-attainment, or maintenance plan.

The following data is presented in support of station shutdown based on past compliance with, and the expectation that the monitors will not exceed all applicable NAAQS in the future.

**Table AB-1. 2021-2025 Attainment of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, and CO NAAQS at DH**

Pollutant Standard	2021		2022		2023		2024		2025	
	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max
PM <sub>10</sub> 24-hr Ave. (<150 µg/m <sup>3</sup> )	26	25	25	23	33	28	41	30	24	24
PM <sub>2.5</sub> 24-hr Ave. (<35 µg/m <sup>3</sup> )	8	8	12	10	22	13	27	10	12	10
PM <sub>2.5</sub> Annual Ave. (<9 µg/m <sup>3</sup> )	3.0		3.3		4.1		4.1		4.1	
SO <sub>2</sub> 1-hr Ave. (<75 ppb)	2	2	3	2	5	3	4	3	15	10
SO <sub>2</sub> Annual Ave. (<10 ppb)	0.2		0.3		1.2		1.6		1.3	
CO 1-hr Ave. (<35 ppm)	0.9	0.9	1.1	1.1	0.7	0.6	6.8	0.7	0.8	0.7
CO 8-hr Ave. (<9 ppm)	0.7	0.7	0.7	0.7	0.4	0.4	1.0	0.4	0.5	0.5

To demonstrate a less than 10% probability that the monitors would exceed 80% of the applicable NAAQS, the following equation<sup>a</sup> was applied:

$$\bar{X} + \frac{t^*s}{\sqrt{n}} < 0.8 * NAAQS$$

Where:  $\bar{X}$  = the average design value for the last 5 years  
*t* = student's *t* value for *n*-1 degrees of freedom at the 90% confidence level  
*s* = standard deviation of the design values  
*n* = number of records  
 NAAQS = applicable standard

<sup>a</sup> Equation used is from the EPA-454/D-07-001 document titled "Ambient Air Monitoring Network Assessment Guidance"

**Table AB-2. Applicable NAAQS**

Pollutant	Form of NAAQS	NAAQS	80% of NAAQS
PM <sub>10</sub>	24-hour	150 µg/m <sup>3</sup>	<b>120 µg/m<sup>3</sup></b>
PM <sub>2.5</sub>	24-hour	35 µg/m <sup>3</sup>	<b>28 µg/m<sup>3</sup></b>
	Annual average	9 µg/m <sup>3</sup>	<b>7.2 µg/m<sup>3</sup></b>
SO <sub>2</sub>	1-hour	75 ppb	<b>60 ppb</b>
	Annual Average	10 ppb	<b>8 ppb</b>
CO	1-hour	35 ppm	<b>28 ppm</b>
	8-hour	9 ppm	<b>7.2 ppm</b>

Conservatively using the 2021 to 2025 maximum values, design concentrations or design values for all applicable NAAQS from Table AB-1, the probability that any monitor would exceed 80% of the NAAQS was computed.

**Table AB-3. Probability Computations for Applicable NAAQS at DH**

Pollutant & Averaging Time	Average ( $\bar{X}$ ) 2021-2025	Standard Deviation (s)	Student's t value (t)	No. of values (n)	90% upper confidence interval	Is the result <80% of NAAQS?
<b>PM<sub>10</sub></b> 24-hour <sup>1</sup>	30 µg/m <sup>3</sup>	7.2	2.13	5	<b>36.6</b>	<b>Yes &lt;120 µg/m<sup>3</sup></b>
	24-hour <sup>2</sup>	12 µg/m <sup>3</sup>	0.8	2.13	5	<b>12.3</b>
<b>PM<sub>2.5</sub></b> 24-hour <sup>3</sup>	7.2 µg/m <sup>3</sup>	0.8	2.13	5	<b>8.0</b>	<b>Yes &lt;28 µg/m<sup>3</sup></b>
	Annual <sup>3</sup>	3.6 µg/m <sup>3</sup>	0.4	2.13	5	<b>4.0</b>
<b>SO<sub>2</sub></b> 1-hour <sup>3</sup>	2.4 ppb	1.14	2.13	5	<b>3.5</b>	<b>Yes &lt;60 ppb</b>
	Annual <sup>3</sup>	0.6 ppb	0.55	2.13	5	<b>1.1</b>
<b>CO</b> 1-hour <sup>1</sup>	2.1 ppm	2.65	2.13	5	<b>4.6</b>	<b>Yes &lt;28 ppm</b>
	8-hour <sup>1</sup>	0.7 ppm	0.23	2.13	5	<b>0.9</b>

- 1 Max value
- 2 Design concentration
- 3 Design value

### III. Continued Compliance with 40 CFR Part 58 Appendix D

Closing the DH air monitoring station will not affect compliance with the requirements of 40 CFR Part 58 Appendix D, “Network Design Criteria for Ambient Air Quality Monitoring.”

#### **PM<sub>10</sub> Design Criteria**

One to two PM<sub>10</sub> sites are required for a low concentration area with a population range of 500,000 to 1,000,000. The 2025 estimated census population for the Honolulu MSA was 988,703. With the closure of DH, one PM<sub>10</sub> site remains in the Honolulu MSA, and the network would continue to meet PM<sub>10</sub> design criteria.

#### **PM<sub>2.5</sub> Design Criteria**

One PM<sub>2.5</sub> site is required for a low concentration area with a population range of 500,000 to 1,000,000. The 2025 census population for the Honolulu MSA was 988,703. With the closure of DH, two PM<sub>2.5</sub> sites remain in the Honolulu MSA, and the network would continue to meet PM<sub>2.5</sub> design criteria.

#### **SO<sub>2</sub> Design Criteria**

The PWEI for a CBSA that is ≥ 5,000 but < 100,000, requires a minimum of one SO<sub>2</sub> monitor. The latest PWEI for the Honolulu MSA was 11,190, based on the 2025 estimated population and the 2020 national emissions inventory. With the closure of DH, one SO<sub>2</sub> site remains in the Honolulu MSA, and the network would continue to meet SO<sub>2</sub> design criteria.

#### **CO Design Criteria**

One collocated CO monitor at near-road NO<sub>2</sub> site is required in CBSA with populations ≥1,000,000. The Honolulu MSA had a 2025 census population estimated at 988,703. With the closure of DH, one CO site remains in the Honolulu MSA, and the network would continue to meet CO design criteria.

#### **IV. Summary**

Based on attainment with all applicable NAAQS in the past five or more years, a less than 10% probability of exceeding 80% of the NAAQS in the future, and continued compliance with network design criteria, closing the DH air monitoring station would meet the SLAMS discontinuance requirements of 40 CFR Part 58.

## Appendix C

### **Request to Close the Kailua-Kona (KK) SPMS Air Monitoring Station (150013034)**

The State of Hawaii is requesting EPA approval to permanently shut down the Kailua-Kona (KK) ambient air monitoring station (150013034). The station was initially established to monitor the effects of volcanic emissions and has been operating since November 21, 2018 monitoring exclusively for PM<sub>2.5</sub>. To deal with difficulties maintaining adequate staffing and manpower, and the ever increasing cost required to maintain FEM samplers, DOH plans to shut down this station prior to December 31, 2026. A low cost sensor will be installed at this location to continue providing the community with near real time air monitoring.

Hawaii Island is not a part of a MSA and therefore is not required to have any PM<sub>2.5</sub> monitors. The KK station is not located in an MSA and the PM<sub>2.5</sub> concentrations at this station have historically been low. Closing the KK air monitoring station will not affect compliance with the requirements of 40 CFR Part 58 Appendix D, "Network Design Criteria for Ambient Air Quality Monitoring", as the number of PM<sub>2.5</sub> monitors in the network will remain above the minimum requirement.

The KK station meets the requirements of 40 CFR 58.14(b) for discontinuation. DOH is requesting approval from EPA to permanently shut down this station.

According to 40 CFR 58.14, the state may request for discontinuance of a SLAMS station if any of the stated criteria are met and if requirements of Appendix D to Part 58 continue to be met. The PM<sub>2.5</sub> monitor at the KK station became suitable for NAAQS comparison beginning November 12, 2024, when it was moved a few feet further from the county water tank for proper siting, and meets the following requirement for the shutdown of a SLAMS monitor:

Any criteria SLAMS monitor which has been in attainment during the previous five years, has a probability of less than 10 percent of exceeding 80 percent of the applicable NAAQS during the next three years, and which is not specifically required by an attainment or maintenance plan.

### **II. Data in Support of Discontinuing PM<sub>2.5</sub> Parameter at the KK Station**

To comply with the removal requirements based on past and future expected attainment for all applicable NAAQS, the following tests must be met:

- 1) The PM<sub>2.5</sub> monitor is currently in attainment and has been in attainment during the previous five years;
- 2) The probability is less than 10% that the monitors will exceed 80% of the applicable NAAQS during the next three years based on past concentrations, trends, and variability;
- 3) The monitor is not required by an attainment or maintenance plan; and
- 4) The monitor is not the last monitor in a nonattainment or maintenance area plan.

The State of Hawaii is in attainment for all NAAQS and therefore, KK is not specifically required for any attainment, non-attainment, or maintenance plan.

The following data is presented in support of station shutdown based on past compliance with, and the expectation that the monitor would not exceed, all applicable NAAQS in the future.

**Table AC-1. 2021-2025 Attainment of PM<sub>2.5</sub> NAAQS at KK**

Pollutant Standard	2021		2022		2023		2024 <sup>1</sup>		2025	
	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max
PM <sub>2.5</sub> 24-hr Ave. (<35 µg/m <sup>3</sup> )	16	15	12	11	18	17	21	20	19	19
PM <sub>2.5</sub> Annual Ave. (<9 µg/m <sup>3</sup> )	4.7		5.3		3.4		2.9		5.3	

<sup>1</sup> The sampler was moved a few feet further from the county water tank on November 12, 2024, to meet proper siting requirements.

To demonstrate a less than 10% probability that the monitor would exceed 80% of the applicable NAAQS, the following equation<sup>a</sup> was applied:

$$\bar{X} + \frac{t * s}{\sqrt{n}} < 0.8 * NAAQS$$

Where:  $\bar{X}$  = the average design value for the last 5 years  
*t* = student's *t* value for *n*-1 degrees of freedom at the 90% confidence level  
*s* = standard deviation of the design values  
*n* = number of records  
 NAAQS = applicable standard

<sup>a</sup> Equation used is from the EPA-454/D-07-001 document titled "Ambient Air Monitoring Network Assessment Guidance"

**Table AC-2. Applicable NAAQS**

Pollutant	Form of NAAQS	NAAQS	80% of NAAQS
PM <sub>2.5</sub>	24-hour	35 µg/m <sup>3</sup>	<b>28 µg/m<sup>3</sup></b>
	Annual average	9 µg/m <sup>3</sup>	<b>7.2 µg/m<sup>3</sup></b>

Conservatively using the 2021 to 2025 maximum values or design concentrations for all applicable NAAQS from Table AC-1, the probability that any monitor would exceed 80% of the NAAQS was computed.

**Table AC-3. Probability Computations for Applicable NAAQS at KK**

Pollutant & Averaging Time	Average ( $\bar{X}$ ) 2021-2025	Standard Deviation ( <i>s</i> )	Student's <i>t</i> value ( <i>t</i> )	No. of values ( <i>n</i> )	90% upper confidence interval	Is the result <80% of NAAQS?
PM <sub>2.5</sub> 24-hour <sup>1</sup>	11.0 µg/m <sup>3</sup>	0.71	2.13	5	<b>11.7</b>	<b>Yes &lt;28 µg/m<sup>3</sup></b>
Annual <sup>1</sup>	4.3 µg/m <sup>3</sup>	0.54	2.13	5	<b>4.9</b>	<b>Yes &lt;7.2 µg/m<sup>3</sup></b>

<sup>1</sup> Design value

### **III. Continued Compliance with 40 CFR Part 58 Appendix D**

Discontinuing the PM<sub>2.5</sub> parameter at the KK air monitoring station will not affect compliance with the requirements of 40 CFR Part 58 Appendix D, “Network Design Criteria for Ambient Air Quality Monitoring.”

#### **PM<sub>2.5</sub> Design Criteria**

Hawaii Island is not a part of an MSA and therefore no PM<sub>2.5</sub> monitor is required. With the discontinuation of PM<sub>2.5</sub> parameter at KK, the network would continue to meet PM<sub>2.5</sub> design criteria.

### **IV. Summary**

Based on attainment with all applicable NAAQS in the past five or more years, a less than 10% probability of exceeding 80% of the NAAQS in the future, and continued compliance with network design criteria, closing the DH air monitoring station would meet the SLAMS discontinuance requirements of 40 CFR Part 58.

## Appendix D

### **Request to Discontinue PM<sub>2.5</sub> Parameter at the Mountain View (MV) SPMS Air Monitoring Station (150012023)**

The State of Hawaii is requesting EPA approval to permanently discontinue the PM<sub>2.5</sub> monitor operating at the Mountain View (MV) ambient air monitoring station (150013023). The station was established in 2007 to monitor volcanic emissions from the nearby Kilauea volcano during non-trade wind days and was initially located approximately 1.8 miles to the northeast from its current location at Mountain View Elementary School, where collection of PM<sub>2.5</sub> data began in December 2010.

The MV station is designated an SPMS and has been operating for more than two years but the data remains unusable for NAAQS comparison due to not meeting the siting criteria as provided in Section 2.4 of Appendix E to 40 CFR Part 58. Since the monitor cannot meet the siting criteria, a decision was made to discontinue the PM<sub>2.5</sub> monitor at the station. The state will look to place a low cost sensor at the station instead. The PM<sub>2.5</sub> concentrations at this station have historically been low.

Hawaii Island is not a part of a Metropolitan Statistical Area and therefore is not required to have any PM<sub>2.5</sub> monitors. Discontinuing the PM<sub>2.5</sub> monitor at MV air monitoring station will not affect compliance with the requirements of 40 CFR Part 58 Appendix D, "Network Design Criteria for Ambient Air Quality Monitoring", as the number of PM<sub>2.5</sub> monitors in the network will remain above the minimum requirement.

The MV station meets the requirements of 40 CFR 58.14(b) for discontinuation. DOH is requesting approval from EPA to permanently shut down the PM<sub>2.5</sub> parameter at this station.

According to 40 CFR 58.14, the state may request for discontinuance of a SLAMS station if any of the stated criteria are met and if requirements of Appendix D to Part 58 continue to be met. Although the PM<sub>2.5</sub> monitor at the MV station remains unsuitable for NAAQS comparison, the monitor does meet the following requirement for the shutdown of a SLAMS monitor:

Any criteria SLAMS monitor which has been in attainment during the previous five years, has a probability of less than 10 percent of exceeding 80 percent of the applicable NAAQS during the next three years, and which is not specifically required by an attainment or maintenance plan.

#### **II. Data in Support of Discontinuing PM<sub>2.5</sub> Parameters at the MV Station**

To comply with the removal requirements based on past and future expected attainment for all applicable NAAQS, the following tests must be met:

- 1) The PM<sub>2.5</sub> monitor is currently in attainment and has been in attainment during the previous five years;

- 2) The probability is less than 10% that the monitor will exceed 80% of the applicable NAAQS during the next three years based on past concentrations, trends, and variability;
- 3) The monitor is not required by an attainment or maintenance plan; and
- 4) The monitor is not the last monitor in a nonattainment or maintenance area plan.

The State of Hawaii is in attainment for all NAAQS and therefore, MV is not specifically required for any attainment, non-attainment, or maintenance plan.

The following data is presented in support of monitor shutdown based on past compliance with, and the expectation that the monitor would not exceed, all applicable NAAQS in the future.

**Table AD-1. 2021-2025 Attainment of PM<sub>2.5</sub> NAAQS at MV**

Pollutant Standard	2021		2022		2023		2024		2025	
	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max
PM <sub>2.5</sub> 24-hr Ave. (<35 µg/m <sup>3</sup> )	9	6	20	10	20	8	10	6	20	10
PM <sub>2.5</sub> Annual Ave. (<9 µg/m <sup>3</sup> )	1.7		2.4		2.1		2.1		2.7	

To demonstrate a less than 10% probability that the monitors would exceed 80% of the applicable NAAQS, the following equation<sup>a</sup> was applied:

$$\bar{X} + \frac{t * s}{\sqrt{n}} < 0.8 * NAAQS$$

Where:  $\bar{X}$  = the average design value for the last 5 years  
*t* = student's *t* value for *n*-1 degrees of freedom at the 90% confidence level  
*s* = standard deviation of the design values  
*n* = number of records  
 NAAQS = applicable standard

<sup>a</sup> Equation used is from the EPA-454/D-07-001 document titled "Ambient Air Monitoring Network Assessment Guidance"

**Table AD-2. Applicable NAAQS**

Pollutant	Form of NAAQS	NAAQS	80% of NAAQS
PM <sub>2.5</sub>	24-hour	35 µg/m <sup>3</sup>	<b>28 µg/m<sup>3</sup></b>
	Annual average	9 µg/m <sup>3</sup>	<b>7.2 µg/m<sup>3</sup></b>

Conservatively using the 2021 to 2025 maximum values or design concentrations for all applicable NAAQS from Table AD-1, the probability that any monitor would exceed 80% of the NAAQS was computed.

**Table AD-3. Probability Computations for Applicable NAAQS at MV**

Pollutant & Averaging Time	Average ( $\bar{X}$ ) 2021-2025	Standard Deviation (s)	Student's t value (t)	No. of values (n)	90% upper confidence interval	Is the result <80% of NAAQS?
<b>PM<sub>2.5</sub></b> 24-hour <sup>1</sup>	5.6 µg/m <sup>3</sup>	0.55	2.13	5	<b>6.1</b>	<b>Yes &lt;28 µg/m<sup>3</sup></b>
Annual <sup>1</sup>	2.1 µg/m <sup>3</sup>	0.19	2.13	5	<b>2.3</b>	<b>Yes &lt;7.2 µg/m<sup>3</sup></b>

<sup>1</sup> Design value

### III. Continued Compliance with 40 CFR Part 58 Appendix D

Discontinuing the PM<sub>2.5</sub> parameter at the MV air monitoring station will not affect compliance with the requirements of 40 CFR Part 58 Appendix D, “Network Design Criteria for Ambient Air Quality Monitoring.”

#### **PM<sub>2.5</sub> Design Criteria**

Hawaii Island is not a part of an MSA and therefore no PM<sub>2.5</sub> monitor is required. With the discontinuation of PM<sub>2.5</sub> parameter at MV, the network would continue to meet PM<sub>2.5</sub> design criteria.

### IV. Summary

Based on attainment with all applicable NAAQS in the past five or more years, a less than 10% probability of exceeding 80% of the NAAQS in the future, and continued compliance with network design criteria, closing the DH air monitoring station would meet the SLAMS discontinuance requirements of 40 CFR Part 58.

## Appendix E

### **Request to Discontinue PM<sub>2.5</sub> Parameter at the Naalehu (NA) SPMS Air Monitoring Station (150013033)**

The State of Hawaii is requesting EPA approval to permanently discontinue the PM<sub>2.5</sub> monitor operating at the Naalehu (NA) ambient air monitoring station (150013033). The PM<sub>2.5</sub> monitor began operating at the station on December 5, 2022 to provide supplemental air quality monitoring on the south side of Hawaii Island to monitor volcanic emissions from Kilauea volcano.

The NA station is designated an SPMS and has been operated for more than two years but the data remains unusable for NAAQS comparison due to not meeting the siting criteria as provided in Section 2.4 of Appendix E to 40 CFR Part 58. The PM<sub>2.5</sub> concentrations at this station have historically been low, and since the monitor cannot meet the siting criteria, a decision was made to discontinue the PM<sub>2.5</sub> monitor at the station. The state will look to place a low cost sensor there instead.

Hawaii Island is not a part of a Metropolitan Statistical Area and therefore is not required to have any PM<sub>2.5</sub> monitors. Discontinuing the PM<sub>2.5</sub> monitor at NA air monitoring station will not affect compliance with the requirements of 40 CFR Part 58 Appendix D, "Network Design Criteria for Ambient Air Quality Monitoring", as the number of PM<sub>2.5</sub> monitors in the network will remain above the minimum requirement.

The NA station meets the requirements of 40 CFR 58.14(b) for discontinuation. DOH is requesting approval from EPA to permanently shut down the PM<sub>2.5</sub> parameter at this station.

According to 40 CFR 58.14, the state may request for discontinuance of a SLAMS station if any of the stated criteria are met and if requirements of Appendix D to Part 58 continue to be met. Although the PM<sub>2.5</sub> monitor at the NA station remains unsuitable for NAAQS comparison, the monitor does meet the following requirement for the shutdown of a SLAMS monitor:

Any criteria SLAMS monitor which has been in attainment during the previous five years, has a probability of less than 10 percent of exceeding 80 percent of the applicable NAAQS during the next three years, and which is not specifically required by an attainment or maintenance plan.

#### **II. Data in Support of Discontinuing PM<sub>2.5</sub> Parameters at the NA Station**

To comply with the removal requirements based on past and future expected attainment for all applicable NAAQS, the following tests must be met:

- 1) The PM<sub>2.5</sub> monitor is currently in attainment and has been in attainment during the previous five years;
- 2) The probability is less than 10% that the monitor will exceed 80% of the applicable NAAQS during the next three years based on past concentrations, trends, and variability;

- 3) The monitor is not required by an attainment or maintenance plan; and
- 4) The monitor is not the last monitor in a nonattainment or maintenance area plan.

The State of Hawaii is in attainment for all NAAQS and therefore, NA is not specifically required for any attainment, non-attainment, or maintenance plan.

The following data is presented in support of monitor shutdown based on past compliance with, and the expectation that the monitor would not exceed, all applicable NAAQS in the future.

**Table AE-1. 2021-2025 Attainment of PM<sub>2.5</sub> NAAQS at NA**

Pollutant Standard	2021		2022 <sup>1</sup>		2023		2024		2025	
	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max	Max	2 <sup>nd</sup> Max
PM <sub>2.5</sub> 24-hr Ave. (<35 µg/m <sup>3</sup> )	N/A	N/A	6	5	11	10	8	8	11	9
PM <sub>2.5</sub> Annual Ave. (<9 µg/m <sup>3</sup> )	N/A		3.3		3.0		2.9		3.4	

<sup>1</sup> Sampler began operating on December 2, 2022.

To demonstrate a less than 10% probability that the monitors would exceed 80% of the applicable NAAQS, the following equation<sup>a</sup> was applied:

$$\bar{X} + \frac{t^*s}{\sqrt{n}} < 0.8 * NAAQS$$

Where:  $\bar{X}$  = the average design value for the last 5 years  
*t* = student's *t* value for *n*-1 degrees of freedom at the 90% confidence level  
*s* = standard deviation of the design values  
*n* = number of records  
 NAAQS = applicable standard

<sup>a</sup> Equation used is from the EPA-454/D-07-001 document titled "Ambient Air Monitoring Network Assessment Guidance"

**Table AE-2. Applicable NAAQS**

Pollutant	Form of NAAQS	NAAQS	80% of NAAQS
PM <sub>2.5</sub>	24-hour	35 µg/m <sup>3</sup>	<b>28 µg/m<sup>3</sup></b>
	Annual average	9 µg/m <sup>3</sup>	<b>7.2 µg/m<sup>3</sup></b>

Conservatively using the 2021 to 2025 maximum values or design concentrations for all applicable NAAQS from Table AE-1, the probability that any monitor would exceed 80% of the NAAQS was computed.

**Table AE-3. Probability Computations for Applicable NAAQS at NA**

Pollutant & Averaging Time	Average ( $\bar{X}$ ) 2022-2025	Standard Deviation ( <i>s</i> )	Student's <i>t</i> value ( <i>t</i> )	No. of values ( <i>n</i> )	90% upper confidence interval	Is the result <80% of NAAQS?
PM <sub>2.5</sub> 24-hour <sup>1</sup>	6 µg/m <sup>3</sup>	1.21	2.35	4	<b>6.0</b>	<b>Yes &lt;28 µg/m<sup>3</sup></b>
Annual <sup>1</sup>	2.2 µg/m <sup>3</sup>	0.37	2.35	4	<b>3.3</b>	<b>Yes &lt;7.2 µg/m<sup>3</sup></b>

<sup>1</sup> Average based on design value using partial year data in 2022, the sampler began operating on December 2, 2022.

### **III. Continued Compliance with 40 CFR Part 58 Appendix D**

Discontinuing the PM<sub>2.5</sub> parameter at the NA air monitoring station will not affect compliance with the requirements of 40 CFR Part 58 Appendix D, “Network Design Criteria for Ambient Air Quality Monitoring.”

#### **PM<sub>2.5</sub> Design Criteria**

Hawaii Island is not a part of an MSA and therefore no PM<sub>2.5</sub> monitor is required. With the discontinuation of PM<sub>2.5</sub> parameter at NA, the network would continue to meet PM<sub>2.5</sub> design criteria.

### **IV. Summary**

Based on attainment with all applicable NAAQS in the past five or more years, a less than 10% probability of exceeding 80% of the NAAQS in the future, and continued compliance with network design criteria, closing the DH air monitoring station would meet the SLAMS discontinuance requirements of 40 CFR Part 58.

## Appendix F

**EPA Closure Approval Letters for Pearl City PM<sub>10</sub> and PM<sub>2.5</sub> (150032004),  
Niumalu PM<sub>2.5</sub> and NO<sub>2</sub> (15007007), Kapolei CO and SO<sub>2</sub> (150030010), and  
Honaunau PM<sub>2.5</sub> (150013032)**

## B. Approval of Discontinuation of Pearl City PM<sub>10</sub> and PM<sub>2.5</sub> monitors.

This enclosure provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Hawaii Department of Health (HDOH) discontinuation of the PM<sub>10</sub> and PM<sub>2.5</sub> State/Local Air Monitoring Station (SLAMS) monitors at the Pearl City (Air Quality System (AQS) Site ID: 15-003-2004) monitoring site. In the 2025 Annual Monitoring Network Plan submitted to EPA, HDOH included a request for EPA approval of this network change. The closure date for both monitors at Pearl City was April 6, 2022 due to resource constraints on their monitoring program and the desire to divert existing resources to more critical monitoring activities. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors.

Discontinuation of these SLAMS monitors were reviewed by EPA against criteria contained in 40 CFR 58.14(c)(1). Based on the request and data associated with these monitors EPA has concluded that the criteria contained in 40 CFR 58.14(c)(1) are met for the Pearl City PM<sub>10</sub> and PM<sub>2.5</sub> monitors as described below; EPA therefore approves discontinuation of these SLAMS monitors.

The Pearl City PM<sub>10</sub> monitoring site was in attainment of the 1987 24-hour PM<sub>10</sub> National Ambient Air Quality Standards (NAAQS) based on the five most recent design values (design values 2017-2021, encompassing data years 2015-2021). Based on these design values, EPA has determined that there is a less than 10 percent probability of exceeding 80 percent of the PM<sub>10</sub> NAAQS during the next three years at this site. Partial 2022 data did not record any exceedances. The EPA also reviewed the data certification for this site and found that the data were not certified by the agency in AQS with a "Y" flag for 2015–2019, but this does not preclude the EPA from acting on this system modification, and HDOH submitted data certification letters to EPA for each year of data included in this review. This monitoring site is not specifically required by an attainment or maintenance plan and is not located in a nonattainment or maintenance area. HDOH currently operates two other PM<sub>10</sub> SLAMS monitors in the Honolulu Metropolitan Statistical Area (MSA), , meeting 40 CFR part 58, Appendix D minimum monitoring requirements for the area. Therefore, the closure of the Pearl City PM<sub>10</sub> monitoring site will not prevent HDOH from meeting 40 CFR part 58, Appendix D requirements.

The Pearl City PM<sub>2.5</sub> monitoring site was in attainment of the 2006 24-hour PM<sub>2.5</sub> NAAQS and the 2024 annual PM<sub>2.5</sub> NAAQS based on the five most recent design values (design values 2017-2021, encompassing data years 2015-2021). Based on these design values, EPA has determined that there is a less than 10 percent probability of exceeding 80 percent of the 24-hour or annual PM<sub>2.5</sub> NAAQS during the next three years at this site. Partial 2022 data did not record any exceedances. The EPA also reviewed the data certification for this site and found that the data was not certified by the agency in AQS with a "Y" flag for 2015–2020, but this does not preclude

the EPA from acting on this system modification, and HDOH submitted data certification letters to EPA for each year of data included in this review. This monitoring site is not specifically required by an attainment or maintenance plan and is not located in a nonattainment or maintenance area. HDOH currently operates two other PM<sub>2.5</sub> SLAMS monitors in the Honolulu MSA, exceeding 40 CFR part 58 Appendix D minimum monitoring requirements for the area. This site is not needed to fulfill 40 CFR part 58, Appendix D MSA requirements for the maximum PM<sub>2.5</sub> concentration site, near-road site, additional monitoring site in an area of poor air quality, or for meeting the minimum number of continuous PM<sub>2.5</sub> monitors. Also, this site is not needed to fulfill 40 CFR part 58, Appendix D requirements for PM<sub>2.5</sub> background or transport sites, or PM<sub>2.5</sub> chemical speciation sites within the State. Therefore, the closure of the Pearl City PM<sub>2.5</sub> monitoring site will not prevent HDOH from meeting 40 CFR part 58, Appendix D requirements.

Based on these analyses, EPA approves HDOH's discontinuation of the Pearl City PM<sub>10</sub> and PM<sub>2.5</sub> SLAMS monitors. Please include this enclosure and the relevant monitor and site information in next year's annual monitoring network plan.

### C. Approval of Discontinuation of Niumalu PM<sub>2.5</sub> and NO<sub>2</sub> monitors.

This enclosure provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Hawaii Department of Health (HDOH) discontinuation of the PM<sub>2.5</sub> and NO<sub>2</sub> Special Purpose Monitors (SPM) monitors at the Niumalu (Air Quality System (AQS) Site ID: 15-007-0007) monitoring site. In the 2025 Annual Monitoring Network Plan submitted to EPA, HDOH included a request for EPA approval of this network change. The closure date for both monitors at Niumalu was March 31, 2022 due to resource constraints on their monitoring program and the desire to divert existing resources to more critical monitoring activities. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors. While the PM<sub>2.5</sub> and NO<sub>2</sub> monitors at the Niumalu site are listed as SPMs (and not SLAMS) in AQS, they have been operating for over 24 months with the monitoring objective of National Ambient Air Quality Standards (NAAQS) compliance. Therefore, the discontinuation of these SPM monitors at Niumalu were reviewed according to these provisions.

Discontinuation of the SPM monitors were reviewed by EPA against criteria contained in 40 CFR 58.14(c)(1) and 40 CFR 58.14(c) which states that requests for discontinuation "may also be approved on a case-by-case basis if discontinuance does not compromise data collection needed for implementation of a NAAQS and if the requirements of appendix D to this part, if any, continue to be met." EPA has reviewed HDOH's request and data associated with these monitors and concluded that the criteria contained in 40 CFR 58.14(c)(1) are met for the Niumalu PM<sub>2.5</sub> monitor and that the criteria in 40 CFR 58.14(c) are met for the NO<sub>2</sub> monitor as described below; EPA therefore approves discontinuation of these SPM monitors.

The Niumalu PM<sub>2.5</sub> monitoring site was in attainment of the 2006 24-hour PM<sub>2.5</sub> NAAQS and 2024 annual PM<sub>2.5</sub> NAAQS based on the five most recent design values (design values 2017-2021, encompassing data years 2015-2021). Based on these design values, EPA has determined that there is a less than 10 percent probability of exceeding 80 percent of the NAAQS during the next three years at this site. Partial 2022 data did not record any exceedances. The EPA also reviewed the data certification for this site and found that the data was not certified by the agency in AQS with a "Y" flag for 2015–2019, but this does not preclude the EPA from acting on this system modification, and HDOH submitted data certification letters to EPA for each year of data included in this review. This monitoring site is not specifically required by an attainment or maintenance plan and is not located in a nonattainment or maintenance area. The Niumalu PM<sub>2.5</sub> site was not located in an MSA, therefore this site is not needed to fulfill 40 CFR part 58, Appendix D PM<sub>2.5</sub> minimum monitoring requirements. This site is also not needed to fulfill 40 CFR part 58, Appendix D MSA requirements for the maximum PM<sub>2.5</sub> concentration site, near-road site, additional monitoring site in an area of poor air quality, or for meeting the minimum number of continuous PM<sub>2.5</sub> monitors. Also, this site is not needed to fulfill 40 CFR part 58, Appendix D requirements for PM<sub>2.5</sub> background or transport sites, or PM<sub>2.5</sub> chemical speciation

sites within the State. Therefore, the closure of the Niumalu PM<sub>2.5</sub> monitoring site will not prevent HDOH from meeting 40 CFR part 58, Appendix D requirements.

The Niumalu NO<sub>2</sub> monitoring site is in attainment of the 2010 1-hour NO<sub>2</sub> NAAQS based on the three most recent valid design values (design values 2019-2021, encompassing data years 2017-2021) and is in attainment of the 1971 annual NO<sub>2</sub> NAAQS based on the four most recent valid design values (design values 2018-2021, encompassing data years 2016-2021). Due to data completeness issues, the 1-hour NO<sub>2</sub> design values were incomplete in 2017 and 2018 and the annual NO<sub>2</sub> design value was incomplete in 2017, but the monitor did not record any exceedances.<sup>7</sup> Partial 2022 data did not record any exceedances. The EPA also reviewed the data certification for this site and found that the data were not certified by the agency in AQ5 with a “Y” flag for 2015–2019, but this does not preclude the EPA from acting on this system modification, and HDOH submitted data certification letters to EPA for each year of data included in this review.

The Niumalu NO<sub>2</sub> monitoring site was not located in an MSA, therefore this site is not being used to meet the area-wide requirement for a monitor located in an area of expected highest concentration. This site is also not needed to fulfill 40 CFR part 58, Appendix D requirements for near-road NO<sub>2</sub> monitoring and is not required by the EPA Regional Administrator. Therefore, the closure of the Niumalu NO<sub>2</sub> monitoring site will not prevent HDOH from meeting 40 CFR part 58, Appendix D requirements and does not compromise data collection needed for implementation of the NO<sub>2</sub> NAAQS.

Based on these analyses, EPA approves HDOH’s discontinuation of the Niumalu PM<sub>2.5</sub> and NO<sub>2</sub> SPM monitors. Please include this enclosure and the relevant monitor and site information in next year’s annual monitoring network plan.

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<sup>7</sup> Data were invalidated throughout periods of 2015, 2016, and 2017 due to instrument and QA issues. Based on the historical data record, we would not expect exceedances to have occurred during the periods of missing data.

#### D. Approval of Discontinuation of Kapolei CO POC 1 and SO<sub>2</sub> POC 1 monitors.

This enclosure provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Hawaii Department of Health (HDOH) discontinuation of the CO Parameter Occurrence Code (POC) 1 and SO<sub>2</sub> POC 1 State/Local Air Monitoring Station (SLAMS) monitors at the Kapolei (AQS Site ID: 15-003-0010) monitoring site. In the 2025 Annual Monitoring Network Plan submitted to EPA, HDOH included a request for EPA approval of this network change. The closure date for the CO POC 1 monitor at Kapolei was March 31, 2022 and the closure date of the SO<sub>2</sub> POC 1 monitor at Kapolei was February 28, 2022. Both monitors were shut down due to resource constraints on their monitoring program and the desire to divert existing resources to more critical monitoring activities. While the CO POC 1 and SO<sub>2</sub> POC 1 SLAMS monitors are located at the Kapolei NCore site, they are not required NCore parameters, therefore these discontinuations were reviewed as non-NCore SLAMS monitors. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors.

Discontinuation of these SLAMS monitors were reviewed by EPA against criteria contained in 40 CFR 58.14(c)(1). EPA has reviewed HDOH's request and data associated with these monitors and concluded that the criteria contained in 40 CFR 58.14(c)(1) are met for Kapolei CO POC 1 and SO<sub>2</sub> POC 1 monitors as described below; EPA therefore approves discontinuation of these SLAMS monitors.

The Kapolei CO POC 1 monitor was in attainment of the 1971 1-hour and 8-hour CO NAAQS based on the five most recent design values (design values 2017-2021, encompassing data years 2015-2021). Based on these design values, EPA has determined that there is a less than 10 percent probability of exceeding 80 percent of the NAAQS during the next three years at this site. Partial 2022 data did not record any exceedances. The EPA also reviewed the data certification for this site and found that the data was not certified by the agency in AQS with a "Y" flag for 2015–2018, but this does not preclude the EPA from acting on this system modification, and HDOH submitted data certification letters to EPA for each year of data included in this review. This monitor is not specifically required by an attainment or maintenance plan and is not located in a nonattainment or maintenance area. This site is not needed to fulfill 40 CFR part 58, Appendix D requirements for near-road CO monitoring and is not required by the EPA Regional Administrator. The trace level CO monitor (POC 2) will continue to operate at the site, fulfilling NCore monitoring requirements. Therefore, the closure of the Kapolei CO POC 1 monitor will not prevent HDOH from meeting 40 CFR part 58, Appendix D requirements.

The Kapolei SO<sub>2</sub> POC 1 monitor was in attainment of the 2010 1-hour SO<sub>2</sub> NAAQS based on the five most recent design values (design values 2017-2021, encompassing data years 2015-2021). Based on these design values, EPA has determined that there is a less than 10 percent probability of exceeding 80 percent of the NAAQS during the next three years at this site.

Partial 2022 data did not record any exceedances. The EPA also reviewed the data certification for this site and found that the data were not certified by the agency in AQS with a “Y” flag for 2018, but this does not preclude the EPA from acting on this system modification, and HDOH submitted data certification letters to EPA for each year of data included in this review. This monitor is not specifically required by an attainment or maintenance plan and is not located in a nonattainment or maintenance area. This site is not needed to fulfill 40 CFR part 58, Appendix D requirements for monitoring based on the population weighted emissions index, and it is not required by the EPA Regional Administrator. This site is also not required to satisfy the 2015 SO<sub>2</sub> Data Requirements Rules (DRR) (80 FR 51052). The trace level SO<sub>2</sub> monitor (POC 2) will continue to operate at the site, fulfilling NCore monitoring requirements. Therefore, the closure of the Kapolei SO<sub>2</sub> POC 1 monitor will not prevent HDOH from meeting 40 CFR part 58, Appendix D requirements.

Based on these analyses, EPA approves HDOH’s discontinuation of the Kapolei CO POC 1 and SO<sub>2</sub> POC 1 SLAMS monitors. Please include this enclosure and the relevant monitor and site information in next year’s annual monitoring network plan.

#### E. Approval of Discontinuation of Honaunau PM<sub>2.5</sub> monitor.

This enclosure provides the U.S. Environmental Protection Agency's (EPA) review and approval for the Hawaii Department of Health (HDOH) discontinuation of the PM<sub>2.5</sub> Special Purpose Monitor (SPM) at the Honaunau (AQS Site ID: 15-001-3032) monitoring site. In the 2025 Annual Monitoring Network Plan submitted to EPA, HDOH included a request for EPA approval of this network change. The closure date for PM<sub>2.5</sub> monitoring at the site was January 5, 2022 due to resource constraints on their monitoring program and the desire to divert existing resources to more critical monitoring activities. Per 40 CFR 58.14, monitoring agencies are required to obtain EPA approval for the discontinuation of SLAMS monitors. While the PM<sub>2.5</sub> monitor at the Honaunau site is listed as an SPM in AQS, it has been operating for over 24 months with the monitoring objective of National Ambient Air Quality Standards (NAAQS) compliance. Therefore, the discontinuation of this SPM monitor at Honaunau was reviewed according to these provisions.

Discontinuation of the SPM monitor was reviewed by EPA against criteria contained in 40 CFR 58.14(c) which states that requests for discontinuation "may also be approved on a case-by-case basis if discontinuance does not compromise data collection needed for implementation of a National Ambient Air Quality Standard (NAAQS) and if the requirements of appendix D to this part, if any, continue to be met." EPA has reviewed HDOH's request and data associated with these monitors and concluded that the criteria contained in 40 CFR 58.14(c) are met for the Honaunau PM<sub>2.5</sub> monitor as described below; EPA therefore approves discontinuation of this SPM monitor.

Due to data completeness issues, the Honaunau PM<sub>2.5</sub> design values were incomplete in 2018-2022 (the monitor began operation in 2018). The monitor did not record any exceedances of the 2006 24-hour PM<sub>2.5</sub> NAAQS in 2018-2022 and recorded one exceedance in 2019, two exceedances in 2020, and seven exceedances in 2021 of the 2024 annual PM<sub>2.5</sub> NAAQS. The nearby PM<sub>2.5</sub> monitors include Kona (AQS ID: 15-001-1012), approximately 6 miles to the North, and Ocean View (AQS ID: 15-001-2020), approximately 30 miles to the South. The Honaunau site tracks well with the other PM<sub>2.5</sub> monitors in the area and has consistently measured concentrations less than the Ocean View site, and similar concentrations to the Kona site. The EPA also reviewed the data certification for this site and found that the data were not certified by the agency in AQS with a "Y" flag for 2018-2020, but this does not preclude the EPA from acting on this system modification, and HDOH submitted data certification letters to EPA for each year of data included in this review.

The Honaunau PM<sub>2.5</sub> monitoring site is not located in an MSA, therefore this monitor is not needed to fulfill 40 CFR part 58, Appendix D PM<sub>2.5</sub> minimum monitoring requirements. HDOH currently operates nine additional PM<sub>2.5</sub> monitors on the Island of Hawaii, and no monitors are required. The site is also not needed to fulfill 40 CFR part 58, Appendix D MSA requirements for

the maximum PM<sub>2.5</sub> concentration site, near-road site, additional monitoring site in an area of poor air quality, or for meeting the minimum number of continuous PM<sub>2.5</sub> monitors. Also, this site is not needed to fulfill 40 CFR part 58, Appendix D requirements for PM<sub>2.5</sub> background or transport sites, or PM<sub>2.5</sub> chemical speciation sites within the State. Therefore, the closure of the Honaunau monitoring site will not prevent HDOH from meeting 40 CFR part 58, Appendix D requirements, and does not compromise data collection needed for implementation of the PM<sub>2.5</sub> NAAQS.

Based on these analyses, EPA approves HDOH's discontinuation of the Honaunau PM<sub>2.5</sub> SPM monitor. Please include this enclosure and the relevant monitor and site information in next year's annual monitoring network plan.

## **Appendix G**

### **AQS Reports in Support of Requests for Closures and Discontinuations**

User ID: XGSWU

MAXIMUM VALUES REPORT

Report Request ID: 2379660

Report Code: AMP440

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	1001								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
AGENCY ROLE	PQAO

SORT ORDER

Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	DURATION_CODE
4	DATES
5	COUNTY_CODE
6	SITE_ID
7	POC
8	EDT_ID

DATE CRITERIA

Start Date	End Date
2021	2025

APPLICABLE STANDARDS

Standard Description
CO 8-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 8-hour 2015
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

Carbon monoxide (42101)

State: Hawaii  
 Duration: 8-HR RUN AVG END HOUR  
 Year: 2021

Primary: 9  
 Secondary: 9  
 Unit: Parts per million

Maximum Values

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	093	.7	.7				6451	0	0
		Honolulu		01/25:21	02/01:08						

Carbon monoxide (42101)

State: Hawaii  
 Duration: 8-HR RUN AVG END HOUR  
 Year: 2022

Primary: 9  
 Secondary: 9  
 Unit: Parts per million

Maximum Values

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	093	.7	.7				7315	0	0
		Honolulu		01/03:09	01/06:08						

Carbon monoxide (42101)

State: Hawaii  
 Duration: 8-HR RUN AVG END HOUR  
 Year: 2023

Primary: 9  
 Secondary: 9  
 Unit: Parts per million

Maximum Values

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	093	.4	.4				7024	0	0
		Honolulu		05/12:08	05/20:01						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

Carbon monoxide (42101)

State: Hawaii  
 Duration: 8-HR RUN AVG END HOUR  
 Year: 2024

Primary: 9  
 Secondary: 9  
 Unit: Parts per million

Maximum Values

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	10th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	093	1.0	.4					8718	0	0
		Honolulu		09/12:03	01/14:03							

Carbon monoxide (42101)

State: Hawaii  
 Duration: 8-HR RUN AVG END HOUR  
 Year: 2025

Primary: 9  
 Secondary: 9  
 Unit: Parts per million

Maximum Values

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	10th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	093	.5	.5					7590	0	0
		Honolulu		10/03:07	11/15:06							

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2021

Primary: 75  
 Secondary:  
 Unit: Parts per billion

Maximum Values

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	10th Max	Num Obs	Num Exc	EDT ID
15-003-1001	6	Honolulu	060	2.2	2.2	1.7	1.6	1.3		7777	0	0
		Honolulu		02/06:17	12/18:08	01/20:13	02/05:12	12/04:11				
				.9	.9	.8	.8	.8				
				02/04:03	07/01:03	01/25:03	01/28:03	02/01:03				

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2022

Primary: 75  
 Secondary:  
 Unit: Parts per billion

Maximum Values

Site ID	POC	County Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num	Num	EDT
		City Name		6th Max	7th Max	8th Max	9th Max	10th Max	Obs	Exc	ID
15-003-1001	6	Honolulu	060	2.5	1.6	1.6	1.6	1.6	8049	0	0
		Honolulu		10/13:01	10/20:01	10/27:01	11/10:01	11/14:01			
				1.6	1.6	1.6	1.5	1.5			
				11/24:01	12/01:01	12/08:01	10/31:01	11/03:01			

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2023

Primary: 75  
 Secondary:  
 Unit: Parts per billion

Maximum Values

Site ID	POC	County Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num	Num	EDT
		City Name		6th Max	7th Max	8th Max	9th Max	10th Max	Obs	Exc	ID
15-003-1001	6	Honolulu	060	4.8	3.3	3.2	2.9	2.8	8475	0	0
		Honolulu		12/08:11	01/10:17	03/10:19	01/14:15	10/03:09			
				2.8	2.4	2.3	2.2	2.1			
				11/19:20	12/31:23	12/27:12	10/24:20	01/22:14			

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2024

Primary: 75  
 Secondary:  
 Unit: Parts per billion

Maximum Values

Site ID	POC	County Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num	Num	EDT
		City Name		6th Max	7th Max	8th Max	9th Max	10th Max	Obs	Exc	ID
15-003-1001	6	Honolulu	060	3.7	3.0	2.7	2.6	2.6	8693	0	0
		Honolulu		01/01:01	01/17:19	01/25:23	01/14:11	11/24:13			
				2.5	2.4	2.3	2.3	2.2			
				01/26:00	12/19:10	01/11:05	10/21:01	04/15:19			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2025

Primary: 75  
 Secondary:  
 Unit: Parts per billion

Maximum Values

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	6	Honolulu	060	15.4	9.9	8.3	7.8	4.5	8243	0	0
		Honolulu		02/13:19	02/27:12	04/04:11	01/05:05	04/03:00			
				4.3	3.9	3.7	3.5	3.3			
				04/02:23	01/04:18	02/25:02	03/30:11	03/28:19			

PM10 Total 0-10um STP (81102)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2021

Primary: 150  
 Secondary: 150  
 Unit: Micrograms/cubic meter

Maximum Values

(25 C)

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	122	26	25	24	23	21	360	0	0
		Honolulu		03/25:00	03/21:00	03/22:00	03/24:00	03/27:00			
				20	20	20	19	19			
				02/26:00	03/26:00	10/09:00	01/26:00	01/27:00			

PM10 Total 0-10um STP (81102)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2022

Primary: 150  
 Secondary: 150  
 Unit: Micrograms/cubic meter

Maximum Values

(25 C)

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	239 122	25	23	22	22	22	299	0	0
		Honolulu		12/20:00	04/08:00	04/10:00	11/04:00	12/09:00			
				21	21	21	20	20			
				03/26:00	04/07:00	11/05:00	01/11:00	12/08:00			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

PM10 Total 0-10um STP (81102)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2023

Primary: 150  
 Secondary: 150  
 Unit: Micrograms/cubic meter

Maximum Values  
(25 C)

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	639 239	33	28	28	27	26	365	0	0
		Honolulu		08/08:00	02/11:00	03/08:00	03/09:00	02/10:00			
				26	25	24	24	24			
				02/22:00	02/21:00	01/01:00	03/01:00	08/09:00			

PM10 Total 0-10um STP (81102)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2024

Primary: 150  
 Secondary: 150  
 Unit: Micrograms/cubic meter

Maximum Values  
(25 C)

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	639	41	30	29	23	23	366	0	0
		Honolulu		01/01:00	01/17:00	03/25:00	04/11:00	11/16:00			
				22	22	22	21	21			
				03/24:00	04/12:00	04/13:00	01/13:00	02/05:00			

PM10 Total 0-10um STP (81102)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2025

Primary: 150  
 Secondary: 150  
 Unit: Micrograms/cubic meter

Maximum Values  
(25 C)

Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-003-1001	1	Honolulu	639	24	24	22	22	21	352	0	0
		Honolulu		01/30:00	12/17:00	04/23:00	04/24:00	01/13:00			
				21	21	20	20	20			
				03/14:00	04/25:00	01/31:00	04/01:00	11/13:00			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2023

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter  
 (LC)

			Maximum Values							Num	Num	EDT
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Obs	Exc	ID	
15-003-1001	3	Honolulu	238 209 638	22.0	12.7	12.5	10.9	9.4	365	0	2	
		Honolulu		01/01:00	08/08:00	01/10:00	12/31:00	08/09:00				
				9.0	9.0	9.0	8.4	8.4				
				01/18:00	01/19:00	08/07:00	02/21:00	07/12:00				

			Maximum Values							Num	Num	EDT
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Obs	Exc	ID	
15-003-1001	3	Honolulu	238 209 638	22.0	12.5	10.9	9.0	9.0	294	0	5	
		Honolulu		01/01:00	01/10:00	12/31:00	01/18:00	01/19:00				
				8.4	8.3	8.3	8.2	8.0				
				02/21:00	01/11:00	02/10:00	02/11:00	03/08:00				

			Maximum Values							Num	Num	EDT
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Obs	Exc	ID	
15-003-1001	23	Honolulu	738	10.8	7.7	7.6	6.8	5.5	71	0	0	
		Honolulu		08/08:00	08/09:00	08/07:00	07/12:00	07/13:00				
				5.4	5.4	5.2	5.0	4.9				
				06/24:00	08/10:00	08/29:00	08/26:00	07/28:00				

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2024

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter  
 (LC)



User ID: XGSWU

MAXIMUM VALUES REPORT

Report Request ID: 2379653

Report Code: AMP440

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	001	3034	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
AGENCY ROLE	PQAO

SORT ORDER

Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	DURATION_CODE
4	DATES
5	COUNTY_CODE
6	SITE_ID
7	POC
8	EDT_ID

DATE CRITERIA

Start Date	End Date
2021	2025

APPLICABLE STANDARDS

Standard Description
CO 8-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 8-hour 2015
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2024

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter

Site ID	POC	County Name City Name	Methods	Maximum Values					Num Obs	Num Exc	EDT ID
				1st Max 6th Max	2nd Max 7th Max	3rd Max 8th Max	4th Max 9th Max	5th Max 10th Max			
15-001-3034	1	Hawaii Kailua	209	20.5	19.8	14.6	14.4	14.2	360	0	0
				12/26:00	12/25:00	12/27:00	12/24:00	12/31:00			
				10.8	10.5	10.0	8.9	8.2			
				09/20:00	06/04:00	06/05:00	09/19:00	06/07:00			

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2025

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter

Site ID	POC	County Name City Name	Methods	Maximum Values					Num Obs	Num Exc	EDT ID
				1st Max 6th Max	2nd Max 7th Max	3rd Max 8th Max	4th Max 9th Max	5th Max 10th Max			
15-001-3034	1	Hawaii Kailua	209	19.4	19.0	17.9	17.7	17.2	359	0	0
				04/03:00	02/06:00	02/28:00	03/01:00	02/27:00			
				16.1	15.4	15.3	14.4	12.8			
				01/01:00	01/04:00	02/13:00	04/04:00	02/26:00			

User ID: XGSWU

MAXIMUM VALUES REPORT

Report Request ID: 2379655

Report Code: AMP440

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	001	2023	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
AGENCY ROLE	PQAO

SORT ORDER

Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	DURATION_CODE
4	DATES
5	COUNTY_CODE
6	SITE_ID
7	POC
8	EDT_ID

DATE CRITERIA

Start Date	End Date
2021	2025

APPLICABLE STANDARDS

Standard Description
CO 8-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 8-hour 2015
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2023

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter

				Maximum Values					(LC)		
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-001-2023	1	Hawaii	209	20.0	7.5	7.2	6.7	6.7	359	1	2
		Mountain View		01/01:00	08/08:00	12/31:00	03/19:00	08/07:00			
				5.5	5.4	5.3	5.1	5.0			
				02/15:00	03/20:00	01/11:00	07/12:00	02/01:00			

				Maximum Values					(LC)		
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-001-2023	1	Hawaii	209	20.0	7.5	7.2	6.7	6.7	359	1	5
		Mountain View		01/01:00	08/08:00	12/31:00	03/19:00	08/07:00			
				5.5	5.4	5.3	5.1	5.0			
				02/15:00	03/20:00	01/11:00	07/12:00	02/01:00			

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2024

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter

				Maximum Values					(LC)		
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-001-2023	1	Hawaii	209	5.8	5.7	5.4	5.3	5.0	360	0	1
		Mountain View		12/25:00	03/24:00	07/24:00	06/04:00	03/25:00			
				5.0	4.7	4.7	4.7	4.6			
				06/06:00	03/26:00	06/10:00	10/15:00	01/28:00			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2024

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter

				Maximum Values					(LC)		
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-001-2023	1	Hawaii	209	9.6	5.8	5.7	5.4	5.3	360	0	2
				01/01:00	12/25:00	03/24:00	07/24:00	06/04:00			
				5.0	5.0	4.7	4.7	4.7			
				03/25:00	06/06:00	03/26:00	06/10:00	10/15:00			

				Maximum Values					(LC)		
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-001-2023	1	Hawaii	209	9.6	5.8	5.7	5.4	5.3	360	0	5
				01/01:00	12/25:00	03/24:00	07/24:00	06/04:00			
				5.0	5.0	4.7	4.7	4.7			
				03/25:00	06/06:00	03/26:00	06/10:00	10/15:00			

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2025

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter

				Maximum Values					(LC)		
Site ID	POC	County Name City Name	Methods	1st Max	2nd Max	3rd Max	4th Max	5th Max	Num Obs	Num Exc	EDT ID
15-001-2023	1	Hawaii	209	19.8	10.4	10.0	9.5	8.7	355	0	0
				01/17:00	01/05:00	12/12:00	01/07:00	01/06:00			
				8.2	7.4	7.2	7.1	6.8			
				03/28:00	12/11:00	01/18:00	02/28:00	01/23:00			

User ID: XGSWU

MAXIMUM VALUES REPORT

Report Request ID: 2379658

Report Code: AMP440

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	001	3033	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
AGENCY ROLE	PQAO

SORT ORDER

Order	Column
1	PARAMETER_CODE
2	STATE_CODE
3	DURATION_CODE
4	DATES
5	COUNTY_CODE
6	SITE_ID
7	POC
8	EDT_ID

DATE CRITERIA

Start Date	End Date
2022	2025

APPLICABLE STANDARDS

Standard Description
CO 8-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 8-hour 2015
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

May. 1, 2026

PM2.5 - Local Conditions (88101)

State: Hawaii  
 Duration: 24-HR BLK AVG  
 Year: 2025

Primary: 9  
 Secondary: 15  
 Unit: Micrograms/cubic meter

Site ID	POC	County Name City Name	Methods	Maximum Values					Num			EDT ID
				1st Max 6th Max	2nd Max 7th Max	3rd Max 8th Max	4th Max 9th Max	5th Max 10th Max	Obs	Exc	ID	
15-001-3033	1	Hawaii	209	11.0	9.1	8.0	7.8	7.2	358	0	0	
		Naalehu		01/18:00	01/17:00	12/12:00	03/05:00	06/21:00				
				6.1	6.1	6.0	5.9	5.9				
				03/28:00	09/03:00	04/06:00	03/06:00	08/01:00				

User ID: XGSWU

DESIGN VALUE REPORT

Report Request ID: 2379662

Report Code: AMP480

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	1001								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

DESIGN VALUE

SELECTED OPTIONS

Option Type	Option Value
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
QUARTERLY DATA IN WORKFILE	NO
WORKFILE DELIMITER	,
USE LINKED SITES	YES

DATE CRITERIA

Start Date	End Date
2021	2025

APPLICABLE STANDARDS

Standard Description
Lead 3-Month 2009
NO2 1-hour 2010
Ozone 8-hour 2015
PM10 24-hour 2006
PM25 24-hour 2024
PM25 Annual 2024
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2021					2020					2019					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-003-1001 1250 PUNCHBOWL ST, HONOLULU	349	4	5.9	2.9	Y	355	4	6.2	3.0	Y	348	4	6.7	3.2	N	6	Y	3.1	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2022					2021					2020					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design Valid	Design Valid		
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-003-1001 1250 PUNCHBOWL ST, HONOLULU	354	4	7.2	3.3	Y	349	4	5.9	2.9	Y	355	4	6.2	3.0	Y	6	Y	3.1	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2023					2022					2021					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design Valid	Design Valid		
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-003-1001 1250 PUNCHBOWL ST, HONOLULU	365	4	8.3	4.1	Y	354	4	7.2	3.3	Y	349	4	5.9	2.9	Y	7	Y	3.4	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2024

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2024					2023					2022					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-003-1001 1250 PUNCHBOWL ST, HONOLULU	366	4	7.6	4.1	Y	365	4	8.3	4.1	Y	354	4	7.2	3.3	Y	8	Y	3.8	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2025

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2025					2024					2023					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-003-1001 1250 PUNCHBOWL ST, HONOLULU	352	4	9.0	4.1	Y	366	4	7.6	4.1	Y	365	4	8.3	4.1	Y	8	Y	4.1	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** PM10 Total 0-10um STP(81102)

**Design Value Year:** 2021

**Standard Units:** Micrograms/cubic meter (25 C) (001)

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**NAAQS Standard:** PM10 24-hour 2006

**Statistic:** Annual Estimated Days > Standard **Level:** 150

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2021			2020			2019			3 - Year				
		<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Estimated</u>	<u>Validity</u>			
		<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Exceedances</u>	<u>Ind.</u>			
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	0	0	4	Y	0	0	4	N	0	0	4	N	0	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** PM10 Total 0-10um STP(81102)

**Design Value Year:** 2022

**Standard Units:** Micrograms/cubic meter (25 C) (001)

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**NAAQS Standard:** PM10 24-hour 2006

**Statistic:** Annual Estimated Days > Standard **Level:** 150

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2022			2021			2020			3 - Year				
		<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Estimated</u>	<u>Validity</u>			
		<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Exceedances</u>	<u>Ind.</u>			
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	0*	0	2	Y	0	0	4	Y	0	0	4	N	0	N

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** PM10 Total 0-10um STP(81102)

**Design Value Year:** 2023

**Standard Units:** Micrograms/cubic meter (25 C) (001)

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**NAAQS Standard:** PM10 24-hour 2006

**Statistic:** Annual Estimated Days > Standard **Level:** 150

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2023			2022			2021			3 - Year				
		<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Estimated</u>	<u>Validity</u>			
		<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Exceedances</u>	<u>Ind.</u>			
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	0	0	4	Y	0*	0	2	Y	0	0	4	Y	0	N

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** PM10 Total 0-10um STP(81102)

**Design Value Year:** 2024

**Standard Units:** Micrograms/cubic meter (25 C) (001)

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**NAAQS Standard:** PM10 24-hour 2006

**Statistic:** Annual Estimated Days > Standard **Level:** 150

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2024			2023			2022			3 - Year				
		<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Estimated</u>	<u>Validity</u>			
		<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Exceedances</u>	<u>Ind.</u>			
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	0	0	4	Y	0	0	4	Y	0*	0	2	Y	0	N

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** PM10 Total 0-10um STP(81102)

**Design Value Year:** 2025

**Standard Units:** Micrograms/cubic meter (25 C) (001)

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**NAAQS Standard:** PM10 24-hour 2006

**Statistic:** Annual Estimated Days > Standard **Level:** 150

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2025			2024			2023			3 - Year		
		<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Exceedances</u>	<u>#Comp</u>	<u>Cert&amp;</u>	<u>Estimated</u>	<u>Validity</u>	
		<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Estimated Count</u>	<u>Quarter</u>	<u>Eval</u>	<u>Exceedances</u>	<u>Ind.</u>	
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	0	0	4	Y	0	0	4	Y	0	0	4	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2021			2020			2019			3-Year	
		<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Design Value</u>	<u>Valid Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	1.6	Y	4	.6	Y	4	5.9	Y	3	Y

- Notes:**
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  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual Mean

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2021			2020			2019			3-Year	
		<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Design</u> <u>Value</u>	<u>Valid</u> <u>Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	.2	Y	4	.2	Y	4	.3	Y		Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
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  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2022			2021			2020			3-Year	
		<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Design Value</u>	<u>Valid Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	1.6	Y	4	1.6	Y	4	.6	Y	1	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual Mean

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2022			2021			2020			3-Year	
		<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Design</u> <u>Value</u>	<u>Valid</u> <u>Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	.3	Y	4	.2	Y	4	.2	Y		Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2023			2022			2021			3-Year	
		<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Design Value</u>	<u>Valid Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	2.9	Y	4	1.6	Y	4	1.6	Y	2	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual Mean

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2023			2022			2021			3-Year	
		<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Design</u> <u>Value</u>	<u>Valid</u> <u>Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	1.2	Y	4	.3	Y	4	.2	Y	1	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
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  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2024

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2024			2023			2022			3-Year	
		<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Design Value</u>	<u>Valid Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	2.6	Y	4	2.9	Y	4	1.6	Y	2	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
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  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual Mean

**Design Value Year:** 2024

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2024			2023			2022			3-Year	
		<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Design Value</u>	<u>Valid Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	1.6	Y	4	1.2	Y	4	.3	Y	1	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2025

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2025			2024			2023			3-Year	
		<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Design Value</u>	<u>Valid Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	7.8	Y	4	2.6	Y	4	2.9	Y	4	Y

- Notes:**
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  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Sulfur dioxide (SO2 1-hour 2010)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual Mean

**Design Value Year:** 2025

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** 75

**State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2025			2024			2023			3-Year	
		<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Comp. Qtrs</u>	<u>99th Percentile</u>	<u>Cert&amp; Eval</u>	<u>Design Value</u>	<u>Valid Ind.</u>
15-003-1001	1250 PUNCHBOWL ST, HONOLULU	4	1.1	Y	4	1.6	Y	4	1.2	Y	1	Y

- Notes:**
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  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

User ID: XGSWU

DESIGN VALUE REPORT

Report Request ID: 2379669

Report Code: AMP480

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	001	3034								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

DESIGN VALUE

SELECTED OPTIONS

Option Type	Option Value
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
QUARTERLY DATA IN WORKFILE	NO
WORKFILE DELIMITER	,
USE LINKED SITES	YES

DATE CRITERIA

Start Date	End Date
2021	2025

APPLICABLE STANDARDS

Standard Description
Lead 3-Month 2009
NO2 1-hour 2010
Ozone 8-hour 2015
PM10 24-hour 2006
PM25 24-hour 2024
PM25 Annual 2024
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean      **Level:** 9  
**Statistic:** Annual 98th Percentile      **Level:** 35

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2021					2020					2019					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3034 Kailua-Kona	345	4	11.2	4.7	Y	0				*	0				*	11	N	4.7	N

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean      **Level:** 9  
**Statistic:** Annual 98th Percentile      **Level:** 35

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2022					2021					2020					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3034 Kailua-Kona	337	4	10.2	5.3	Y	345	4	11.2	4.7	Y	0				*	11	N	5.0	N

- Notes:**
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  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean      **Level:** 9  
**Statistic:** Annual 98th Percentile      **Level:** 35

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2023					2022					2021					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3034 Kailua-Kona	360	4	11.2	3.4	Y	337	4	10.2	5.3	Y	345	4	11.2	4.7	Y	11	Y	4.4	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2024

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2024					2023					2022					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3034 Kailua-Kona	360	4	10.0	2.9	Y	360	4	11.2	3.4	Y	337	4	10.2	5.3	Y	10	Y	3.8	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2025

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2025					2024					2023					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3034 Kailua-Kona	359	4	15.3	5.3	Y	360	4	10.0	2.9	Y	360	4	11.2	3.4	Y	12	Y	3.8	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

User ID: XGSWU

DESIGN VALUE REPORT

Report Request ID: 2379673

Report Code: AMP480

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	001	2023								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	88101		

SELECTED OPTIONS

Option Type	Option Value
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
QUARTERLY DATA IN WORKFILE	NO
WORKFILE DELIMITER	,
USE LINKED SITES	YES

DATE CRITERIA

Start Date	End Date
2021	2025

APPLICABLE STANDARDS

Standard Description
PM25 24-hour 2024
PM25 Annual 2024

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2021					2020					2019					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-2023 18-1235 VOLCANO ROAD	336	4	4.6	1.7	Y	312	3	4.5	2.1 *	Y	357	4	7.3	1.7	N	5	Y	1.8	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2022					2021					2020					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-2023 18-1235 VOLCANO ROAD	347	4	6.8	2.4	Y	336	4	4.6	1.7	Y	312	3	4.5	2.1*	Y	5	Y	2.0	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2023					2022					2021					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-2023 18-1235 VOLCANO ROAD	359	4	5.3	2.1	Y	347	4	6.8	2.4	Y	336	4	4.6	1.7	Y	6	Y	2.1	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2024

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2024					2023					2022					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-2023 18-1235 VOLCANO ROAD	360	4	4.7	2.1	Y	359	4	5.3	2.1	Y	347	4	6.8	2.4	Y	6	Y	2.2	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2025

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2025					2024					2023					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-2023 18-1235 VOLCANO ROAD	355	4	7.2	2.7	Y	360	4	4.7	2.1	Y	359	4	5.3	2.1	Y	6	Y	2.3	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

User ID: XGSWU

DESIGN VALUE REPORT

Report Request ID: 2379675

Report Code: AMP480

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	001	3033								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	88101		

SELECTED OPTIONS

Option Type	Option Value
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
MERGE PDF FILES	YES
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
QUARTERLY DATA IN WORKFILE	NO
WORKFILE DELIMITER	,
USE LINKED SITES	YES

DATE CRITERIA

Start Date	End Date
2022	2025

APPLICABLE STANDARDS

Standard Description
PM25 24-hour 2024
PM25 Annual 2024

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2022					2021					2020					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3033	27	0	5.7*	3.3*	Y	0				*	0				*	6	N	3.3	N
95-5545 Mamalahoa Hwy Naalehu, HI 96772																			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2023

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2023					2022					2021					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3033	364	4	6.7	3.0	Y	27	0	5.7*	3.3 *	Y	0				*	6	N	3.2	N
95-5545 Mamalahoa Hwy Naalehu, HI 96772																			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2024

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2024					2023					2022					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3033	357	4	6.2	2.9	Y	364	4	6.7	3.0	Y	27	0	5.7*	3.3*	Y	6	N	3.1	N
95-5545 Mamalahoa Hwy Naalehu, HI 96772																			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

**Pollutant:** Site-Level PM2.5 - Local Conditions (88101)  
**Standard Units:** Micrograms/cubic meter (LC) (105)  
**NAAQS Standard:** PM25 24-hour 2024 / PM25 Annual 2024  
**Statistic:** Annual Weighted Mean **Level:** 9  
**Statistic:** Annual 98th Percentile **Level:** 35

**Design Value Year:** 2025

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State Name:** Hawaii

<u>Site_ID</u> / <u>STREET ADDRESS</u>	2025					2024					2023					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Days</u>	<u>Qtrrs</u>	<u>Perctil</u>	<u>Mean</u>	<u>Eval</u>	<u>Value</u>	<u>Ind.</u>	<u>Value</u>	<u>Ind.</u>
15-001-3033	358	4	6.0	3.4	Y	357	4	6.2	2.9	Y	364	4	6.7	3.0	Y	6	Y	3.1	Y
95-5545 Mamalahoa Hwy Naalehu, HI 96772																			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: May. 1, 2026

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379677

Report Code: AMP430

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	1001	42101							
	15	003	1001	42401							
	15	003	1001	81102							
	15	003	1001	88101							
	15	001	3034	88101							
	15	001	2023	88101							
	15	001	3027	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
OZONE EVALUATION	SEASONAL-HOURLY
MERGE PDF FILES	YES
AGENCY ROLE	REPORTING

SORT ORDER

Order	Column
1	EPA_REGION
2	STATE_CODE
3	MONITOR_TYPE
4	COUNTY_CODE
5	SITE_ID
6	PARAMETER_CODE
7	POC

DATE CRITERIA

Start Date	End Date
2021 01	2021 12

APPLICABLE STANDARDS

Standard Description
CO 1-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 1-hour 1979
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2021 THRU DEC. 31, 2021  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42101 Carbon monoxide	1	1 093	714 96%	477 71%	663 89%	644 89%	380 51%	692 96%	486 65%	679 91%	672 93%		626 87%	712 96%	6745 77%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	6	1 060	713 96%	640 95%	687 92%	590 82%	620 83%	593 82%	649 87%	679 91%	693 96%	682 92%	519 72%	712 96%	7777 89%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	7	H 060	8537 96%	7664 95%	8309 93%	8249 95%	8350 94%	8289 96%	8498 95%	8504 95%	8289 96%	6731 75%	7511 87%	8517 95%	97448 93%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	81102 PM10 Total 0-10um STP	1	1 122	742 100%	668 99%	688 92%	706 98%	738 99%	717 100%	741 100%	742 100%	716 99%	731 98%	715 99%	738 99%	8642 99%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	88101 PM2.5 - Local Conditions	3	1 209	742 100%	667 99%	739 99%	572 79%	742 100%	697 97%	693 93%	743 100%	718 100%	742 100%	641 89%	700 94%	8396 96%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2021 THRU DEC. 31, 2021  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SPM

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-001-2023 Mountain View 18-1235 VOLCANO ROAD	88101 PM2.5 - Local Conditions	1	1 209	740 99%	664 99%	672 90%	710 99%	737 99%	589 82%	635 85%	735 99%	703 98%	739 99%	699 97%	435 58%	8058 92%
15-001-3027 16-714 Volcano Road, Keaau, HI 96749	88101 PM2.5 - Local Conditions	1	1 209	722 97%	330 49%	657 88%	718 100%	739 99%	714 99%	741 100%	636 85%	590 82%	742 100%	646 90%	728 98%	7963 91%
15-001-3034 Kailua Kailua-Kona	88101 PM2.5 - Local Conditions	1	1 209	700 94%	671 100%	513 69%	716 99%	677 91%	714 99%	742 100%	662 89%	715 99%	740 99%	718 100%	736 99%	8304 95%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

REPORT SUMMARY

DATE RANGE: JAN. 01, 2021 THRU DEC. 31, 2021  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii  
 REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42101 Carbon monoxide	1	0	1	77.0%
42401 Sulfur dioxide	2	0	2	91.0%
81102 PM10 Total 0-10um STP	1	0	1	99.0%
88101 PM2.5 - Local Conditions	1	0	1	96.0%
MT SUMMARY: SLAMS	5	0	5	90.8%

MONITOR TYPE: SPM

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
88101 PM2.5 - Local Conditions	3	0	3	92.7%
MT SUMMARY: SPM	3	0	3	92.7%
RO SUMMARY: Hawaii State Department Of Health	8	0	8	91.5%
STATE SUMMARY: Hawaii	8	0	8	91.5%
REGION SUMMARY: (09) SAN FRANCISCO	8	0	8	91.5%
REPORT SUMMARY:	8	0	8	91.5%

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379680

Report Code: AMP430

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	1001	42101							
	15	003	1001	42401							
	15	003	1001	81102							
	15	003	1001	88101							
	15	001	3034	88101							
	15	001	2023	88101							
	15	001	3027	88101							
	15	001	3033	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
OZONE EVALUATION	SEASONAL-HOURLY
MERGE PDF FILES	YES
AGENCY ROLE	REPORTING

SORT ORDER

Order	Column
1	EPA_REGION
2	STATE_CODE
3	MONITOR_TYPE
4	COUNTY_CODE
5	SITE_ID
6	PARAMETER_CODE
7	POC

DATE CRITERIA

Start Date	End Date
2022 01	2022 12

APPLICABLE STANDARDS

Standard Description
CO 1-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 1-hour 1979
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379680

Report Code: AMP430

May. 1, 2026

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2022 THRU DEC. 31, 2022  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42101 Carbon monoxide	1	1 093	720 97%	660 98%	732 98%	712 99%	735 99%	711 99%	639 86%	220 30%	704 98%	734 99%	478 66%	223 30%	7268 83%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	6	1 060	720 97%	660 98%	710 95%	712 99%	735 99%	711 99%	639 86%	726 98%	339 47%	734 99%	635 88%	728 98%	8049 92%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	7	H 060	8617 97%	7908 98%	8507 95%	8520 99%	8793 98%	8504 98%	7446 83%	8718 98%	8418 97%	8792 98%	7619 88%	8709 98%	100551 96%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	81102 PM10 Total 0-10um STP	1	1 000	742 100%	664 99%	737 99%	254 35%	446 60%	707 98%	466 63%	295 40%	718 100%	743 100%	717 100%	742 100%	7231 83%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	88101 PM2.5 - Local Conditions	3	1 209	720 97%	660 98%	742 100%	615 85%	740 99%	717 100%	647 87%	739 99%	716 99%	741 100%	715 99%	738 99%	8490 97%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2022 THRU DEC. 31, 2022  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SPM

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-001-2023 Mountain View 18-1235 VOLCANO ROAD	88101 PM2.5 - Local Conditions	1	1 209	742 100%	665 99%	505 68%	715 99%	736 99%	708 98%	733 99%	594 80%	716 99%	740 99%	718 100%	736 99%	8308 95%
15-001-3027  16-714 Volcano Road, Keaau, HI 96749	88101 PM2.5 - Local Conditions	1	1 209	721 97%	663 99%	727 98%	716 99%	737 99%	703 98%	395 53%	740 99%	716 99%	742 100%	718 100%	742 100%	8320 95%
15-001-3033 Naalehu 95-5545 Mamalahoa Hwy Naalehu, HI 96772	88101 PM2.5 - Local Conditions	1	1 209												681 95%	681 95%
15-001-3034 Kailua Kailua-Kona	88101 PM2.5 - Local Conditions	1	1 209	742 100%	670 100%	742 100%	716 99%	727 98%	717 100%	740 99%	653 88%	425 59%	644 87%	670 93%	739 99%	8185 93%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

REPORT SUMMARY

DATE RANGE: JAN. 01, 2022 THRU DEC. 31, 2022  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii  
 REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42101 Carbon monoxide	1	0	1	83.0%
42401 Sulfur dioxide	2	0	2	94.0%
81102 PM10 Total 0-10um STP	1	0	1	83.0%
88101 PM2.5 - Local Conditions	1	0	1	97.0%
MT SUMMARY: SLAMS	5	0	5	90.2%

MONITOR TYPE: SPM

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
88101 PM2.5 - Local Conditions	4	0	4	94.5%
MT SUMMARY: SPM	4	0	4	94.5%
RO SUMMARY: Hawaii State Department Of Health	9	0	9	92.1%
STATE SUMMARY: Hawaii	9	0	9	92.1%
REGION SUMMARY: (09) SAN FRANCISCO	9	0	9	92.1%
REPORT SUMMARY:	9	0	9	92.1%

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379681

Report Code: AMP430

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	1001	42101							
	15	003	1001	42401							
	15	003	1001	81102							
	15	003	1001	88101							
	15	001	3034	88101							
	15	001	2023	88101							
	15	001	3027	88101							
	15	001	3033	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
OZONE EVALUATION	SEASONAL-HOURLY
MERGE PDF FILES	YES
AGENCY ROLE	REPORTING

SORT ORDER

Order	Column
1	EPA_REGION
2	STATE_CODE
3	MONITOR_TYPE
4	COUNTY_CODE
5	SITE_ID
6	PARAMETER_CODE
7	POC

DATE CRITERIA

Start Date	End Date
2023 01	2023 12

APPLICABLE STANDARDS

Standard Description
CO 1-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 1-hour 1979
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379681

Report Code: AMP430

May. 1, 2026

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2023 THRU DEC. 31, 2023  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42101 Carbon monoxide	1	1 093	732 98%	664 99%	731 98%	711 99%	728 98%	536 74%	316 42%	418 56%		697 94%	715 99%	739 99%	6987 80%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	6	1 060	732 98%	664 99%	709 95%	713 99%	693 93%	679 94%	716 96%	700 94%	686 95%	729 98%	715 99%	739 99%	8475 97%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	7	H 060	8763 98%	7941 98%	4345 49%	1080 13%	8431 94%	8188 95%	8607 96%	8407 94%	8280 96%	8744 98%	8565 99%	8865 99%	90216 86%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	81102 PM10 Total 0-10um STP	1	1 000	741 100%	671 100%	739 99%	718 100%	741 100%	718 100%	741 100%	740 99%	719 100%	743 100%	719 100%	743 100%	8733 100%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	88101 PM2.5 - Local Conditions	23	1 738						263 100%	741 100%	694 100%					1698 100%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	88101 PM2.5 - Local Conditions	3	1 000	735 99%	671 100%	739 99%	714 99%	742 100%	717 100%	741 100%	740 99%	719 100%	743 100%	719 100%	743 100%	8723 100%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2023 THRU DEC. 31, 2023  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SPM

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-001-2023 Mountain View 18-1235 VOLCANO ROAD	88101 PM2.5 - Local Conditions	1	1 209	737 99%	669 100%	736 99%	711 99%	733 99%	595 83%	743 100%	741 100%	717 100%	743 100%	717 100%	738 99%	8580 98%
15-001-3027 16-714 Volcano Road, Keaau, HI 96749	88101 PM2.5 - Local Conditions	1	1 209	743 100%	584 87%	743 100%	719 100%	741 100%	717 100%	742 100%	742 100%	717 100%	620 83%	717 100%	742 100%	8527 97%
15-001-3033 Naalehu 95-5545 Mamalahoa Hwy Naalehu, HI 96772	88101 PM2.5 - Local Conditions	1	1 209	743 100%	666 99%	726 98%	715 99%	743 100%	712 99%	743 100%	735 99%	719 100%	743 100%	712 99%	739 99%	8696 99%
15-001-3034 Kailua Kailua-Kona	88101 PM2.5 - Local Conditions	1	1 209	742 100%	664 99%	731 98%	710 99%	736 99%	713 99%	737 99%	738 99%	655 91%	697 94%	714 99%	738 99%	8575 98%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

REPORT SUMMARY

DATE RANGE: JAN. 01, 2023 THRU DEC. 31, 2023  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii  
 REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42101 Carbon monoxide	1	0	1	80.0%
42401 Sulfur dioxide	2	0	2	91.5%
81102 PM10 Total 0-10um STP	1	0	1	100.0%
88101 PM2.5 - Local Conditions	2	0	2	100.0%
MT SUMMARY: SLAMS	6	0	6	93.8%

MONITOR TYPE: SPM

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
88101 PM2.5 - Local Conditions	4	0	4	98.0%
MT SUMMARY: SPM	4	0	4	98.0%
RO SUMMARY: Hawaii State Department Of Health	10	0	10	95.5%
STATE SUMMARY: Hawaii	10	0	10	95.5%
REGION SUMMARY: (09) SAN FRANCISCO	10	0	10	95.5%
REPORT SUMMARY:	10	0	10	95.5%

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379682

Report Code: AMP430

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	1001	42101							
	15	003	1001	42401							
	15	003	1001	81102							
	15	003	1001	88101							
	15	001	3034	88101							
	15	001	2023	88101							
	15	001	3027	88101							
	15	001	3033	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
OZONE EVALUATION	SEASONAL-HOURLY
MERGE PDF FILES	YES
AGENCY ROLE	REPORTING

SORT ORDER

Order	Column
1	EPA_REGION
2	STATE_CODE
3	MONITOR_TYPE
4	COUNTY_CODE
5	SITE_ID
6	PARAMETER_CODE
7	POC

DATE CRITERIA

Start Date	End Date
2024 01	2024 12

APPLICABLE STANDARDS

Standard Description
CO 1-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 1-hour 1979
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379682

Report Code: AMP430

May. 1, 2026

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2024 THRU DEC. 31, 2024  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42101 Carbon monoxide	1	1 093	731 98%	691 99%	726 98%	705 98%	739 99%	713 99%	736 99%	740 99%	715 99%	730 98%	716 99%	738 99%	8680 99%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	6	1 060	731 98%	691 99%	739 99%	705 98%	739 99%	713 99%	736 99%	740 99%	715 99%	730 98%	716 99%	738 99%	8693 99%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	7	H 060	8785 98%	8287 99%	8858 99%	8456 98%	8867 99%	8548 99%	8834 99%	8865 99%	8561 99%	8771 98%	8576 99%	8840 99%	104248 99%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	81102 PM10 Total 0-10um STP	1	1 639	743 100%	694 100%	742 100%	716 99%	742 100%	719 100%	741 100%	743 100%	719 100%	743 100%	719 100%	742 100%	8763 100%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	88101 PM2.5 - Local Conditions	3	1 638	743 100%	694 100%	742 100%	716 99%	742 100%	719 100%	741 100%	743 100%	719 100%	743 100%	719 100%	742 100%	8763 100%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2024 THRU DEC. 31, 2024  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SPM

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-001-2023 Mountain View 18-1235 VOLCANO ROAD	88101 PM2.5 - Local Conditions	1	1 209	741 100%	691 99%	623 84%	719 100%	740 99%	717 100%	740 99%	739 99%	718 100%	743 100%	714 99%	743 100%	8628 98%
15-001-3027  16-714 Volcano Road, Keaau, HI 96749	88101 PM2.5 - Local Conditions	1	1 209	742 100%	691 99%	743 100%	717 100%	740 99%	718 100%	743 100%	741 100%	717 100%	619 83%	715 99%	743 100%	8629 98%
15-001-3033 Naalehu 95-5545 Mamalahoa Hwy Naalehu, HI 96772	88101 PM2.5 - Local Conditions	1	1 209	739 99%	691 99%	621 83%	719 100%	741 100%	719 100%	728 98%	716 96%	719 100%	729 98%	718 100%	743 100%	8583 98%
15-001-3034 Kailua Kailua-Kona	88101 PM2.5 - Local Conditions	1	1 209	737 99%	690 99%	740 99%	704 98%	734 99%	709 98%	739 99%	735 99%	624 87%	699 94%	712 99%	737 99%	8560 97%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

REPORT SUMMARY

DATE RANGE: JAN. 01, 2024 THRU DEC. 31, 2024  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii  
 REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42101 Carbon monoxide	1	0	1	99.0%
42401 Sulfur dioxide	2	0	2	99.0%
81102 PM10 Total 0-10um STP	1	0	1	100.0%
88101 PM2.5 - Local Conditions	1	0	1	100.0%
MT SUMMARY: SLAMS	5	0	5	99.4%

MONITOR TYPE: SPM

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
88101 PM2.5 - Local Conditions	4	0	4	97.8%
MT SUMMARY: SPM	4	0	4	97.8%
RO SUMMARY: Hawaii State Department Of Health	9	0	9	98.7%
STATE SUMMARY: Hawaii	9	0	9	98.7%
REGION SUMMARY: (09) SAN FRANCISCO	9	0	9	98.7%
REPORT SUMMARY:	9	0	9	98.7%

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2379683

Report Code: AMP430

May. 1, 2026

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	1001	42101							
	15	003	1001	42401							
	15	003	1001	81102							
	15	003	1001	88101							
	15	001	3034	88101							
	15	001	2023	88101							
	15	001	3027	88101							
	15	001	3033	88101							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
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CRITERIA

SELECTED OPTIONS

Option Type	Option Value
OZONE EVALUATION	SEASONAL-HOURLY
MERGE PDF FILES	YES
AGENCY ROLE	REPORTING

SORT ORDER

Order	Column
1	EPA_REGION
2	STATE_CODE
3	MONITOR_TYPE
4	COUNTY_CODE
5	SITE_ID
6	PARAMETER_CODE
7	POC

DATE CRITERIA

Start Date	End Date
2025 01	2025 12

APPLICABLE STANDARDS

Standard Description
CO 1-hour 1971
Lead 3-Month 2009
Lead 3-Month PM10 Surrogate 2009
NO2 Annual 1971
Ozone 1-hour 1979
PM10 24-hour 2006
PM25 Annual 2024
SO2 1-hour 2010

User ID: XGSWU

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2025 THRU DEC. 31, 2025  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42101 Carbon monoxide	1	1 093	721 97%	662 99%	735 99%	712 99%	740 99%	704 98%	685 92%	705 95%	525 73%	327 44%	375 52%	708 95%	7599 87%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	6	1 060	734 99%	489 73%	734 99%	712 99%	740 99%	701 97%	704 95%	709 95%	617 86%	683 92%	700 97%	720 97%	8243 94%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	42401 Sulfur dioxide	7	H 060	8817 99%	7963 99%	8816 99%	8538 99%	8867 99%	8420 97%	8440 95%	8497 95%	7402 86%	8197 92%	8413 97%	8634 97%	101004 96%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	81102 PM10 Total 0-10um STP	1	1 639	743 100%	670 100%	743 100%	719 100%	741 100%	719 100%	742 100%	712 96%	634 88%	689 93%	688 96%	743 100%	8543 98%
15-003-1001 Honolulu 1250 PUNCHBOWL ST, HONOLULU	88101 PM2.5 - Local Conditions	3	1 638	743 100%	670 100%	743 100%	719 100%	741 100%	719 100%	742 100%	712 96%	634 88%	689 93%	688 96%	743 100%	8543 98%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

MONITORS REPORTING

DATE RANGE: JAN. 01, 2025 THRU DEC. 31, 2025  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SPM

SITE ID CITY ADDRESS	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-001-2023 Mountain View 18-1235 VOLCANO ROAD	88101 PM2.5 - Local Conditions	1	1 209	739 99%	671 100%	525 71%	719 100%	741 100%	717 100%	741 100%	742 100%	718 100%	739 99%	718 100%	743 100%	8513 97%
15-001-3027  16-714 Volcano Road, Keaau, HI 96749	88101 PM2.5 - Local Conditions	1	1 209	737 99%	669 100%	740 99%	717 100%	740 99%	719 100%	743 100%	742 100%	396 55%	733 99%	713 99%	742 100%	8391 96%
15-001-3033 Naalehu 95-5545 Mamalahoa Hwy Naalehu, HI 96772	88101 PM2.5 - Local Conditions	1	1 209	731 98%	570 85%	736 99%	716 99%	742 100%	719 100%	737 99%	739 99%	718 100%	743 100%	709 98%	742 100%	8602 98%
15-001-3034 Kailua Kailua-Kona	88101 PM2.5 - Local Conditions	1	1 209	734 99%	668 99%	741 100%	716 99%	738 99%	711 99%	737 99%	734 99%	589 82%	738 99%	709 98%	736 99%	8551 98%

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

May. 1, 2026

REPORT SUMMARY

DATE RANGE: JAN. 01, 2025 THRU DEC. 31, 2025  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii  
 REP ORG: Hawaii State Department Of Health  
 MONITOR TYPE: SLAMS

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
42101 Carbon monoxide	1	0	1	87.0%
42401 Sulfur dioxide	2	0	2	95.0%
81102 PM10 Total 0-10um STP	1	0	1	98.0%
88101 PM2.5 - Local Conditions	1	0	1	98.0%
MT SUMMARY: SLAMS	5	0	5	94.6%

MONITOR TYPE: SPM

PARAMETER	ACTIVE MONITORS	# NOT REPORTING	# MONITORS > 75%	MONITORS AVG COMPLETENESS
88101 PM2.5 - Local Conditions	4	0	4	97.3%
MT SUMMARY: SPM	4	0	4	97.3%
RO SUMMARY: Hawaii State Department Of Health	9	0	9	95.8%
STATE SUMMARY: Hawaii	9	0	9	95.8%
REGION SUMMARY: (09) SAN FRANCISCO	9	0	9	95.8%
REPORT SUMMARY:	9	0	9	95.8%