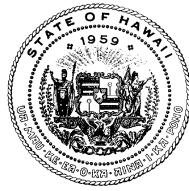


JOSH GREEN, M.D.  
GOVERNOR OF HAWAII  
KE KIA'ĀINA O KA MOKU'ĀINA 'O HAWAII



KENNETH S. FINK, MD, MGA, MPH  
DIRECTOR OF HEALTH  
KA LUNA HO'ŌKELE

STATE OF HAWAII  
DEPARTMENT OF HEALTH  
KA 'OIHANA OLAKINO  
P.O. Box 3378  
HONOLULU, HAWAII 96801-3378

In reply, please refer to:  
File:

24-219M&A CAB

April 30, 2024

Dena Vallano, Ph.D.  
Manager  
Monitoring and Analysis Section (AIR 2-3)  
U.S. EPA, Region 9  
75 Hawthorne Street  
San Francisco, California 94105

Dear Dr. Vallano:

SUBJECT: Request to Close the Kahe (KE26) SO<sub>2</sub> SLAMS/Data Requirement Rule (DRR) Air Monitoring Station (150034001)

The State of Hawaii is requesting approval from the U.S. EPA to permanently discontinue the Kahe (KE26) SO<sub>2</sub> SLAMS/DRR Air Monitoring Station (150034001). According to 40 CFR 58.14, the state may request for discontinuance of a SLAMS station if stated criteria are met, and the requirements of Appendix D to Part 58 continues to be met. This request was made available for public commenting from February 20, 2024, through March 21, 2024; no comments were received. Attached is the closure request including justification and supporting information.

If there are any questions concerning the attached, please contact Ms. Lisa Young of my staff at (808) 586-4200.

Sincerely,

MARIANNE ROSSIO, P.E.  
Manager, Clean Air Branch

LY/GW:rkb

Attachments

c: Julia Carlstad, Air Quality Analysis Office, U.S. EPA, Region 9

## **Request to Close the Kahe (KE) SLAMS/Data Requirements Rule Air Monitoring Station (150034001)**

The State of Hawaii is requesting EPA approval to permanently discontinue the Kahe ambient air monitoring station (150034001). The state is required by 40 CFR Part 51, Subpart BB, Data Requirements Rule (DRR), to characterize maximum 1-hour ambient concentrations of SO<sub>2</sub> through either ambient air quality monitoring or air quality modeling analysis. This monitor is operated solely for the purpose of satisfying the 2015 SO<sub>2</sub> DRR (80 FR 51052) for Hawaiian Electric Company's Kahe Generating Station, the Kalealoa Cogeneration Plant, and AES Hawaii, Inc.'s Cogeneration Plant. This station is located in Makakilo on the hillside south of Palehua Road and started operating on January 1, 2017.

The state currently has three SLAMS SO<sub>2</sub> stations in the Honolulu MSA. With this station closure, there will be two SO<sub>2</sub> monitoring stations remaining in the Honolulu MSA, which meets the state's minimum requirement for SO<sub>2</sub> monitoring. DOH is requesting approval from EPA to permanently shut down this station.

The Kahe station has operated for more than three years and thus the concentrations may be used for NAAQS comparison. 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 Kahe 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 Kahe 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 SO<sub>2</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, Kahe 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 would not exceed, all applicable NAAQS in the future.

**Table 1. 2017-2021 Attainment of SO<sub>2</sub> NAAQS at KE**

Pollutant Standard	2017		2018		2019		2020		2021	
	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
SO <sub>2</sub> 1-hr Average (<75 ppb)	69	64	56	50	70	68	70	69	65	60
SO <sub>2</sub> 3-hr Average (<500 ppb)	43	36	31	25	44	39	46	43	47	42

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 2. Applicable NAAQS**

Pollutant	Form of NAAQS	NAAQS	80% of NAAQS
SO <sub>2</sub>	1-hour	75 ppb	<b>60 ppb</b>
	3-hour	500 ppb	<b>400 ppb</b>

Conservatively using the 2017 to 2021 design values for all applicable NAAQS from Table 1, the probability that any monitor would exceed 80% of the NAAQS was computed.

**Table 3. Probability Computations for Applicable NAAQS at KE**

Pollutant & Averaging Time	Average ( $\bar{X}$ ) 2017-2021	Standard Deviation (s)	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?
<b>SO<sub>2</sub></b>						
1-hour <sup>1</sup>	52 ppb	3.51	2.13	5	<b>54.9</b>	<b>Yes &lt;60 ppb</b>
3-hour <sup>1</sup>	32 ppb	2.19	2.13	5	<b>34.5</b>	<b>Yes &lt;400 ppb</b>

<sup>1</sup> Design value.

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

Closing the Kahe 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."

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

40 CFR Part 58, Appendix D Section 4.4.2, requires the use of the Population Weighted Emissions Index (PWEI) calculation to determine SO<sub>2</sub> monitoring requirements, and accordingly, Hawaii is currently required to operate one SO<sub>2</sub> monitor in the Honolulu MSA. The state currently has three SO<sub>2</sub> monitors in the Honolulu MSA, with one SLAMS (DH), one SLAMS/DRR (KE), and one SLAMS/NCore trace SO<sub>2</sub> monitor at Kapolei (KA/NCore). This meets the minimum number of required SO<sub>2</sub> stations. With the discontinuation of SO<sub>2</sub> monitoring at Kahe, the network would continue to meet SO<sub>2</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 any NAAQS in the future, and continued compliance with network design criteria, closing the Kahe air monitoring station would meet the SLAMS discontinuance requirements of 40 CFR Part 58.

### **V. Public Comments**

Notification of the closure request availability for public inspection and comment was provided through a public notice published on February 20, 2024 in the major daily newspaper of the City and County of Honolulu. The request was available for inspection at the Clean Air Branch on Oahu and on the Clean Air Branch website at <http://health.hawaii.gov/cab>, for 30 days from February 20, 2024 to March 21, 2024; no comments were received.

Documentation of public notification is provided in Attachment 1 of this document; AQS reports in support of the closure are provided in Attachment 2.

## **Attachment 1**

### **Public Notice Documentation**

The Request to Close the Kahe (KE) SLAMS/Data Requirements Rule Air Monitoring Station (150034001) was made available for public viewing on the Clean Air Branch website and at the following Department of Health location:

- Clean Air Branch, 2827 Waimano Home Road, Room 130, Pearl City, Oahu

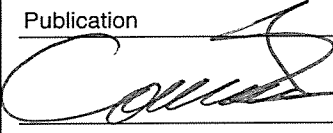
Public notification of the availability of the Request for public inspection was published in The Star Advertiser, the major newspaper of the City and County of Honolulu. The public comment period was for 30 days from February 20, 2024 to March 21, 2024; no comments were received. Documentation of the public notice is attached.

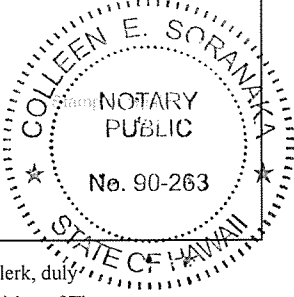
AFFIDAVIT OF PUBLICATION

IN THE MATTER OF  
PUBLIC NOTICE (Docket No. 24-CA-PA-04)

}  
}  
}  
}  
}  
}

STATE OF HAWAII }  
} SS.  
City and County of Honolulu }

Doc. Date: FEB 20 2024 # Pages: 1  
 Notary Name: COLLEEN E. SORANAKA First Judicial Circuit  
 Doc. Description: Affidavit of  
Publication  
  
FEB 20 2024  
 Notary Signature Date



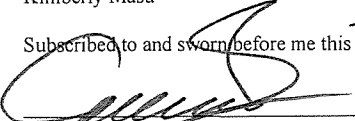
Kimberly Masu being duly sworn, deposes and says that she is a clerk, duly authorized to execute this affidavit of Oahu Publications, Inc. publisher of The Honolulu Star-Advertiser, MidWeek, The Garden Island, West Hawaii Today, and Hawaii Tribune-Herald, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the

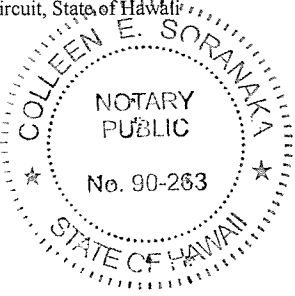
Honolulu Star-Advertiser 1 times on:  
02/20/2024  
 MidWeek 0 times on:  
 The Garden Island 0 times on:  
 Hawaii Tribune-Herald 0 times on:  
 West Hawaii Today 0 times on:  
 Other Publications: 0 times on:

And that affiant is not a party to or in any way interested in the above entitled matter.

  
\_\_\_\_\_  
Kimberly Masu

Subscribed to and sworn before me this 20th day of February A.D. 2024

  
\_\_\_\_\_  
Colleen E. Soranaka, Notary Public of the First Judicial Circuit, State of Hawaii  
My commission expires: Jan 06 2028



**PUBLIC NOTICE**  
(Docket No. 24-CA-PA-04)

The Department of Health, State of Hawaii, is notifying all interested persons of the document, "Request to Close the Kahe (KE) SLAMS/Data Requirements Rule Air Monitoring Station (150034001)." This request, based on 40 CFR 58.14, documents the SLAMS discontinuance requirements that were met at the Kahe station, including data in support of the closure.

The report is available for public review during regular office hours, Monday through Friday, 7:45 a.m. to 4:15 p.m., at the following location:

Clean Air Branch, Department of Health  
2827 Waimano Home Road, Room 130  
Pearl City, HI 96782

The closure request is also available for inspection on the Hawaii Department of Health, Clean Air Branch website at <http://health.hawaii.gov/cab>. Interested persons may submit written comments addressed to the Department of Health at:

Clean Air Branch, Department of Health  
2827 Waimano Home Road, Room 130  
Pearl City, HI 96782

The comments must be postmarked or received by March 21, 2024. For additional information, contact Ms. Lisa Young of the Clean Air Branch at (808) 586-4200. (SA1444989 2/20/24)

Ad # 0001444989

ICSP.NO.: \_\_\_\_\_

## **Attachment 2**

### **AQS Reports in Support of Request for Closure**

User ID: XGSWU

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 2140915

Report Code: AMP600

Nov. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
AGENCY ROLE	CERTIFYING

DATE CRITERIA

Start Date	End Date
2017	2017



# Data Evaluation and Concurrence Report Summary

Nov. 8, 2023

**Certification Year:** 2017

**Certifying Agency (CA):** Hawaii State Department Of Health (0481)

**Pollutants in Report:**

<u>Parameter Name</u>	<u>Code</u>	<u>Monitors Evaluated</u>	<u>Monitors Recommended for Concurrence by AQS</u>	<u>Monitors NOT Recommended for Concurrence by AQS</u>
Sulfur dioxide	42401	1	1	0

**PQAOs in Report:**

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>TSA Date</u>
Hawaii State Department Of Health	0481	07/28/20

**Summary of 'N' flags for all pollutants:**

<u>Parameter</u>	<u>AQS Recommended</u>	<u>Cert. Agency Recommended</u>	<u>Reason for AQS Recommendation</u>
<u>PQAO Code</u>	<u>AQS Site-ID</u>	<u>POC Flag</u>	

**Signature of Monitoring Organization Representative:** \_\_\_\_\_

# Data Evaluation and Concurrence Report for Gaseous Pollutants

**Certifying Year** 2017  
**Certifying Agency Code** Hawaii State Department Of Health (0481)  
**Parameter** Sulfur dioxide (42401) (ppb)

**PQAO Name** Hawaii State Department Of Health (0481)  
**QAPP Approval Date** 07/06/2023

**NPAP Audit Summary:**

Number of Passed Audits	NPAP Bias	Criteria Met
		Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag			
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag	Epa Concur	
15-003-4001	1 SLAMS	1.0	0.0	68.7		0	97	1.75	-1.92	100	- 4.59	100	Y	Y	Y		Y

**EPA Comment:** 2017 5-minute SO2 data at this site certified per 'Certified SO2 Monitoring Data for 2017 Data Requirements Rule' email from Hawaii Department of Health, recieved April 30, 2018.

User ID: XGSWU

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 2140914

Report Code: AMP600

Nov. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
AGENCY ROLE	CERTIFYING

DATE CRITERIA

Start Date	End Date
2018	2018

# Data Evaluation and Concurrence Report Summary

Nov. 8, 2023

**Certification Year:** 2018

**Certifying Agency (CA):** Hawaii State Department Of Health (0481)

**Pollutants in Report:**

<u>Parameter Name</u>	<u>Code</u>	<u>Monitors Evaluated</u>	<u>Monitors Recommended for Concurrence by AQS</u>	<u>Monitors NOT Recommended for Concurrence by AQS</u>
Sulfur dioxide	42401	1	1	0

**PQAOs in Report:**

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>TSA Date</u>
Hawaii State Department Of Health	0481	07/28/20

**Summary of 'N' flags for all pollutants:**

<u>Parameter</u>	<u>AQS Recommended</u>	<u>Cert. Agency Recommended</u>	<u>Reason for AQS Recommendation</u>
<u>PQAO Code</u>	<u>AQS Site-ID</u>	<u>POC Flag</u>	

**Signature of Monitoring Organization Representative:** \_\_\_\_\_

# Data Evaluation and Concurrence Report for Gaseous Pollutants

**Certifying Year** 2018  
**Certifying Agency Code** Hawaii State Department Of Health (0481)  
**Parameter** Sulfur dioxide (42401) (ppb)

**PQAO Name** Hawaii State Department Of Health (0481)  
**QAPP Approval Date** 07/06/2023

**NPAP Audit Summary:**

Number of Passed Audits	NPAP Bias	Criteria Met
1	7.60996	Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag			
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag	Epa Concur	
15-003-4001	1 SLAMS	0.7	0.0	55.9		0	98	0.81	-0.90	100	- 8.92	100	Y	Y	Y	Y	Y

User ID: XGSWU

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 2140913

Report Code: AMP600

Nov. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
AGENCY ROLE	CERTIFYING

DATE CRITERIA

Start Date	End Date
2019	2019

# Data Evaluation and Concurrence Report Summary

**Certification Year:** 2019

**Certifying Agency (CA):** Hawaii State Department Of Health (0481)

**Pollutants in Report:**

<u>Parameter Name</u>	<u>Code</u>	<u>Monitors Evaluated</u>	<u>Monitors Recommended for Concurrence by AQS</u>	<u>Monitors NOT Recommended for Concurrence by AQS</u>
Sulfur dioxide	42401	1	1	0

**PQAOs in Report:**

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>TSA Date</u>
Hawaii State Department Of Health	0481	07/28/20

**Summary of 'N' flags for all pollutants:**

<u>Parameter</u>	<u>AQS Recommended</u>	<u>Cert. Agency Recommended</u>
<u>PQAO Code</u>	<u>AQS Site-ID</u>	<u>POC</u>
<u>Flag</u>	<u>Flag</u>	<u>Reason for AQS Recommendation</u>

**Signature of Monitoring Organization Representative:** \_\_\_\_\_

# Data Evaluation and Concurrence Report for Gaseous Pollutants

**Certifying Year** 2019  
**Certifying Agency Code** Hawaii State Department Of Health (0481)  
**Parameter** Sulfur dioxide (42401) (ppb)

**PQAO Name** Hawaii State Department Of Health (0481)  
**QAPP Approval Date** 07/06/2023

**NPAP Audit Summary:**

Number of Passed Audits	NPAP Bias	Criteria Met
2	3.79747	Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag			
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag	Epa Concur	
15-003-4001	1 SLAMS	1.2	0.0	70.0		0	97	1.18	-1.13	100	- 8.22	100	Y	Y	Y	Y	Y



User ID: XGSWU

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 2140912

Report Code: AMP600

Nov. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
AGENCY ROLE	CERTIFYING

DATE CRITERIA

Start Date	End Date
2020	2020

# Data Evaluation and Concurrence Report Summary

**Certification Year:** 2020

**Certifying Agency (CA):** Hawaii State Department Of Health (0481)

**Pollutants in Report:**

<u>Parameter Name</u>	<u>Code</u>	<u>Monitors Evaluated</u>	<u>Monitors Recommended for Concurrence by AQS</u>	<u>Monitors NOT Recommended for Concurrence by AQS</u>
Sulfur dioxide	42401	1	1	0

**PQAOs in Report:**

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>TSA Date</u>
Hawaii State Department Of Health	0481	07/28/20

**Summary of 'N' flags for all pollutants:**

<u>Parameter</u>	<u>AQS Recommended</u>	<u>Cert. Agency Recommended</u>
<u>PQAO Code</u>	<u>AQS Site-ID</u>	<u>POC</u>
<u>Flag</u>	<u>Flag</u>	<u>Reason for AQS Recommendation</u>

**Signature of Monitoring Organization Representative:** \_\_\_\_\_

# Data Evaluation and Concurrence Report for Gaseous Pollutants

**Certifying Year** 2020  
**Certifying Agency Code** Hawaii State Department Of Health (0481)  
**Parameter** Sulfur dioxide (42401) (ppb)

**PQAO Name** Hawaii State Department Of Health (0481)  
**QAPP Approval Date** 07/06/2023

**NPAP Audit Summary:**      **Number of Passed Audits**      **NPAP Bias**      **Criteria Met**  
Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag			
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag	Epa Concur	
15-003-4001	1 SLAMS	0.8	0.0	69.6		0	98	0.88	+1.01	100	- 4.01	100	Y	Y	Y	Y	Y

User ID: XGSWU

CERTIFICATION EVALUATION AND CONCURRENCE

Report Request ID: 2140911

Report Code: AMP600

Nov. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001								

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

CRITERIA

SELECTED OPTIONS

Option Type	Option Value
MERGE PDF FILES	YES
AGENCY ROLE	CERTIFYING

DATE CRITERIA

Start Date	End Date
2021	2021

# Data Evaluation and Concurrence Report Summary

Nov. 8, 2023

**Certification Year:** 2021

**Certifying Agency (CA):** Hawaii State Department Of Health (0481)

**Pollutants in Report:**

<u>Parameter Name</u>	<u>Code</u>	<u>Monitors Evaluated</u>	<u>Monitors Recommended for Concurrence by AQS</u>	<u>Monitors NOT Recommended for Concurrence by AQS</u>
Sulfur dioxide	42401	1	1	0

**PQAOs in Report:**

<u>PQAO Name</u>	<u>PQAO Code</u>	<u>TSA Date</u>
Hawaii State Department Of Health	0481	07/28/20

**Summary of 'N' flags for all pollutants:**

<u>Parameter</u>	<u>AQS Recommended</u>	<u>Cert. Agency Recommended</u>	<u>Reason for AQS Recommendation</u>
<u>PQAO Code</u>	<u>AQS Site-ID</u>	<u>POC Flag</u>	

**Signature of Monitoring Organization Representative:** \_\_\_\_\_

# Data Evaluation and Concurrence Report for Gaseous Pollutants

**Certifying Year** 2021  
**Certifying Agency Code** Hawaii State Department Of Health (0481)  
**Parameter** Sulfur dioxide (42401) (ppb)

**PQAO Name** Hawaii State Department Of Health (0481)  
**QAPP Approval Date** 07/06/2023

**NPAP Audit Summary:**

Number of Passed Audits	NPAP Bias	Criteria Met
3	1.90901	Y

AQS Site ID	POC Monitor Type	Routine Data					One Point Quality Check			Annual PE		NPAP		Concur. Flag				
		Mean	Min	Max	Exceed. Count	Outlier Count	Perc. Comp.	Precision	Bias	Complete	Bias	Complete	Bias	PQAO Level Criteria	QAPP Appr.	Aqs Rec Flag	CA Rec Flag	Epa Concur
15-003-4001	1 SLAMS	0.6	0.1	64.9		0	98	0.87	+1.12	100	- 8.63	100	1.91	Y	Y	Y	N	N

User ID: XGSWU

MAXIMUM VALUES REPORT

Report Request ID: 2140906

Report Code: AMP440

Nov. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001	42401							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
--------------------------	-----------	--------	----------

CRITERIA

SELECTED OPTIONS

Option Type	Option Value
EVENTS PROCESSING	REPORT ALL EVENT RECORDS
MERGE PDF FILES	YES
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
2017	2021

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 2012
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

Nov. 8, 2023

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2017

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
15-003-4001	1	Honolulu	560	68.7	64.3	58.3	54.7	51.5	8475	0	0
		Not in a city		01/17:13	01/13:15	01/11:16	03/06:11	09/14:10			
				47.4	47.3	45.2	44.9	41.6			
				10/07:04	09/13:13	03/17:14	08/28:13	03/10:14			

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2018

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
15-003-4001	1	Honolulu	560	55.9	49.8	38.6	37.8	35.7	8617	0	0
		Not in a city		02/11:06	04/30:02	01/12:08	05/04:00	05/02:12			
				34.2	32.6	31.2	30.9	29.9			
				02/20:04	04/03:12	04/06:00	02/07:07	12/26:16			

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2019

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
15-003-4001	1	Honolulu	560	70.0	67.7	65.8	61.8	57.7	8520	0	0
		Not in a city		08/10:16	01/21:17	07/04:11	01/11:10	11/05:04			
				54.9	52.4	51.3	47.1	46.2			
				10/25:10	02/22:23	08/09:15	09/14:16	11/12:14			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

Nov. 8, 2023

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 1 HOUR  
 Year: 2020

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
15-003-4001	1	Honolulu	560	69.6	69.0	61.7	57.1	54.3	8596	0	0
		Not in a city		09/30:17	11/01:21	03/05:04	01/28:02	04/05:04			
				49.3	45.4	44.8	41.9	38.8			
				10/01:11	01/30:00	05/06:12	04/12:10	12/03:10			

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	Num Obs	Num Exc	EDT ID
15-003-4001	1	Honolulu	560	64.9	59.9	48.4	44.1	42.9	8574	0	0
		Not in a city		11/17:13	08/31:10	03/26:06	01/09:16	02/12:17			
				38.2	37.0	36.1	35.7	34.0			
				06/26:10	11/16:14	11/18:14	05/30:21	03/14:18			

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 5 MINUTE  
 Year: 2017

Primary:  
 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
15-003-4001	7	Honolulu	560	197.3	122.9	116.4	110.1	109.2	100799		0
		Not in a city		01/15:06	01/11:17	01/11:16	01/11:16	01/28:09			
				108.6	104.7	102.9	102.0	95.4			
				01/11:17	01/11:16	01/13:13	01/11:16	01/13:13			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SUBSYSTEM  
 MAXIMUM VALUES REPORT

Nov. 8, 2023

Sulfur dioxide (42401)

State: Hawaii  
 Duration: 5 MINUTE  
 Year: 2021

Primary:  
 Secondary:  
 Unit: Parts per billion

Site ID	POC	County Name City Name	Methods	Maximum Values					Num Obs	Num Exc	EDT ID
				1st Max	2nd Max	3rd Max	4th Max	5th Max			
15-003-4001	7	Honolulu	560	95.8	89.2	89.0	86.1	83.7	100863		0
		Not in a city		08/31:10	08/31:09	03/26:06	08/31:10	08/31:09			
				83.6	83.1	82.0	82.0	81.6			
				08/31:10	03/26:06	11/16:15	11/17:13	11/17:13			

User ID: XGSWU

DESIGN VALUE REPORT

Report Request ID: 2140904

Report Code: AMP480

Nov. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001								

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
2017	2021

APPLICABLE STANDARDS

Standard Description
Lead 3-Month 2009
NO2 1-hour 2010
Ozone 8-hour 2015
PM10 24-hour 2006
PM25 24-hour 2012
PM25 Annual 2012
SO2 1-hour 2010

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

Report Date: Nov. 8, 2023

- 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: Nov. 8, 2023

**Pollutant:** Sulfur dioxide(42401)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2017

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

**Level:** 75                      **State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2017			2016			2015			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>
15-003-4001	PALEHUA ROAD	4	54.7	Y						55	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: Nov. 8, 2023

**Pollutant:** Sulfur dioxide(42401)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2018  
**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**  
**State Name:** Hawaii

**Level:** 75

<u>Site ID</u>	<u>STREET ADDRESS</u>	2018			2017			2016			3-Year	
		<u>Comp.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</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>
15-003-4001	PALEHUA ROAD	4	37.8	Y	4	54.7	Y				46	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: Nov. 8, 2023

**Pollutant:** Sulfur dioxide(42401)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2019  
**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**  
**State Name:** Hawaii

**Level:** 75

<u>Site ID</u>	<u>STREET ADDRESS</u>	2019			2018			2017			3-Year	
		<u>Comp.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</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>
15-003-4001	PALEHUA ROAD	4	61.8	Y	4	37.8	Y	4	54.7	Y	51	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: Nov. 8, 2023

**Pollutant:** Sulfur dioxide(42401)  
**Standard Units:** Parts per billion(008)  
**NAAQS Standard:** SO2 1-hour 2010  
**Statistic:** Annual 99th Percentile

**Design Value Year:** 2020  
**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**  
**Level:** 75                      **State Name:** Hawaii

<u>Site ID</u>	<u>STREET ADDRESS</u>	2020			2019			2018			3-Year	
		<u>Comp.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</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>
15-003-4001	PALEHUA ROAD	4	57.1	Y	4	61.8	Y	4	37.8	Y	52	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: Nov. 8, 2023

**Pollutant:** Sulfur dioxide(42401)  
**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.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</u>	<u>99th</u> <u>Percentile</u>	<u>Cert&amp;</u> <u>Eval</u>	<u>Comp.</u> <u>Qtrs</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>
15-003-4001	PALEHUA ROAD	4	44.1	N	4	57.1	Y	4	61.8	Y	54	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: Nov. 8, 2023

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: 2176470

Report Code: AMP430

Mar. 28, 2024

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001	42401							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
--------------------------	-----------	--------	----------

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
2017 01	2017 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 2012
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS REPORTING

DATE RANGE: JAN. 01, 2017 THRU DEC. 31, 2017  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

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

SITE ID	PARAMETER	POC	DURATION	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
CITY	ADDRESS		METHOD	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-003-4001	42401 Sulfur dioxide	1	1	673	662	715	668	718	694	729	732	709	734	707	734	8475
			560	90%	99%	96%	93%	97%	96%	98%	98%	98%	99%	98%	99%	97%
PALEHUA ROAD																
15-003-4001	42401 Sulfur dioxide	7	H	8162	7811	8551	8029	8536	8216	8649	8685	8396	8694	8368	8702	100799
			560	91%	97%	96%	93%	96%	95%	97%	97%	97%	97%	97%	97%	96%
PALEHUA ROAD																

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

REPORT SUMMARY

DATE RANGE: JAN. 01, 2017 THRU DEC. 31, 2017  
 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
42401 Sulfur dioxide	2	0	2	96.5%
MT SUMMARY: SLAMS	2	0	2	96.5%
RO SUMMARY: Hawaii State Department Of Health	2	0	2	96.5%
STATE SUMMARY: Hawaii	2	0	2	96.5%
REGION SUMMARY: (09) SAN FRANCISCO	2	0	2	96.5%
REPORT SUMMARY:	2	0	2	96.5%



User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2176474

Report Code: AMP430

Mar. 28, 2024

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001	42401							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
--------------------------	-----------	--------	----------

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
2018 01	2018 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 2012
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS REPORTING

DATE RANGE: JAN. 01, 2018 THRU DEC. 31, 2018  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

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

SITE ID	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
CITY	ADDRESS			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-003-4001	42401 Sulfur dioxide	1	1 560	734 99%	658 98%	736 99%	704 98%	736 99%	705 98%	734 99%	736 99%	710 99%	724 97%	711 99%	729 98%	8617 98%
PALEHUA ROAD																
15-003-4001	42401 Sulfur dioxide	7	H 560	8624 97%	7735 96%	8649 97%	8281 96%	8649 97%	8299 96%	8626 97%	8648 97%	8347 97%	8564 96%	8355 97%	8579 96%	101356 96%
PALEHUA ROAD																

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

REPORT SUMMARY

DATE RANGE: JAN. 01, 2018 THRU DEC. 31, 2018  
 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
42401 Sulfur dioxide	2	0	2	97.0%
MT SUMMARY: SLAMS	2	0	2	97.0%
RO SUMMARY: Hawaii State Department Of Health	2	0	2	97.0%
STATE SUMMARY: Hawaii	2	0	2	97.0%
REGION SUMMARY: (09) SAN FRANCISCO	2	0	2	97.0%
REPORT SUMMARY:	2	0	2	97.0%

User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2176479

Report Code: AMP430

Mar. 28, 2024

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001	42401							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

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
2019 01	2019 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 2012
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS REPORTING

DATE RANGE: JAN. 01, 2019 THRU DEC. 31, 2019  
 REGION: (09) SAN FRANCISCO  
 STATE: Hawaii

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

SITE ID	PARAMETER	POC	DURATION METHOD	OBSERVATIONS												YEAR
				NUMBER / PERCENT												
CITY	ADDRESS			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
15-003-4001	42401 Sulfur dioxide	1	1 560	734 99%	658 98%	736 99%	705 98%	733 99%	626 87%	725 97%	729 98%	710 99%	731 98%	710 99%	723 97%	8520 97%
PALEHUA ROAD																
15-003-4001	42401 Sulfur dioxide	7	H 560	8636 97%	7739 96%	8650 97%	8293 96%	8633 97%	7373 85%	7504 84%	8586 96%	8350 97%	8633 97%	8353 97%	8517 95%	99267 94%
PALEHUA ROAD																

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

REPORT SUMMARY

DATE RANGE: JAN. 01, 2019 THRU DEC. 31, 2019  
 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
42401 Sulfur dioxide	2	0	2	95.5%
MT SUMMARY: SLAMS	2	0	2	95.5%
RO SUMMARY: Hawaii State Department Of Health	2	0	2	95.5%
STATE SUMMARY: Hawaii	2	0	2	95.5%
REGION SUMMARY: (09) SAN FRANCISCO	2	0	2	95.5%
REPORT SUMMARY:	2	0	2	95.5%



User ID: XGSWU

DATA COMPLETENESS REPORT

Report Request ID: 2176481

Report Code: AMP430

Mar. 28, 2024

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	15	003	4001	42401							

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration

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
2020 01	2020 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 2012
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS NOT REPORTING

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

MONITORS REPORTING

DATE RANGE: JAN. 01, 2020 THRU DEC. 31, 2020  
 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	
15-003-4001	42401 Sulfur dioxide	1	1 560	729 98%	668 96%	733 99%	706 98%	731 98%	704 98%	734 99%	717 96%	710 99%	728 98%	705 98%	731 98%	8596 98%
PALEHUA ROAD																
15-003-4001	42401 Sulfur dioxide	7	H 560	8596 96%	7861 94%	8633 97%	8303 96%	8619 97%	8299 96%	8635 97%	8451 95%	8354 97%	8280 93%	8298 96%	8597 96%	100926 96%
PALEHUA ROAD																

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 DATA COMPLETENESS REPORT

Mar. 28, 2024

REPORT SUMMARY

DATE RANGE: JAN. 01, 2020 THRU DEC. 31, 2020  
 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
42401 Sulfur dioxide	2	0	2	97.0%
MT SUMMARY: SLAMS	2	0	2	97.0%
RO SUMMARY: Hawaii State Department Of Health	2	0	2	97.0%
STATE SUMMARY: Hawaii	2	0	2	97.0%
REGION SUMMARY: (09) SAN FRANCISCO	2	0	2	97.0%
REPORT SUMMARY:	2	0	2	97.0%