



Florida Department of Environmental Protection

Office of Air Monitoring

FAMAS

Overview

March 22, 2016





What is FAMAS?

- FAMAS - Florida Air Monitoring and Assessment System
 - A web-based application and Oracle database that is the final storage point for Florida's ambient air monitoring data before it is transferred to EPA's Air Quality System (AQS).
- Functions & Uses:
 - Houses the data collected via various methods
 - Polling
 - Imported files
 - Database transfers (PMTS)
 - Facilitates the viewing and manipulation of data
 - Data Validation
 - Verification
 - Statistical Analysis report
 - Provides site specific information
 - Network Description
 - Daily Site Summary



FAMAS

- **Data**
 - Viewer
 - Matrix Editor
 - Filter Blank Editor
 - Multiple Parameter Editor
- **Utilities**
 - Import AIRS/AQS
 - Export AIRS/AQS
 - Data Verification
 - File Comparison
 - AQS Site/Monitor Info
- **Reports**
 - Completeness
 - Daily Site Summary
 - Missing Data
 - Network Description
- **QA**
 - QA/QC Checks
 - Submit QA File
 - Export QA File
- **Documents**
 - QMP, QAPPs, SOPs, and Forms
 - User Guide



Data





Viewer

- Displays the number of valid data values collected per pollutant at a selected site.
 - The data may be arranged for easier viewing:
 - Manual/hourly
 - 5-minute
 - PM filter blank data
 - Year
 - Parameter: The parameters are differentiated by a series of fixed colors.

FDEP, Forgotten Coast TM (9006)

Select Site

D1056006
G0730012A
G0730012B
G0730013

*Closed site

Parameter Legend

	Criteria
	Meteorological
	PM2.5 Speciation
	Opis
	Toxics
	PM Related
	Other

☒ Manual/Hourly

☐ 5 Minute

☐ PM Filter Blanks

Group by:

☐ Parameter

☒ Year

Refresh

Site G0730012A														
Year	Param	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2015	O3	ppb	0	0	0	0	0	0	0	161	0	0	302	0
	PM25C	ug/m3 LC	0	0	0	0	0	0	0	0	0	0	84	0
	PM25M	ug/m3 LC	7	8	0	0	0	0	0	0	0	0	0	0
	PM25M_2	ug/m3 LC	5	4	0	0	0	0	0	0	0	0	0	0
	RAIN	IN	744	672	744	720	240	0	0	0	0	0	0	0
	CV25	%	5	8	0	0	0	0	0	0	0	0	0	0
	CV25_2	%	5	4	0	0	0	0	0	0	0	0	0	0
	PA25	mmHg	5	8	0	0	0	0	0	0	0	0	0	0
	PA25_2	mmHg	5	4	0	0	0	0	0	0	0	0	0	0
	PN25	mmHg	5	8	0	0	0	0	0	0	0	0	0	0
	PN25_2	mmHg	5	4	0	0	0	0	0	0	0	0	0	0
	PX25	mmHg	5	8	0	0	0	0	0	0	0	0	0	0
	PX25_2	mmHg	5	4	0	0	0	0	0	0	0	0	0	0
	ST25	min	5	8	0	0	0	0	0	0	0	0	0	0
	ST25_2	min	5	4	0	0	0	0	0	0	0	0	0	0
	SV25	m3	5	8	0	0	0	0	0	0	0	0	0	0
	SV25_2	m3	5	4	0	0	0	0	0	0	0	0	0	0
	TA25	deg C	5	8	0	0	0	0	0	0	0	0	0	0
	TA25_2	deg C	5	4	0	0	0	0	0	0	0	0	0	0
	TN25	deg C	5	8	0	0	0	0	0	0	0	0	0	0
	TN25_2	deg C	5	4	0	0	0	0	0	0	0	0	0	0
	TX25	deg C	7	8	0	0	0	0	0	0	0	0	0	0
	TX25_2	deg C	5	4	0	0	0	0	0	0	0	0	0	0
Year	Param	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	O3	ppb	0	0	0	0	0	0	0	0	2	0	0	0
	PM25M	ug/m3 LC	10	10	10		0	0	0	0	0	0	0	0
	PM25M_2	ug/m3 LC	5	5	5	0	0	0	0	0	0	0	0	0
	RAIN	IN	0	0	0	0	744	720	744	744	720	744	720	744
Year	Param	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2013	O3	ppb	38	0	0	0	0	0	0	0	233	0	0	0
	ATMP	deg C	0	0	0	0	0	0	0	0	233	0	0	0
	RH	%	0	0	0	0	0	0	0	0	233	0	0	0
	WDV	deg	0	0	0	0	0	0	0	0	233	0	0	0
	WSA	mph	0	0	0	0	0	0	0	0	233	0	0	0
	WSV	mph	0	0	0	0	0	0	0	0	233	0	0	0
	FILT	%	0	0	0	0	0	0	0	0	233	0	0	0
	NOISE	hz	0	0	0	0	0	0	0	0	233	0	0	0
	O3PS	ppb	0	0	0	0	0	0	0	0	233	0	0	0
	TEOM_AIR_TEMP	Deg C	0	0	0	0	0	0	0	0	233	0	0	0
	TEOM_AMBP	Atm	0	0	0	0	0	0	0	0	233	0	0	0
	TEOM_ATMP	Deg C	0	0	0	0	0	0	0	0	233	0	0	0
	TEOM_AUX_FLOW	lpm	0	0	0	0	0	0	0	0	233	0	0	0



Matrix Editor

- Displays a day, month, or year's worth of data for one parameter at a time
- Single and multiple data points can be edited
 - The Edit Reading Screen
 - Add a comment, data logger flags, qualifiers, exclusion and null codes
 - Update the method code
 - View the Audit Trail

Data
Viewer
Matrix Editor
Block Editor
Filter Blank Editor
Multiple Parameter Editor

Utilities
Polling
Spatial Air Quality System
Import AIRS/AQS
Export AIRS/AQS
Data Verification
File Comparison
To EPA/Certified Flag
FAMAS Inventory
AQS Site Monitor Info

FDEP, Forgotten Coast TM (9006)

Site: **G0730012** Parameter: **03** Interval: **001h** Date: **January 2016** Refresh

Highlight: **[None]** | Void Negatives | Fill Blanks | Null Code | QA Qualifier | Exclusion | Comment | Excel | Report | Audit Trail

Day/Hour	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Fri 1	25	24	21	19	25	22	21	19	18	16	17	17	20	18	18	18	17	15	16	17	15	18	19	19
Sat 2	20	22	22	23	23	23	23	23	23	24	25	25	25	26	27	27	25	25	22	21	21	20	17	16
Day/Hour	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun 3	14	12	11	16	15	12	14	16	17	22	25	26	28	30	30	32	31	30	27	25	22	12	15	19
Mon 4	22	26	25	22	22	22	21	16	13	25	31	33	36	38	39	40	39	37	32	31	31	31	31	29
Tue 5	29	27	25	25	27	28	27	27	27	31	33	34	35	36	37	38	38	35	30	29	31	30	30	29
Wed 6	29	32	33	33	32	31	30	28	28	29	30	32	33	35	35	37	37	37	35	34	33	32	31	28
Thu 7	26	28	28	27	27	26	25	24	22	23	24	26	28	29	31	31	29	27	25	24	21	17	21	21
Fri 8	19	18	19	22	25	24	15	17	21	25	25	24	26	25	25	25	25	20	18	17	14	14	19	20
Sat 9	20	20	23	27	29	27	24	24	24	23	22	25	24	25	21	19	20	27	29	25	25	27	26	24

G0730012 03 ppb 001h

Date: 01/04/2016 06:00
Value: **21** (-5 to 400)

AQS Null Code: **[None]**
QA Qualifier: **[None]**
Exclusion Code: **[None]**

☐ Invalid ☐ Value Changed Manually ☐ Edited
☐ Verified ☐ Sent to EPA ☐ Certified
☐ Changed after Verified ☐ Changed after Sent to EPA ☐ Changed after Certified ☐ Retrieved from Archive

Method Code: **047** MDL: Uncertainty:

Data Logger Flags
Setting any of these flags invalidates the reading. You can also invalidate the reading by assigning an AQS Null Code.

☐ Missing ☐ Suspect ☐ Calibration ☐ Maintenance
☐ Disabled ☐ Power Failure ☐ Adjusted ☐ QA

Comments

Add Comment

[Audit Trail](#)



Matrix Editor

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To EPA/Certified Flag
FAMAS Inventory
AQS Site/Monitor Info
Refresh FLAGs Data
Code Maintenance

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AQI Summary by Site
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Power Failure
Quarterly Secretary's Report
Quicklook
Raw Data
Rolling/Block Average
Site Comparison Graph
Statistical Analysis
Strip Chart
Violation of Standards
Wind/Pollution Rose

QA
QA/QC Checks
Submit BARS File

Site: FDEP, Forgotten Coast TM (9006)
Parameter: O3
Interval: 001h
Date: March 2011
Refresh

Highlight: [None] | Void Negatives | Fill Blank | Null Code | QA Qualifier | Exclusion | Comment | Excel | Report | As

Select AQS Null Code -- Webpage Dialog

Select AQS Null Code

state.fl.us needs some information

Script Prompt

Enter a Comment

Legend: Invalid, Valid w/flag, Changed, Exclusion, QA, Blank

FAMAS Audit Trail Report

Date Range: 3/1/2015 to 3/31/2015 11:59:00 PM

Ambient Data

Site:G1290001 Parameter:O3

Reading Date	Activity Date	User	Activity
03/03/2015 00:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 01:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 02:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 03:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 04:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 05:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 06:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 07:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 08:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 09:00	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 10:00	03/05/2015 07:30:00	REVELL_M	Changed Null Code from BA to BL
	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 11:00	03/05/2015 07:30:00	REVELL_M	Changed Null Code from BA to BL
	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 12:00	03/05/2015 07:30:15	REVELL_M	Changed Null Code from AT to [blank]
	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 13:00	03/05/2015 07:30:15	REVELL_M	Changed Null Code from AT to [blank]
	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 14:00	03/05/2015 07:30:15	REVELL_M	Changed Null Code from AT to [blank]
	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 15:00	03/05/2015 07:30:16	REVELL_M	Changed Null Code from AT to [blank]
	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 16:00	03/05/2015 07:30:16	REVELL_M	Changed Null Code from AT to [blank]
	04/24/2015 15:59:58	STOLL_C	Verified
03/03/2015 17:00	04/24/2015 15:59:58	STOLL_C	Verified

- The Audit Trail Report is a great way to double-check what changes were made to the data especially if there is a change that needs to be undone.



Filter Blank Editor

- Permits the user to edit the particulate matter (PM) filter blank data.

Data

- Viewer
- Matrix Editor
- Block Editor
- Filter Blank Editor
- Multiple Parameter Editor

Utilities

- Polling
- Spatial Air Quality System
- Import AIRS/AQS
- Export AIRS/AQS
- Data Verification
- File Comparison
- To EPA/Certified Flag
- FAMAS Inventory
- AQS Site/Monitor Info
- Refresh FLAQS Data
- Code Maintenance

Reports

- AQI Summary by County
- AQI Summary by Site
- Audit Trail
- Calibration History
- Changed after Verification/Certification
- Completeness

Filter Blank Editor

FDEP, Forgotten Coast TM (9006)

Site

G0730012

Parameter

PM25M

Interval

001d

Date

Entire Year

2013

Refresh

Highlight

[None]

Null Code

QA Qualifier

Exclusion

Comment

Excel

Report

Audit Trail

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Jan	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-4.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Jan
Feb	NS	NS	NS	NS	NS	NS	-4.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Feb
Mar	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Apr	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
May	NS	9.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Jun	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Jul	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aug	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Sep	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Oct	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Nov	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dec	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

(Double-click reading for more info.)

Legend: Invalid Valid w/flag Changed

Save Changes

G0730012 PM25M_FB ug 001d

Date

04/11/2013 00:00

Value

8

(-30 to 30)

AQS Null Code

[None]

QA Qualifier

[None]

Exclusion Code

[None]

☐ Invalid

☐ Value Changed Manually

☐ Edited

☒ Verified

☒ Sent to EPA

☐ Certified

☐ Changed after Verified

☐ Changed after Sent to EPA

☐ Changed after Certified

Method Code

118

Comments

Note: If the comment text is not fully visible, double-click it to view it in a pop-up

Add Comment

Audit Trail

Save

Close

- This is where the Method Code for the Filter Blanks can be edited if they were transferred from PMTS incorrectly.



Multiple Parameter Editor

- Allows the user to make changes to readings across many sites and parameters, and over long periods of time.
- The only data that should be entered is what needs to be changed. This application **does not** perform a situational query.

Multiple Parameter Editor

Agency: FDEP, Forgotten Coast TM (9006)

Site:

- G0730012
- G1290001
- *G0730013

*Closed site

Parameters:

- Criteria Pollutants
- O3
- Particulate matter 2.5u
- PM10C_2
- PM25C
- PM25M
- PM25M_2
- Meteorological
- ATMP
- Barometric Pressure

Select Item

☐ Include PM Filter Blanks

Selected Site/Parameters:

- G0730012, O3

Remove Item

Interval: 001h

Start: 3/1/2014 00:00

End: 3/31/2015 23:59

Null Code: Value *:

QA Method Code:

Qualifier: MDL *:

Exclusion Code: * Does not apply to PM Filter Blanks

Comments:

Criteria

Criteria Name Save

Load Criteria * [None] Delete

* When using one of the criteria select lists, picking the year *first* is necessary to get the right sites.

Apply Changes



Utilities





Import AIRS/AQS

- The Import utility allows data files in AIRS, AQS, or Data logger File format
- FAMAS will send an email containing the results.
 - The email will contain any errors encountered as well as display the successfully imported data counts.
 - FAMAS quits the import once 100 errors have been encountered.

FAMAS File Import

FAMAS accepts import files in AQS, AIRS or Digi-trend Milker (Data Logger) formats. After uploading a file you will receive an e-mail notification showing any errors that were encountered during the import process.

Import File:

Figure 3-19 File Import Results Email

AQS Import: 08/25/10 10:16:01
Submitted by: WETHERINGTON_C

File Name: d:\EscFw\Dnc\Import\Import\AQS WETHERINGTON_C 8_25_2010_11_10_25_AM.aqs

Response File: d:\EscFw\Dnc\Import\Archives\201008\AQS WETHERINGTON_C 8_25_2010_11_10_25_AM.aqs.issue.txt

Error at line 2: An invalid or missing AQS site/monitor code was encountered
State Code:12 County:099 Site:0009 Parm:88101 Sample Duration: Occurrence:2
This error could mean that the FAMAS database is not configured properly to accept this AQS record.

Error at line 3: An invalid or missing AQS site/monitor code was encountered
State Code:12 County:099 Site:0020 Parm:42602 Sample Duration: Occurrence:1

Error at line 4: An invalid or missing AQS site/monitor code was encountered
State Code:12 County:099 Site:0020 Parm:44201 Sample Duration: Occurrence:1

Error at line 5: An invalid or missing AQS site/monitor code was encountered
State Code:12 County:099 Site:2005 Parm:81102 Sample Duration: Occurrence:1

Error at line 6: An invalid or missing AQS site/monitor code was encountered
State Code:12 County:099 Site:3004 Parm:42401 Sample Duration: Occurrence:1

Site/Parameter Summary:

Site	Parm Code	Parameter	Interval	Start Date	End Date	Records	Errors
L0990009	88101	PM25M	001d	2010-06-08 00:00:00	2010-06-08 00:00:00	1	0

The following sites did not import due to AQS code issues:

Site	Parm Code	Interval	POC	Records
12-099-0009	88101			2
12-099-0020	42602			1
12-099-0020	44201			1
12-099-2005	81102			1
12-099-3004	42401			1



Export AIRS/AQS

- The Export utility is used to create AIRS- or AQS-formatted text files.
- Data options include:
 - All Data – All data, whether verified or otherwise.
 - Only Verified Data – Only verified data.
 - Only Data Ready for EPA – Only verified data, which do **not** have the Sent To EPA flag.

FAMAS Export

FDEP, Forgotten Coast TM (9006)

Site

G0730012
G1290001
*G0730013

*Closed site

Parameter

Criteria Pollutants
O3
Particulate matter 2.5u
PM10C_2
PM25C
PM25M
PM25M_2
Meteorological
ATMP
Barometric Pressure

Select Item

Selected Site/Parameters

G0730012, O3
G0730012, PM25C
G0730012, PM25M
G0730012, PM25M_2

Remove Item

Quarter/Month/Year: 4th Quarter / 2015

Start: 10/01/2015 00:00

End: 12/31/2015 23:59

File Format: AQS

Export: All Data
Only Verified Data
Only Data Ready for EPA

Include 5 Minute SO₂

Include PM Filter Blanks ☒

Action: INSERT

Criteria

Criteria Name

Save

Load Criteria *

[None]

Delete

* When using one of the criteria select lists, picking the year first is necessary to get the right sites.

Export to File



Data Verification

- It consolidates several of the checks performed as part of the data validation and verification process.
 - Ensure the QA Transactions, Ambient and PM Filter Blanks boxes are checked.
 - The user can apply flags to the data which indicate that they were verified.
- The verification utility provides the following information on the data:
 - Exceedances
 - Historic Max
 - Range Check
 - [Averages] below Federal MDL
 - Blank Records Check
 - Internal Temperature Check
 - Persistence Check
 - Verified Flag
 - Precision % Check
 - Precision Max Check
 - Precision Min Check (for collocated pairs only)
 - Accuracy % Difference
 - Accuracy Level Range Check
 - PM Filter Blanks:
 - Range Check
 - Persistence Check
 - Counts



Data Verification

- **Verification Results:** The results of all checks performed and any associated warnings will populate in a separate tab in the browser.
 - The results will appear with either a “Passed” or “Failed!” next to the check name.
 - This is where the user would set the verified flag, if applicable.

Verification Results

Ambient:

- Exceedances - Passed
- Range Check - Passed
- 24-Hr Average Below Federal MDL Check - Passed
- 1-Hr Average Below Federal MDL Check - Passed
- 5-Min Average Below Federal MDL Check - Passed
- Blank Records Check - Passed
- Internal Temperature - Passed
- Persistence Check - Passed

The data you have chosen is ready to be flagged as verified. ☐ Set Verified Flag

The data you have chosen contains some verified records. ☐ Remove Verified Flag

PM Filter Blanks:

- PM Filter Blanks Range Check - Passed
- PM Filter Blanks Persistence - **FAILED!**

The data you have chosen is ready to be flagged as verified. ☐ Set Verified Flag

The data you have chosen contains some verified records. ☐ Remove Verified Flag

Precision:

- Precision % Check - **FAILED!**
- Precision Max Check - Passed
- Precision Min Check - Passed

The data you have chosen is already flagged as verified. ☐ Remove Verified Flag

Accuracy:

- Accuracy % Difference - Passed
- Accuracy Level Range Check - Passed

The data you have chosen is ready to be flagged as verified. ☐ Set Verified Flag

Process Checked Option(s)



File Comparison

- It compares data in an AQS-formatted data file to the data in FAMAS.
 - Including all data values, null codes, QA qualifiers, and exclusion codes.
- The results are delivered via email to the user.

AQS File Comparison: 09/08/10 10:46:01

Submitted by: WETHERINGTON_C

File Name: d:\EscFw\Dnc\Import\Import\COMPAREAQ5 WETHERINGTON_C 9_8_2010_11_39_54_AM.aqs

Response File: d:\EscFw\Dnc\Import\Archives\201009\COMPAREAQ5 WETHERINGTON_C

9_8_2010_11_39_54_AM.aqs.issue.txt

Site	Param	Interval	Date Stamp		Value/Null Code	Method Code	Exclusion	QA
-----	-----	-----	-----	-----	-----	-----	-----	-----
G0730013	03	001h	2010-07-01 00:00:00	FAMAS	-19.000000	047		
				File Line # 1	19.000000	047		
G0730013	03	001h	2010-07-01 03:00:00	FAMAS	-15.000000	047		
				File Line # 4	15.000000	047		
G0730013	03	001h	2010-07-01 06:00:00	FAMAS	-9.000000	047		
				File Line # 7	9.000000	047		

3 differences found.

Site/Parameter Summary:

Site	Parm Code	Parameter	Interval	Start Date	End Date	Records	Errors
-----	-----	-----	-----	-----	-----	-----	-----
G0730013	44201	03	001h	2010-07-01 00:00:00	2010-07-31 23:00:00	744	0

AQS File Comparison

This utility allows you to submit an AQS data file for comparison with data in the FAMAS database. The results of the comparison will be sent to your e-mail address.

AQS File:

Browse...

Upload



AQS Site & Monitor

- This section houses any information related to sites and monitors:

- Latitude and Longitude
- Start and End dates
- Parameter code
- Method code

AQS Monitor Information

Hillsborough County Environmental Protection Commission (0491)

Site: L0573002 Parameter: PM25M

Basic Monitor Information

Parameter Code: 88101 Pm2.5 - Local Conditions Occurrence Code: 1
Method Code: 145 Units Code: 105 Micrograms/cubic meter (LC)
Sample Duration Code: 7 24 Hours Collection Frequency Code: 1 Every Day
OMS Enabled: No

FAMAS Parameter Description: PM25M

FAMAS Miscellaneous Info: Pm2.5 - Local Conditions

Sampler Type: R&P 2025

FAMAS Comments: SU 1/1/04

Project Class: 01

Primary Source of the Pollutant Being Measured: AREA

Measurement Scale: URBAN SCALE

Open Path Number:

Probe Location Code: TOP OF BUILDING

Probe Height (meters): 2.4

Probe Horizontal Distance (meters): 0

Probe Vertical Distance (meters): 1

Surrogate Indicator:

Unrestricted Air Flow Indicator: Y

Sample Residence Time (seconds): 1

AQS Site Information

Hillsborough County Environmental Protection Commission (0491)

Site: L0573002

Basic Site Information

FAMAS Site Description: Sydney

FAMAS Site Comments: Site Opened 1/1/2004; VOCs; Metals; NCORE 11/9/2009; URG Start 4/1/2009

*Latitude: +27.965700

*Longitude: -82.230617

UTM Zone: 17

UTM Easting: 378980

UTM Northing: 3093830

*LDP Method of Collection: 103

*LDP Horizontal Datum: NAD83

LDP Source Scale:

*LDP Horizontal Accuracy Value: 27.9657

*LDP Vertical Measure: 20

*LDP Vertical Collection Method: 001

*LDP Vertical Datum: NAVD88

*LDP Vertical Accuracy Value: 5

*Time Zone Name: EASTERN

*Agency Code: 0491

*Street Address: 1167 N Dover Rd

City: Dover

ZIP Code: 33527

City Code: 18075

Urban Area Code: 8280

Air Quality Control Region Code: 052

*Land Use Type: RESIDENTIAL

*Location Setting: RURAL

*Site Established Date: 1/1/2004



Reports





Reports

Calibration History:

- It consolidates the monitors' calibration data and creates graphs which provide a visual aid to data review.
 - Primary standards and analyzers can be compared.
 - Calibration results over an extended period of time can be tracked.

Calibration History Graph

The screenshot shows the 'Calibration History Graph' interface. At the top, a dropdown menu is set to 'FDEP, Forgotten Coast TM (9006)'. Below this, there are three main sections: 'Site', 'Parameters', and 'Selected Site/Parameters'. The 'Site' section lists 'G0730012', 'G1290001', and '*G0730013'. The 'Parameters' section lists 'O3' and 'O3PS'. The 'Selected Site/Parameters' section lists 'G0730012, O3' and 'G0730012, O3PS'. A 'Remove Item' button is present. Below these sections, there are date and time selection fields: 'Quarter/Month/Year' (4th Quarter / 2015), 'Start' (10/01/2015 00:00), and 'End' (12/31/2015 23:59). At the bottom, there is a 'Calibration Levels' section with a list of levels: 'Mid:Linearity Mid', 'PREC:Precision', 'SPAN:Span', 'SPAN1:Span 1 of 2', 'SPAN2:Span 2 of 2', and 'ZERO:Zero'. A 'Plot Results As' dropdown is set to 'Measured Value'. A 'Criteria' section at the bottom right has a 'Criteria Name' field, a 'Load Criteria *' dropdown (set to '[None]'), and 'Save' and 'Delete' buttons. A footnote at the bottom states: '* When using one of the criteria select lists, picking the year first is necessary to get the right sites.' A 'Run Report' button is at the bottom right.

Completeness:

- This report is a measure of the number of valid sample readings taken during a period of time.
 - It calculates the data completeness for any parameter over a period of time.

Completeness, Criteria Selection

The screenshot shows the 'Completeness, Criteria Selection' interface. At the top, a dropdown menu is set to 'FDEP, Forgotten Coast TM (9006)'. Below this, there are three main sections: 'Site', 'Parameter', and 'Selected Site/Parameters'. The 'Site' section lists 'G0730012', 'G1290001', and '*G0730013'. The 'Parameter' section lists 'Criteria Pollutants', 'O3', 'Particulate matter 2.5u', 'PM10C_2', 'PM25C', 'PM25M', 'PM25M_2', 'Meteorological', 'ATMP', and 'Barometric Pressure'. The 'Selected Site/Parameters' section lists 'G0730012, O3'. A 'Remove Item' button is present. Below these sections, there are date and time selection fields: 'Quarter/Year' (4th Quarter / 2015), 'Start' (10/01/2015 00:00), and 'End' (12/31/2015 23:59). At the bottom, there is a 'Criteria' section with a 'Criteria Name' field, a 'Load Criteria *' dropdown (set to '[None]'), and 'Save' and 'Delete' buttons. A footnote at the bottom states: '* When using one of the criteria select lists, picking the year first is necessary to get the right sites.' A 'Run Report' button is at the bottom right.



Reports

Daily Site Summary:

- It creates a daily summarization of a polled site's data.
 - Includes a daily site summary report **only** for the sites it polls, **not** for sites whose data are uploaded.

Network Description:

- The network description provides information regarding which sites and monitors are operating in Florida's ambient air quality monitoring network at a given time.

Missing Data:

- It creates a report summarizing the missing data for the specified time period.



Quality Assurance & Documents





Quality Assurance

QA/QC Checks:

- It allows the user to review the QA and QC checks performed on each monitor for a particular site over a period of time.
- All QA/QC checks should be entered into FAMAS, passing and failing.
 - When the data is ready for AQS, the failed checks should be excluded from the export by checking the box “Exclude from Export/Reports”.

QA/QC Checks

1-Point QC

Annual PE

Flow Rate Verification

Semi-Annual Flow Rate Audit

PMC Flow Rate Verification

PMC Semi-Annual Flow Rate Audit

PEP

NPAP

Pb Analysis Audit

Speciation Flow Rate Verification

Semi-Annual Speciation Flow Rate Audit

Main Menu

FDEP, Forgotten Coast TM (9008)

Site: G0730012 Date Range: 4th Quarter 2015

1-Point QC

Create New Import O3 Calibrations Audit Trail

Parameter	Assessment Date	Assessment Number	Performing Agency	Monitor Method Code	Reported Unit	Monitor Concentration	Assessment Concentration	Exclude from Export / Reports	Delete
O3	10/01/2015	1	1226	047	008	74	75	☐	Delete
O3	10/02/2015	1	1226	047	008	74	75	☐	Delete
O3	10/03/2015	1	1226	047	008	75	75	☐	Delete
O3	10/04/2015	1	1226	047	008	74	75	☐	Delete
O3	10/05/2015	1	1226	047	008	75	75	☐	Delete
O3	10/06/2015	1	1226	047	008	74	75	☐	Delete
O3	10/07/2015	1	1226	047	008	74	75	☐	Delete
O3	10/08/2015	1	1226	047	008	74	75	☐	Delete
O3	10/09/2015	1	1226	047	008	74	75	☐	Delete
O3	10/10/2015	1	1226	047	008	75	75	☐	Delete
O3	10/11/2015	1	1226	047	008	75	75	☐	Delete
O3	10/12/2015	1	1226	047	008	75	75	☐	Delete



Quality Assurance

Submit PARS File:

- This utility operates exactly the same as the Import AIRS/AQS utility except it is for the a QA file instead of Raw data.

Export QA File:

- Allows the user to export the QA file for multiple sites at a time, over a specified time period.
 - Each QA transaction must be selected separately.

FAMAS File Import

FAMAS accepts import files in AQS,AIRS or Digi-trend Milker (Data Logger) formats. After uploading a file you will receive an e-mail notification showing any errors that were encountered during the import process.

Import File:

Browse...

Upload

QA File Export

My Agency (1226) ▼

Site

- *G0730002
- *G0730003
- *G0730011
- *G0731003
- *G0731004
- *G0731005

*Closed site

Select Item

Selected Sites
(Leave empty to include all opened sites for the selected agency)

Remove Item

Quarter|Month|Year: Entire Year ▼ / 2016 ▼

Start: 1/01/2016 00:00

End: 12/31/2016 23:59

Transaction

Type 1-Point QC ▼

☐ Include Data Marked as Failed

Criteria

Criteria Name Save

Load Criteria * [None] ▼ Delete

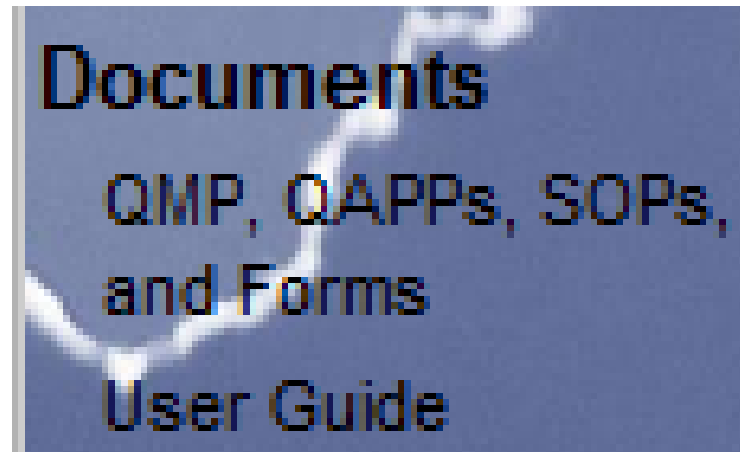
** Based on the Performing Agency only, no site selection needed

Run Export



Documents

- This section houses important documentation such as:
 - Quality Management Plan (QMP)
 - Quality Assurance Project Plans (QAPPs)
 - Standard Operating Procedures (SOPs)
 - Forms
 - Technical Notes
 - FAMAS User Manual





Questions?

