EQuIS® Air Quality System Package

US EPA ambient air pollution and meteorological data management

The United States Environmental Protection Agency (EPA) Air Quality System (AQS) stores ambient air and related meteorological data collected from thousands of monitors across the country managed by EPA, state, local, and tribal agencies.

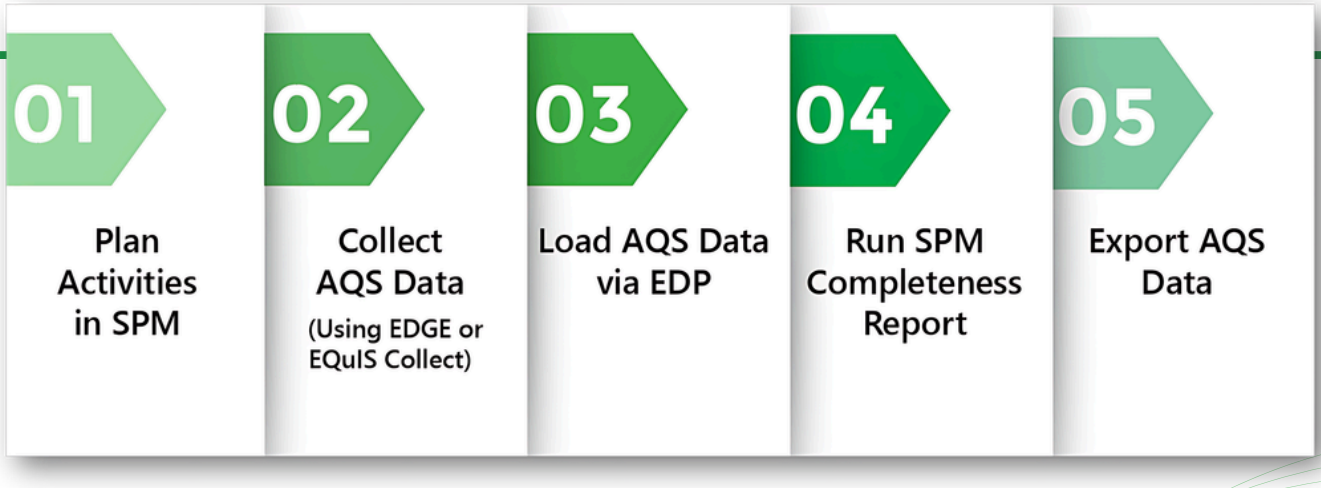
The EQuIS AQS Package collects, stores, and manages AQS data for export into required file formats for submission to regulatory agencies.



AQS Package Workflow

The EQuIS AQS Package is integrated with other EQuIS applications, such as the Sample Planning Package (SPM), EQuIS Collect, EQuIS Data Gathering Engine (EDGE), and EQuIS Data Processor (EDP) to manage the entire data workflow.

- Create Plans and project tasks associated with various AQS activities using EQuIS SPM. See status and completeness in multiple views.
- Collect field data with EQuIS smart forms using EQuIS Collect or EDGE
- Verify and validate AQS data using the built-in data checker, EDP, for import and export.
- Review AQS data for trends using time series reports.



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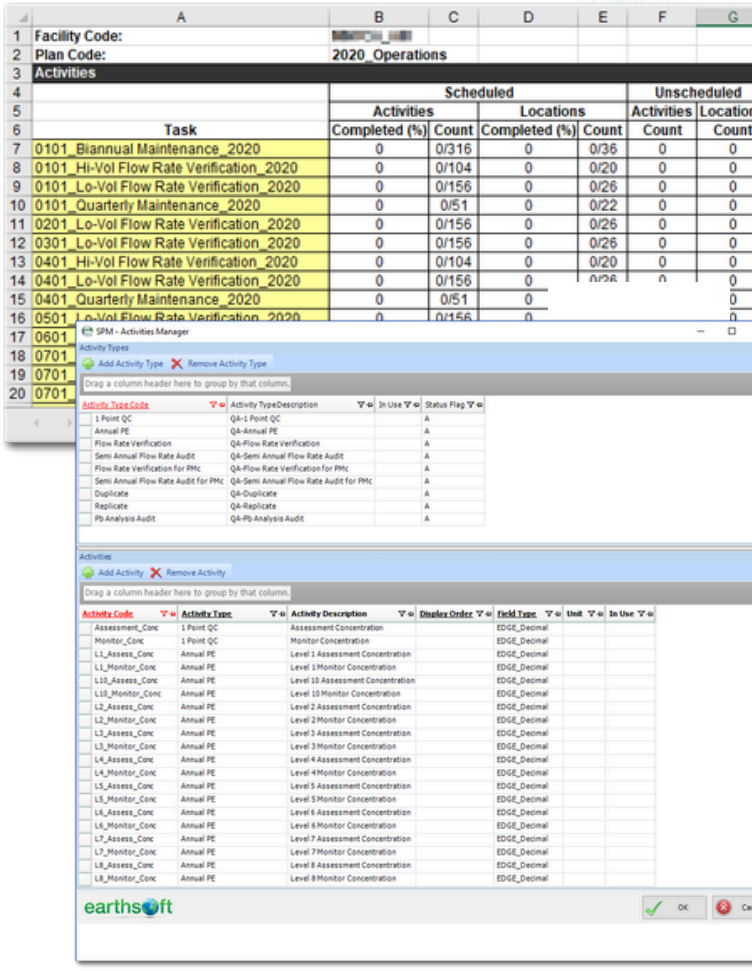
EQuIS AQS Package Components

- New EQuIS Schema and Formats support AQS data.
  - AQS Schema – Provides a basic structure to store and organize AQS data in EQuIS, available with EQuIS Enterprise Premium licensing.
  - AQS Reference Value Format – Populate the Reference Values added by the AQS Schema.
  - AQS Format – EQuIS format to upload AQS-ready data files into an EQuIS Schema. This format can load current and historical datasets.
  - AQS Format Export File – The EQuIS AQS format generates the pipe-delimited text files for upload to the EPA Air Quality System for each transaction type.
- EQuIS Collect Templates – Collect templates are available to record equipment calibration, maintenance information, flow rate data, and more.
- EDGE Example Files – Provides example data for configuring EDGE and setting up Reference Values.

Sample Planning Package

Use SPM with the EQuIS AQS Package to plan, schedule, and track AQS field activities and recurring equipment-related activities associated with each monitor, even when multiple monitors are present at a single location. Equipment quality assurance (QA), calibration, and maintenance activities can be planned and scheduled as Activities (aka equipment parameters) in SPM.

Examples of activities include cleaning air filters, taking photos, trimming flora, site maintenance, taking initial vs final readings, and calibration checks. SPM Completeness Reports can ensure all AQS activities were completed.



	A	B	C	D	E	F	G
1	Facility Code:						
2	Plan Code:	2020_Operations					
3	Activities						
4		Scheduled				Unscheduled	
5		Activities		Locations		Activities	Locatio
6	Task	Completed (%)	Count	Completed (%)	Count	Count	Count
7	0101_Biannual Maintenance_2020	0	0/316	0	0/36	0	0
8	0101_Hi-Vol Flow Rate Verification_2020	0	0/104	0	0/20	0	0
9	0101_Lo-Vol Flow Rate Verification_2020	0	0/156	0	0/26	0	0
10	0101_Quarterly Maintenance_2020	0	0/51	0	0/22	0	0
11	0201_Lo-Vol Flow Rate Verification_2020	0	0/156	0	0/26	0	0
12	0301_Lo-Vol Flow Rate Verification_2020	0	0/156	0	0/26	0	0
13	0401_Hi-Vol Flow Rate Verification_2020	0	0/104	0	0/20	0	0
14	0401_Lo-Vol Flow Rate Verification_2020	0	0/156	0	0/26	0	0
15	0401_Quarterly Maintenance_2020	0	0/51	0			0
16	0501_Lo-Vol Flow Rate Verification_2020	0	0/156	0			0
17	0601						
18	0701						
19	0701						
20	0701						

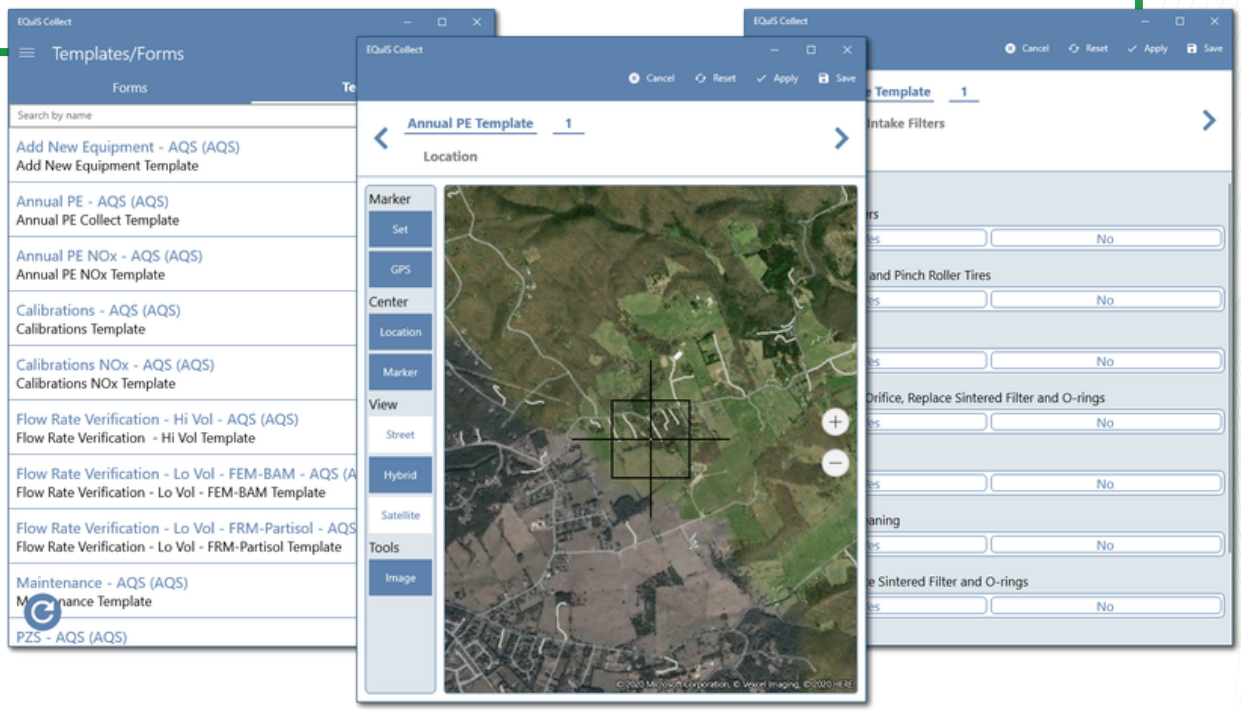
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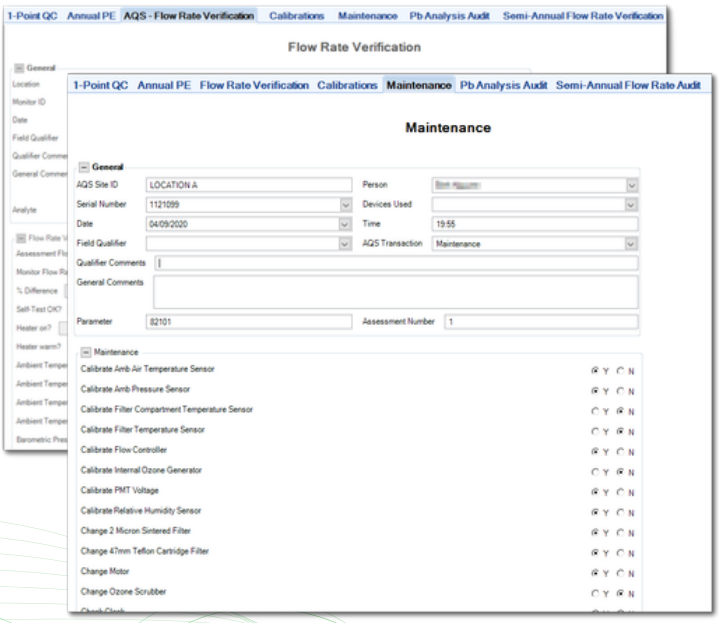
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EQuIS Collect

Use EQuIS Collect for AQS data capture and import into EQuIS. Numerous out-of-the-box EQuIS Collect templates for AQS transaction types are available with the EQuIS AQS Package. The Collect AQS templates can be used to record equipment calibration, maintenance information, priority pollutant data, flow rate verification and audit data, and more.





EQuIS Data Gathering Engine

Capture data for the AQS activities with the EDGE Equipment Parameter Form or Activity Form. EDGE Forms for various AQS QA Transaction Types are provided.

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