# **Agency Roles and Access Control**

New AQS Security Model



# Background

- Part 58 Ambient Air Quality Surveillance defines a number of agency/organizations and their responsibilities.
- AQS associates agencies with both sites and monitors with specific named roles for the site or monitor.
- However, AQS has historically not utilized these agency roles for access control, but instead used an artificial entity, Screening Group, that does not correlate with agencies.



# Part 58 Agency Definitions

- Monitoring Organization: A state, local, or other monitoring organization responsible for operating a monitoring site for which the quality assurance regulations apply
- PQAO (Primary Quality Assurance Organization): A monitoring organization or other organization that is responsible for a set of stations that monitor the same pollutant and for which data quality assessments can be pooled.
- Reporting Organization: An entity, such as a State, local, or Tribal monitoring agency, that collects and reports (submits) air quality data to EPA.
- State Agency: The air pollution control agency primarily responsible for development and implementation of a plan under the (Clean Air) Act.



# **AQS** Agency Roles

- Supporting: Site Identifies the agency responsible for the operation of the site.
- Collecting: Monitor Indicates the agency responsible for collecting the samples from a Monitor.
- Reporting: Monitor Indicates the agency responsible for submitting the samples to AQS.
- PQAO: Monitor Agency Responsible for Quality Assurance of the monitor.
- Analyzing: Monitor Indicates the agency responsible for analyzing samples (i.e. laboratory) from a monitor.
- Audit: Monitor Agency responsible for conducting independent audits of a monitor (e.g. PEP & NPAP)
- Certifying: Monitor Indicates the agency authorized to certify the data for a monitor.



# Legacy Access Control (1)

- Screening Groups: An administrative grouping of users with no consistent real-world equivalent.
- Users assigned to one or more screening groups.
- Ownership:
  - Monitors: Owned by a Screening Group
  - Sites: No defined owner.
- Access Control:
  - Monitors: Screening Group of monitor has full access. All others read-only access.
  - Sites: Users assigned to screening group of any monitor at site have full access. All others read-only access.
  - Raw and P&A Data: Users assigned to screening group of monitor have full access. All others read-only access.



# Legacy Access Control (2)

#### Problems:

– Inflexible: Monitor may be assigned to screening group of contractor to allow contractor to submit raw data. The actual real-world owner (State, Tribe, or Local agency) not allowed to access to either monitor metadata or to submit Precision and Accuracy data, or correct/invalidate raw data.



### **Agency Based Access Control**

#### Concept:

- Use the defined roles at sites and monitors to control access.
- Users: A user is assigned to exactly one agency. (Agencies have responsibilities to fulfill roles, and users work for an agency.)
- Definition: Parent Agency: For any agency, allow a "Parent" to be defined for that agency. Example: A local or district agency might have a State Agency listed as their parent agency.
- Status: Implemented for QA transactions and Certification. Planned for all other access.



#### Ownership

- Monitors: New monitor field, Monitoring Agency, that owns monitor.
- Sites: New site field, Owning Agency.



# Site Metadata Access (planned)

- Site Owning Agency has full access
- Site Support Agency has full access
- Parent of either above: Full Access
- All others: read only access
- Applies to:
  - All site metadata
  - Site Sampler
  - Creation of first monitor at site



# Monitor Metadata Access (planned)

- Monitoring Agency: Full access
- Parent of Monitoring Agency: Full Access
- All others read-only
- Applies to: All monitor metadata records



# Raw Data Access (Planned)

- Monitoring Agency: Full access
- Reporting Agency: Full Access
- Analyzing Agency: Full Access (Intermittent method monitors only?)
- Parent of any above: Full Access
- All others: Read-only access
- Note: PQAOs presently have full access. It is expected that this should be dropped in favor of Monitoring and Reporting agency access when the new access control is fully implemented.



### Routine QA Data Access (Implemented)

- Definition: This is all of the new QA
  Assessments except PEP and NPAP
- Monitoring Agency: Full Access
- Reporting Agency: Full Access
- PQAO: Full Access
- Parent of above: Full Access (planned)



### Independent QA Access (Implemented)

- Definition: This includes PEP and NPAP Audits
- Audit Agency assigned to monitor: Full Access
- EPA Regional and Headquarters: Full Access



#### Certification

- Certifying agency: Full Access
- Question: When parent agencies are implemented, does a separate certifying agency add value? (i.e. Should rights to certify a monitor be granted to the PQAO and its parent (e.g. State Agency) instead?)



# Questions and Answers: