

# SOUTHERN CALIFORNIA TRIBAL AIR MONITORING COLLABORATIVE (SCTAMC)

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Presented by SCTAMC

# OVERVIEW

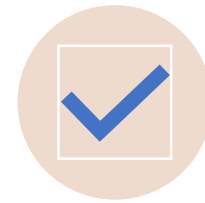
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Description



Collaborative  
Efforts



Level 2 Data  
Validation Project



Questions



Contact Info

# DESCRIPTION

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- SCTAMC started in 2005 as an inter-tribal collaboration to support tribal air monitoring programs
- Objective: to build capacity by providing technical training that will promote monitoring consistency, conserve resources by conducting audits and data validation, and create a strong partnership between Tribal air programs



# COLLABORATIVE EFFORTS

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Meet quarterly and discuss a wide variety of topics (policy, monitoring, trainings, conferences, data review and validation, etc.)



Discuss program successes and failures to learn from one another



Host onsite training's such as equipment maintenance and installation, QA/QC, and audits



Assist in conducting annual equipment audits



Assist in data review and validation



Assist in technical documentation development (QAPP, SOP, etc.)

# LEVEL 2 DATA VALIDATION PROJECT

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Most Tribe's face staffing issues that force them to hire outside contractors for data validation services.



Seeking 5-7 Tribal Air Programs in need of Level 2 Data Reviewer/Analyst.



Provide Level 2 Data Reviewer/Analyst services to Tribe's in need.



Save \$ by reducing the need to hire contractors.

# UTILIZING QREST SYSTEM



- SCTAMC will work with ITEP/TAMS to utilize Quality Review and Exchange System for Tribes (QREST) for Data storage and reviews
  - Documentation upload and storage
  - Allows for multiple users to access data for reviews
  - Tribe can complete reviews and submit data to AQS

Data Review and QREST <sup>1</sup> <i>(Data can be sent to AQS through QREST only after L1 and L2 review is complete)</i>				
QREST Review Stages →	Level 0 (automatic)	Level 1	Level 2	QA Reviewer
USEPA Air Recommendations <sup>2</sup> →	Level 0	Level 1	Level 2	Level 3   Level 4   Level 5
Suggested Schedule <i>(more frequent reviews are appropriate esp after system changes and in larger agencies with adequate staff)</i>	5-m and hourly	Daily when possible, complete L1 review at least monthly	As provided by the L1 Reviewer and at least quarterly	As provided by the L2 Reviewer (quarterly) and annually if part of the Tribal Agency's air data certification process
Example components (as specified in QAPP); each review includes the previous review documentation and adds to it, including documentation of questions/responses between reviewers and all supporting documentation/data	Polled and imported 5-m and hourly records	<ul style="list-style-type: none"> <li>➢ 100% of LD flagged records,</li> <li>➢ Within-site parameter comparisons of hourly, daily, weekly patterns; equipment operations including QC verification, air data "critical/operational" criteria met</li> </ul>	<ul style="list-style-type: none"> <li>➢ 100% of all L1-qualified/null coded or requalified/unnull-coded records, including supporting documentation,</li> <li>➢ Within-region parameter comparisons (downwind sites),</li> <li>➢ QA (external audits and internal oversight) and QC scheduling,</li> <li>➢ trends in QC results and QA/QC completeness over time,</li> <li>➢ corrective action review and documentation, validation package review prior to QA Review</li> </ul>	<ul style="list-style-type: none"> <li>➢ Multiple year comparison (can import historical data from AMP501s),</li> <li>➢ Since the QA Reviewer may or may not be within the Tribal Agency, the QA Reviewer may be responsible for annual data certifications themselves, or may formally advise the Tribal Agency on the annual data certifications, calibration/verification schedule, network design,</li> <li>➢ air data "critical/operational/systematic" criteria met/accounted for/rectified/scheduled</li> </ul>
Tool/Feature for Data Review	L0 criteria, flags in charts and tables	<ul style="list-style-type: none"> <li>➢ Raw Data Review,</li> <li>➢ QC Check and Data Entry,</li> <li>➢ Supporting Doc'n,</li> <li>➢ Level 1 Review Tool</li> </ul>	<ul style="list-style-type: none"> <li>➢ Advanced Data Review (multi parameter comparisons),</li> <li>➢ Monthly Stats (box charts),</li> <li>➢ QC,</li> <li>➢ Supporting Documentation,</li> <li>➢ L2 Review Tool</li> </ul>	<ul style="list-style-type: none"> <li>➢ Advanced Data Review,</li> <li>➢ Monthly Stats,</li> <li>➢ QC,</li> <li>➢ Supporting Documentation,</li> <li>➢ L2 Review Tool</li> </ul>
QREST data access →		Tribal Agency Site Operator	Tribal Agency (QREST) Admin	Tribal Agency QA Reviewer (as assigned by the Tribal Agency)



# LEVEL 1 – FIELD OPERATOR RESPONSIBILITIES



- Equipment Verifications/ Maintenance
  - Completed as required and as needed
- Audits / Calibrations/ Certifications up to date
  - Calendar utilized
  - Ensuring L1 Criteria from Appendix D are met
- Documentation
  - Maintenance logs completed
  - Field sheets are completed
  - Certification records
  - Weather/event documentation
  - Load all logs/info/documentation into QREST etc.
- Data polling
  - Work with ITEP/TAMS to ensure data is being auto-pollled or manually loaded into QREST

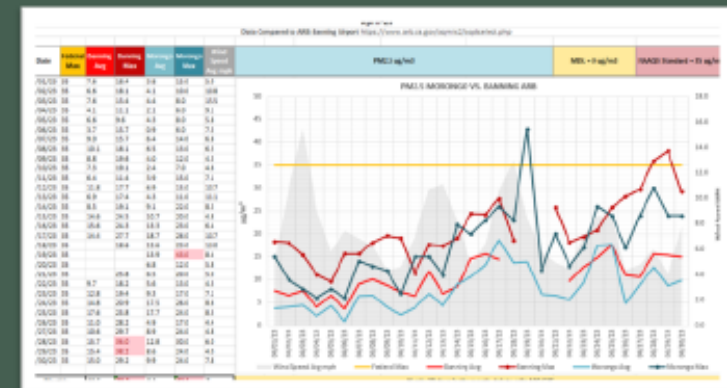
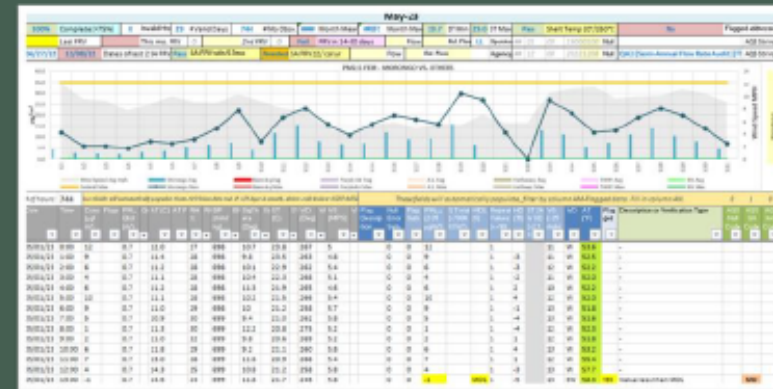


# LEVEL 2 – RESPONSIBILITIES



## Utilizing QREST Data Management:

- Review all provided data and documentation for any Level 1 or data logger generated “flagged” data
  - Ensure parameters meet NAAQS
  - Ensure Appendix D criteria has been met
  - Compare to other sources for outliers and anomalies in data
- Complete Level 2 review checklist package
  - Includes any flagged data reviewed with description of findings
  - Includes recommended AQS flags
  - Includes documentation to support any AQS “Information flags”
- \* Level 2 will not submit any information to AQS on behalf of the Tribe

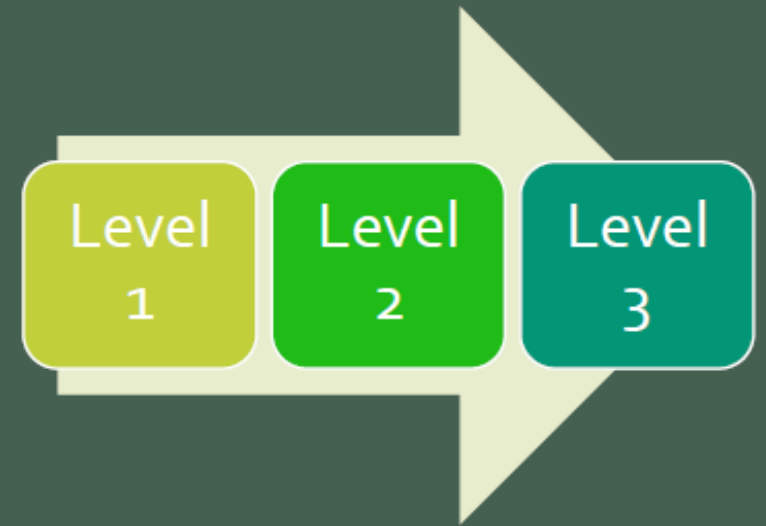




# LEVEL 3- RESPONSIBILITIES



- Review of Level 1 and Level 2 checklists
  - Send any questions or additional information to Levels 1 & 2
- Review of suggested AQS flags
  - Input AQS flags into QREST
- Complete Level 3 Checklist
  - Submit AQS reports
- Download all monthly review packages to preferred storage method



# QUESTIONS?

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# THANK YOU

## Questions?

- Tiffany Wolfe (Pechanga): [twolfe@pechanga-nsn.gov](mailto:twolfe@pechanga-nsn.gov)
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