

Data Management Updates

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Water Quality Planning Division
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Data Management & Analysis Team

- Who we are – Peter, Amir, Sarah, Ivan, David, and Cathy
- What we do – manage data from ‘planning’ to ‘product’
- Review QA docs, validate data, manage IT applications (-> data to EPA)
- SLOC Requests
- Data Correction Requests
- Data Requests
- Metadata Requests
- Field Notebook Verifications
- Data Management Reference Guide (DMRG)

Data Manager by Regions/Program

Data Manager	Regions/Programs
David R Williams	5, 6, 12, 13, 15, SWQM-CO, LIMS
Ivan Cruickshank	1, 4, 10, 14, 16, TMDL, CWQMN
Sarah Kirkland	3, NPS (TCEQ & TSSWCB)
Amir Poursamadi	7, 8, 9, 11, CWQMN
Peter Bohls	Standards, CRP

Resources for Data Management

- Data Management Reference Guide
- Procedures Manuals 1 and 2
- SWQMIS User Guide
- Applicable QAPP
- SWQM Strategy
- Your assigned Project Manager and/or Data Manager
- USGS/IBWC webpages for flow values in cfs; and TWDB webpage reservoir data

DM&A and SWQMIS – what we do

- SWQMIS project – SWQMIS WAP Tool, Viewers, CRP Tool, SAS Server
- Recent work – 4 migrations, SWQMIS/IR data → EPA ATTAINS
- CWQMN – data validated in LEADS → SWQMIS, LRG - TDS daily report
- New accounts in SWQMIS; reset passwords for external users
- Average year:
 - Verifies, validates and/or loads more than 330,000 sample results.
 - Creates 138 new monitoring stations in SWQMIS.
 - Manages over 33.8 million sample results and related metadata.
- QAPP reviews, validate data, DCRs, Field Notebook Reviews + + +

River Data Management

- We are all data managers, depending on role
- Flow – usually reported for river stations **00061 CFS**
- Water Temperature, pH, DO, and Specific Conductivity
- *Salinity – report only if marine/tidally affected station*
- Do not report data if sonde failed post-calibration or if post-calibration was not performed

Meet billy

YouTube video

<https://www.youtube.com/watch?v=L72G8TLtTCk>

He spent 40 years alone in the woods and now scientists love him.

Rocky Mountain Biological Laboratory, Gothic, CO

What is important about billy's data?



The data spans >40 years



Snowfall in the Rocky Mountains affects water for the southwest U.S.



Plot twist...

November 8, 2018

The Colorado Daily Snow Report: “The amount of snow on the ground is up to twice the average amount for early November and Colorado is leading the western US in terms of snowpack.”

How does this affect Texas-SWQM?

Flow should be reported – each field sample set/Tag as 00061 in CFS.

Without Flow as 00061 in CFS the assessors are unable to fully evaluate surface water quality conditions.

If we're having drought or low-flow conditions we still need the flow values to substantiate assessment decisions.

Information Security

- SWQM applications (SWQMIS, WAP Tool, Viewers, Query Tool) are migrated to new servers when we get notified
- Servers have an information security functionality with settings
- Settings are limited to protect servers, applications, and data
- User accounts have 90-day password limits and security levels
- Active accounts with no recent activity will be adjusted (deactivated)
- Recommend **frequent** use of accounts that require logins
- External users contact SWQMIS@tceq.texas.gov for password resets

Questions?

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