## Common Plan Deficiencies

Drew Wagner, PE CPSWQ dwmccd@ptd.net



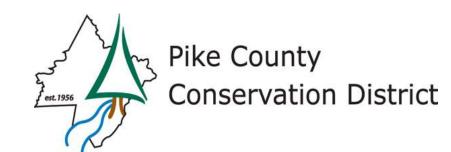




- Completeness
- Technical
- Miscellaneous







### Completeness

- Inconsistent information across the plans, reports, spreadsheets and modules. The plan reviewers should not be your QC.
- Unclear presentation of information.
- In-accurate information provided for the during construction thermal impacts analysis (PCSM vs. During Construction).
- Incomplete pre and post development drainage area plans.
- Completing Table 1 for non PAG-01 sites.
- Incomplete or inadequate soils testing.
- Lack of or incomplete information provided for downstream analysis.
- PNDI conservation measures added to the plans.
- NOT requirements on the plans.
- Module 4 required even if there are no buffer impacts.





#### **Technical**

 Setting up the Volume spreadsheet with inappropriate CNs which causes issues with the water quality spreadsheet.

- Modules
- BMPs not designed to facilitate Operation and Maintenance (O&M).
- Signs of BMP failure not included in the PCSM O&M notes.
- Matting Staple Patterns consistent with printouts
- Critical stage notes reports and photographs
- Footprint / dimensions for subsurface basins
- Label POIs and BMP Numbers consistent with the module.
- Credit of non structural BMPs on the spreadsheets but not showing them on the plan.
- Soil limitations and resolutions not following through to the plans.
- The trigger for E&S O&M is a runoff event not a stormwater event.
- Signatures on the modules





#### Miscellaneous

Permanent protection for Riparian Buffers







# Questions?







Pike County Conservation District