

SCIAD Meeting 11/9/2017

Contents:

Agenda page 2

Meeting Notes..... page 3

Action Items from Meeting page 7

AGENDA

Watershed Watch in Kentucky

Bernheim Arboretum

SCIAD Council Meeting

November 9, 2017

10:00am – 3:30pm

10:00am – 10:30am	Coffee and Intros
10:30am – 11:00 am	Discuss SCIAD Purpose, Goals, and Format
11:00am – 12pm	Discuss/Define Best Practices for the local Basin Science Councils
12:00 pm - 1pm	Lunch: Isaac's
1pm - 1:30pm	Data Collection – Methods assessment
1:30pm – 3:00pm	Reporting – Basin Health Reports, Statewide Report Format/goals
3:00 pm – 3:30pm	Bernheim Arboretum Tour

SCIAD Meeting Notes - (recorded by Joann Palmer)**November 9, 2017 – Bernheim Forest**

Dale Booth (SCIAD Chair), Joanna Ashford (TLGWW), Joann Palmer (State Coordinator for WWKY), Steve Evans (KWRRRI), Mike Kemp (FRWW), Maggie Morgan (chair for WWKY), Mindy Scott (LRWW), Blaine Early (UCWW), Rita Wright (BSWW), Jerry Weisenfluh (KRWW), Chad Doughty (GRWW), Rodney Bruce (BSWW), Karen Schaffer (SRWW), Ritchie Taylor (GRWW).

1. Introductions.

Maggie gave update on WWKY – VEE reserve funding and how WWKY had no strategic planning. Work Plan that WWKY has ever had is now approved and we are working on to move forward. SCIAD needed to be re-energized. KDOW agreed to offer staff (which is Dale Booth) to get this going.

VEE funding is paying for *E. coli* monitoring for basins, 2 SCIAD meetings (Nov 2017 and March 2018), sampling practices, creation of standard science communication materials, data presentation template, basin report card template, advanced basin/state report card.

2. Purpose of SCIAD – in power point.

- **Blaine suggested that SCIAD should be assisting with the methods of what we are sampling for and why. What data points are being monitored?**
- **Mike Kemp said that looking at the area your basin is in that we should look at issues in the watershed for that basin.**
- **Blaine - To advise WWKY on appropriate monitoring objectives and methodologies for objective water quality health in the state of Kentucky. To provide tools to the basin to help get the job done in the basins.**
- **Steve – to provide statewide interpretive and communicative tools that may be used by basins to identify problem areas, directing action planning, inform regulators and guide research goals.**
- **Dale will send out everything to e-vote on the statement.**
- **Karen asked what informed regulatory operators means? Dale's response - This is to make sure our volunteers data is the best quality so KDOW can look at it and use it. Karen would like to see KDOW work with the basin to see what areas are problem areas. Can volunteers call the complaints line and ask for an inspector to look at their area if they have concern?**
- **Steve and Maggie both talked about how to get other partners on board that are also monitoring to meet and discuss water quality issues.**
- **Blaine stated that SCIAD should go thru the WWKY board.**

3. **Term limits? Do the basins want to have term limits on the SCIAD for their basins? We need constant participation. Maggie suggested that each basin recommend 2 individuals from their basin to represent each year.**
 - **Member roles? The basin rep should have a primary and alternate.**
 - **SCIAD materials can be on a webpage for everyone. Collaborate with the other members of the SCIAD upon approval of the WWKY board and basin board.**
 - **Basin Science council – suggested operating policy or layout can help the basin science council.**
 - **Jerry reported that KGS can create a template that the labs can use (excel chart) to have their data to roll directly into the data portal.**
 - **SCIAD Tasks - Training power points – all the basins are using the power points and are modifying their trainings to accommodate their basin.**

4. **Phase 2 training is somewhat complicated – the habitat and bio assessments are important. Blaine would like for us to discuss the importance of the biological assessments.**
 - **Ritchie stated that Maryland Stream Corridor Assessment has the visual assessments and it is good for volunteers. Could have levels of phase 2 – maybe create a Master Sampler phase for those that want to do the more intense habitat-bio assessments.**
 - **Chad stated that the visuals could be used by the MS4 communities. Outcome is for everyone to view the Maryland Assessment and modify it for the volunteers. Chad will create a module and show us at the next meeting.**
 - **Atrazines the basins do not get but 2 or 3 hits and it is not beneficial. Nitrites is another one that does not get very good readings. Dissolved oxygen can be a little lengthy to do but it is beneficial. Steve mentioned a low cost meter that can do the ammonia and other parameters. Rita suggested turbidity field meters cost about \$50 and then the volunteer could do their turbidity reading as they brought it into the lab.**
 - **QAQC should be done as well. Maggie suggested maybe suggesting that the volunteers perform the DO twice and record both readings. All the basins need to do field chemistry and *E.coli* at all 3 events right now because of the VEE grant.**

 - **Scheduled samplings – Joann reported it is usually the 2nd weekend in May, July and September.**

- Rita stated that all the labs use different methods even though they are all EPA methods. Detection limits can be different and this can cause issues for the data managers.
 - Jerry stated that the lab methods are in the data portal for each lab and what they are doing. We could get the labs to give the methods they use each year. He and Steve are going to work on and get back with Dale.
 - We should have this in the contract every year for the lab to provide this to Joann at KDOW. The dilution for *E. coli* should also be in the contract. It should be a 10 to 1 dilution. We want an actual number and not >2000 that could be 50,000 or more.
 - Dale stated that each basin should contact the labs for the methods and dilution they are using. This information should be reported back to her by January 15, 2018.
5. Basin Report card templates – Jerry stated that KGS could produce a Grade for a site on a parameter. The basin report cards can be used for grant funding. The individual site report card will help the volunteer see if their site is getting better or worse.
- Maggie liked the Upper Green example for the basins to produce. But the Chesapeake Bay example would be great for the basin to produce annually to WWKY.
 - Joanna suggested that the report each basin give to WWKY is based on field chemistry and *E. coli*. If they want to report on nutrients and metals they collected they can add that but the bare minimum is field chemistry and *e. coli*.
 - Dale suggested that each of us look at the examples and report back on what we like and how extensive we want to report. The annual report being based on Chesapeake Bay and the basin being the Upper Green report.
 - Dale created the Upper Green report card. The template is done in power point and you can enter information into the text boxes. The maps are done in google maps. She will share the template with us.
 - Steve and Jerry will look at the geo means and report back to us.

- **Basin level year report for your volunteers – Maggie and Karen both have reports they can share. Malissa McAlister needs to be included since she is on the community outreach committee.**

Summary of Action Items from SCIAD Meeting 11/9/17

Assignments:

All Members:

- Review Basin Science Council Guidance and make suggestions, comments. Guidance will be finalized so that it can be given to the Basin Councils at the March Meeting.
- Review examples of final report (Chesapeake Bay Report, or others that you find independently) and create a list of sections that need to be included in a Basin level final report.
- Contact the labs you use and request that they submit a copy of
 - Methods used, including dilutions for E.coli and detection limits (min and max).
 - A list of other methods that they are certified for
 - A list of Flags and their definitions
 - Email to Dale (dale.booth@ky.gov) by Jan 15.
- Report to Basin Councils about
 - SCIAD goals and purpose
 - SCIAD recommendations
 - Standardizing the sampling dates as tightly as possible (2nd weekend in May, July, Sept)
 - The need to sample E.coli at all 3 sampling events this year in order to fulfill the VEE grant requirement

Steve Evans, Jerry Weisenfluh:

- Communicate with Basin Data Managers and KGS to develop a standard electronic spreadsheet format for uploading data to KGS's database.

Chad Doughty and Ritchie Taylor

- Evaluate the MD standards for Visual Habitat Assessment. Come up with a protocol that can be used by volunteers that can support MS4 stormwater goals (website for MD stream program: <http://dnr.maryland.gov/education/Pages/StreamCorridorAssessment.aspx>)

Karen Schaffer, Mindy Scott (?), Steve Evans, and Malissa McAlister (Community Outreach Committee member):

- Collaborate to create a standard data presentation for the Basins to use to communicate data to volunteers.

Dale Booth, Jo Ann Palmer

- Discuss how to build blanks and duplicates into sampling so that QA/QC in field sampling gets addressed

Rita Wright (with assistance from Dale Booth Jo Ann Palmer)

- Develop standard contract between laboratories and Basin groups for sampling that specifies methods to use (including dilutions) and reporting format (which will be the standard electronic spreadsheet that Steve and Jerry are working on)

Dale Booth, Blaine Early, Steve Evans

- Discuss metrics of basin report cards to generate a letter grade that gives volunteers a sense of how their creek ranks and how it is changing over time.