

CHESAPEAKE BAY PROGRAM LAND USE WORKGROUP

Meeting Summary

January 6, 2016
10:00AM-12:00PM

Meeting Materials: <http://www.chesapeakebay.net/calendar/event/23307/>

Actions and Decisions:

ACTION: Peter Claggett will distribute a memo by 1/8/16 on the proposed, revised tree canopy methodology and elimination of TC over scrub-shrub to the Watershed Technical Workgroup, Urban Stormwater Workgroup, Land Use Workgroup, Forestry Workgroup, Modeling Workgroup, and the WQGIT. The decision for approval will be elevated to the WQGIT.

ACTION: Comments from the LUWG on the usability of the phase 6 land use website will be due to Lindsey Gordon (Gordon.lindsey@epa.gov) by 1/15.

- 10:00 **Welcome and introductions/Review of meeting minutes** – K. Berger
- The LUWG GIS team will begin prioritizing tasks moving forward in 2016. High priority tasks include the production and review of the phase 6 land use data, and the development of a 2025 forecasted land use.
 - Meeting minutes from the 12/07/16 were approved.
- 10:10 **Assessing land cover change with high-resolution imagery** – L. Gordon
- Lindsey Gordon presented on the initial methodologies to detect pervious to impervious land cover change using the new high-resolution data.
 - Suggestion to incorporate ancillary data on roads so that they are not filtered out when using thresholding techniques.
 - Karl Berger asked about the time period for detecting and assessing change in the future. Peter replied that this is to be determined, but that since the high-resolution imagery is coming in, the assumption is that the land use mapping will be updated on a 3-5 year basis. The LUWG needs to determine the best way to quantify change through time.
 - Berger: When should we come up with a recommended methodology for doing this?
 - Claggett: The plan is to have a change detection methodology as part of the outcome nailed down by the end of this calendar year. We will also be exploring doing a change detection first to the data, and only updating the areas of change as we go on.

10:30

Presentation on LCMAP annual land change detection – A. Gallant, USGS

- Alisa Gallant, USGS, presented on the LCMAP project on annual land change detection.
- Claggett asked about the timing of production of information for the Chesapeake Bay Region.
 - Gallant: The goal is to have the entire US processed for a first iteration by fall 2017. The hope for this year is to get something for the CBP much sooner, and it's high on our priority list.
- Claggett asked her opinion of using the LCMAP products to only update the areas of change in the high-resolution data.
 - Gallant: I think that's a good strategy to test. The NLCD folks may be using a similar approach.
- Jeff White: Is this something we would use to back-cast in the model?
 - Claggett: Yes – I can see this being used to complement our land cover data series going back to 1984, allowing us to do annual snapshots of land cover. I'm not sure about Phase 6, but I do think that next year we could explore that as an option. I also see these data informing our forecast of future land cover change.

11:00

Proposed New 'Forest' v. 'Tree Canopy' Mapping Protocol - P. Claggett

- Peter Claggett gave a brief presentation on a proposed new mapping protocol to differentiate between forest and tree canopy classes, using the first high resolution data available on a county scale, which is from Prince George's County, Md
- Jeff White asked if this methodology, and the elimination of TC over scrub-shrub as a land cover class, would need approval from the WQGIT. Karl Berger agreed that it may need to be raised to the WQGIT for approval.
- James Davis-Martin expressed concern about the consequences of changing the classification method on the number of acres in each land classification category as well as what would happen if the WQGIT ultimately does not approve tree canopy as a separate loading class(es) and the tree canopy land classes default to their underlying land uses.
- There was a lot of discussion about the implications of adjusting the TC over turf and TC over scrub-shrub classes.
- Sally Claggett noted that the expert panel for TC was only considering urban areas; therefore, there will not be a separate loading class for tree canopy over scrub-shrub/open space
- The members directed staff to produce a memo describing the existing and proposed methods for differentiating these classes and, using the high resolution data from Prince George's County, document the consequences of these methods on the total acreage in the Phase 6 land use classes.
- Karl Berger noted that the memo should state that the LUWG will proceed with the methodology absent any significant comments, and it should include a time frame for resolving any issues.

- James Davis-Martin noted that the memo should also be communicated to the group that is tasked with developing loading rates for those classes.

ACTION: Peter Claggett will distribute a memo by 1/8/16 on the proposed, revised tree canopy methodology and elimination of TC over scrub-shrub to the Watershed Technical Workgroup, Urban Stormwater Workgroup, Land Use Workgroup, Forestry Workgroup, Modeling Workgroup, and the WQGIT. The decision for approval will be elevated to the WQGIT.

11:00 **Update on local review of high-res land cover of Phase 6 land use data – P. Claggett**

- Peter Claggett updated the workgroup on the production and review of high res land cover data and the final Phase 6 land use data. Included will be a briefing on upcoming webinar sessions and a discussion about the Phase 6 land use review website.

ACTION: Comments from the LUWG on the usability of the phase 6 land use website will be due to Lindsey Gordon (Gordon.lindsey@epa.gov) by 1/15.

11:30 **Review of December WQGIT Actions and Decisions – K. Berger; P. Claggett**

- Karl Berger directed the LUWG to review the actions and decision items from the WQGIT's December 2015 meeting. They have been posted to the calendar event page for this meeting.

11:50 **Confirmation of signatory membership – K. Berger**

- The LUWG will continue working to get representation from U.S. EPA, New York, and Pennsylvania on the official membership.

12:00 **Adjourn**

Next meeting: February 3rd, 2016

Topics for next meeting:

- Full discussion on the jurisdiction's review process of the Phase 6 land cover data, and update from Peter Claggett on status and progress of that review.

Participants:

Lindsey Gordon, CRC Staff
 Peter Claggett, USGS
 Karl Berger, MWCOG
 James Gregory, DNREC
 Marian Norris, NPS
 Jeff White, MDE
 Ed Davis

Megan Grose, WVDEP
Shannon McKenrick, MDE
Bill Keeling, VA DEQ
Greg Evans, VA Dept. of Forestry
Kevin Burns, VA Dept. of Forestry
Kristy Woodall, VADEQ
Sharon Baumann, DoD CBP
Sebastian Donner, WVDEP
Stephanie Martins, MDP
Steve Stewart, Baltimore County
Erik Fisher, CBF
Dorothy Morris, Office of State Planning
Chris Brosch, DNREC
Clint Gill, DNREC
Darold Burdick, Fairfax Co
Jonathan Champion, DCDOEE
George Onyullo, DCDOEE
Nate Herold, NOAA
Norm Goulet, NVRC
Katherine Antos, EPA Region 3
Sally Claggett, USFS
Alisha Mulkey, MDA
Quentin Stubbs, USGS