

Phase 6 Land Use Viewer

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November 9, 2015

Water Quality Goal Implementation Team Meeting
Annapolis, Maryland

Overview

Next Steps

Overview of the Viewer

Examples

Next Steps

1. Discuss the purpose, audience, and design of website.
2. Identify the primary user tasks and goals
3. Develop focus group to review draft CBP Phase 6 website.
4. Provide names of 5-10 users that would be willing to participate in the test.
 - Website usability study proposed for PA
5. Host webinar presenting Phase 6 Land Use website, data review methodology, CBP expectations, and review schedule
6. Finalize the reviewer contact list for all counties.

Purposes

- Familiarize with Phase 6 regional, county, and overlay layers
- Conduct a technical review by providing location specific comments
- Download data

Target Audiences

- **Technical (review):**
 - Planning and GIS staff
- **Secondary (awareness):**
 - State government (DCED, DCNR, DEP)
 - County Conservation Districts (need AG community involved)
 - PDC's
 - Soil Conservation Districts
 - MWCOG

What do you expect users to be able to accomplish on the site?

- View data and compare with aerials
- Comment on data for specific places
- Submit comments
- Download data
- Ask focus group what else they would like to do with the site

Conduct a Training Workshop

- Members should represent a broad spectrum of technical capability/familiarity.
- Request in-person attendance at DEP's South-central regional office with parking and 24 computers
- Time commitment = 90min.
- Remote option - a different focus group connecting via webex or adobe connect.
- Recommend test using different web browsers

Host a Webinar with Reviewers

- Update of Phase 6 LU project
- Benefit of the data sets
- Expectation of reviewers
- Address any issues raised by focus groups.
- Briefly review purpose of project and the relevance to TMDL and relevance to local decisions
- Describe land use/cover data being developed and merged with locally provided data. Highlight the utility of the high-res data for local decisions-irrespective of the TMDL

Webinar (cont'd)

- **Overview of the review process**
 - What type of feedback is needed
 - How to provide feedback
 - When to provide feedback
 - Who will and can review the data
 - How will comments be addressed
 - How will counties obtain the data

Chesapeake Bay Phase 6

LAND USE VIEWER

Features



Zoom and Pan



Previous/Next Extent



Information (about the county)

XY

Comment

X,Y coordinate marker for comments

■ Overlay Transparency Bar

Overlay Transparency:



Data Acquisition (Under Construction)

- Download
- Permalink

Map Layers

- National Phase 6
 - Local and Regional Methodologies
- County Phase 6
- Overlays
- Base Map

Map Layers

▼ National Phase 6

Click [here](#) to see Phase 6 Local Land Use Methodology

Click [here](#) to see Regional Mapping Methodology

Click on the layer name to get information about the layer

- ☐ Developed
- ☐ Impervious Roads
- ☐ Impervious Non-Roads
- ☐ Forest
- ☐ Tree Canopy Over Herbaceous
- ☐ Water
- ☐ Wetlands
- ☐ Turf Grass
- ☐ Open Space

► County Phase 6

▼ Overlays

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- ☐ CSOs
- ☐ Sewer Service Areas
- ☒ Chesapeake Bay Watershed Counties

▼ Base Map

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Chesapeake Bay Watershed Counties

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100 km 100 mi -71.65078, 42.43371

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Examples

- **National Phase 6 Layer**
 - Cambridge, MD
- **National Phase 6 + Overlay Layers**
 - Washington, DC
- **Lat/Long Comment Tool**
 - Annapolis, MD

National Phase 6

CAMBRIDGE, MD

Cambridge, MD

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Cambridge, MD – Route 50 & Choptank R.

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Developed Areas

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Impervious Roads & Non-Roads

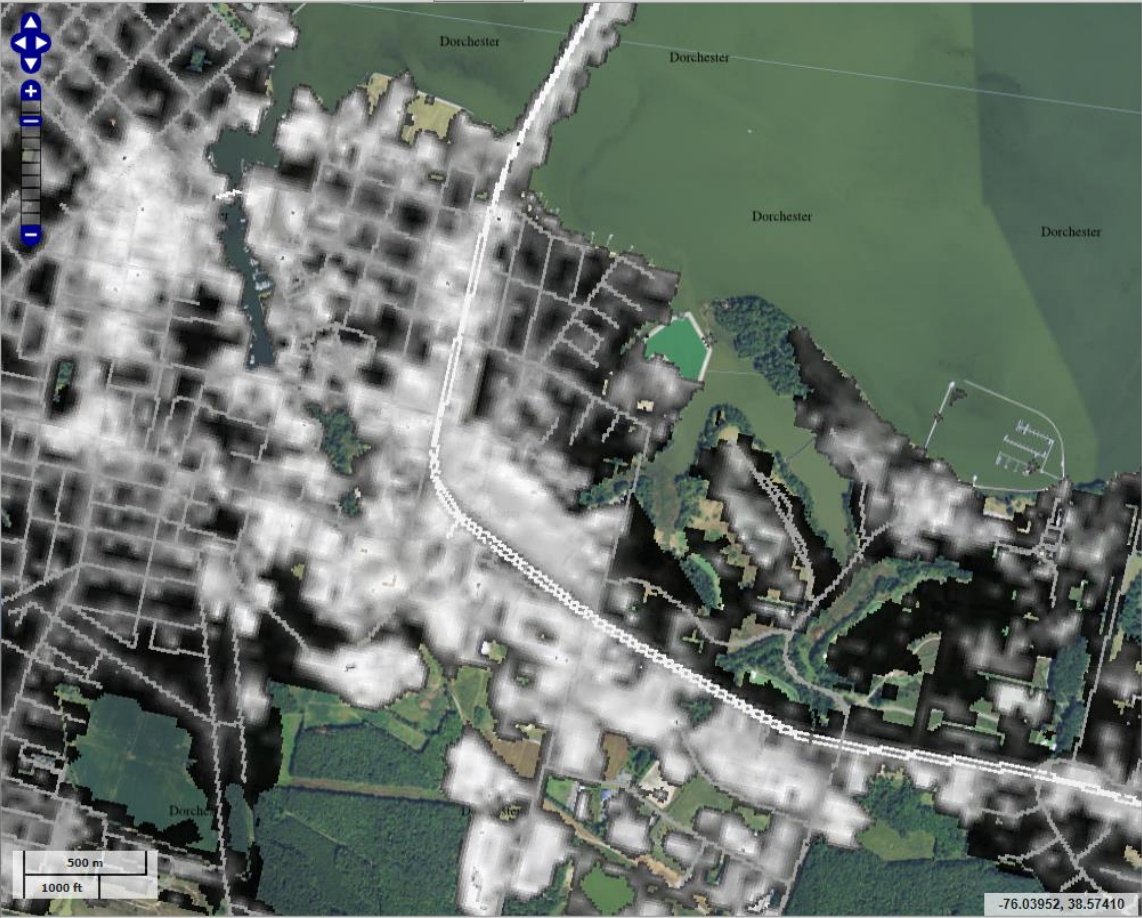
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Tree Canopy Over Herbaceous

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County Phase 6

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Forest, Water, & Wetlands

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Turf Grass

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National Phase 6 + Overlays

WASHINGTON, DC

SE/SW Washington, DC

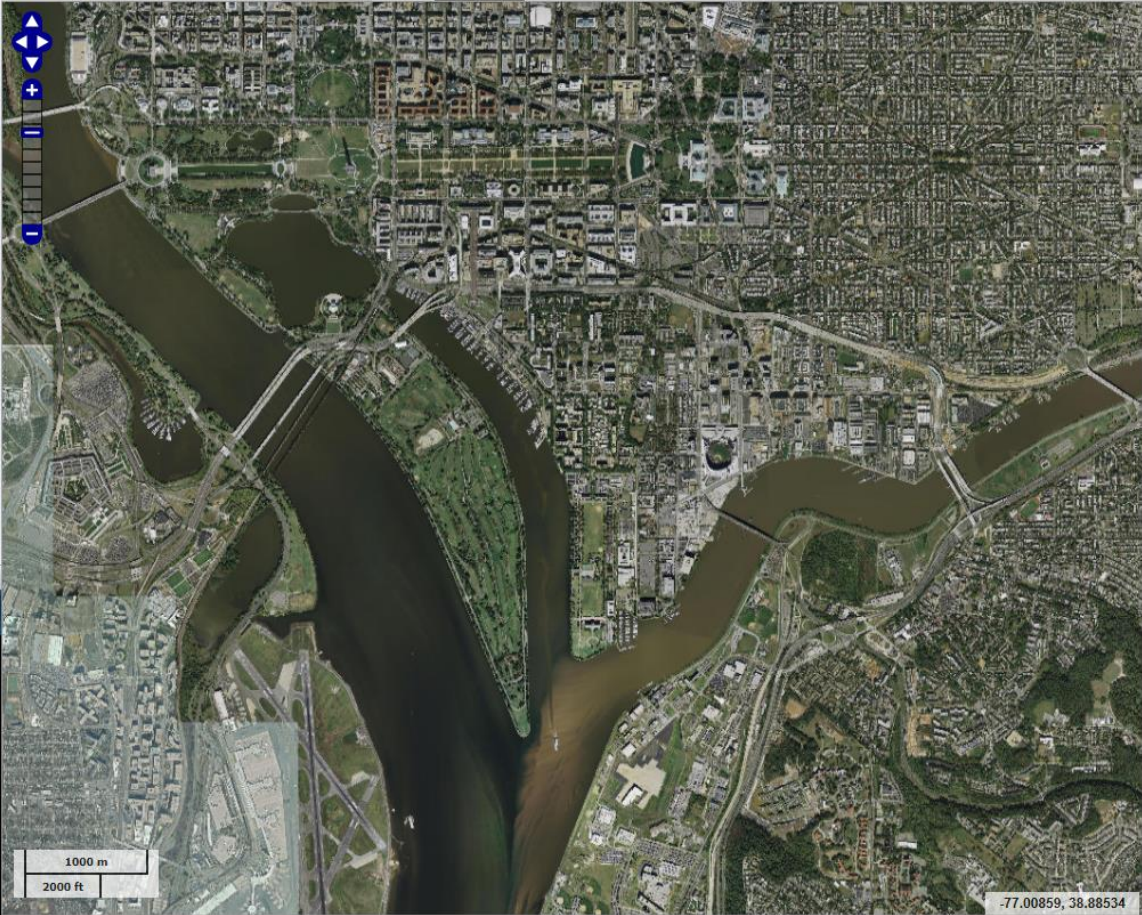
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Federal Facilities


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Land River Segments

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MS4's & CSO's


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Sewer Service Areas

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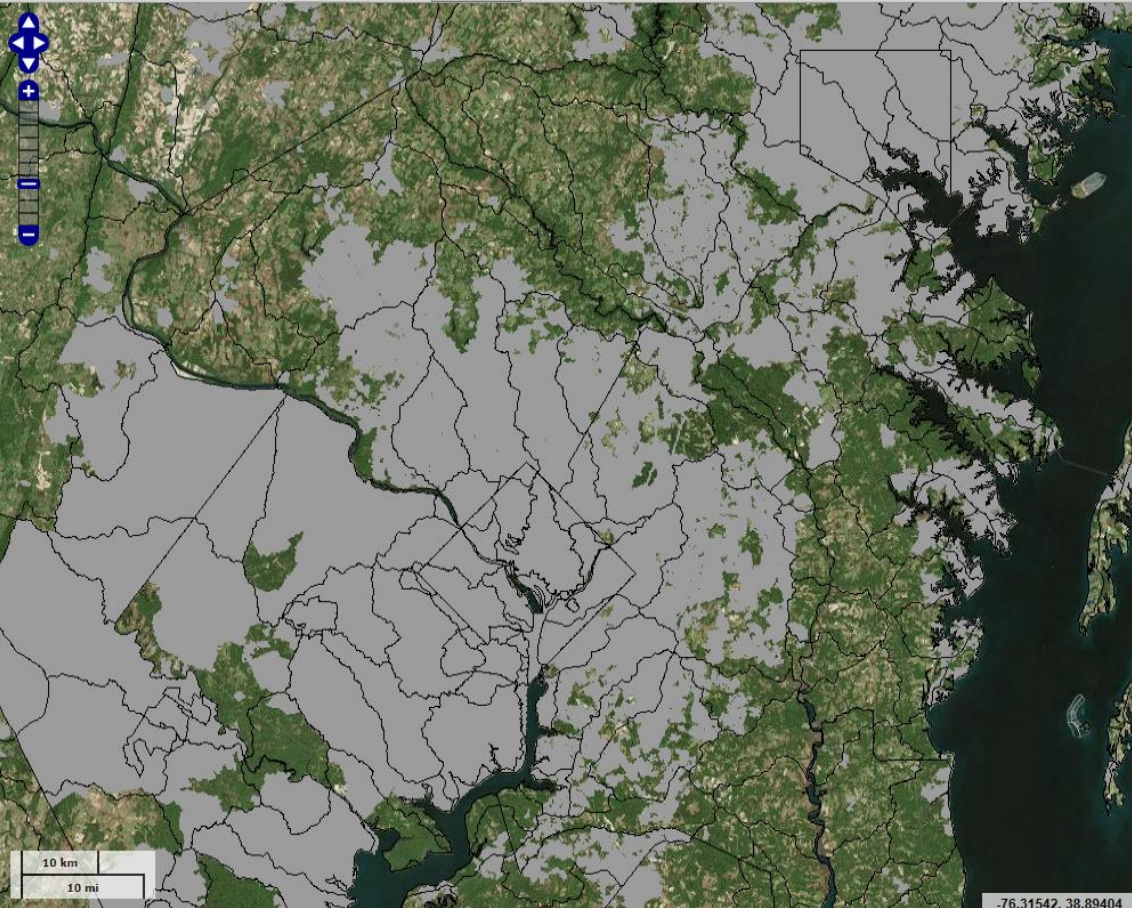
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- ☐ USA Topo Maps
- ☐ ESRI Topo
- ☒ ESRI Imagery
- ☐ ESRI Street Map
- ☐ ESRI Light Gray Base Map

10 km
10 mi
-76.31542, 38.89404

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Lat/Long Comment Tool

ANNAPOLIS, MD

Annapolis, MD – Naval Academy & CBPO

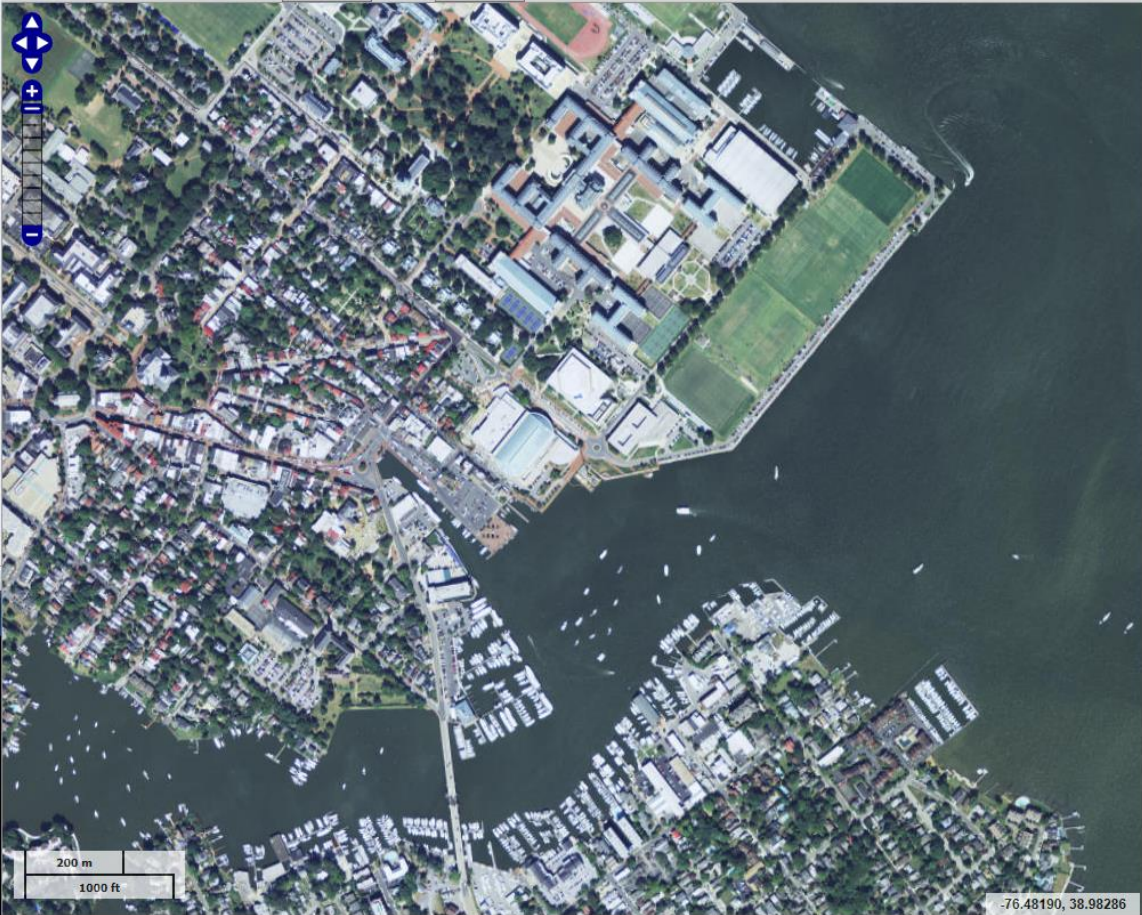
http://ec2-52-4-30-207.compute-1.amazonaws.com/chesbay/ Chesapeake Bay Phase 6 La...

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Map Layers

▼ National Phase 6
Click [here](#) to see Phase 6 Local Land Use Methodology
Click [here](#) to see Regional Mapping Methodology
Click on the layer name to get information about the layer

- ☐ Developed
- ☐ Open Space
- ☐ Impervious Roads
- ☐ Impervious Non-Roads
- ☐ Forest
- ☐ Tree Canopy Over Herbaceous
- ☐ Turf Grass
- ☐ Water
- ☐ Wetlands

► County Phase 6

▼ Overlays
Click [here](#) to see Phase 6 Local Land Use Methodology
Click [here](#) to see Regional Mapping Methodology
Click on the layer name to get information about the layer

- ☐ Federal Facilities
- ☐ Phase 6 Land-River Segments
- ☐ Municipal Separate Storm Server Systems
- ☐ CSOs
- ☐ Sewer Service Areas
- ☐ Chesapeake Bay Watershed Counties

▼ Base Map

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- ☒ ESRI Imagery
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- ☐ ESRI Light Gray Base Map

200 m
1000 ft
-76.48190, 38.98286

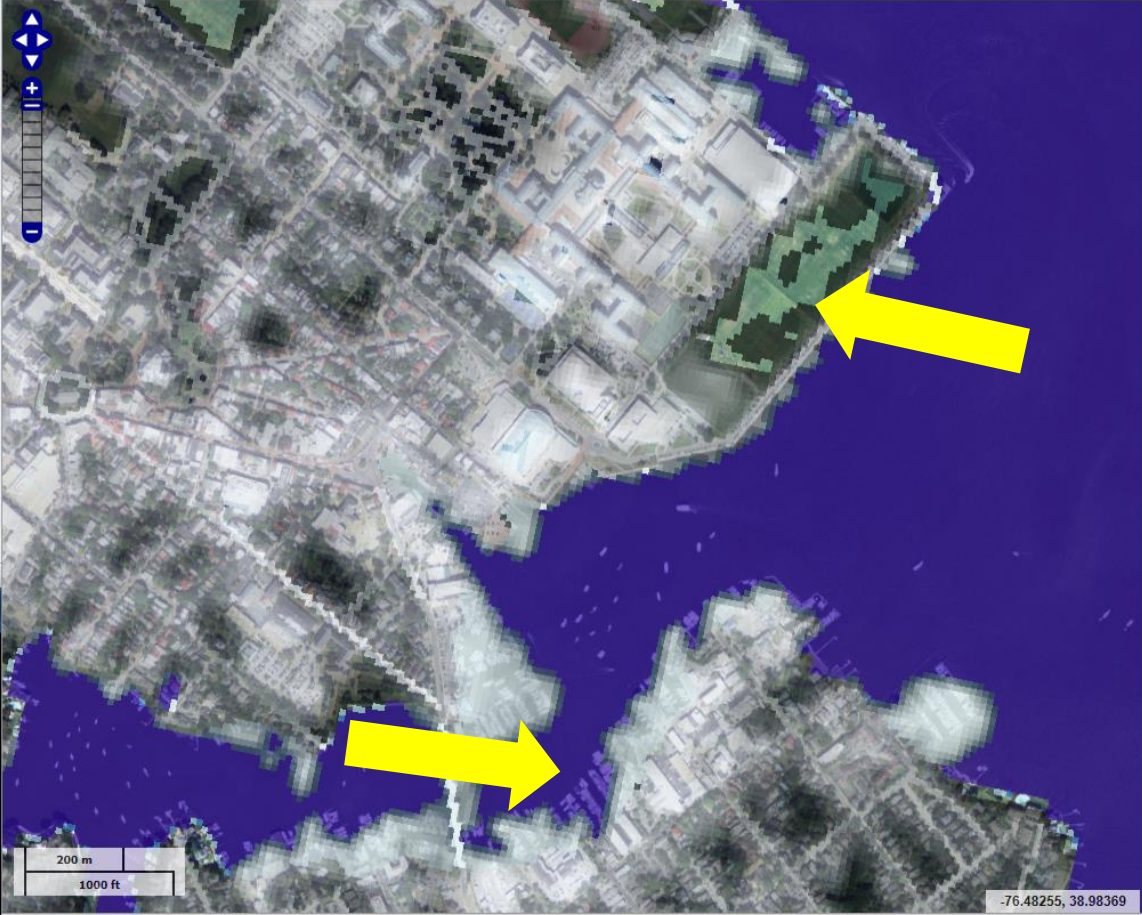
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200 m 1000 ft -76.48255, 38.98369

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amazonaws.com needs some information

Script Prompt:
Submit Comment on 38.97880, -76.48021:
Is this classified correctly as Open Space?

OK
Cancel

200 m
1000 ft
-76.48802, 38.98406

Map Layers

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County Phase 6

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Questions/Comments



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Chesapeake Bay Phase 6 Land Use Viewer Contact Page

Questions/Comments

Your e-mail address*

Name

County

Organization

Subject

JohnDoe@commission.net

John

Does

Ommission/Commision Inc.

Phase 6 Land Use Comments

Message*

38.97889,-76.48023,Why is the classified as Open Space?
38.97246,-76.48306,Are docks considered impervious on-roads?
38.98049,-76.47856,Shouldn't the entire rec field area be classified as Turf Grass?
38.97255,-76.47523,Needs vaildation as Truf Grass

Please only click once!
You will get a page in
response.

Send message

* Required field. We need your e-mail address to reply to you! See our [Privacy Statement](#).

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Page Contact Information: dstrong@usgs.gov

Page Last Modified:



Next Steps

- Focus groups to review Phase 6 Land Use Data website.
- Update Phase 6 Land Use website.
- Host webinar presenting Phase 6 Land Use website, data review methodology, CBP expectations, and review schedule.
- Begin synthesizing high-res land cover and local land use data for final land use dataset (P6LU_v3).
- Reconcile CBP and MDE/MDP land use classification and aggregation methodologies (Pilot County: PG County, MD)

Extra

P6 Land Use Development and Review Schedule

May 2015	Complete regional land use dataset using nationally available data: Phase 6 Land Use Database v1 (P6LU_v1).
Aug - Sep 2015	Rolling jurisdictional <u>proof-of-concept</u> review of how CBP is using their data.
Sep 1, 2015	Deadline to incorporate local land use/cover data. Submit P6LU_v2 to CBP Modeling Team.
Oct 15 – May 16	Incorporate additional local data and high-res land cover into P6 Land Use Database, version 3 (P6LU_v3).
Jan – Jul 2016	Rolling jurisdictional review of P6LU_v3 and CBPO response to comments.
Aug 2016	Finalization of P6LU_v3 database (1985 – 2014)
Sep 1, 2016	Submit P6LU_v3 database to CBP Modeling Team

P6 Land Use Database Versions

Version 1 (July 2015)

- Based on national/regional data
- Includes updated sewer/septic estimates

Version 2 (October 2015)

- Incorporates some local land use/cover data
- Includes multiple wetland classes
- Includes proportions of crop and pasture/hay by LRSEG

Version 3 (August 2016)

- Incorporates local land use/cover data
- Incorporates high-resolution land cover, everywhere
- Includes new sediment delivery factors
- Includes wetland efficiencies
- Extensively reviewed

Land Use vs. Land Cover

- Low-density Residential
- Transportation
- Agriculture
- Rural conservation

- Impervious surfaces
- Tree canopy
- Herbaceous
- Barren

Phase 6 Land Uses

- Impervious-Roads
- Turf Grass
- Open Space
- Agriculture space

Phase 6 Land Uses – version 2 (P6LU_v2)

Primary Sectors:

- Agriculture
- Developed
- Natural

Overlays:

- Developed Areas
- Federal Agency Lands
- Combined Sewer Overflows (CSS)
- Municipal Separate Storm Sewer System (MS4)
- Wastewater Sewer Service Areas