



CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES



The City of Richmond Department of Public Utilities Land Use Committee Meeting

Jonét Prévost-White
February 21, 2017

Chesapeake Bay Map Revision

Timeline

- **March 18, 2015** met w/ GIS analyst to update ChesBay map
- March 16, 2016 DEQ Notice of State Prgm Review Changes
- April 1, 2016 Met with City Attorney to discuss ChesBay map update O & R
- **June 29, 2016** Map Update O & R was drafted
- March 3, 2017 given notice of proposed Program Review
- Ches Bay Program Review: scheduled for **March 30, 2017**

Locality: _____

PART I
Elements of the Local Program (§ 9 VAC25-830-60)

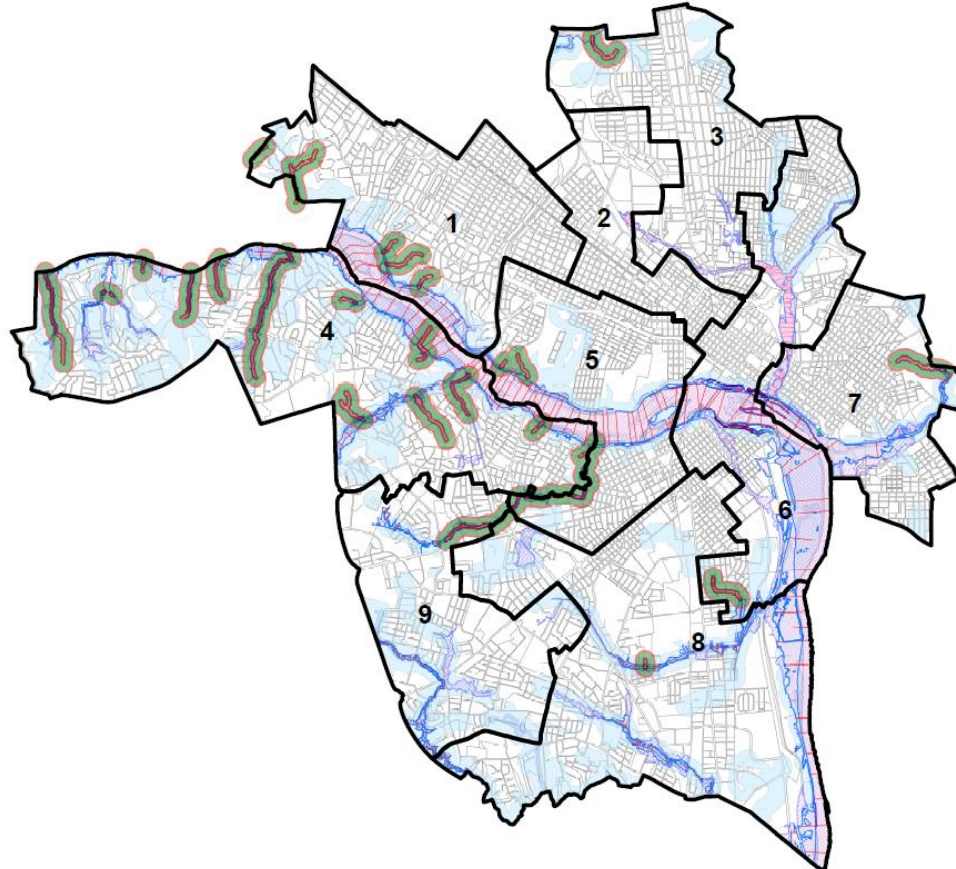
The *Regulations* require local governments to "develop measures...necessary to comply with the Act and this Chapter." Among the measures that are required to be in place at the local level are the elements listed in § 9VAC25-830-60. These elements are to be examined for consistency with previous Chesapeake Bay Local Assistance Board (Board) approvals; to determine if changes to the program element have been made but not yet reviewed; and, evaluated to determine how each element is used in administering the local Chesapeake Bay Preservation Act program.

A. Chesapeake Bay Preservation Area Map - § 9VAC25-830-60 1












1. Does DEQ have a digital and/or hard copy of this CBPA Map?
Digital Hard copy
If DEQ does not have a copy of the most current CBPA map, one must be obtained.
2. When was the CBPA map approved by CBLAB?
3. What is the date of the most current version of the locally adopted CBPA Map?
4. Have there been amendments or revisions to the map that require DEQ approval that have not received that approval?
Yes No
If "Yes", list them:
5. Is the map a general representation of CBPA lands, or is the CPBA map used as the final determining factor of CBPA locations?
Is the RMA shown on the map?
6. Are revisions to the CBPA map incorporated into the Plan of Development review process such that applicants are provided the most current information possible on the general location of CBPA lands?
Yes No
7. Do updates to the CBPA map require local Board or Council approval?
Yes No
8. Are there any inconsistencies between the map and the local CBPA ordinance?
Yes No
If "Yes", list them:

Chesapeake Bay Map Revision

City of Richmond, DPU, Chesapeake Bay Map Update - 2016

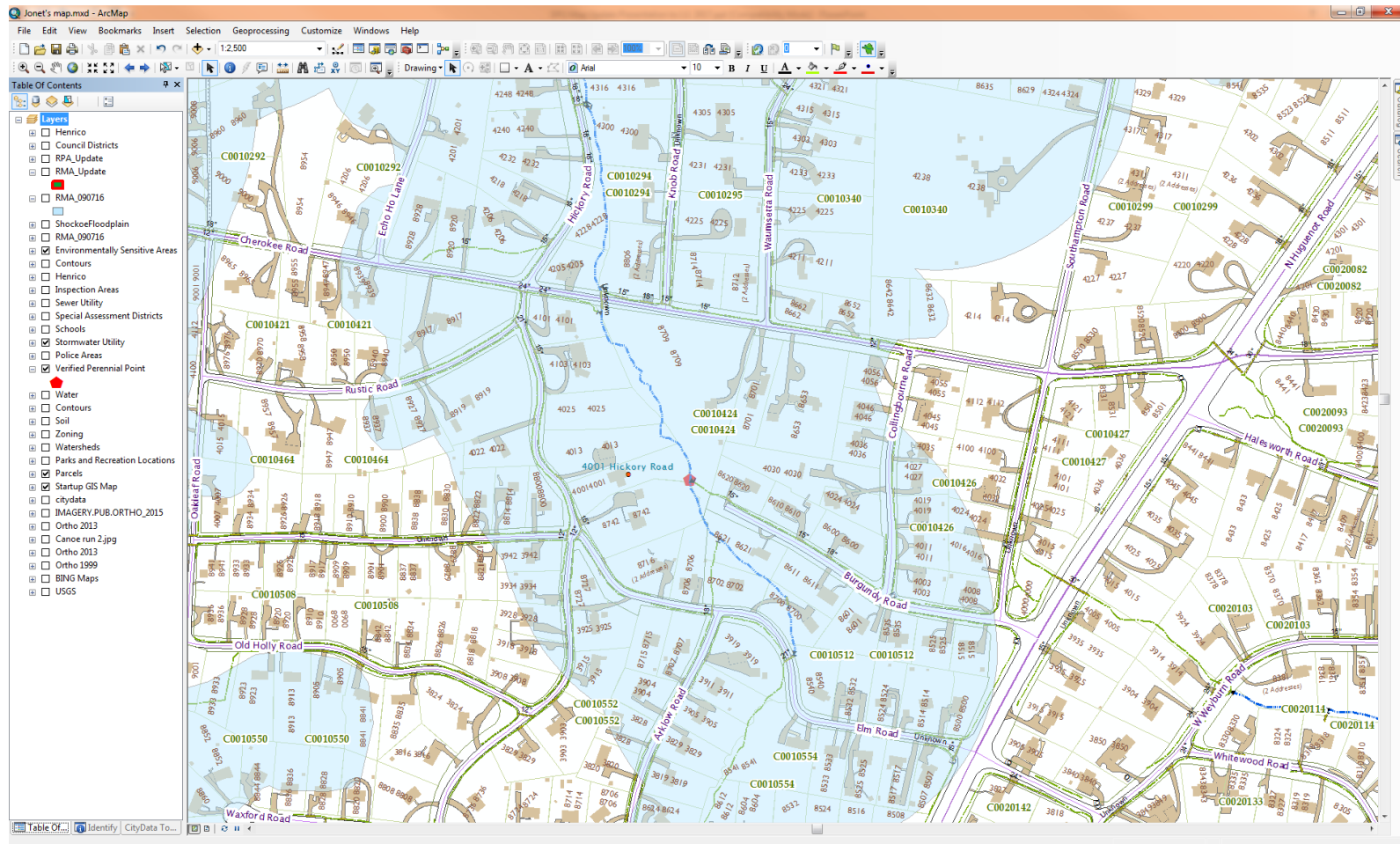


Legend

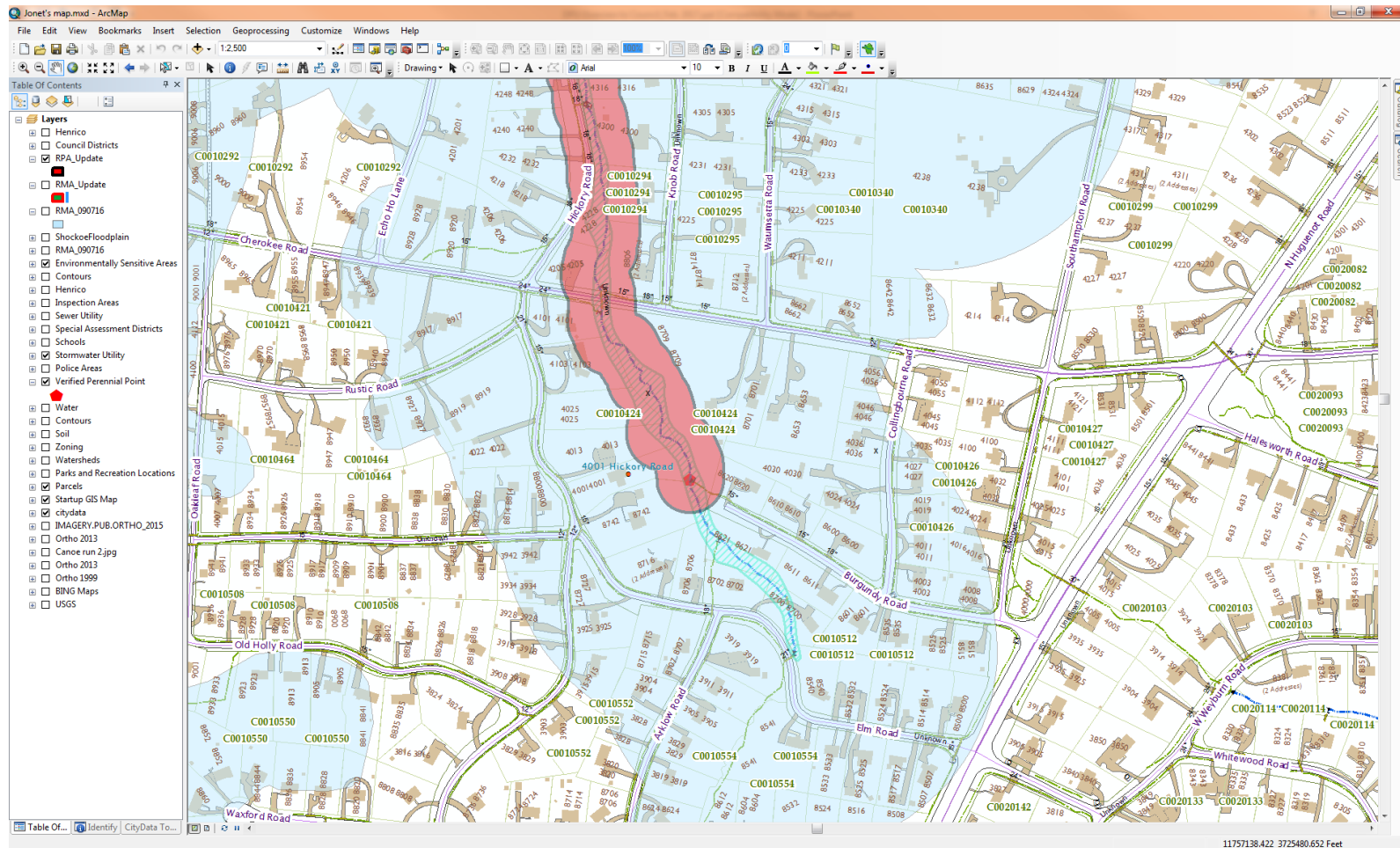
-  Council Districts
-  RPA_Update
-  RMA_Update
- fema_DFIRM**
- FLD_ZONE_Revised**
-  Zone AE: Floodway Areas
-  Zone AE: 1% Annu. Chance FLD (Base FLD Elev) (100 yr)
-  Zone A: 1% Annu. Chance FLD (No Base FLD Elev) (100 yr)
-  Zone X: 0.2% Annu. Chance FLD (500 yr)
-  Zone X: 0.2% Protected by Levee (500 yr)
-  Zone X: Outside 0.2% Annu. Chance FLD
-  Intensely Developed Areas
-  Resource Protection Area
-  Resource Management Area



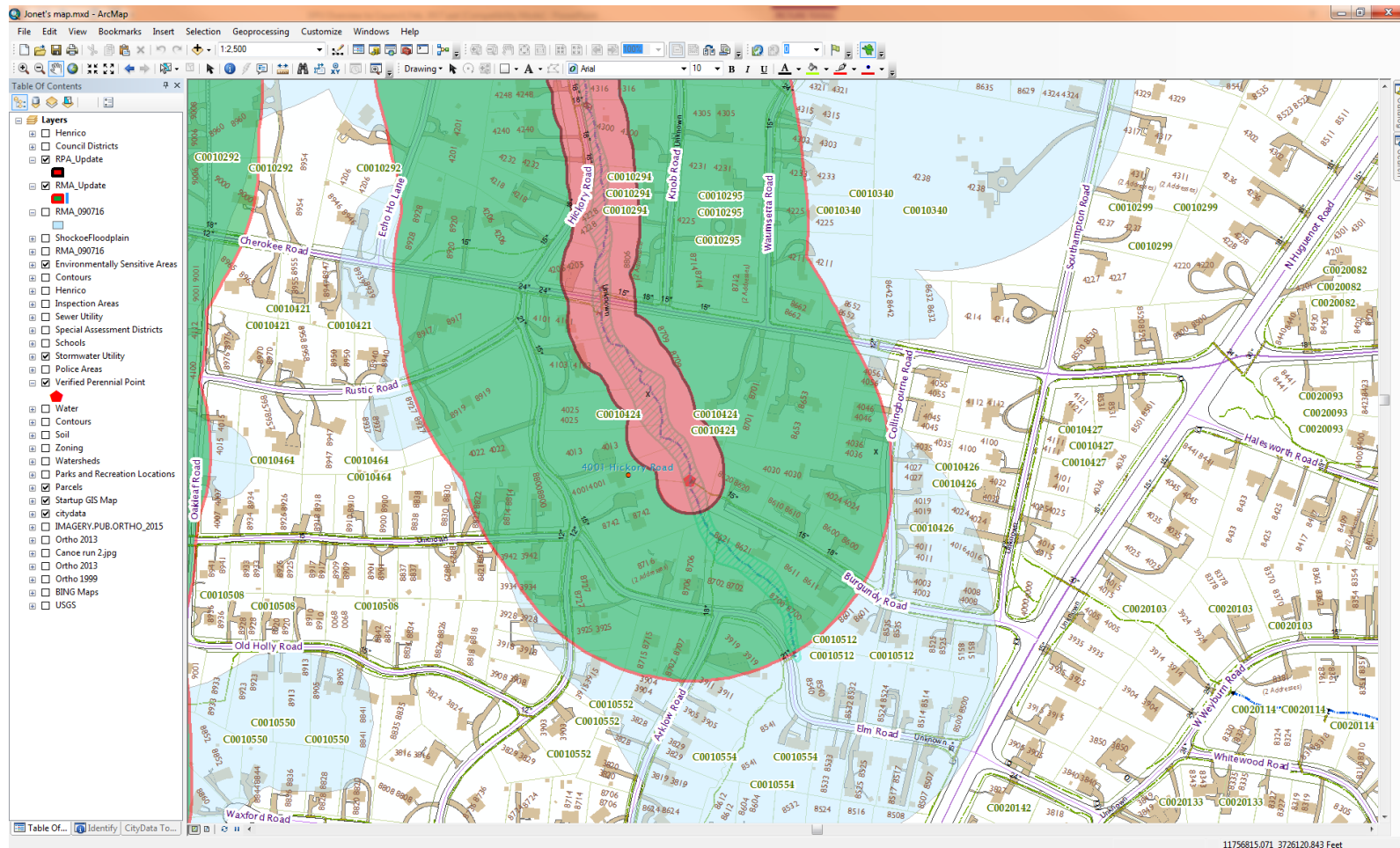
Chesapeake Bay Map Revision



Chesapeake Bay Map Revision



Chesapeake Bay Map Revision



Natural Gas • Water • Wastewater • Stormwater • Street Lighting

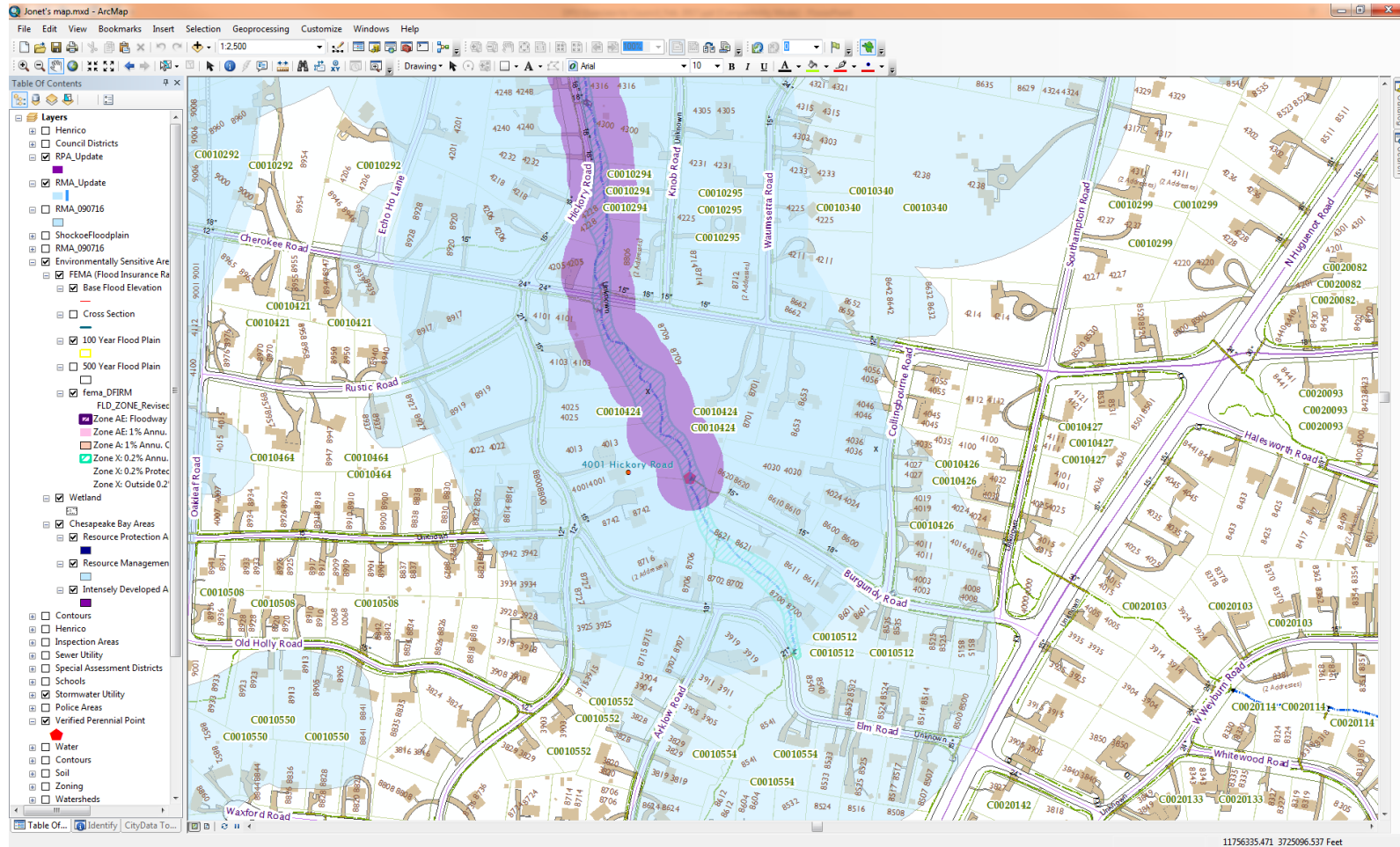
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Chesapeake Bay Map Revision



North Carolina Division of Water Quality Stream Identification Form

Date:	1/30/2013	Project:	C1100538	Latitude:	
Evaluator:	STP	Site:	4001 Hickory Road	Longitude:	
Total Points:	38	County:	Richmond	Other:	
Stream is at least intermittent if at least 19 or perennial if at least 30.					
Stream Name: Bon Air					

A. Geomorphology (subtotal= 17.5)	Absent	Weak	Moderate	Strong
1. Continuous bed and bank	0	1	2	3
2. Sensitivity	0	1	2	3
3. In-channel structure: riffle-pool sequence	0	1	2	3
4. Soil texture or stream substrate sorting	0	1	2	3
5. Achthonetic floorplan	0	1	2	3
6. Depositional bars or benches	0	1	2	3
7. Braided channel	0	1	2	3
8. Recent alluvial deposits	0	1	2	3
9. Natural levees	0	1	2	3
10. Headcuts	0	1	2	3
11. Grade controls	0	0.5	1	1.5
12. Natural safety or drainage way	0	0.5	1	1.5
13. Second or greater order channel on existing USGS or NRCS map or other documented evidence	No = 0			Yes = 3

B. Hydrology (subtotal= 7.5)	Absent	Weak	Moderate	Strong
14. Groundwater flow/discharge	0	1	2	3
15. Water in channel and >48 hrs since rain, or Water in channel - dry or growing season	0	1	2	3
16. Leaf litter	1.5	1	0.5	0
17. Sediment on plants or debris	0	0.5	1	1.5
18. Organic debris lines or piles (Wreck lines)	0	0.5	1	1.5
19. Hydric soils (redoximorphic features) present?	No = 0			Yes = 1.5

C. Biology (subtotal= 9)	Absent	Weak	Moderate	Strong
20. Fibrous roots in channel	3	2	1	0
21. Rooted plants in channel	3	2	1	0
22. Cowfish	0	0.5	1	1.5
23. Bivalves	0	1	2	3
24. Fish	0	0.5	1	1.5
25. Amphibians	0	0.5	1	1.5
26. Macroinvertebrates (note diversity and abundance)	0	0.5	1	1.5
27. Filamentous algae, periphyton	0	1	2	3
28. Benthic macroinvertebrates	0	0.5	1	1.5
29. Wetland plants in streambed	FAC=0.5 FACW=0.75; ORL=1.5 SAV=2.0			
	Other = 0			

*Items 20 and 21: focus on the presence of riparian plants. Item 28 focuses on the presence of aquatic or wetland plants.

Deputy W. Stremmel
Secretary of Natural Resources

DEPARTMENT OF CONSERVATION AND RECREATION
4001 Hickory Road - City of Richmond, Virginia
Phone: (804) 224-0400 FAX: (804) 224-0401

February 6, 2013

Stream Plan
City of Richmond, Department of Public Utilities
Water Resources Division
730 East Broad Street, 6th Floor
Richmond, Virginia 23219

RE: Perennial Flow Determination Confirmation
4001 Hickory Road - City of Richmond, Virginia
Latitude: 37°33'06.1"N Longitude: 77°37'14.6"W

Dear Stewart:

This letter is in response to your request for technical assistance to the City of Richmond with a perennial flow determination (PFD) confirmation. The purpose for the field inspection was to confirm the findings of a PFD conducted by Balzer and Associates, Inc. (Balzer) on the stream channel that represents the eastern property boundary of an undeveloped lot at 4001 Hickory Road in the City of Richmond, Virginia.

The streambed substrate and the surrounding landscape were observed during the site visit. After reviewing the materials submitted by Balzer and conducting an onsite inspection, the Division concurs with the perennial flow determination. The 4001 Hickory Road RPA Determination Plan (dated January 30, 2013) is deemed an accurate representation of the natural resources present within the project area.

Should you have any further questions or need additional assistance, please do not hesitate to contact me at 804.371.6221 or Nathan.Hogler@dcwr.virginia.gov.

Sincerely,
Nathan W. Hogler
Watershed Specialist

cc: Shanna Smith - City of Richmond Liaison, DCR-DWDM
Steve Parks - Stormwater Management - Outdoor Recreation Planning
Nathan Hoggins - River Safety and Floodplain Management - Land Conservation



February 7, 2013

S. Taylor Goodman, P.E.
Balzer and Associates, Inc.
18171 City View Drive, Suite 200
Middleham, VA 23113

RE: Perennial Flow Determination Confirmation
Project Name: 4001 Hickory Avenue
CDPNO# 8826

Dear Mr. Goodman,

At the request of the City, a field determination was made by the Division of Chesapeake Bay Local Assistance (DCBLA) on February 4, 2013, to verify the findings presented in this report prepared by Balzer and Associates, Inc. dated January 30, 2013.

By letter dated February 6, 2013, DCBLA agreed with the perennial flow determination as presented in that report and, therefore, the City of Richmond confirms the stream assessment affecting this proposed project.

The limits of the determinations are as shown on the attached map; (Virginia State Plane Coordinates: Latitude: 37°33'06.17"N Longitude: 77°37'14.57"W). The RPA boundary shall be 100 feet in width, adjacent to and landward of the perennial stream bed. The RMA limit shall be 500 feet in width and parallel to the RPA limit.

If you have any further questions, please do not hesitate to call me at 804-646-6956.

Sincerely,
Jared Prevost-White
Operations Manager
Water Resources, DPU

- Attachment: 1. Letter from the Department of Conservation and Recreation
2. Site Map (Balzer and Associates, Inc. 1/30/13 map "4001 Hickory Road - Perennial Stream/RPA Determination)



January 30, 2013

Mr. Stewart Platt
DPU - Water Resources Division
730 E. Broad St.
Richmond, VA 23219
(804) 646-6956

RE: Perennial Flow Determination - 4001 Hickory Road, Richmond, VA
Project No. C1100538

Mr. Platt:

Balzer & Associates, Inc. visited the referenced site to perform a Perennial Flow Determination on January 30, 2013 at approximately 1:00 pm in order to determine the presence and to any potential Resource Protection Areas (RPAs). The site was evaluated in accordance with North Carolina Division of Water Quality Identification Methods for the Origins of Intermittent/Perennial Streams; Version 3.1. The property is located within a residential subdivision, south of Cherokee Road on Hickory Road Richmond, VA (see USGS vicinity map). The stream evaluated for this report is located along the eastern property line of the lot. It extends from south to north along the rear of the lot toward the James River. The stream is part of the James River Watershed. The stream was evaluated in one location at the upstream end of the property and received a score of 37 and is classified as a perennial stream through the length of the



SUMMARY

- Land use tool to protect the environment
- Map is advisory to the land owner & development communities
- Map is a reflection of site-specific determinations
- Determinations are done by land owners/developers
- Map is a regulatory requirement for the program

Questions?