



City of Harrisonburg Stormwater Advisory Committee

Agenda

December 16, 2019 5:00 – 7:00 p.m.

5:00 – 5:05	1. Public Comment (limited to 3 minutes per speaker) There is an opportunity for Drainage Improvement Program applicants to comment on their applications later during the meeting. The initial public comment period is limited to topics other than the listed Drainage Improvement Program applications.
5:05 – 5:15	2. SLAF Applications <ul style="list-style-type: none">a. E. Market Streetb. Northend Greenwayc. Thomas Harrison Middle Schoold. VMRC
5:15 – 5:20	3. HCAP Updates <ul style="list-style-type: none">a. 1st Round Approvals
5:20 – 6:40	4. Drainage Improvement Program <ul style="list-style-type: none">a. Woodland Drive Public Comment (5 mins)b. Woodland Drive Application Review & Next Steps (15 mins)c. Country Club Road (5 mins)d. Country Club Road Application Review & Next Steps (15 mins)e. Cardinal Drive Public Comment (5 mins)f. Cardinal Drive Application Review & Next Steps (15 mins)g. Newman Ave Public Comment (5 mins)h. Newman Ave Application Review & Next Steps (15 mins)
6:40 – 6:50	5. Other Topics <ul style="list-style-type: none">a. Chesapeake Bay TMDL Update
6:50 – 7:00	6. Next Steps <ul style="list-style-type: none">a. 2020 Dates<ul style="list-style-type: none">i. February 5, 2020ii. May 6, 2020iii. August 5, 2020iv. November 4, 2020

SWAC

12/6/2019

HCAP Updates

<i>Name</i>	<i>Contract #</i>	<i>Practice</i>	<i>Estimated Cost</i>	<i>Cost Share</i>
Laura Stemper	09-19-0001	PP	\$15,218.32	\$11,413.74
Laura Stemper	09-19-0002	BR	\$8,622.00	\$6,466.50
Laura Stemper	09-19-0003	PP	\$6,540.95	\$4,905.71
Laura Stemper	09-19-0004	PP	\$4,037.57	\$3,028.18
Miguel Muniz	09-19-0005	GR	\$3,930.00	\$2,947.50
Total			\$38,348.84	\$28,761.63
1 st Round Allocation				\$33,537.00
2 nd Round Available Funds				\$46,463.00

Drainage Improvement Program (DIP)

- 4 Applications received

Woodland Drive Application



Background information



Pictures



Cityworks map



Floodplain map

Woodland Drive Staff Recommendation

Staff recommends this application for SWAC approval.

Background Information

- ❑ Concern that water flowing down White Oak Cir overshoots DI and flows down into 720 Woodland Dr driveway/house
- ❑ Concern drainage ditch between Woodland Dr and Reservoir St leading to Sunchase Apartments is not adequate in size and will back up onto the road
- ❑ Concern that water flowing from Foley Rd travels across the south-western portion of 732 Woodland Dr property before flooding the road

Previous Correspondence includes:

Gene Sly, Stormwater Supervisor, visited the site and spoke to owners in 2018

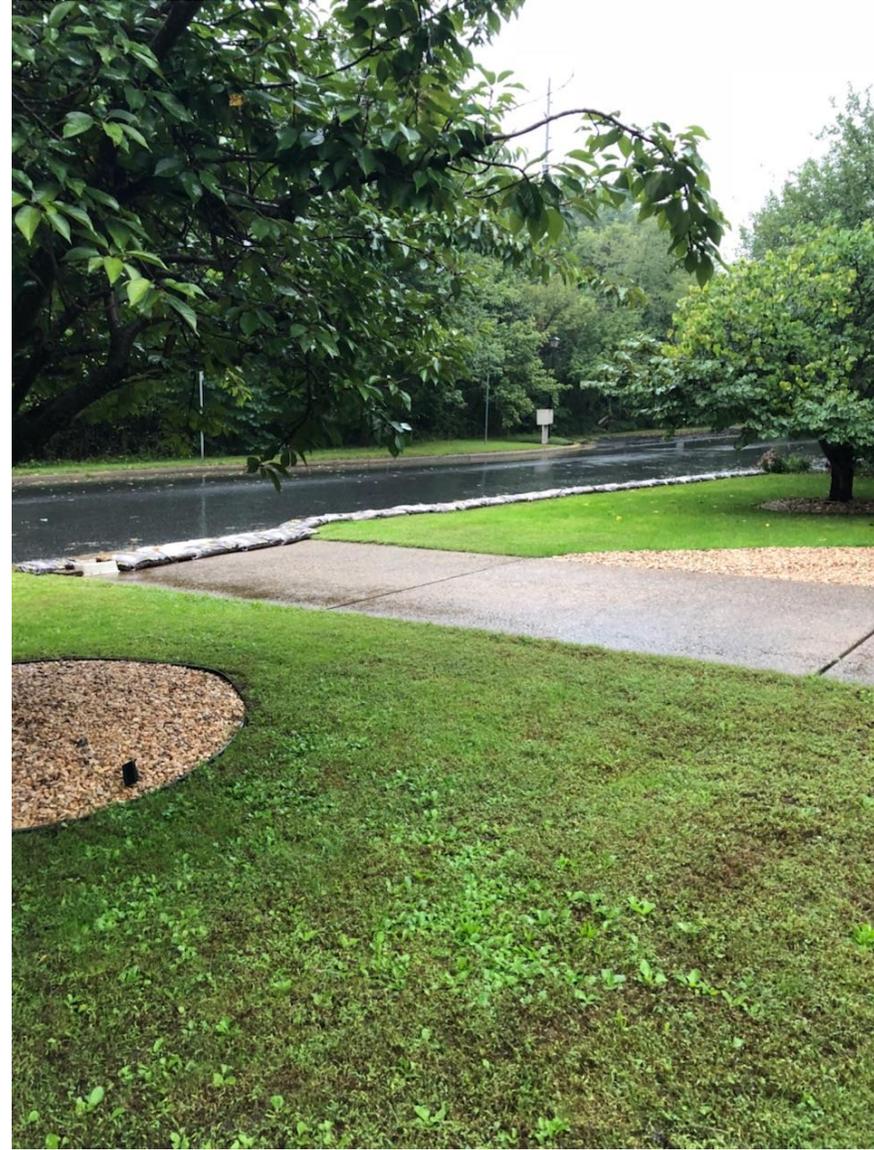
Dan Rublee, has had several correspondences with landowner

Rebecca Stimson, Environmental Compliance Manager, spoke to owners

Wes Runion, Environmental Specialist, visited with property owners to talk about small fixes to issues. Pipe across cul de sac appears to be undersized.



Looking down White Oak Circle



720 Woodland Dr



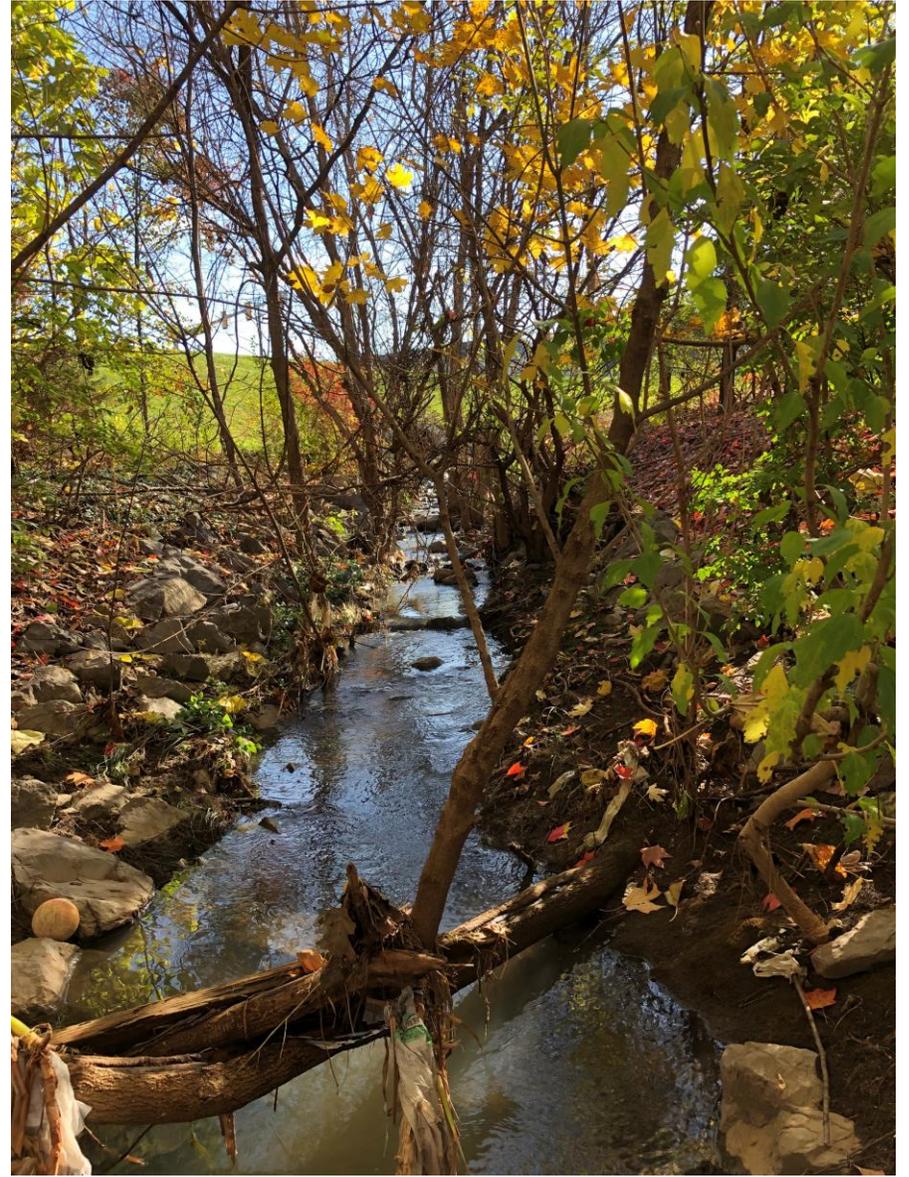
652 White Oak Cir (June 2 2018)



732 Woodland Dr

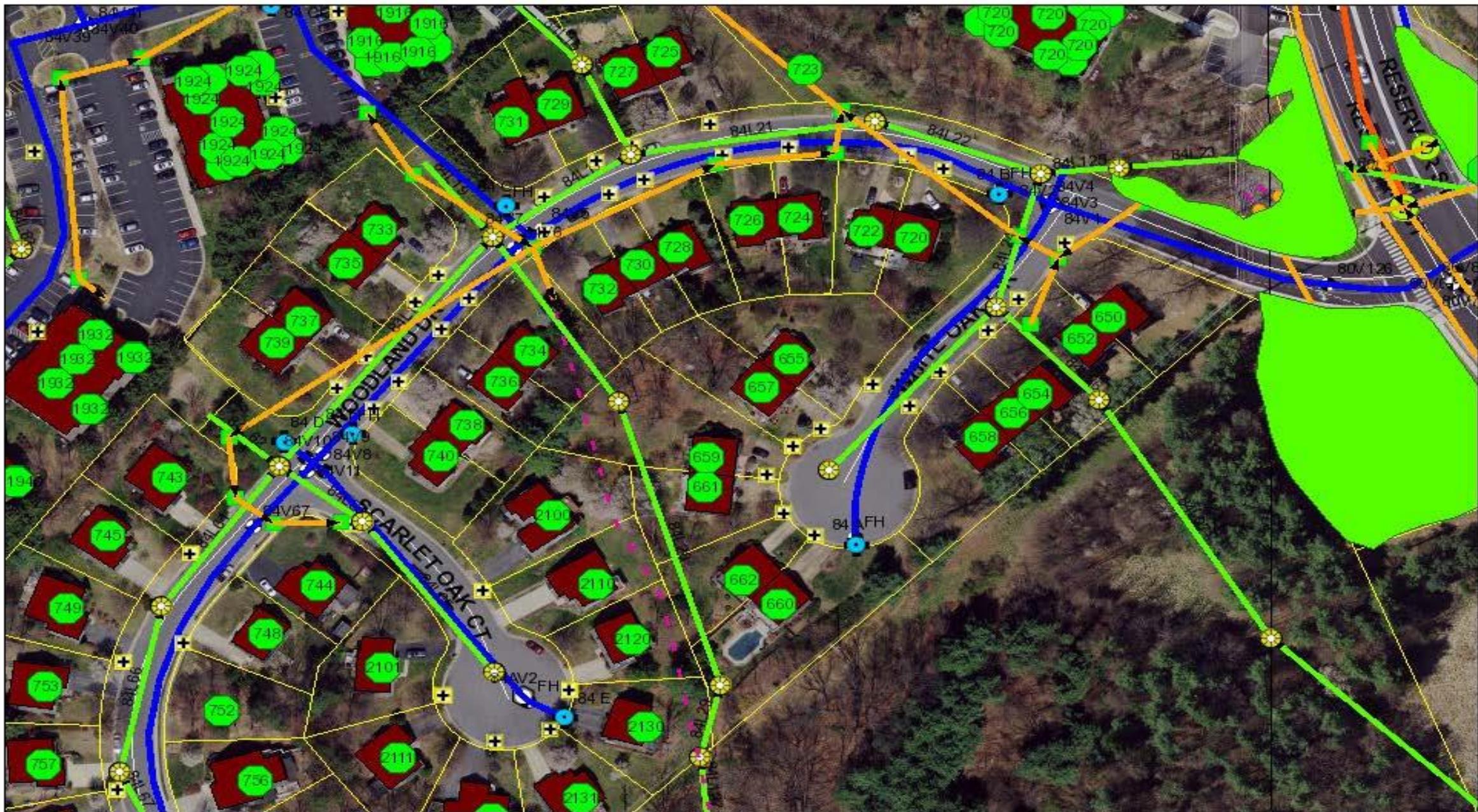


Drainage ditch leading to Sunchase



Looking upstream near Reservoir

Woodland Dr



November 1, 2019

1:1,755



- Regrade ditch
- Close off curb



Woodland Dr SWAC Recommendation

Approval

Denial

Country Club Road Application



Background information



Pictures



Cityworks map



Floodplain map

Country Club Staff Recommendation

Staff is recommending this application for SWAC consideration.

Outlet Stabilization criteria approved on October 15, 2019



PRE - CONSTRUCTION: EXISTING EXTREMELY INCISED VERTICAL WALLS AND FAILED OUTFALL STRUCTURE , 2/29/2016



POST - CONSTRUCTION ,

11/7/2018

I-270 AT MONTROSE- PHOTO LOCATION 1

Background Information

- ❑ Property owner at 1720 Country Club Rd (hair cutting business) is particularly concerned about losing property. Noted that access to back portion of the property is no longer feasible due to erosion of the stream bed. Expressed concern about structural damage to the property as well.
- ❑ Property is located at bend in creek. Culvert outfall could be contributing to additional problems. Easement in place to prevent owners from impeding the flow of water. Stormwater Improvement Plan identified this location (identified as “HB-3” or “Mall Creek – Country Club Road”) as potential location of a stream restoration. The project was ranked 7th on list.

Previous Correspondence includes:

Roger Baker (unsure of when), based on information relayed by owners.

Gene Sly, Stormwater Supervisor, visited the site and spoke to owners three times.

William Jarrels, former Stream Health Coordinator, visited the site and spoke to owners

Rick Altizer, Right of Way Agent, performed deed research 6/16 and confirmed this is a private property issue

Kelley Junco, former Environmental Compliance Manager, spoke to owners all on the phone 6/23/16 and an email on 2/1/18

Background Information- Continued

- ❑ Property owner at 1740 Country Club says the water overflows the bank on the Kroger side of the road. Owner says when the water overflows the bank it flows into his parking lot and washes out his gravel. Expressed concern that construction of Aldi may add more water to property.
- ❑ Water and Sewer main easement on property. Aldi is not in the watershed that drains around the back of this property. There is about 300 acres draining to this rear area, though, most of which is undeveloped, including a portion of the golf course. In times of high antecedent moisture, and with the predominantly silty clay soils, it is not unusual for undeveloped areas to produce significant runoff.

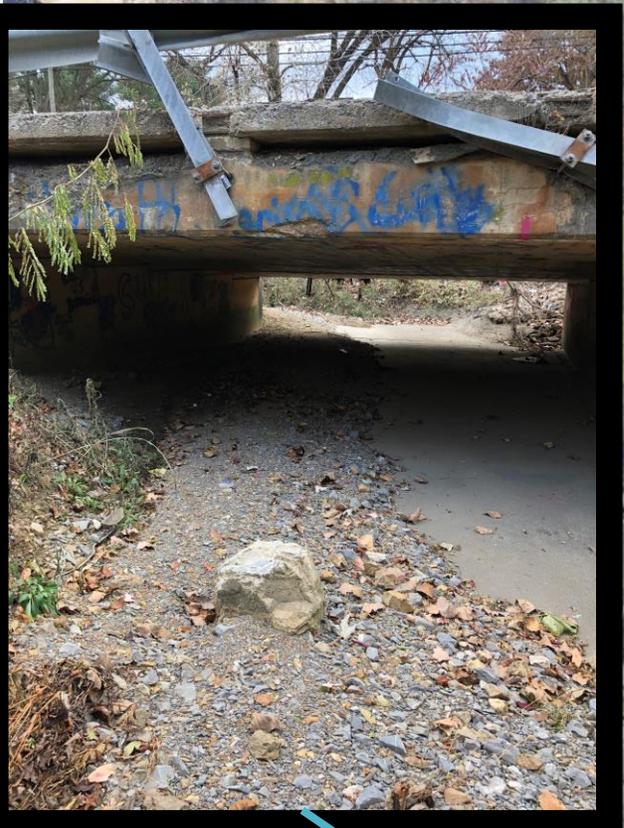
Previous Correspondence includes:

Owner advised that City Staff member had been called and came out to take a look at the site.

Background Information- Continued

- ❑ Property owner at 1820 Country Club noted erosion occurring adjacent to the road and onto the property.

Additional Notes: Planned Future Project: country club road sidewalk project may help alleviate some of these issues. Future Country Club Road improvement projects (not yet scheduled and not yet under design) will need to include road improvements and stormwater management.



Looking upstream



Looking upstream

Behind 1720 Country Club Rd



Behind 1720 Country Club Rd



Right bank-
looking upstream



Looking upstream

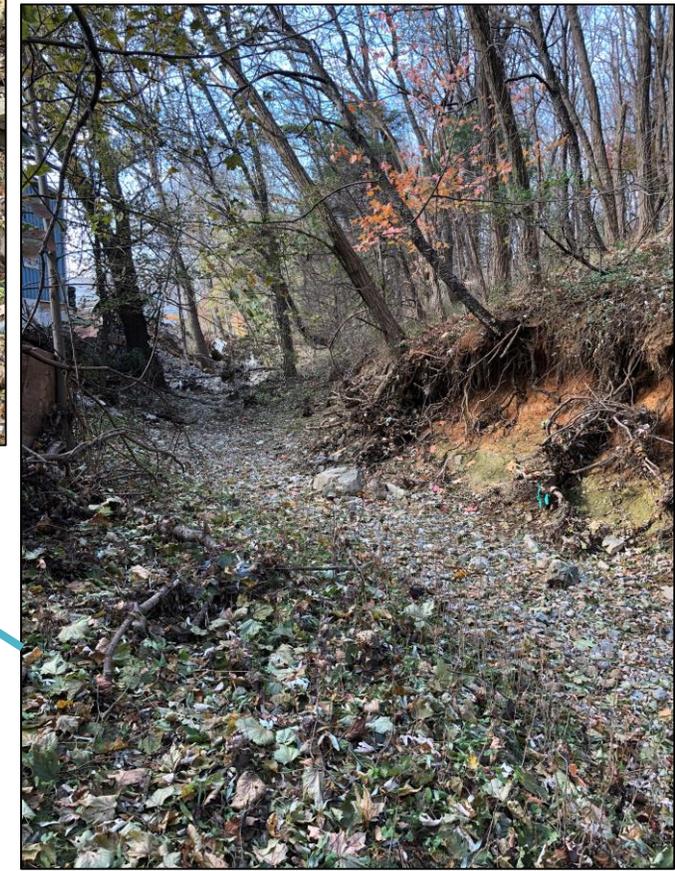


Right bank

Left bank



Behind 1720 Country Club Rd



Looking downstream behind
1710 Country Club Rd



Linda LN

Country Club Road



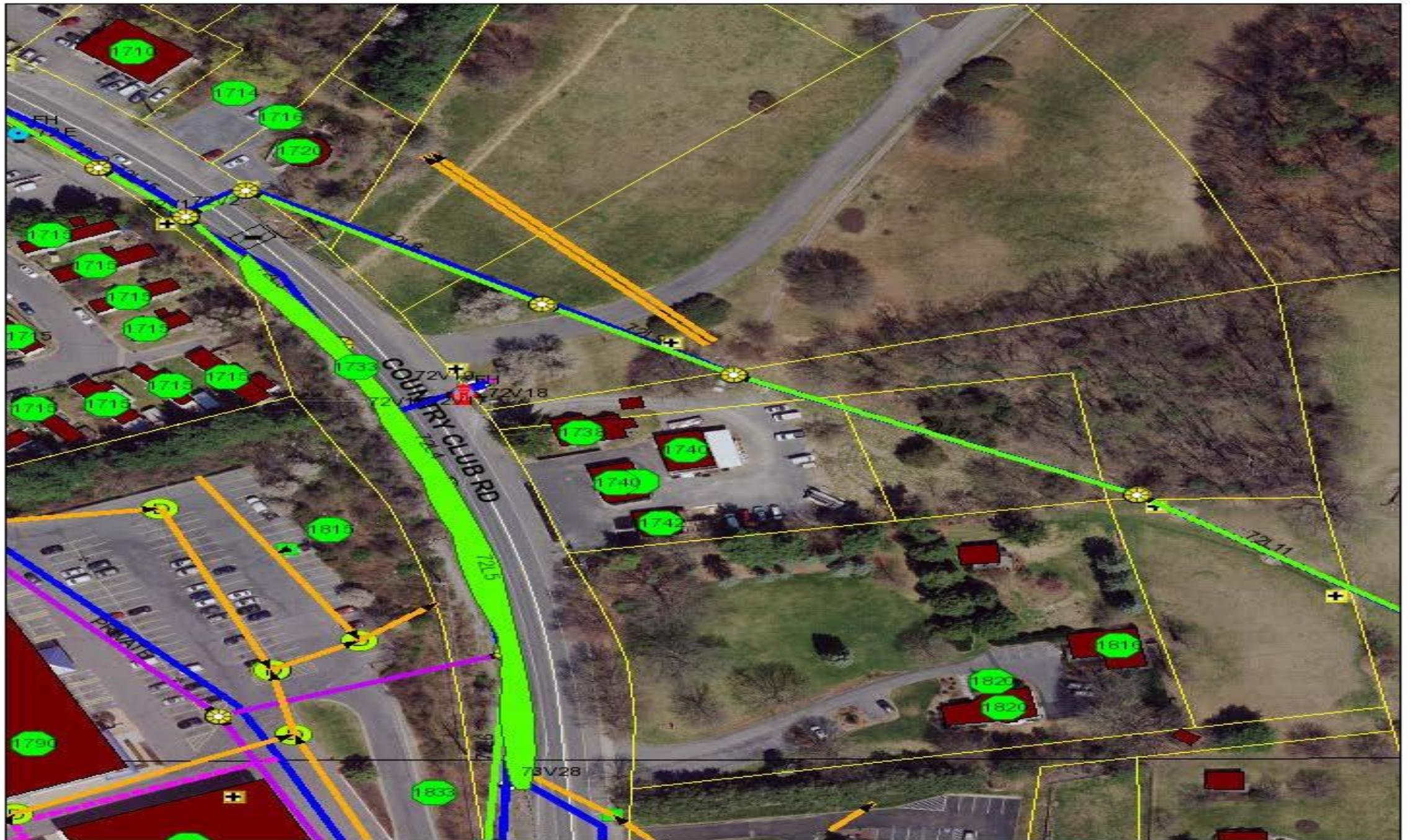
Looking downstream



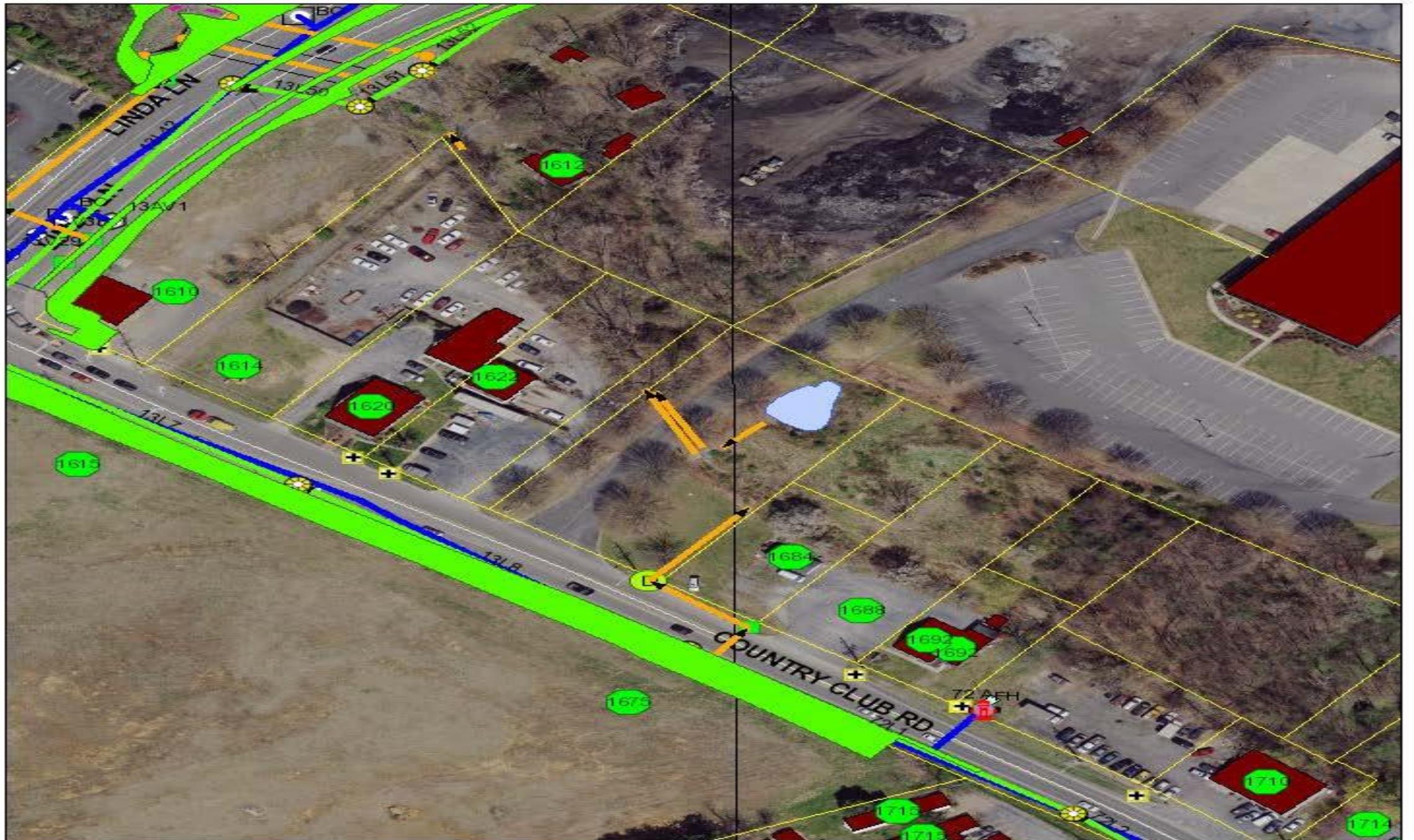
Looking upstream



Country Club Road



Country Club Road



Country Club Rd Floodplain Map



Country Club SWAC Recommendation

Approval

Denial

Cardinal Drive Application



Background information



Pictures



Cityworks map



Floodplain map

Cardinal Drive Staff Recommendation

Staff is not recommending this application for SWAC consideration.

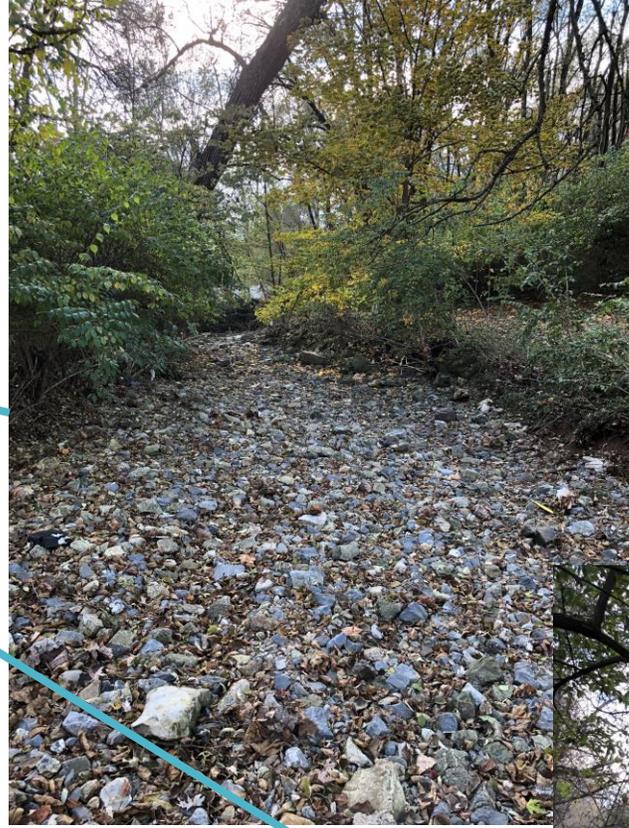
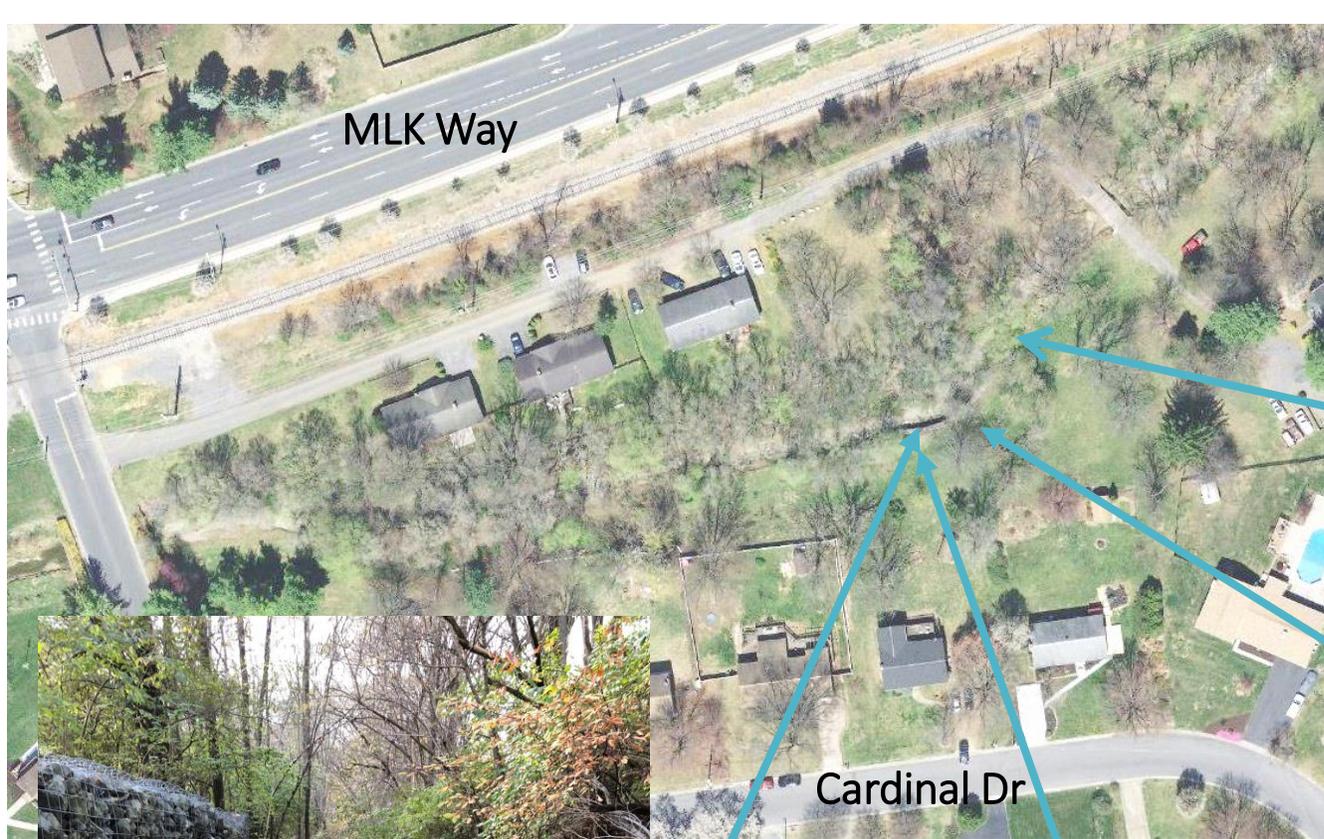
Background Information

- ❑ Property owner at 464 Cardinal Dr emailed multiple times between March 2016 and August 2017 to express concern that floodwaters repeatedly destroyed her fence in the back yard.
- ❑ Has noted that she has paid an engineer to look at the issue, replaced her fence several times, paid to bring in additional fill dirt to raise her yard level, removed trees on the back of her property, and paid to attempt to flood proof her fence.
- ❑ The owner purchases the house in 2004 and claims it was not in the floodplain at that time. Landowner has stated that flooding was not an issue until 2012.

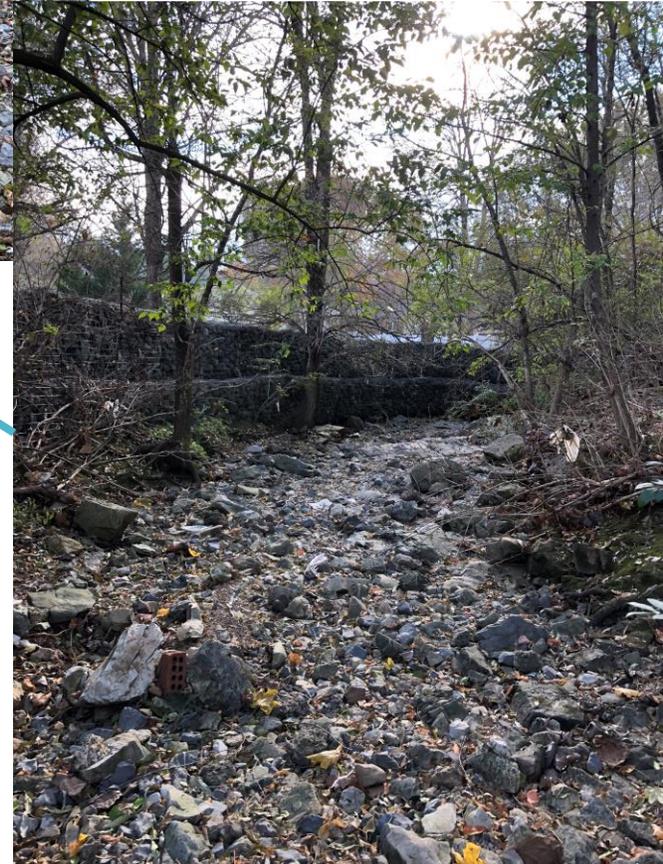
Back section of property is located within floodplain (FEMA Classification of Regulatory Floodway). Entire property located within 100 year floodplain. Mountain View Drive stream restoration project is upstream from owner.

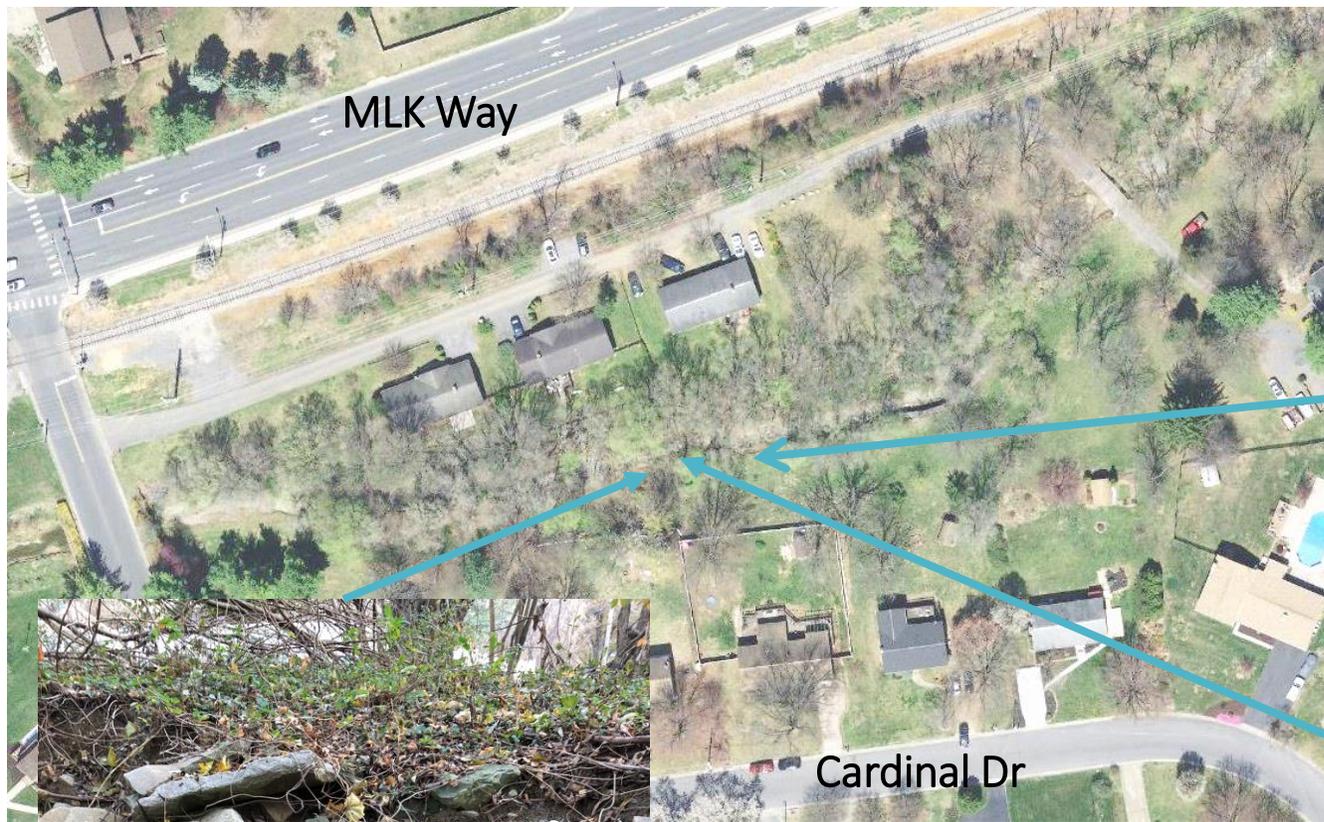
Previous Correspondence includes:

Kelley Junco, former Environmental Compliance Manager, replied to several emails explaining the property was located within the floodplain

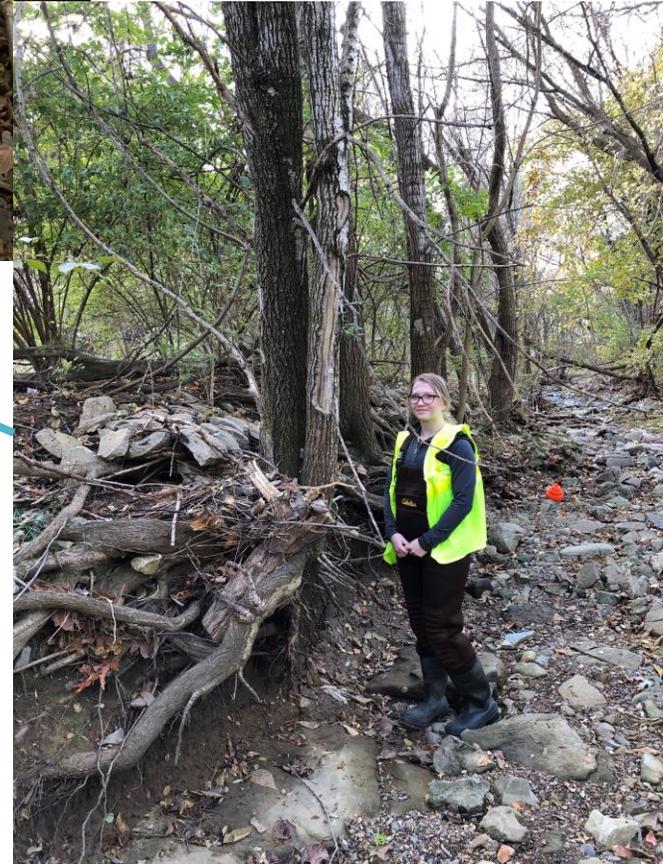


Looking downstream
Behind Cardinal Dr





Looking downstream
Behind Cardinal Dr





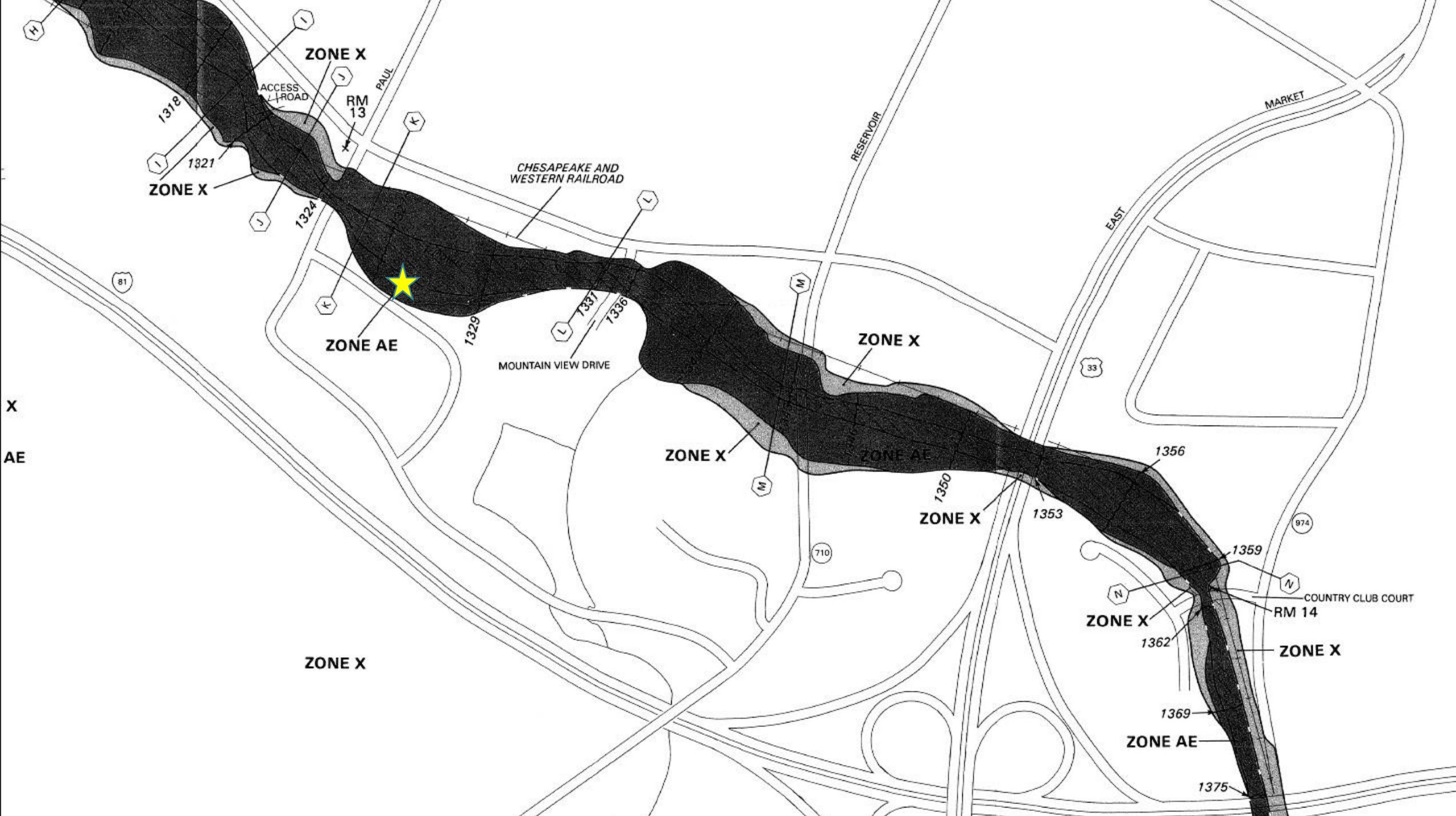
Upstream

Downstream



Cardinal Dr Floodplain Map





ZONE X

ACCESS ROAD

RM 13

PAUL

1318

1321

ZONE X

1324

CHESAPEAKE AND WESTERN RAILROAD



ZONE AE

1329

1337

1336

MOUNTAIN VIEW DRIVE

ZONE X

ZONE X

ZONE AE

ZONE X

1350

1353

1356

1359

ZONE X

1362

ZONE X

1369

ZONE AE

1375

COUNTRY CLUB COURT

RM 14

81

33

710

974

X

AE

ZONE X

Cardinal Drive SWAC Recommendation

Approval

Denial

Newman Avenue Application



Background information



Pictures



Cityworks map



Floodplain map

Newman Avenue Staff Recommendation

Staff recommends this application for SWAC approval.

Background Information

- ❑ Property owner at 285 Newman Ave expresses concern over older storm water drain behind the houses on the south side of Newman Ave. Believes there may be a blockage in the pipe. A section of this pipe was repaired/upgraded by the City in the past.
- ❑ Landowner notes in past years that during heavy rains a geyser would erupt at the DI between 279 and 281 Newman Ave. Several years ago the City fixed/upgraded the stormwater pipe adjacent to 279 Newman Ave down. The City responded to Mr. Lundeen's concern since the storm drain was within an easement. The existing easement was a public alleyway that was eventually abandoned, but an easement was retained. The Right of Way agent did not find any remaining easements in the area. The remainder of the storm sewer line is considered private and thus the City did not perform maintenance or upgrades at the time.

Previous Correspondence includes:

Kelley Junco, former Environmental Compliance Manager, emails

Grate for access in old alley, between 279 and 281 Newman.



Pipe near surface as it enters east side (uphill) 285 Newman property and goes under cinderblock garage



Interior of pipe on east side of 285 Newman



Pipe visible during French Drain excavation at 283 Newman:



Floodplain map

No map: area is not in floodplain

Newman Ave SWAC Recommendation

Approval

Denial