Loudoun Wildlife Conservancy
aulland@loudounwildlife.org

Loudoun Watershed Watch
info@loudounwatershedwatch.org

April 30, 2025

Meighan Wisswell
VA Dept. of Environmental Quality
P.O. Box 1105
Richmond, VA. 23218

Sent via E-mail: citizenwater@deq.virginia.gov

Subject: Citizen Nomination for Stream Monitoring

Dear Meighan,

Loudoun Wildlife Conservancy and Loudoun Watershed Watch are pleased to provide several nominations for additional stream monitoring locations to be considered for inclusion in DEQ's Water Quality Monitoring plan for calendar year 2026. This year we met virtually as a committee and selected 5 candidate sites. We used a comprehensive interactive map with stream monitoring data and stream impairments, past stream monitoring nominations, and past DEQ stream monitoring plans.

The map includes past stream monitoring results by:

- Citizen stream monitoring groups
- VADEQ
- Other organizations

The map is available to the public at https://tinyurl.com/mrx48xev

The scoring matrix includes five criteria for nominations as follows. On March 5, 2025, several committee members from Loudoun Wildlife Conservancy and Loudoun Watershed Watch met and determined scores and made the final nomination list.

Review and prioritize stream selection criteria - scale 0-3, low to high

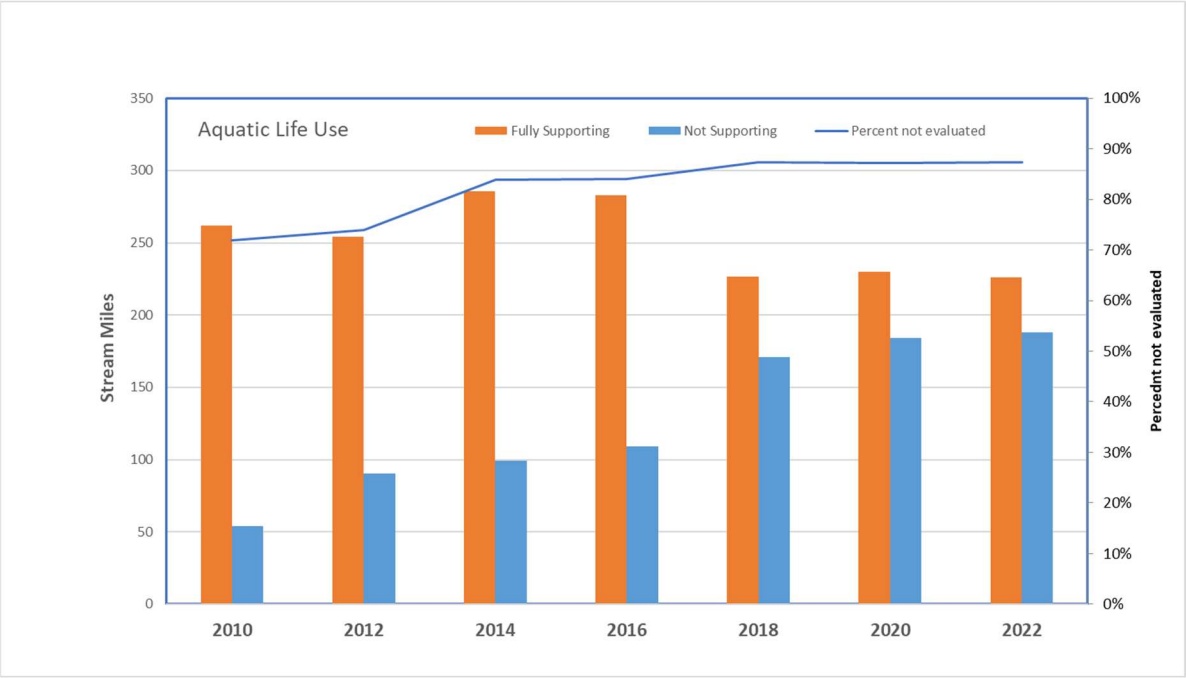
ID	Criteria to Consider for DEQ Nomination	Importance (group input) Scale: 0-3	Total	Final Weight (avg)
A	Easy access to the stream site for public events to engage, educate, and raise awareness (e.g., ample parking, public land)			
B	Proximity to LWC stream monitors (short drive, central location)			
C	Historic benthic VASOS Stream scores available			
D	Potential for habitat restoration (e.g., location conducive to plantings, riparian buffers) Restoration efforts in line with FEMA which prohibits some tree planting due to floodplain obstruction			
E	Currently Impaired for Aquatic Life			
F	Risk of future impairment based on site knowledge (e.g., development plans)			
G	Meets DEQ Nomination Criteria:			

Final Scores of Streams Nominated for DEQ Monitoring	
1	Beaverdam Run - SW site area – Final Weighted Score: 67
2	Dry Mill Branch - Final Weighted Score: 64
3	Balls Run - Final Weighted Score: 58.75
4	UT Horsepen Upstream - Final Weighted Score: 58.25
5	Dutchmans Creek - Final Weighted Score: 44.75

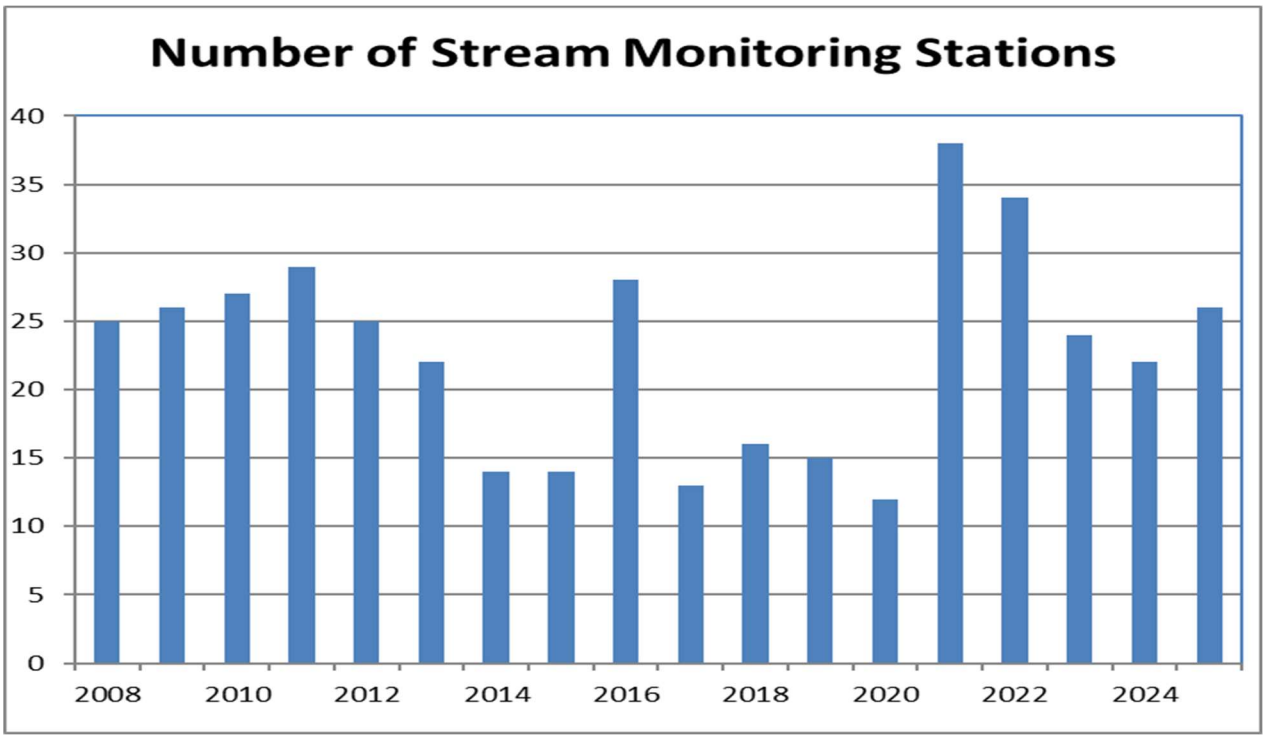
This year we are re-nominating 3 sites from our submission in 2022 and have added two more sites in north west corner of Loudoun County in the Piney Run watershed. The detailed rating scores are provided in the Appendix.

We understand that only a limited percentage of the stream miles in Loudoun County have been assessed for aquatic life use through benthic monitoring of the macroinvertebrate community in the streams. The percentage

changed from 30% to about 13% when DEQ changed to a higher density of streams. We understand that VA DEQ began stream monitoring in Loudoun County in 1994.



Over the years the number of sites in Loudoun and contributing subwatersheds has varied in which a site is typically monitored in both the spring and fall as VA DEQ requires that two benthic sampling be conducted to be included in the water quality assessment as shown in this chart.



Based on DEQ's water assessment, we also observe that the number of stream miles in Loudoun County region

continues to increase every 2 years.

In our review of available data, we have worked with DEQ's EDAS Family and Genus MS Access "PROBMON data and constructed six-year data windows of the average SCI scores (data provided per email request 3/19/2025). We have examined comprehensive DEQ-approved Loudoun County Stream assessment, conducted in the spring of 2009 (https://loudounwatershedwatch.org/Loudoun_County_Reports/2009_Stream_Assessment_Report_FINAL.PDF). The County data provides a one-time comprehensive coverage at 200 locations.

The goal of our site nominations is to suggest stream reaches that in our opinion are strategic to support identification of both "healthy" and potentially "impaired" (for aquatic life use) segments. Based on the 2009 Loudoun County stream assessment, 78% of the streams are statistically under stress or severe stress and would be designated as impaired, however, even with 200 monitoring events from the spring of 2009, this comprehensive survey does not provide sufficient coverage of all streams in Loudoun as the goal of the study was an overall assessment and was not designed to analyze each and every segment. Furthermore, the sampling was a one-time event, and VA DEQ requires at least two events during the sampling window of the assessment cycle.

Regarding bacteria monitoring, we are not nominating any additional sites as we recognize that there is a high probability (80-90 percent) that streams within Loudoun County if sufficiently monitored would probably fail to meet the recreational use criteria established by VA DEQ.

Loudoun Wildlife Conservancy uses the Virginia Save Our Streams (VA SOS) protocol for biological monitoring of stream health, so our data is accepted by DEQ as Level 2 data. Our stream monitoring program coordinator is both a VA SOS certified monitor and certified trainer.

Loudoun Wildlife currently monitors 28 stream sites around the county – over five times the number of sites we monitored in 2019. Loudoun Wildlife currently has 33 VA SOS certified monitors on our Stream Team.

Loudoun Wildlife became a partner organization of the Izaak Walton League of America's Salt Watch program in 2021. Since first collecting baseline data in the fall of 2021, we have collected over 1,700 chloride data points at 72 stream sites. This information is uploaded to the Clean Water Hub.

In August of 2023, Loudoun Wildlife partnered with the RiverTrends program of the Alliance for the Chesapeake Bay to begin conducting monthly chemical monitoring at six benthic sites along Tuscarora Creek and Town Branch in Leesburg. Our 13 volunteers, including 9 RiverTrends certified monitors, have collected nearly 4,000 data points on parameters including temperature, dissolved oxygen, pH, water clarity, nitrate, phosphate, conductivity, and other physical characteristics of the stream site. This information is uploaded to the Chesapeake Monitoring Cooperative.

We look forward to your response and continued efforts to evaluate stream health in Loudoun County.

Respectfully submitted,

Amy Ulland

This letter and others are posted at
https://loudounwatershedwatch.org/subitem6_3.html

Site 1: Beaverdam Run - SW site area

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date: 4/18/2025**

Mailing Address: PO Box 1892

City: Leesburg **State: VA** **Zip: 20177**

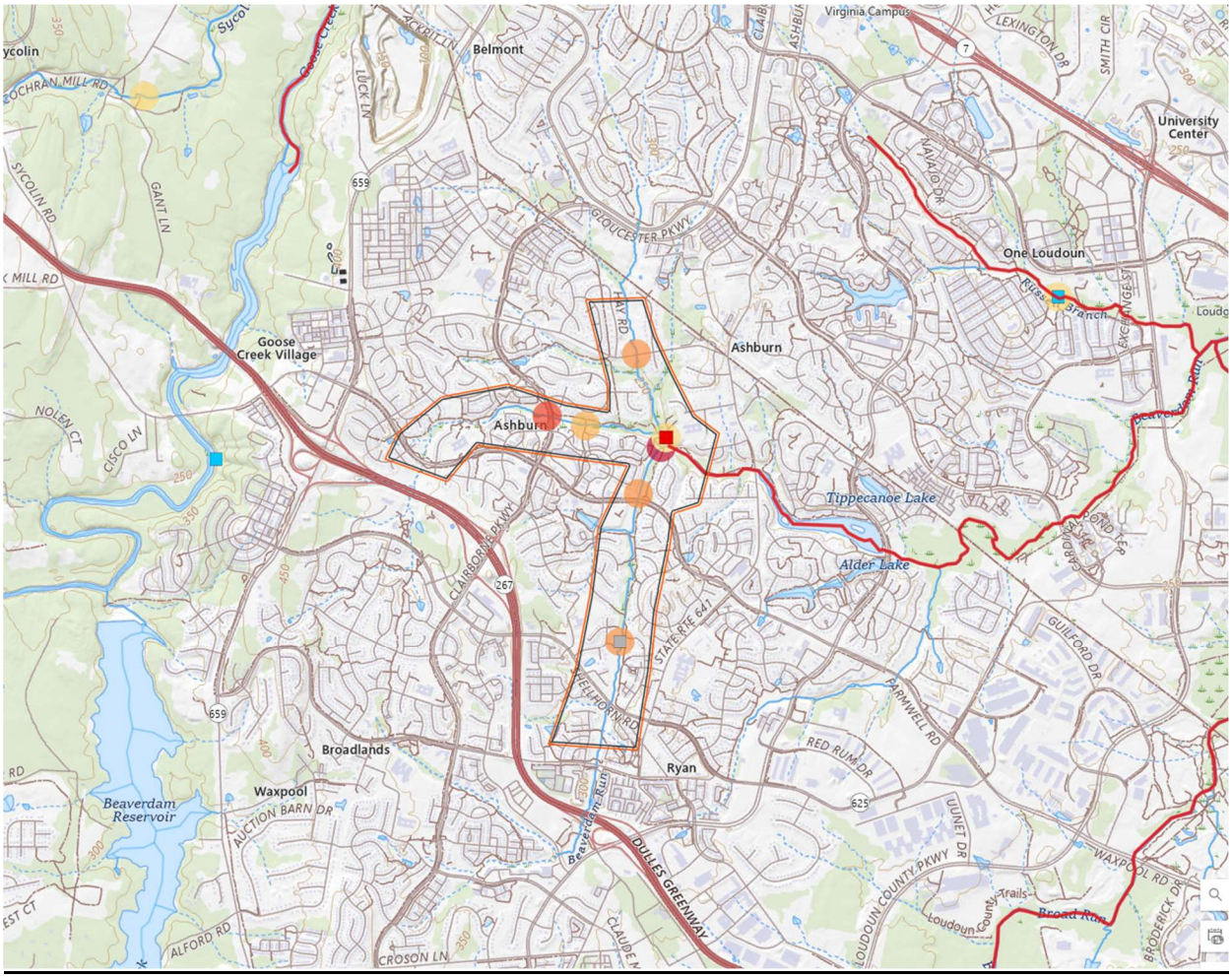
E-mail address: aulland@loudounwildlife.org

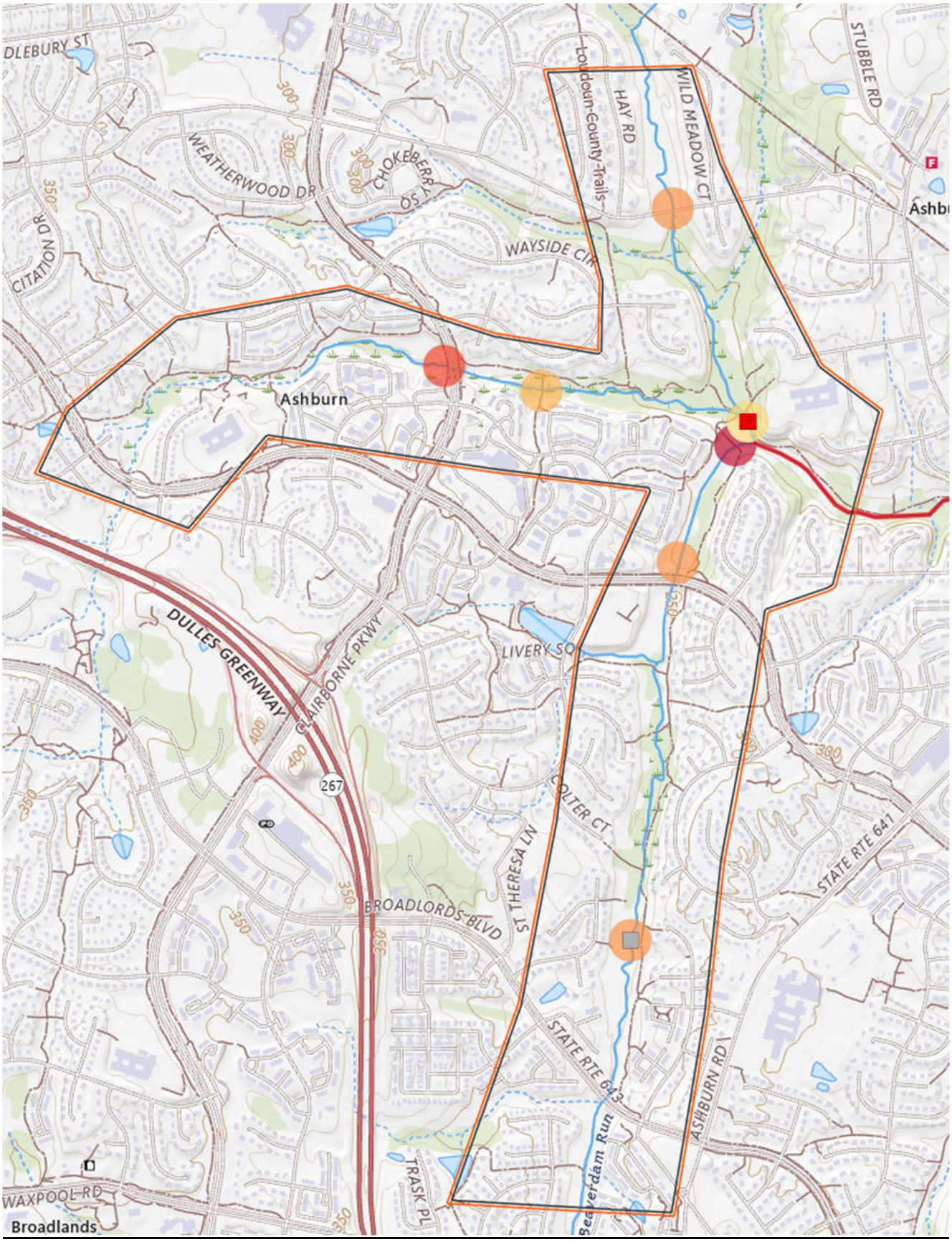
Home telephone: **Business telephone: (571) 293-1696**

(1) Name of the water body or water bodies proposed for monitoring:

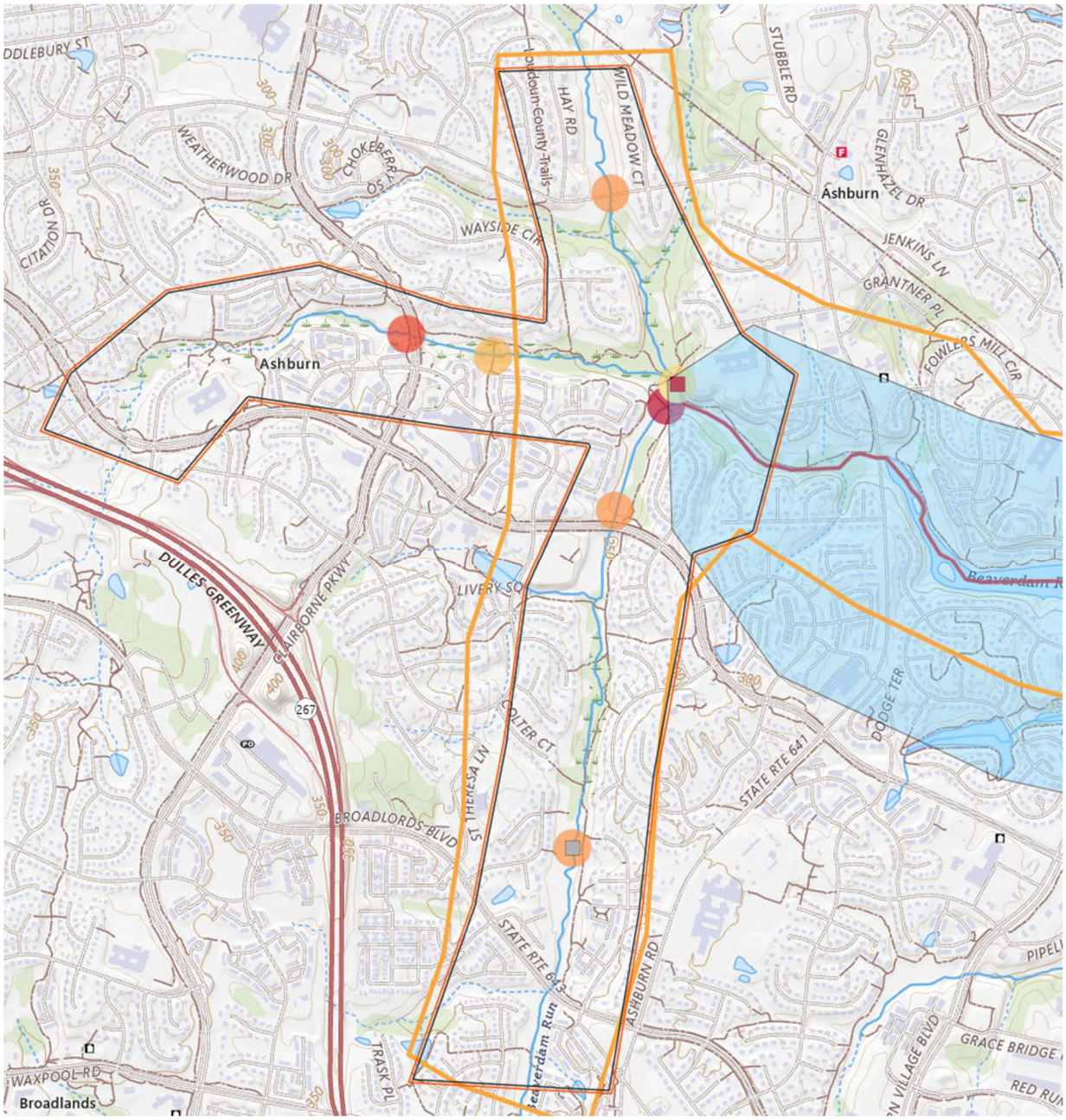
Beaverdam Run - SW site area

(2) Site maps


Belmont
Virginia Campus
University Center
One Loudoun
Goose Creek Village
Ashburn
Tippecanoe Lake
Alder Lake
Broadlands
Ryan
Waxpool
Beaverdam Reservoir
Dulles Greenway
Loudoun County Trails
Broad Run


DLEBURY ST
WEATHERWOOD DR
CHOKEBERRY CT
CITATION DR
WAYSIDE CIR
Loudoun County Trails
HAY RD
WILD MEADOW CT
STUBBLE RD
Ashburn
DULLES GREENWAY
CLAIRBORNE PKWY
LIVERY SQ
267
COLTER CT
ST THERESA LN
BROADLORDS BLVD
STATE RTE 641
STATE RTE 643
ASHBURN RD
Beaverdam Run
TRASK PL
WAXPOOL RD
Broadlands

Some reaches were previously nominated. This year we extend the headwater reach from the west.

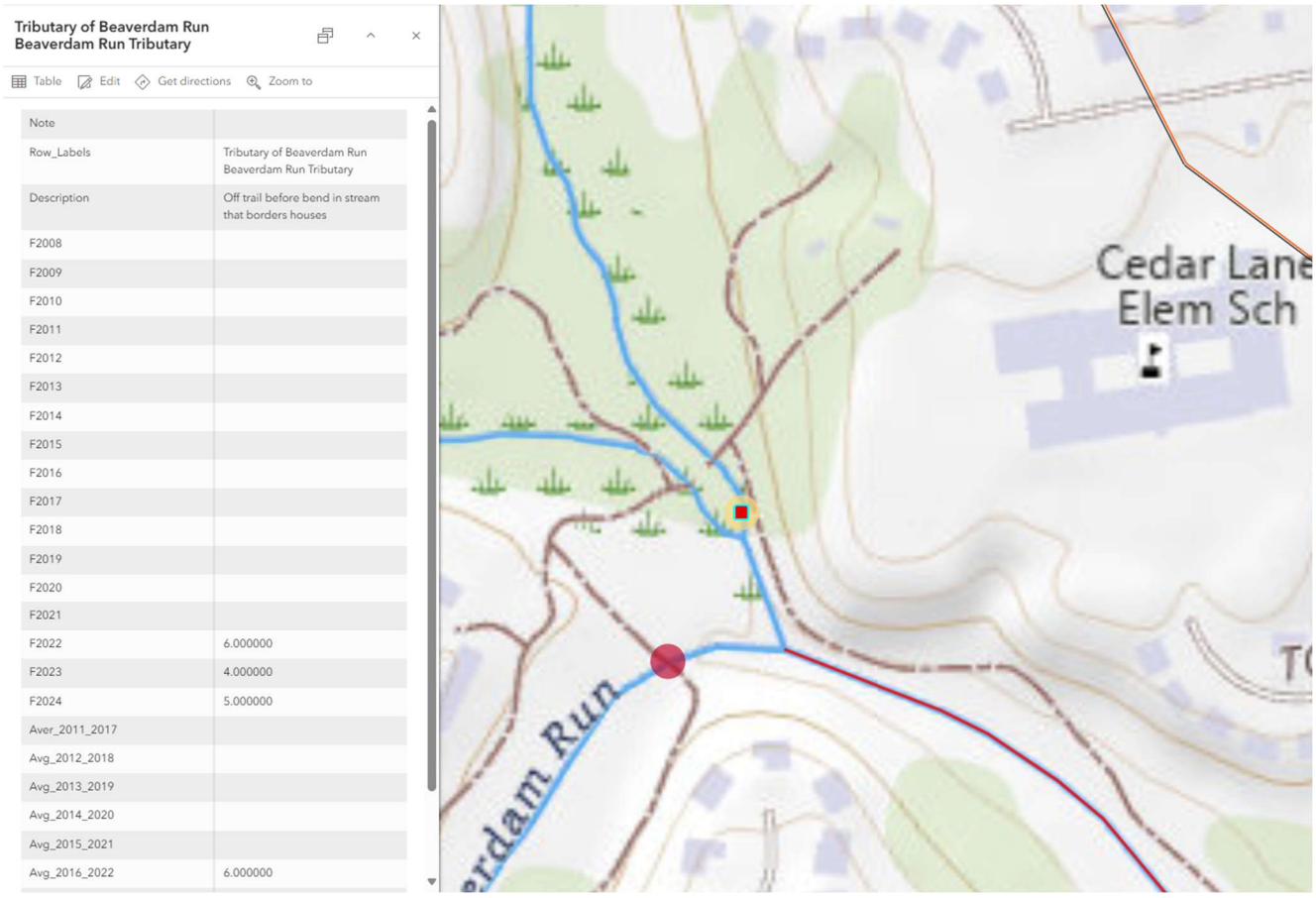


(3) Monitoring objective.

The site is in a residential neighborhood which was built over 25 years ago. The stormwater infrastructure reflects the regulations in effect at the time. The goal is to evaluate what conditions are in a neighborhood that has stabilized after a few decades of land use change.

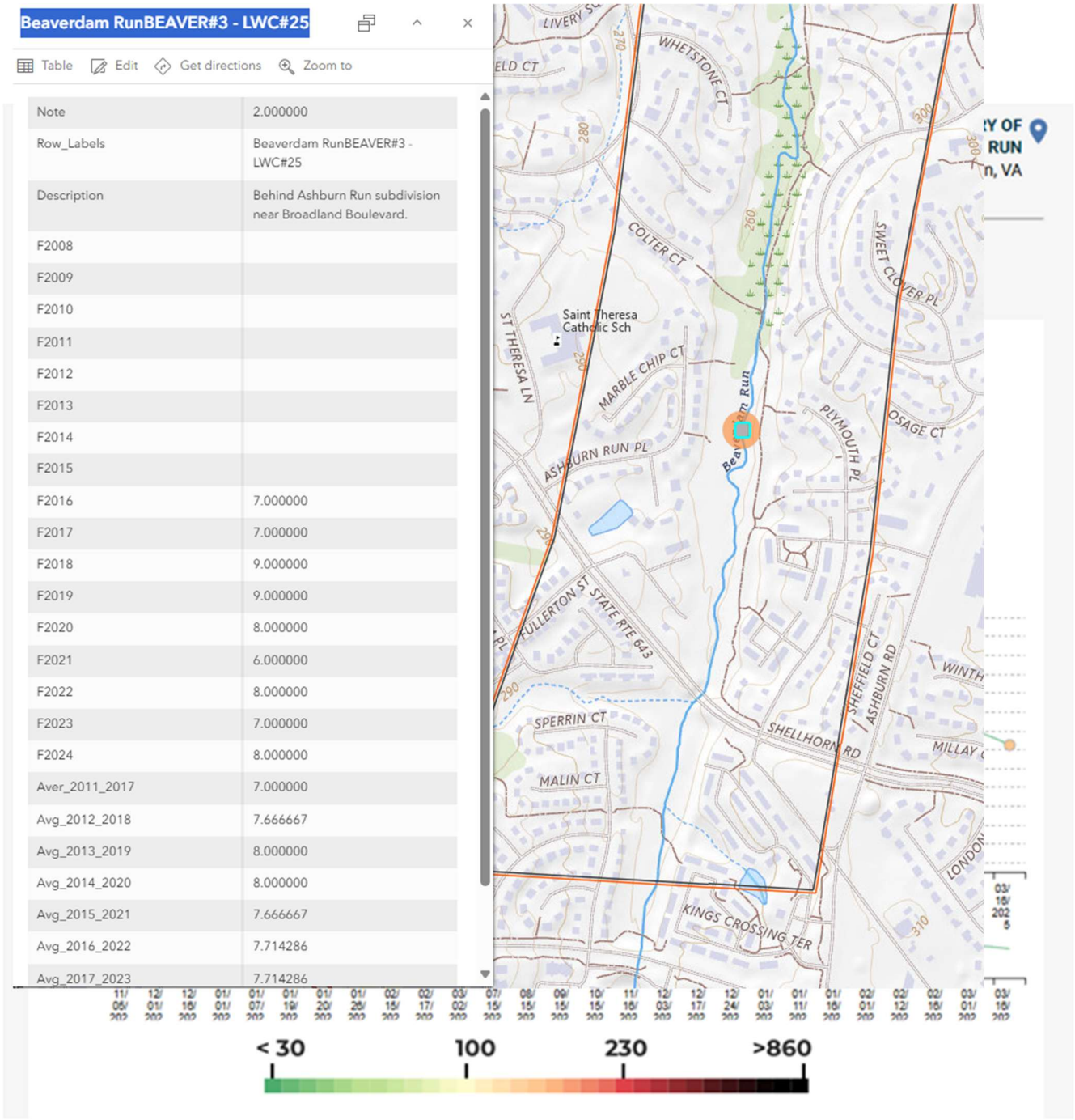
4) Water quality data are integrated into map application.

Citizen monitoring at ***Tributary of Beaverdam Run Beaverdam Run Tributary*** in 2022, 2023 and 2024 show poor VASOS scores.



This location has both Rocky Bottom Benthic and Salt Watch data.

A second site Beaverdam Run BEAVER#3 - LWC#25 has been monitored by citizens for 9 years since 2016.



The VASOS scores are mixed and vacillate around “Indeterminate”.

BEARUN6.27

Behind Ashburn Run subdivision near Broadland Boulevard.
Previously named BEAVER#3 - LWC#25

BEAVERDAM RUN
Ashburn, VA

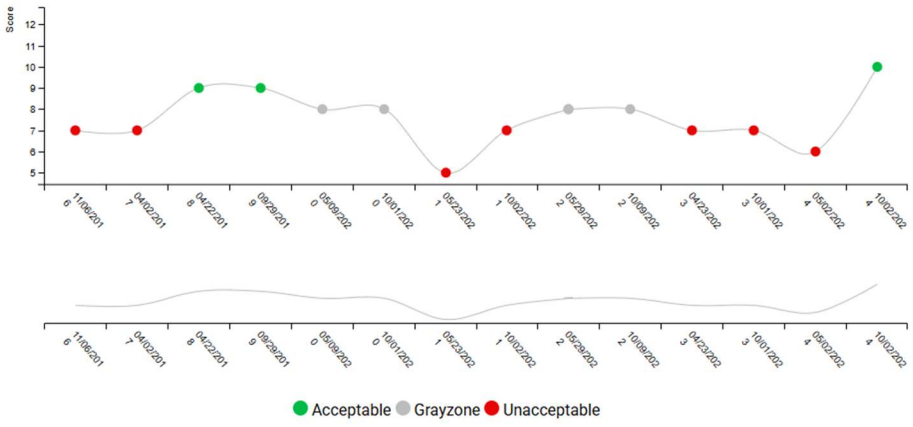
VA SOS/CMC MUDDY BOTTOM | VA SOS/CMC ROCKY BOTTOM | SOS BIOLOGICAL | SOS CHEMICAL | CREEK CRITTERS

NITRATE WATCH | SALT WATCH

LATEST READING - VA SOS/CMS ROCKY BOTTOM

CREATE A VA SOS/CMC ROCKY BOTTOM READING

Oct 2, 2024



BEARUN6.27

Behind Ashburn Run subdivision near Broadland Boulevard.
Previously named BEAVER#3 - LWC#25

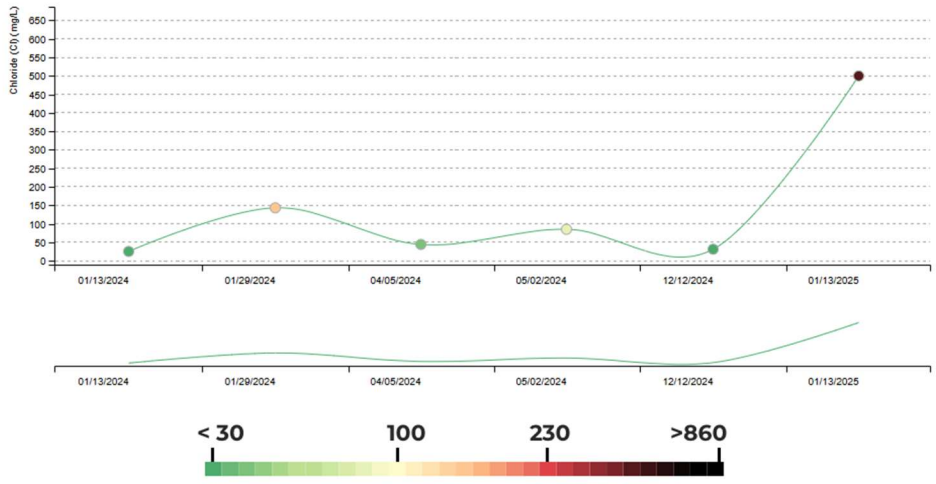
BEAVERDAM RUN
Ashburn, VA

VA SOS/CMC MUDDY BOTTOM | VA SOS/CMC ROCKY BOTTOM | SOS BIOLOGICAL | SOS CHEMICAL | CREEK CRITTERS

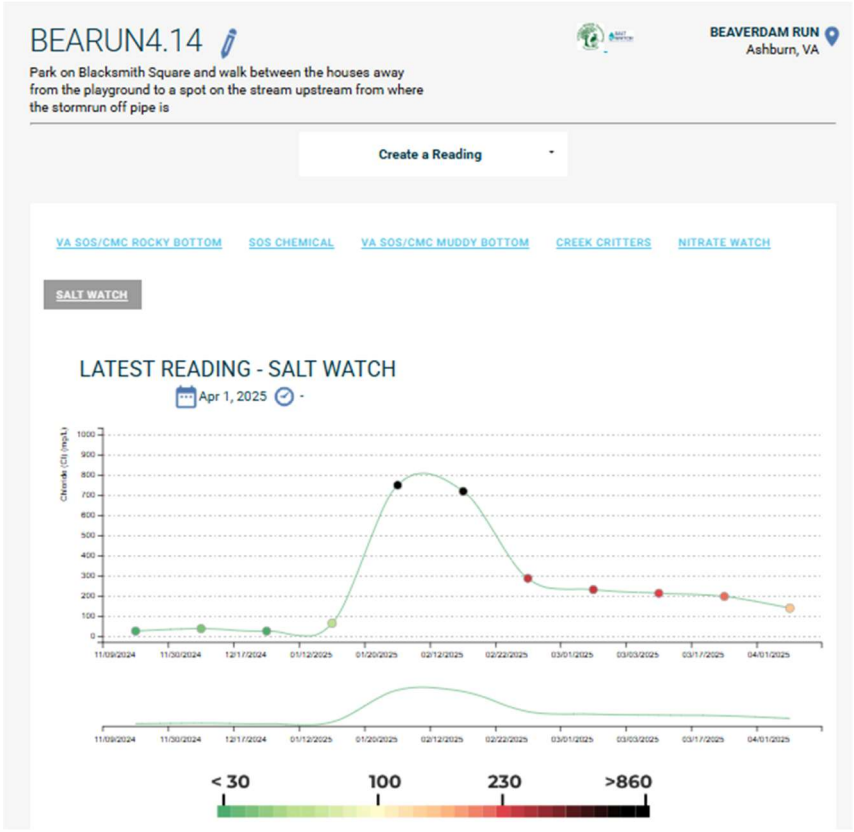
NITRATE WATCH | SALT WATCH

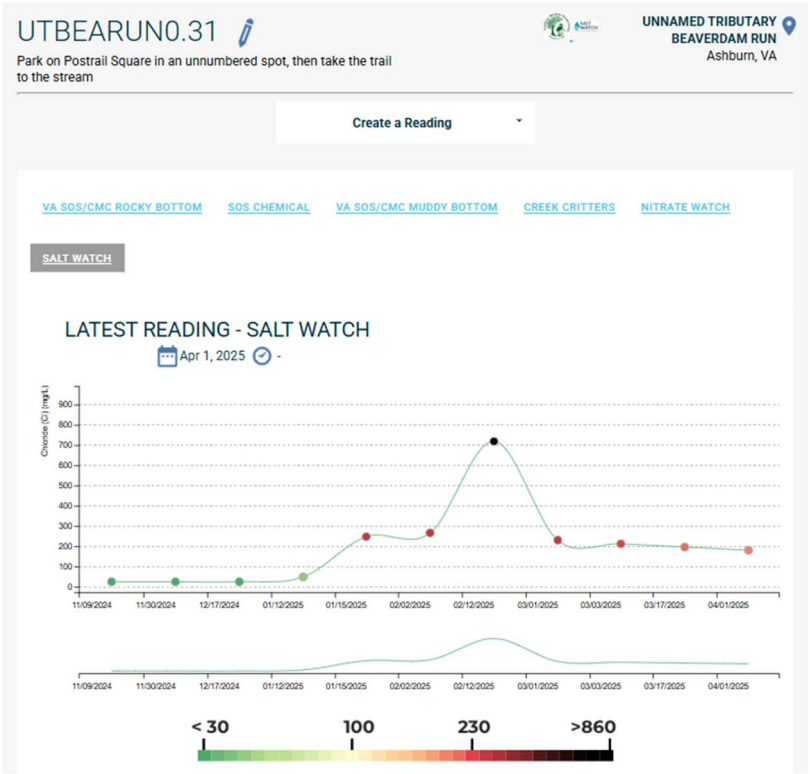
LATEST READING - SALT WATCH

Jan 13, 2025 -



Additionally, there are four other sites where salt watch data were collected.





UTBEARUN0.61

Parking at 4300 Marshfield Dr. Take a trail to the stream before it goes in the culvert under the street. Upstream of Claiborne Pkwy.

UNNAMED TRIBUTARY BEAVERDAM RUN
Ashburn, VA

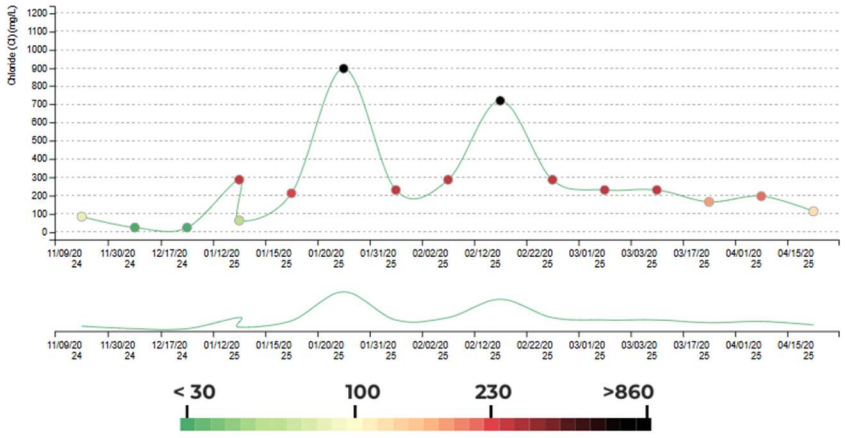
Create a Reading

VA SOS/CMC ROCKY BOTTOM | SOS CHEMICAL | VA SOS/CMC MUDDY BOTTOM | CREEK CRITTERS | NITRATE WATCH

SALT WATCH

LATEST READING - SALT WATCH

Apr 15, 2025 -



UTBEARUN0.44

Upstream of Hay Road, in between Wildbrook Ct and Wild Meadow Ct

UNNAMED TRIBUTARY BEAVERDAM RUN
Ashburn, VA

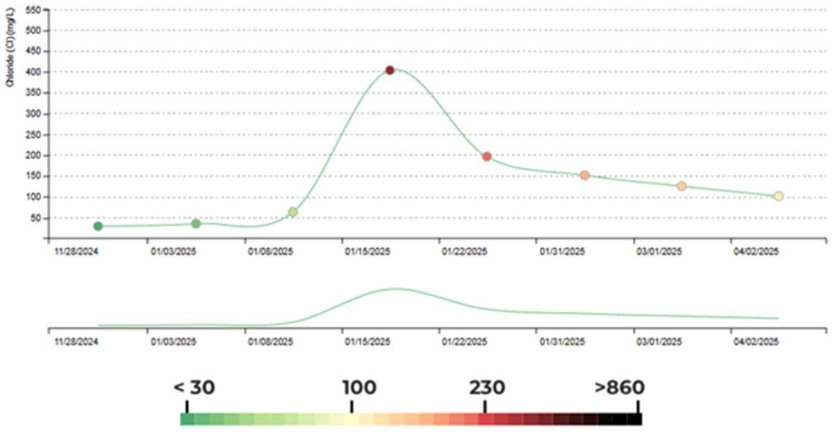
Create a Reading

VA SOS/CMC ROCKY BOTTOM | SOS CHEMICAL | VA SOS/CMC MUDDY BOTTOM | CREEK CRITTERS | NITRATE WATCH

SALT WATCH

LATEST READING - SALT WATCH

Apr 2, 2025 -



The salt data establish that nearly all reaches are “hit” with a large “dose” of elevated chloride concentrations from winter road salt which is washed down stormwater drainage to the streams.

Note that field photographs are typically available at each salt watch monitoring location.

https://api.cleanwaterhub.org/static/usercontent/images/bfb8453a1fdf40f7bcbfd1d5eb2a816a_thumbnail@2x.jpeg

https://api.cleanwaterhub.org/static/usercontent/images/dba61e36041e4ab69317b32a17a41e3a_thumbnail@2x.jpeg

https://api.cleanwaterhub.org/static/usercontent/images/c23db52f8c674b0d839cbc0abb8b1099_thumbnail@2x.jpg

https://api.cleanwaterhub.org/static/usercontent/images/3fbbf6075082474fa2b40e85dd89762b_thumbnail@2x.jpeg

https://api.cleanwaterhub.org/static/usercontent/images/9f8c1710e1ab41cbbae3c2cadff5daab_thumbnail@2x.jpg

Downstream of the nomination DEQ has designated Aquatic Life and Recreational Use Impairments.

Impaired_2020_Rivers_Not_Supportin g_Aquatic_Life: Beaverdam Run

Table | Edit | Get directions | Zoom to

ID305B	VAN-A09R_BEM02B10
MILES	1.54
CYCLE	2020
WATER_NAME	Beaverdam Run
LOCATION	Segment begins at the confluence with of an unnamed tributary to Beaverdam Run, in Ashburn Park, and continues downstream until the confluence with an unnamed tributary to Beaverdam Run.
AU_COMMENT	Class III, Section 9. DEQ ambient water quality and biological monitoring station 1aBEM000.60 at Route 607. Historical Note: In 2006, segment was extended 3.18 rivermiles downstream to accommodate additional monitoring sites. Historical Note: In
IMP_CAUSE	Benthic Macroinvertebrates Bioassessments, Escherichia coli (E. coli)
SOURCE	Source Unknown
CATEGORY	5A
AQUA_LIFE	Not Supporting
FISH_CONSU	Fully Supporting
PWS	Not Applicable
RECREATION	Not Supporting
WILDLIFE	Fully Supporting

Site 2: Dry Mill Branch

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date: 4/18/2025**

Mailing Address: PO Box 1892

City: Leesburg **State: VA** **Zip: 20177**

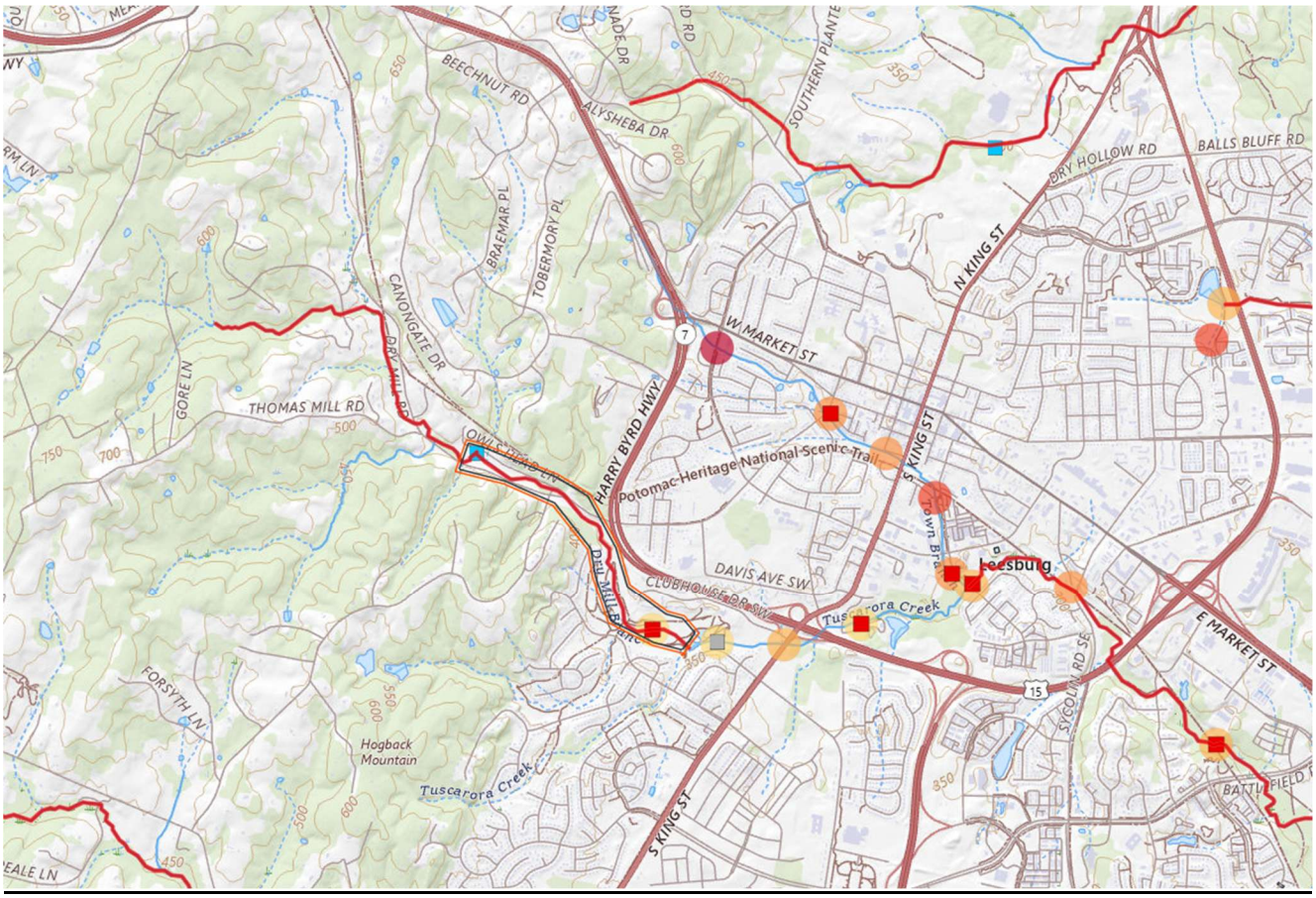
E-mail address: aulland@loudounwildlife.org

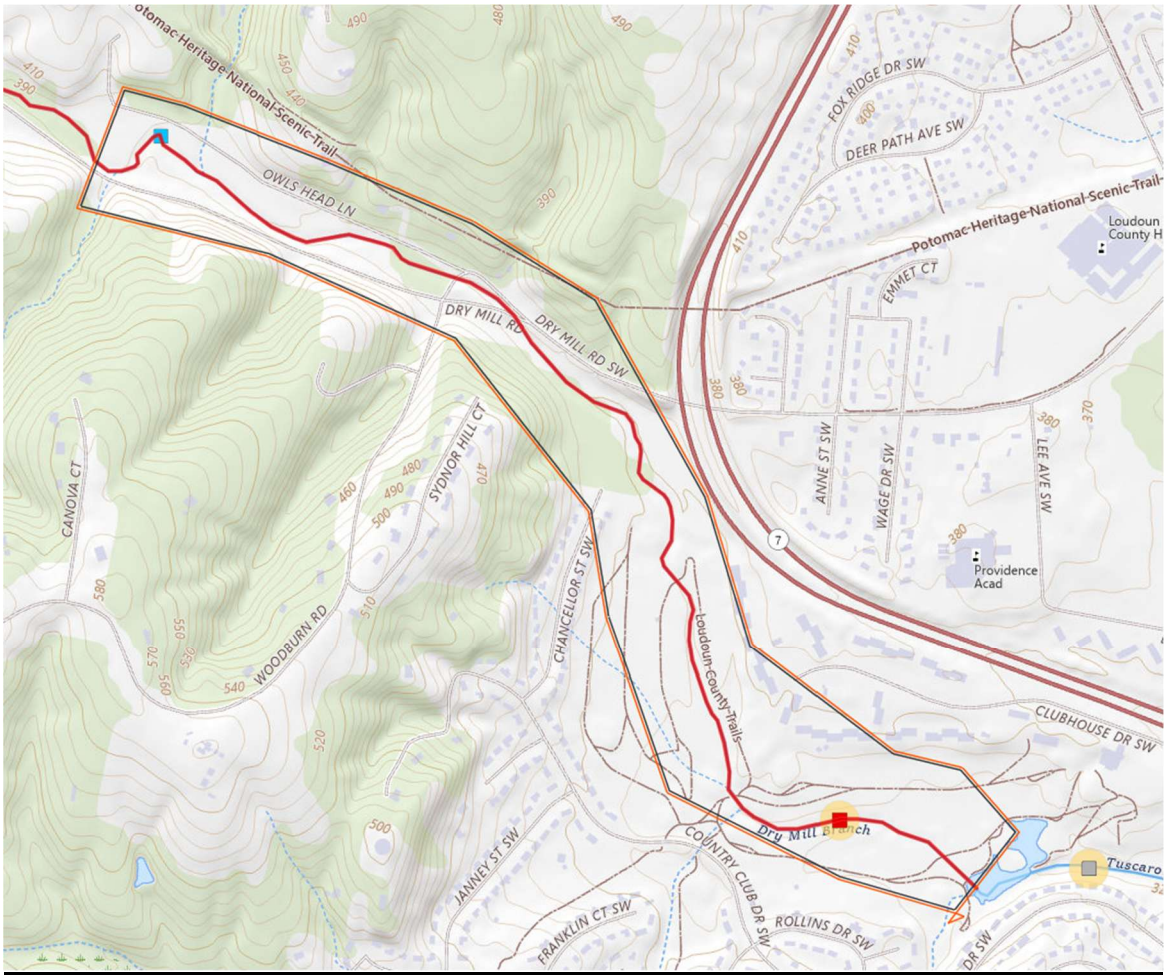
Home telephone: **Business telephone: (571) 293-1696**

(1) Name of the water body or water bodies proposed for monitoring:

Dry Mill Branch

(2) Site maps


BEECHNUT RD
ALYSHEBA DR
SOUTHERN PLANTE
DRY HOLLOW RD
BALLS BLUFF RD
N KING ST
BRAEMAR PL
TOBERMORY PL
CANONGATE DR
W MARKET ST
GORE LN
THOMAS MILL RD
HARRY BYRD HWY
Potomac Heritage National Scenic Trail
S KING ST
DAVIS AVE SW
Leesburg
Tuscarora Creek
E MARKET ST
FORSYTH LN
Hogback Mountain
Tuscarora Creek
S KING ST

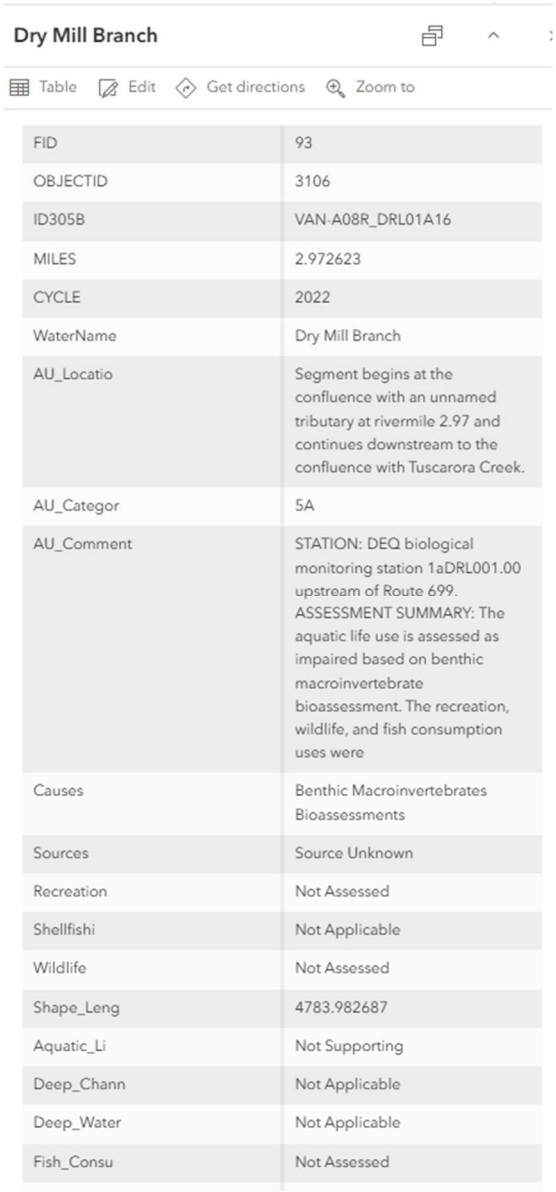

Potomac Heritage National Scenic Trail
OWLS HEAD LN
DRY MILL RD
DRY MILL RD SW
FOX RIDGE DR SW
DEER PATH AVE SW
Potomac Heritage National Scenic Trail
Loudoun County H
EMMET CT
ANNE ST SW
WAGE DR SW
LEE AVE SW
Providence Acad
CANOVA CT
SYDNOR HILL CT
WOODBURN RD
CHANCELLOR ST SW
Loudoun County Trails
CLUBHOUSE DR SW
Dry Mill Branch
COUNTRY CLUB DR SW
ROLLINS DR SW
JANNEY ST SW
FRANKLIN CT SW
Tuscaro

(3) Monitoring objective.

The site is just west of the residential development in the Town of Leesburg. The objective is to confirm that the downstream portion of this reach has experienced benthic impacts and that possibly the aquatic life use is more limited to the downstream portion of the reach. Possibly this reach needs further testing and can be delisted in the future.

(4) Water quality data are integrated into map application.

This reach is impacted for aquatic life.



Dry Mill Branch

Table | Edit | Get directions | Zoom to

FID	93
OBJECTID	3106
ID305B	VAN-A08R_DRL01A16
MILES	2.972623
CYCLE	2022
WaterName	Dry Mill Branch
AU_Locatio	Segment begins at the confluence with an unnamed tributary at rivermile 2.97 and continues downstream to the confluence with Tuscarora Creek.
AU_Categor	5A
AU_Comment	STATION: DEQ biological monitoring station 1aDRL001.00 upstream of Route 699. ASSESSMENT SUMMARY: The aquatic life use is assessed as impaired based on benthic macroinvertebrate bioassessment. The recreation, wildlife, and fish consumption uses were
Causes	Benthic Macroinvertebrates Bioassessments
Sources	Source Unknown
Recreation	Not Assessed
Shellfishi	Not Applicable
Wildlife	Not Assessed
Shape_Leng	4783.982687
Aquatic_Li	Not Supporting
Deep_Chann	Not Applicable
Deep_Water	Not Applicable
Fish_Consu	Not Assessed

This is based on DEQ monitoring at 1ADRL001.00. Currently this site is not within the 6-year data window for assessment. Furthermore, only one of the six events showed poor benthic conditions. These data are not consistent with citizen data.

VA_DEQ_EDAS_VSCI_March_2025 - Dry Mill Branch

ObjectID	30
Row_Labels	1ADRL001.00
StreamName	Dry Mill Branch
Location	Upstream of Rt. 699
Type	Citizen Request
SurveyReas	Citizen's Request
Lat	39.110556
Long_	-77.592778
Long_DD	-77.592778

Spring_2013	64.770556
Fall_2013	77.31163
Spring_2014	62.687539
Fall_2014	61.013683

Spring_2016	25.317045
Fall_2016	70.142904

Upstream VASOS data indicate good stream health, however downstream, poor stream health.

Dry Mill Branch - Dry Mill Branch

Table Edit Get directions Zoom to

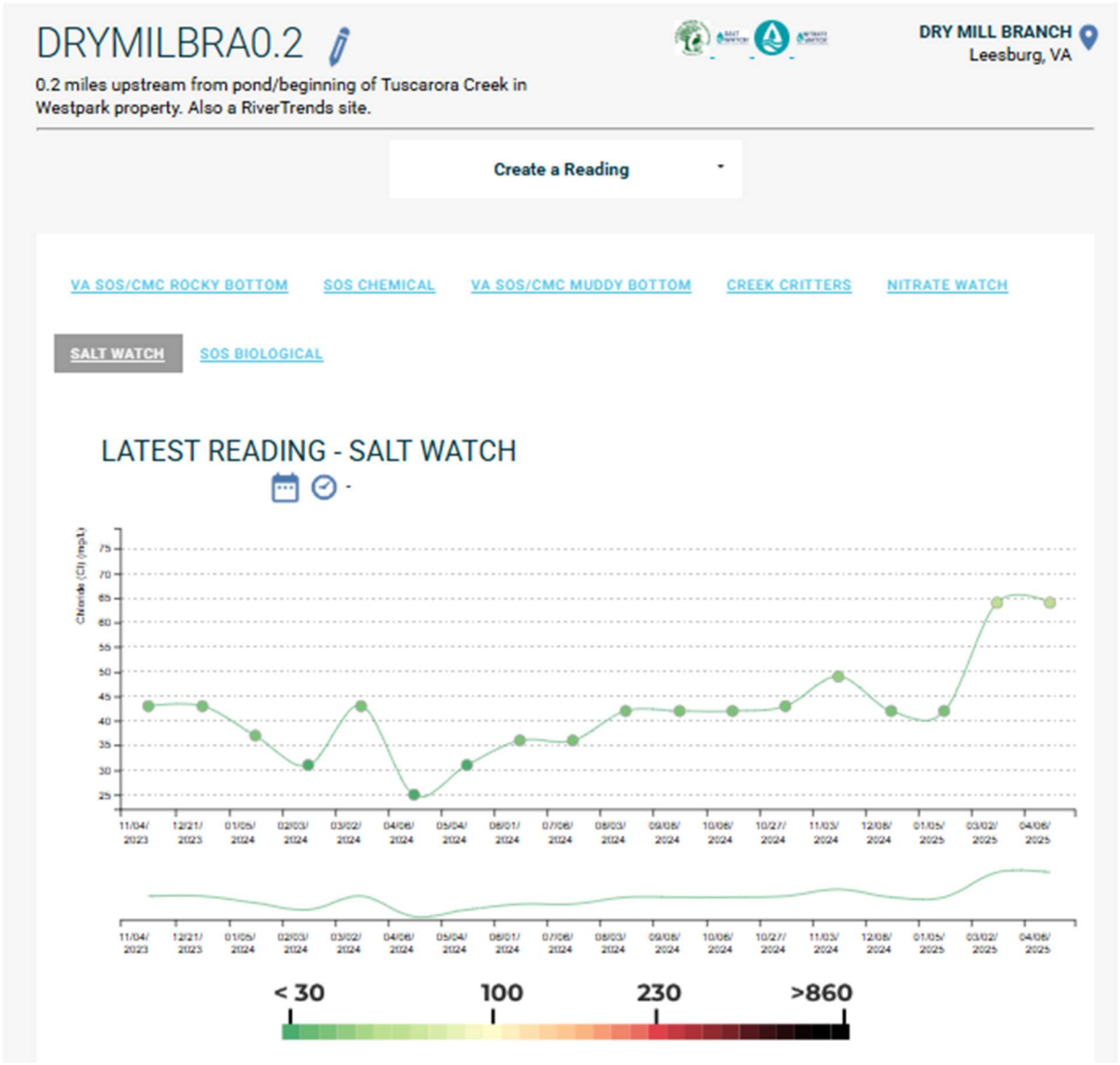
Note	
Row_Labels	Dry Mill Branch - Dry Mill Branch
Description	Owl Head Lane
F2008	
F2009	
F2010	
F2011	
F2012	
F2013	
F2014	
F2015	
F2016	
F2017	
F2018	
F2019	
F2020	
F2021	9.000000
F2022	10.500000
F2023	8.000000
F2024	9.000000
Aver_2011_2017	
Avg_2012_2018	
Avg_2013_2019	
Avg_2014_2020	
Avg_2015_2021	9.000000
Avg_2016_2022	9.750000
Avg_2017_2023	9.166667
Avg_2018_2024	9.125000

Dry Mill Branch-DRYMILBRA0.2

Table Edit Get directions Zoom to

Note	
Row_Labels	Dry Mill Branch-DRYMILBRA0.2
Description	0.2 miles upstream from pond/beginning of Tuscarora Creek in Westpark property
F2008	
F2009	
F2010	
F2011	
F2012	
F2013	
F2014	
F2015	
F2016	
F2017	
F2018	
F2019	
F2020	
F2021	
F2022	
F2023	5.000000
F2024	6.500000
Aver_2011_2017	
Avg_2012_2018	
Avg_2013_2019	
Avg_2014_2020	
Avg_2015_2021	
Avg_2016_2022	
Avg_2017_2023	5.000000

The salt watch data downstream do not show high chlorides.



Site 3: Balls Run

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date: 4/18/2025**

Mailing Address: PO Box 1892

City: Leesburg **State: VA** **Zip: 20177**

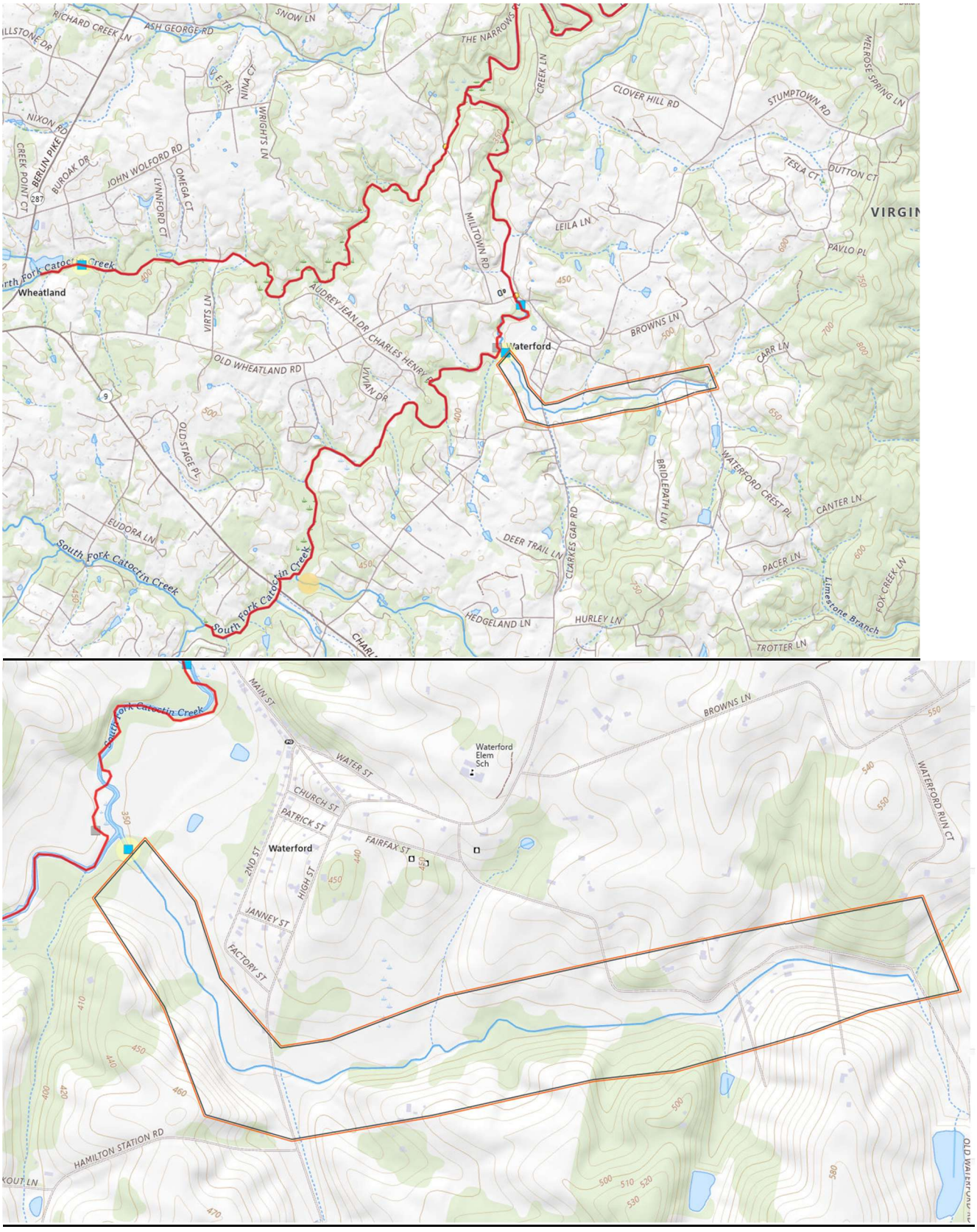
E-mail address: aulland@loudounwildlife.org

Home telephone: **Business telephone: (571) 293-1696**

(1) Name of the water body or water bodies proposed for monitoring:

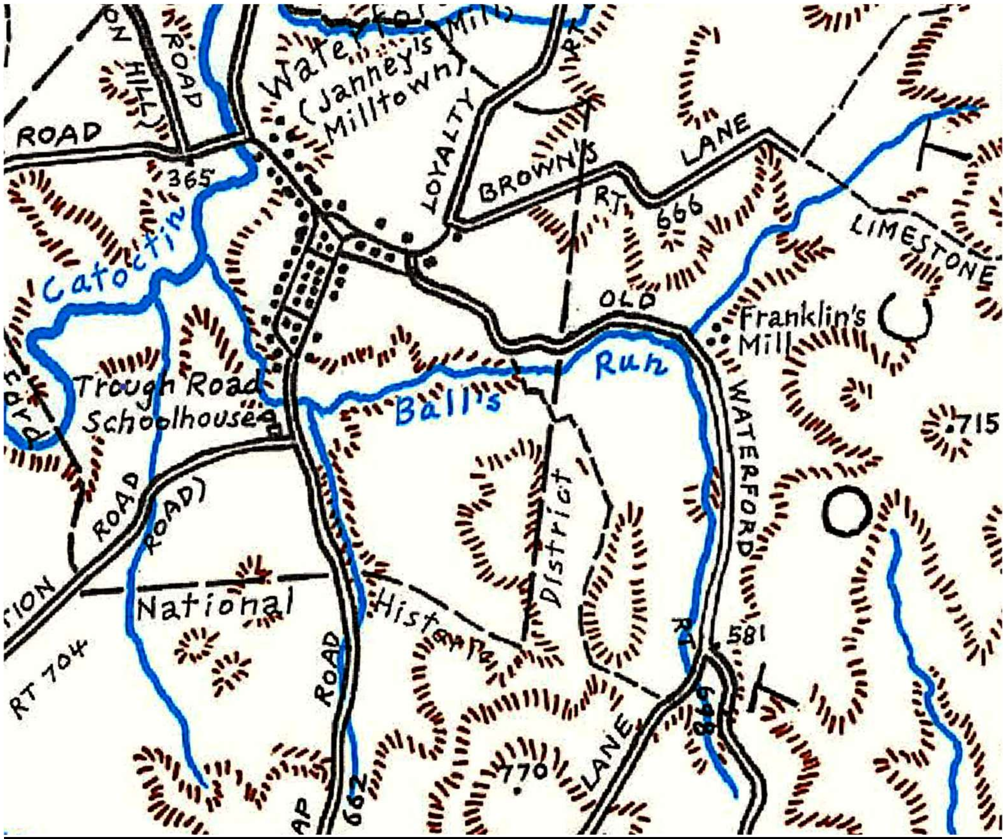
Balls Run Tributary to South Fork Catoctin Creek.

(2) Site maps



The stream name appears in a historic map by Eugene Scheel. https://www.loudounhistory.org/history/eugene-

scheel/


ROAD
365
Catoctin
(Janney's Milltown)
LOYALTY
BROWN'S
LANE
RT 666
LIMESTONE
OLD
Franklin's Mill
Run
Ball's
Trough Road Schoolhouse
WATERFORD
.715
ROAD
ROAD)
National
Historic
District
RT 704
ROAD
581
RT 698
770
LANE
662

(3) Monitoring objective.

The site is just south of the Village of Waterford. The area is rural and presently cattle visit the downstream portion of the stream. The stream discharges to South Fork Catoctin Creek which has an impairment for aquatic life use. We wish DEQ to assess if Balls Run is contributing to this impairment.

(4) Water quality data are integrated into map application.

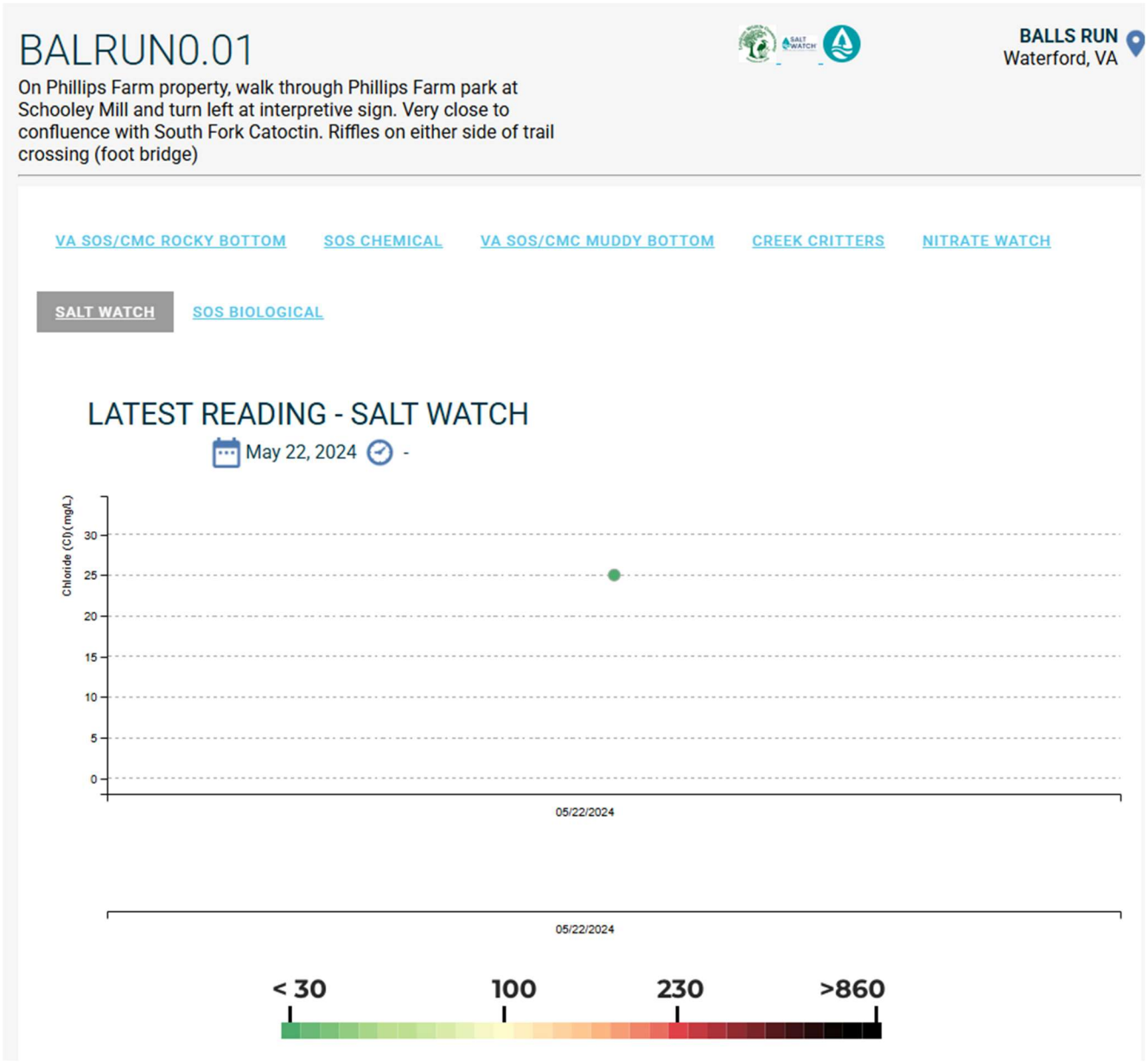
There are limited data on the tributary stream. Citizen data collected in 2024 suggest good stream health.

Balls Run-BALRUN0.01

Table Edit Get directions Zoom to

Note	
Row_Labels	Balls Run-BALRUN0.01
Description	On Phillips Farm property, walk through Phillips Farm park at Schooley Mill and turn left at interpretive sign. Very close to confluence with South Fork Catoctin. Riffles on either side of trail crossing (foot bridge).
F2008	
F2009	
F2010	
F2011	
F2012	
F2013	
F2014	
F2015	
F2016	
F2017	
F2018	
F2019	
F2020	
F2021	
F2022	
F2023	
F2024	9.500000

There is only one observation which does not show elevated salt levels.



Site 4: UT Horsepen Upstream

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date:** 4/18/2025

Mailing Address: PO Box 1892

City: Leesburg **State:** VA **Zip:** 20177

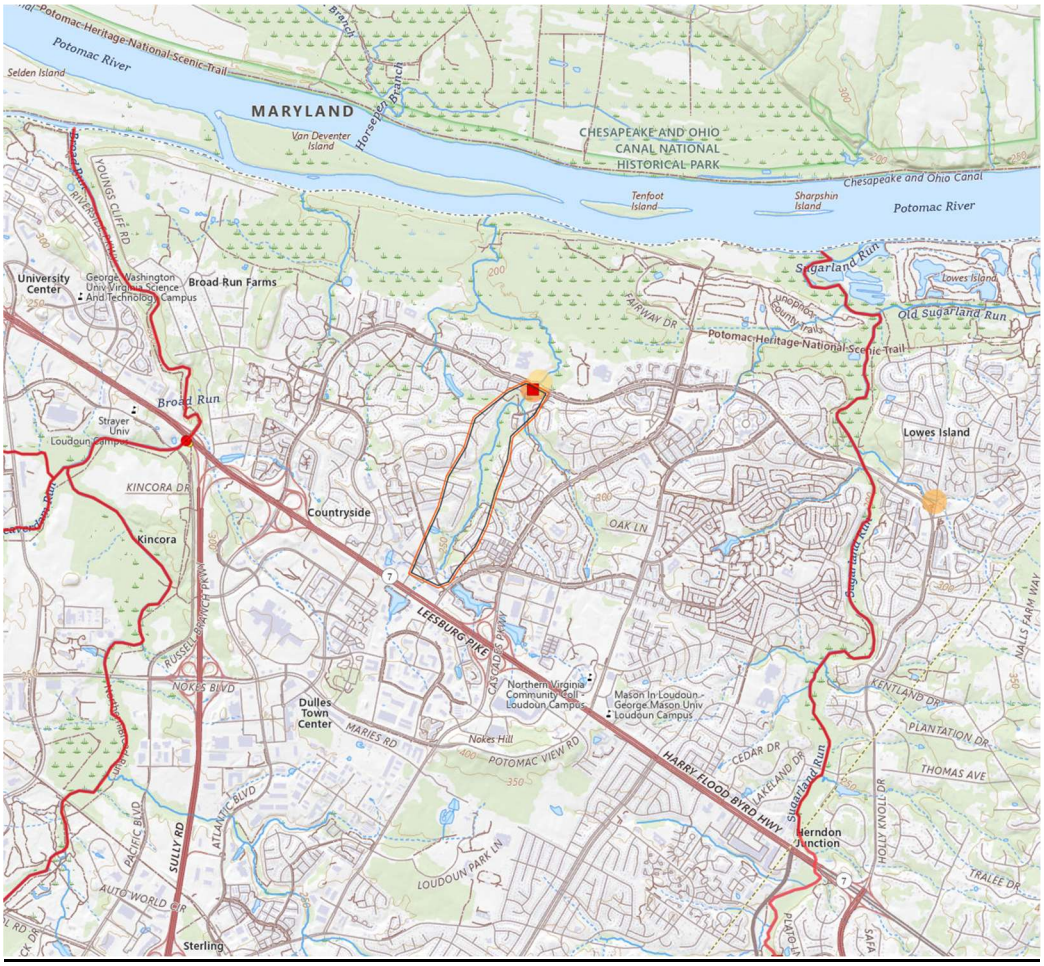
E-mail address: aulland@loudounwildlife.org

Home telephone: _____ **Business telephone:** (571) 293-1696

(1) Name of the water body or water bodies proposed for monitoring:

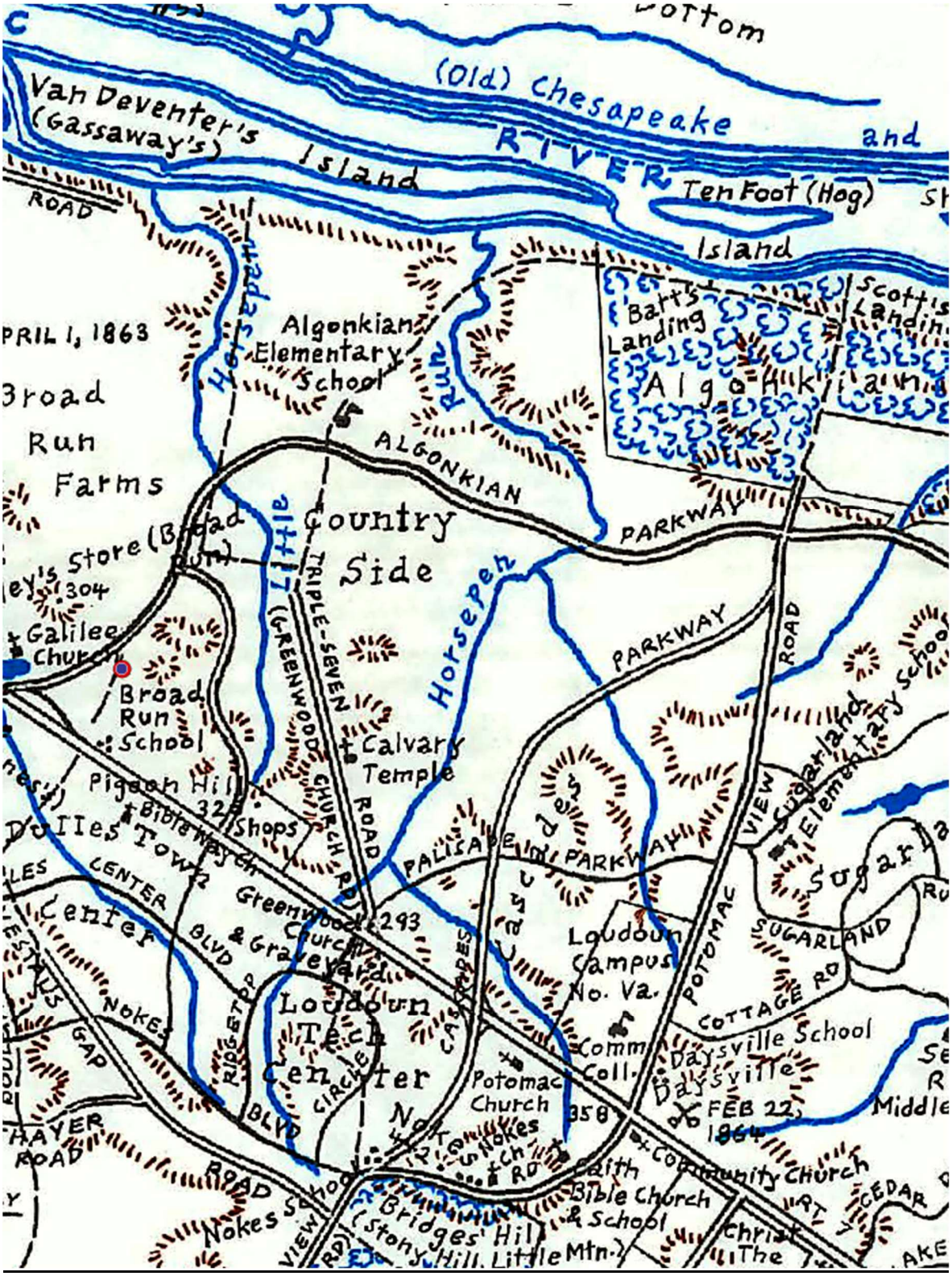
Unnamed Tributary - Horsepen Run - Upstream

(2) Site maps


Potomac-Heritage-National-Scenic-Trail
Potomac River
Selden Island
MARYLAND
Van Deventer Island
Horsepen Branch
CHESAPEAKE AND OHIO CANAL NATIONAL HISTORICAL PARK
Tenfoot Island
Sharpshin Island
Chesapeake and Ohio Canal
Potomac River
Sugarland Run
Lowes Island
Old Sugarland Run
Potomac-Heritage-National-Scenic-Trail
University Center
George Washington Univ Virginia Science And Technology Campus
Broad Run Farms
Broad Run
Strayer Univ
Loudoun Campus
KINCORA DR
Kincora
Countryside
OAK LN
LEESBURG PIKE
CAROLINE PKWY
RUSSELL BRANCH PKWY
NOKES BLVD
Dulles Town Center
MARIES RD
Nokes Hill
POTOMAC VIEW RD
Northern Virginia Community Coll - Loudoun Campus
Mason In Loudoun - George Mason Univ Loudoun Campus
HARRY FLOOD BYRD HWY
CEDAR DR
LAKELAND DR
Sugarland Run
Herndon Junction
KENTLANDS DR
PLANTATION DR
THOMAS AVE
HOLLY KNOLL DR
TRALEE DR
NALLS FARM WAY
ATLANTIC BLVD
PACIFIC BLVD
SULLY RD
AUTO WORLD CIR
LOUDOUN PARK LN
Sterling
AIRWAY DR
Loudoun County Trails


ALGONKIAN PKWY
RUTHERFORD CIR
E WILTSHIRE CT
WEBLEY CT
CARROLLTON RD
SUMMER BREEZE CT
STAFFORD CT
ENVIRONS RD
PRIMAVERA CIR
HALIFAX CT
COUNTRY RD
HEATHER GLEN RD
GLADE ST
MARKWOOD DR
COPPER CT
REGINA DR
NICHOLSON CT
BERKELEY CT
EDDS LN
DULANY CT
WESTWICK CT
PIDGEON HILL DR
RIPPLESEVEN RD
REGAL PLZ
LEESBURG PIKE
PALISADE PKWY
WESTLAKE DR
CHESTER TER
WESTRIDGE DR
TERRIE DR
IRIS DR
Loudoun County Trails
TRILLUM SQ
MARSH CT
CUTWATER PL
HELMSFORD CT
LINCHINGFIELD CT
SULGRAVE CT
BELWOOD CT
SERENITY CT
SANDSTONE SQ
Potowmack Elem Sch

The stream name appears in a historic map by Eugene Scheel. https://www.loudounhistory.org/history/eugene-scheel/

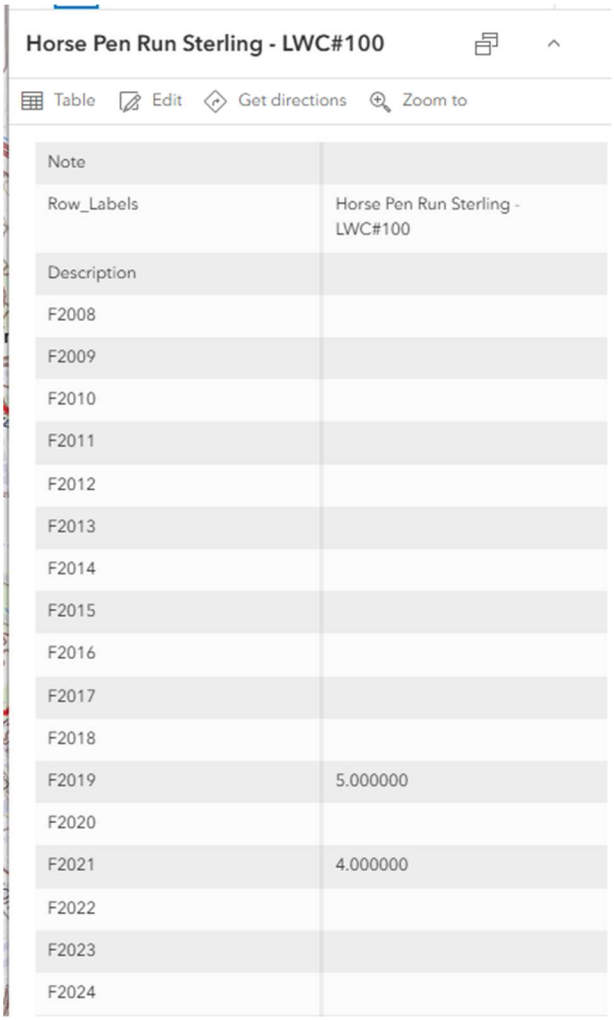


(3) Monitoring objective.

The site is in a well-established residential neighborhood, constructed several decades ago. The area has relatively recent stormwater infrastructure which discharges directly to the stream.

(4) Water quality data are integrated into map application.

Citizen data in 2019 and 2021 showed poor stream health.



Note	
Row_Labels	Horse Pen Run Sterling - LWC#100
Description	
F2008	
F2009	
F2010	
F2011	
F2012	
F2013	
F2014	
F2015	
F2016	
F2017	
F2018	
F2019	5.000000
F2020	
F2021	4.000000
F2022	
F2023	
F2024	

Citizen data at approximately the same downstream location in 2024 showed possibly stream health improvement.

Horse Pen Run-UTHORRUN0.89

Table Edit Get directions Zoom to

Note	
Row_Labels	Horse Pen Run-UTHORRUN0.89
Description	
F2008	
F2009	
F2010	
F2011	
F2012	
F2013	
F2014	
F2015	
F2016	
F2017	
F2018	
F2019	
F2020	
F2021	
F2022	
F2023	
F2024	7.000000

UTHORRUN0.89

Formerly known as Horse Pen Run Sterling - LWC#100. Park at Rutherford Circle and take trail to right. Sample between footbridge and Algonkian Parkway (upstream of Algonkian bridge).

UNNAMED TRIB OF HORSE PEN RUN
Sterling, VA

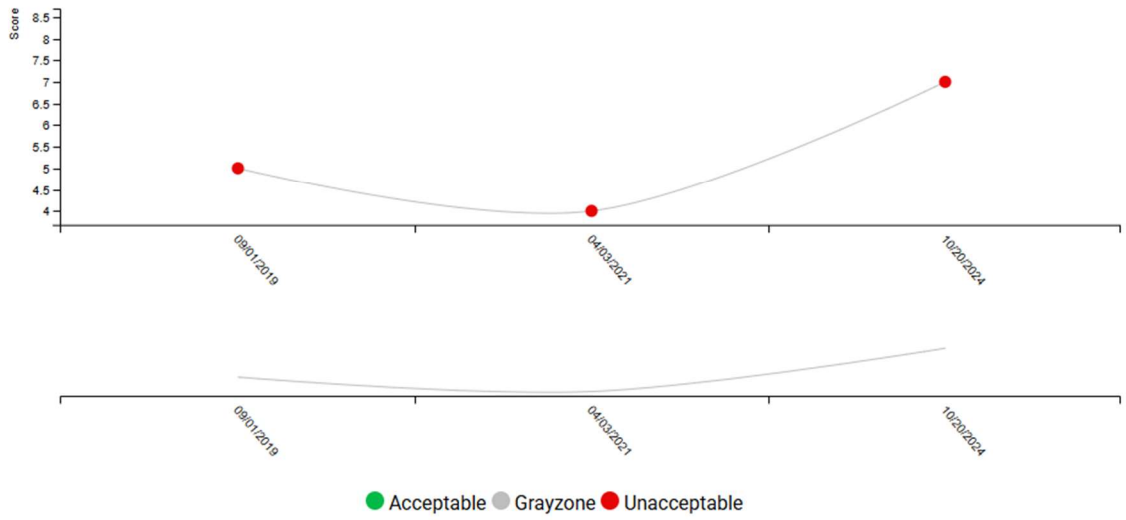
VA SOS/CMC MUDDY BOTTOM | VA SOS/CMC ROCKY BOTTOM | SOS BIOLOGICAL | SOS CHEMICAL | CREEK CRITTERS

NITRATE WATCH | SALT WATCH

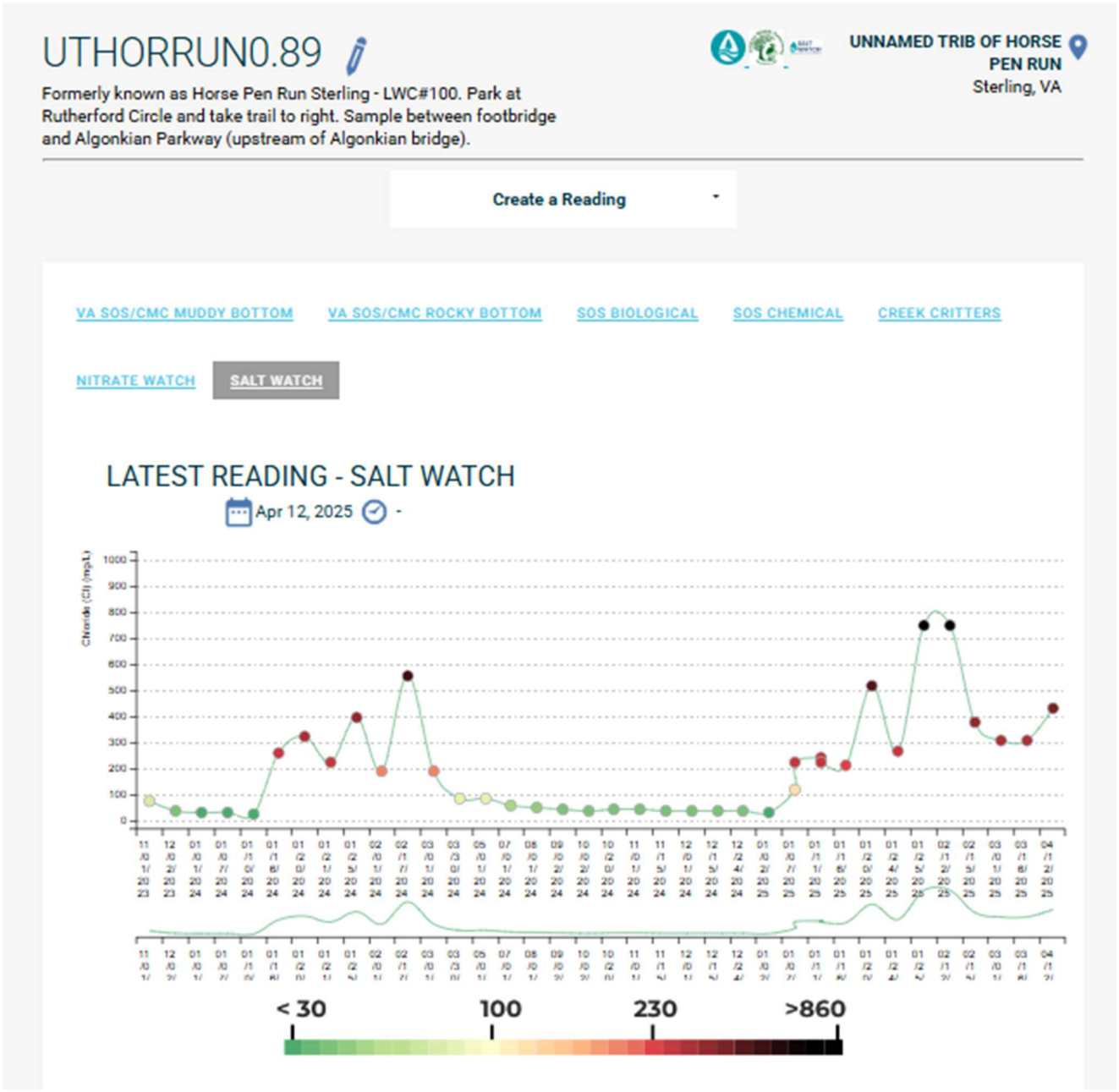
LATEST READING - VA SOS/CMS ROCKY BOTTOM

Oct 20, 2024

CREATE A VA SOS/CMC ROCKY BOTTOM READING



Salt levels suggest that this may contribute to the aquatic life conditions.



Site 5: Dutchmans Creek

REQUEST TO INCLUDE A WATER SEGMENT IN DEQ'S ANNUAL MONITORING PLAN

Name: Amy Ulland **Date:** 4/18/2025

Mailing Address: PO Box 1892

City: Leesburg **State:** VA **Zip:** 20177

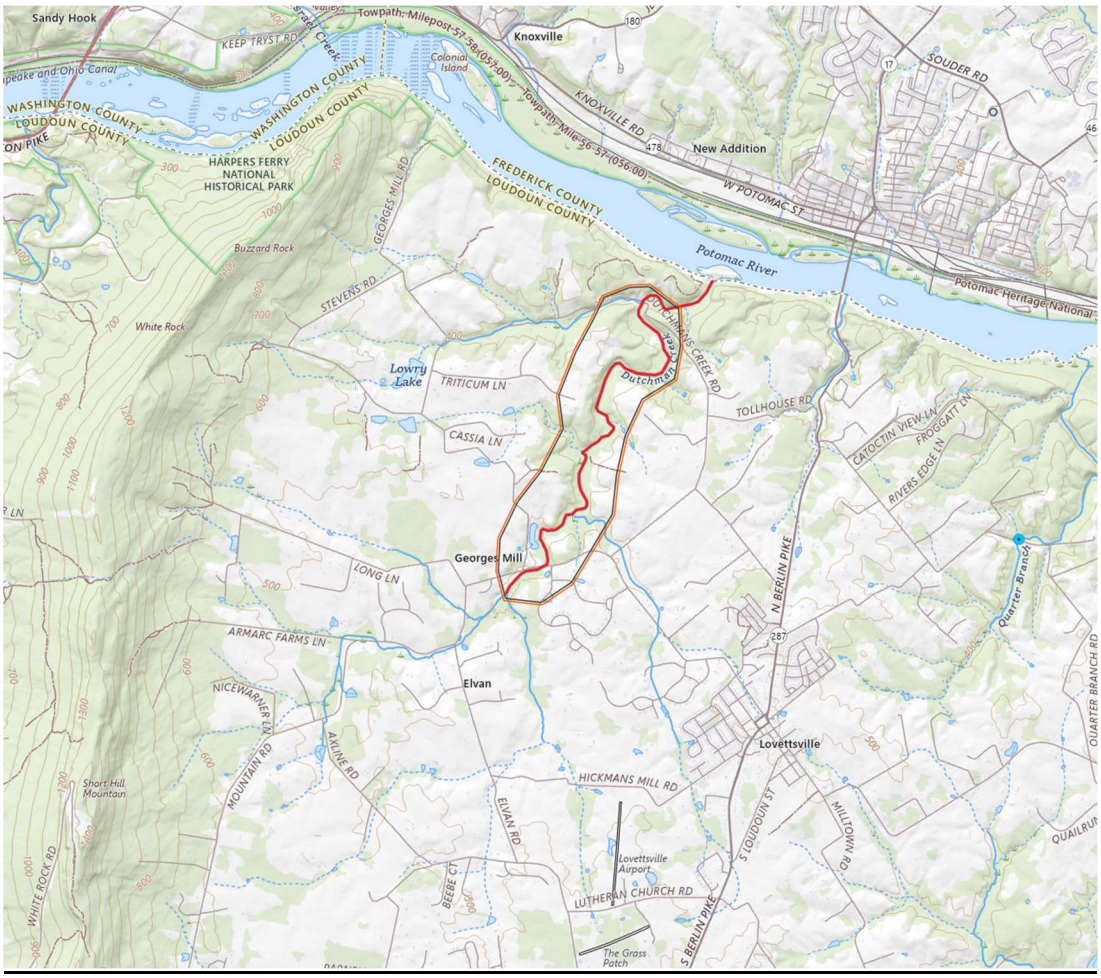
E-mail address: aulland@loudounwildlife.org

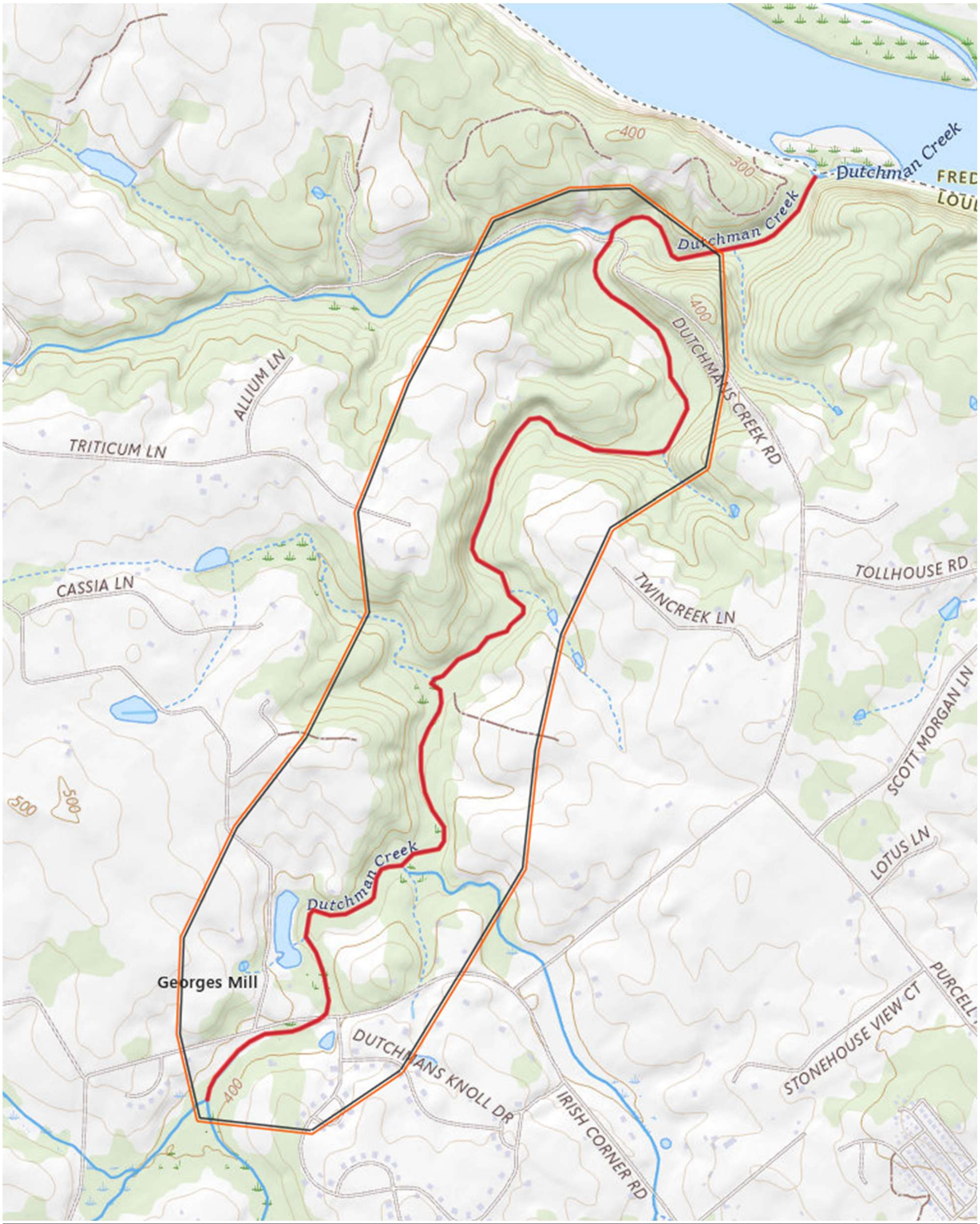
Home telephone: _____ **Business telephone:** (571) 293-1696

(1) Name of the water body or water bodies proposed for monitoring:

Dutchmans Creek

(2) Site maps


Sandy Hook
KEEP TRYST RD
Towpath: Milepost 57.58 (057.00)
Knoxville
Colonial Island
SOUDER RD
WASHINGTON COUNTY
LOUDOUN COUNTY
KNOXVILLE RD
New Addition
Towpath: Mile 56.57 (056.00)
W POTOMAC ST
HARPERS FERRY NATIONAL HISTORICAL PARK
FREDERICK COUNTY
GEORGES MILL RD
Potomac River
Potomac Heritage National
Buzzard Rock
STEVENS RD
White Rock
Lowry Lake
TRITICUM LN
Dutchman Creek
DUTCHMANS CREEK RD
TOLLHOUSE RD
CATOCTIN VIEW LN
FROGGATT LN
RIVERS EDGE LN
CASSIA LN
Georges Mill
LONG LN
N BERLIN PIKE
Quarter Branch
ARMARC FARMS LN
Elvan
NICEWARNER LN
MOUNTAIN RD
AXLINE RD
Lovettsville
HICKMANS MILL RD
Short Hill Mountain
ELVAN RD
S LOUDOUN ST
MILLTOWN RD
Lovettsville Airport
LUTHERAN CHURCH RD
BEEBE CT
WHITE ROCK RD
The Grass Patch
S BERLIN PIKE

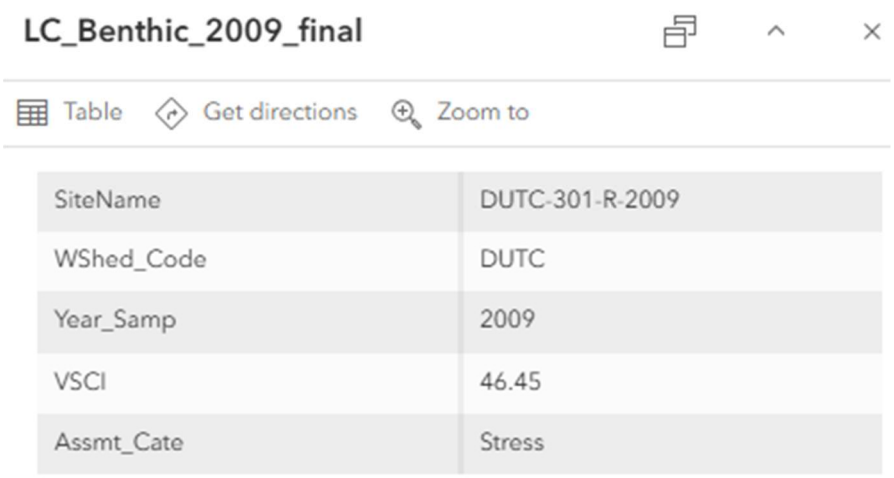

Dutchman Creek
FRED
LOUD
400
300
Dutchman Creek
400
DUTCHMANS CREEK RD
ALLIUM LN
TRITICUM LN
CASSIA LN
TWINCREEK LN
TOLLHOUSE RD
SCOTT MORGAN LN
500
500
LOTUS LN
Dutchman Creek
Dutchman Creek
Georges Mill
PURCELL
STONEHOUSE VIEW CT
DUTCHMANS KNOLL DR
IRISH CORNER RD
400

(3) Monitoring objective.

The site is in a rural area. We nominate this location to build a baseline of stream conditions and to confirm that aquatic life use impairment is still valid from data which is 10 years old.

(4) Water quality data are integrated into map application.

The 2009 data downstream indicated Stress and Optimal conditions.



Loudoun County 2009 Habitat: DUTC-301-R-2009

Table | Edit | Get directions | Zoom to

AbleSample	Y
AreaSampl	2.00
BankStab_L	9
BankStab_R	9
BankStab_T	18
Beavers	0
BenthicMet	Single Habitat (Riffle)
BenthicSit	Y
Calibrated	AB
ChanAlter	18
ChanFlowSt	16
Comments	
Conduct	0.13
Corbicula	0
Crayfish	0
CurWeather	Cloudy
CWater_Fis	0
Date_	May 4, 2009
DEQ_Site_D	
DEQ_Site_L	
DEQ_SiteNa	
DO	11.60
DuckGeese	0
Embed	17
Emerg_Macr	0
EpiFSub_Av	15
FID_Habita	459

Loudoun County 2009 Habitat: DUTC-301-R-2009

Table | Edit | Get directions | Zoom to

Index_Num	1.00
LU_Com	0
LU_Crop	0
LU_Forest	1
LU_Golf	0
LU_Landfil	0
LU_OldFiel	0
LU_Orch	0
LU_Pasture	0
LU_Res	1
LU_SurMine	0
LU_Wetland	0
Muskrats	0
ndReviewer	AB
NoAbleSamp	
NOper_Snai	0
Oper_Snail	0
Other	
OtherNum	0
Periphyton	0
ph	8.10
ProblemNot	N
PSU_Number	2.00
RBP_Rating	Optimal
RecRain	Clear
RiffleQual	Good
RipVegZo_1	10

The 2009 data upstream indicated Optimal conditions.

Loudoun County 2009 Habitat: DUTC-302-H-2009

Table | Edit | Get directions | Zoom to

AbleSample	Y
AreaSampl	0.00
BankStab_L	8
BankStab_R	8
BankStab_T	16
Beavers	0
BenthicMet	
BenthicSit	N
Calibrated	FRANKS/HAGE
ChanAlter	19
ChanFlowSt	16
Comments	LANDOWNER INFORMED US THAT SEWAGE TREATMENT PLANT OUTFALLS INTO DOBBINS CREEK- THE TRIB THAT JOINS THIS CREEK UPSTREAM OF THIS SAMPLING POINT.
Conduct	0.19
Corbicula	0
Crayfish	0
CurWeather	Clear
CWater_Fis	0
Date_	June 29, 2009
DEQ_Site_D	
DEQ_Site_L	
DEQ_SiteNa	
DO	9.00
DuckGeese	0
Embed	16
Emerg_Macr	1

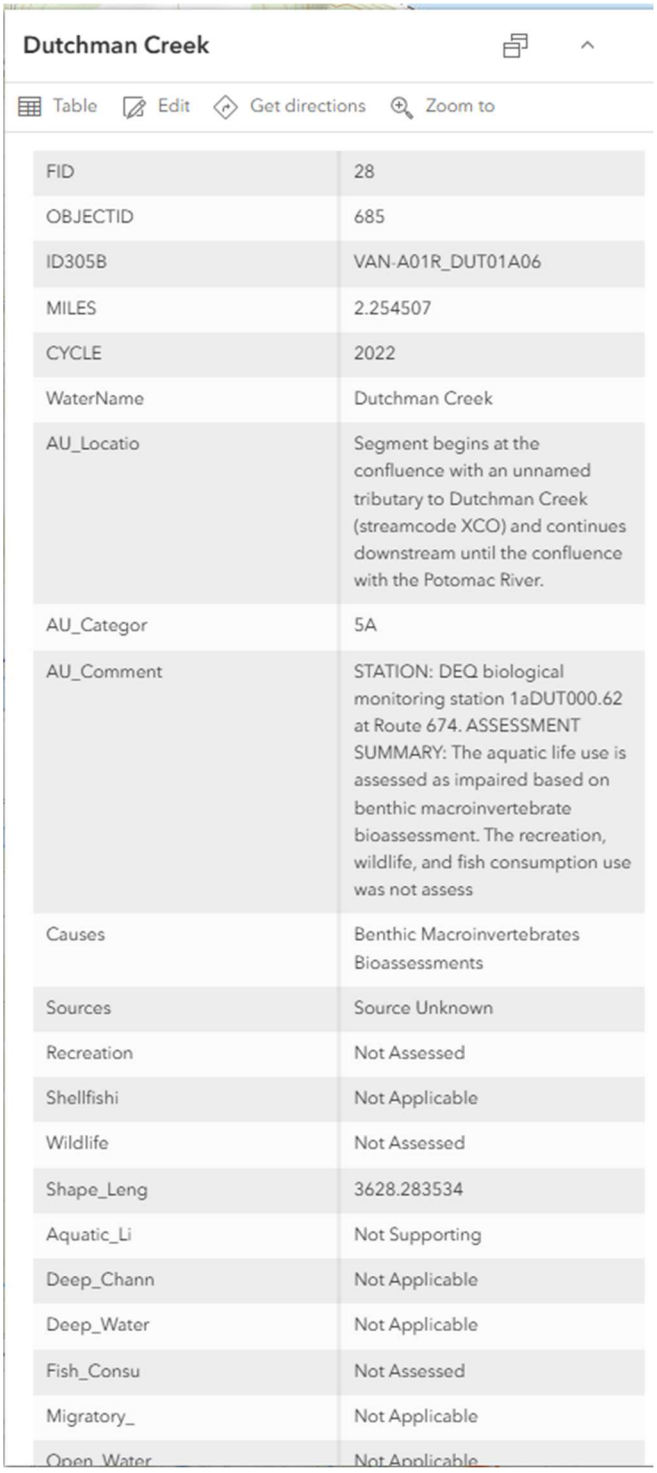
Loudoun County 2009 Habitat: DUTC-302-H-2009

Table | Edit | Get directions | Zoom to

HabSampSna	0.00
HabSampVeg	0.00
HUC12	020700080202
Index_Num	2.00
LU_Com	0
LU_Crop	0
LU_Forest	1
LU_Golf	0
LU_Landfil	0
LU_OldFiel	0
LU_Orch	0
LU_Pasture	0
LU_Res	1
LU_SurMine	0
LU_Wetland	0
Muskrats	0
ndReviewer	TH
NoAbleSamp	
NOper_Snai	0
Oper_Snail	0
Other	
OtherNum	0
Periphyton	1
ph	7.41
ProblemNot	N
PSU_Number	2.00
RBP_Rating	Optimal
RecRain	Clear
RiffleQual	

There are no citizen data on this reach, nor any salt data.

The reach is impaired for aquatic life based on data in 2015 and 2016.



Dutchman Creek

Table | Edit | Get directions | Zoom to

FID	28
OBJECTID	685
ID305B	VAN-A01R_DUT01A06
MILES	2.254507
CYCLE	2022
WaterName	Dutchman Creek
AU_Locatio	Segment begins at the confluence with an unnamed tributary to Dutchman Creek (streamcode XCO) and continues downstream until the confluence with the Potomac River.
AU_Categor	5A
AU_Comment	STATION: DEQ biological monitoring station 1aDUT000.62 at Route 674. ASSESSMENT SUMMARY: The aquatic life use is assessed as impaired based on benthic macroinvertebrate bioassessment. The recreation, wildlife, and fish consumption use was not assess
Causes	Benthic Macroinvertebrates Bioassessments
Sources	Source Unknown
Recreation	Not Assessed
Shellfishi	Not Applicable
Wildlife	Not Assessed
Shape_Leng	3628.283534
Aquatic_Li	Not Supporting
Deep_Chann	Not Applicable
Deep_Water	Not Applicable
Fish_Consu	Not Assessed
Migratory_	Not Applicable
Open_Water	Not Applicable

Downstream DEQ data.

VA_DEQ_EDAS_VSCI_March_2025 - Dutchman Creek

ObjectID	31
Row_Labels	1ADUT000.62
StreamName	Dutchman Creek
Location	Rt. 674
Type	Biomon
SurveyReas	Citizen Request
Lat	39.306667
Long_	-77.651389
Long_DD	-77.651389

Spring_2015	57.943252
Fall_2015	59.987279
Spring_2016	50.97447
Fall_2016	64.273613

Upstream DEQ data.

VA_DEQ_EDAS_VSCI_March_2025 - Dutchman Creek

ObjectID	32
Row_Labels	1ADUT002.72
StreamName	Dutchman Creek
Location	Rt. 673 (Irish Corner Rd.)
Type	Biomon
SurveyReas	Citizen Request and Citizen monitoring FU to 1ADUT-2-LWC, VAN-A01R_DUT02A06
Lat	39.286944
Long_	-77.660833
Long_DD	-77.660833

Spring_2015	56.759679
Fall_2015	<Null>
Spring_2016	44.366231
Fall_2016	66.485494

Possibly this site could be delisted in the future.

Appendix A: Detailed Rating Scores

Stream Evaluation Criteria	Weight	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
		Dutchmans Creek		Balls Run		Dry Mill Branch		Beaverdam Run - SW		UT Horsepen	
Is there potential for habitat restoration or conservation work at this site?	3	2	6	3	9	3	9	3	9	2	6
Is the stream at risk for future impairment (e.g., rapid development, runoff sources)?	3	2	6	2	6	3	9	3	9	3	9
Does the site meet DEQ's nomination requirements?	3	3	9	3	9	3	9	3	9	3	9
Is the stream currently listed as impaired for aquatic life? Or healthy	2.75	3	8.25	3	8.25	3	8.25	3	8.25	1	2.75
Is the stream easily accessible for volunteers and staff?	2.5	2	5	3	7.5	3	7.5	3	7.5	3	7.5
Does the stream show signs of chloride (salt) pollution?	2.5	0	0	1	2.5	1	2.5	3	7.5	3	7.5
Do we have existing or historic benthic data at this site?	2.25	2	4.5	2	4.5	3	6.75	3	6.75	2	4.5
Does the site align with LWC program goals (e.g., filling regional gaps, education, monitoring known pollution sources, landowner partnerships, documenting healthy streams)?	2	2	4	3	6	3	6	3	6	3	6
Could the site support community engagement, youth education, or public programming?	2	1	2	3	6	3	6	2	4	3	6
Total of Weighted Scores:			**44.75**		**58.75**		**64**		**67**		**58.25**

Appendix B: Map Legend