WELCOME

TO THE

LAKE ACCOTINK PARK MASTER PLAN REVISION

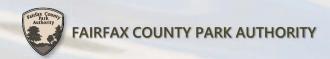
NATURAL, WATER, & CULTURAL RESOURCES COMMUNITY DISCUSSION

APRIL 24, 2017



TONIGHT'S AGENDA

- PRESENTATION -
 - RESOURCES AND THE PARK MASTER PLAN
 - NATURAL RESOURCES KRISTEN SINCLAIR
 - CULTURAL RESOURCES JOHN RUTHERFORD
 - WATER RESOURCES DANIELLE WYNNE
- OPEN HOUSE RESOURCE STATIONS





PROJECT IN A NUTSHELL

- A PARK MASTER PLANS ESTABLISHES A LONG-RANGE VISION TOWARDS FUTURE PARK USES AND SITE DEVELOPMENT, SPECIFIC TO AN INDIVIDUAL PARK
- A MASTER PLAN REVISION PROVIDES A CHANCE TO REVIEW AN EXISTING PLAN FOR A PARK AND DETERMINE HOW WELL IT IS MEETING THE NEEDS OF THE COMMUNITY TODAY AND TO FURTHER PLAN FOR THE FUTURE.
- THE LAST TIME THE MASTER PLAN FOR LAKE ACCOTINK PARK WAS UPDATED WAS IN 1992.
- WE ARE SEEKING TO UNDERSTAND HOW COMMUNITY PREFERENCES AND EXPECTATIONS HAVE CHANGED SINCE THE LAST PLAN UPDATE.



PUBLIC INFORMATION MEETING/OPEN HOUSE

- MARCH 14, 2016
- UNDERSTANDING OF THE PROCESS
- SHARE SOME INFORMATION ABOUT THE PARK

LAKE SUSTAINABILITY WORKSHOP

- JUNE 16, 2016
- DISCUSSED THE DIFFICULTY OF MANAGING SEDIMENT THAT FLOWS INTO LAKE ACCOTINK
- AS A GROUP, DISCUSSED A RANGE OF POSSIBILITIES THAT COULD BE CONSIDERED.



FACILITIES, PROGRAMMING, AND USAGE WORKSHOP

- OCTOBER 27, 2016
- TO BETTER UNDERSTAND HOW YOU USE THE PARK
- WHAT TYPES OF FACILITIES AND PROGRAMMING BEST SUIT YOUR NEEDS

TRAILS WORKSHOP

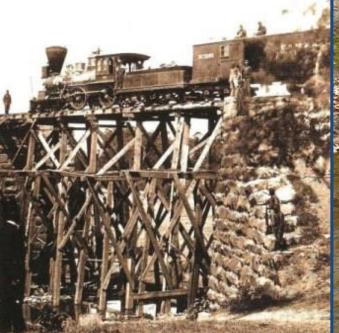
- DECEMBER 5, 2016
- TO BETTER UNDERSTAND HOW YOU USE TRAILS
- WHAT MIGHT IMPROVE YOUR TRAIL EXPERIENCE



RESOURCES

NATURAL I ◆ CULTURAL I ◆ WATER



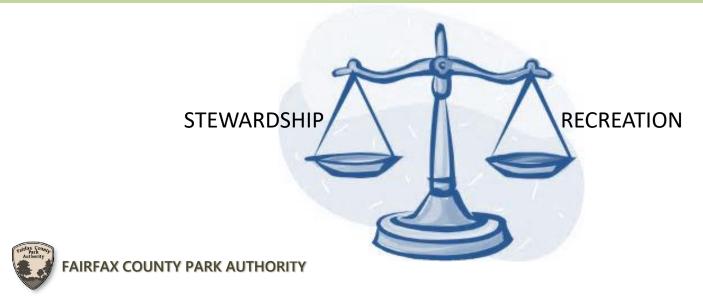




PARK AUTHORITY MISSION STATEMENT

To set aside public spaces for and assist citizens in the protection and enhancement of environmental values, diversity of natural habitats and cultural heritage to guarantee that these resources will be available to both present and future generations.

To create and sustain quality facilities and services which offer citizens opportunities for recreation, improvement of their physical and mental well being, and enhancement of their quality of life





INCREASING STRESSES ON THE LAND FROM AREA GROWTH

MORE PEOPLE
MORE DEVELOPMENT
MORE RUNOFF
MORE POLLUTANTS
INVASIVE SPECIES
HIGH LEVELS OF DEER POPULATION



RESPONDING TO DECISIONS MADE 50+ YEARS AGO

DEVELOPMENT WITH LITTLE TO NO STORMWATER CONTROL DIFFERENT DEVELOPMENT STANDARDS

INCREASING KNOWLEDGE AND UNDERSTANDING





RESOURCE PROTECTION ZONES

- DEFINE THE RESOURCES
- ANALYZE THEIR DEGREE OF SENSITIVITY
- DIRECT DEVELOPMENT AWAY FROM SENSITIVE AREAS
- FRAME THE PICTURE OF WHERE USES SHOULD BE PLACED
- INFORM INTERPRETIVE ELEMENTS AND PROGRAMS
- PROVIDE BASIS FOR FUTURE ENHANCEMENT/RESTORATION PROJECTS



NATURAL RESOURCES

KRISTEN SINCLAIR, ECOLOGIST III

NATURAL RESOURCE BRANCH
FAIRFAX COUNTY PARK AUTHORITY





TOPIC OVERVIEW

- EXISTING CONDITIONS OF PARK NATURAL RESOURCES
- ONGOING EFFORTS AT LAKE ACCOTINK PARK
 - CONDUCT INVENTORY
 - MANAGE RESOURCES





NATURAL RESOURCES

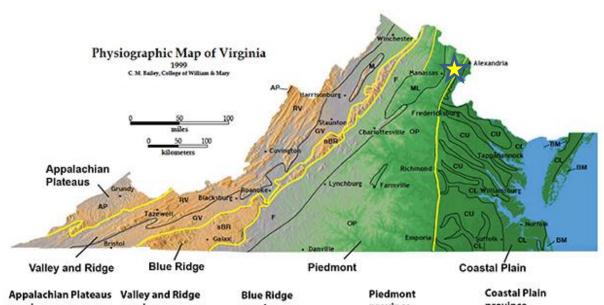
- GEOGRAPHY, TOPOGRAPHY AND SOILS
- WATER RESOURCES
- VEGETATION
 - NATURAL COMMUNITIES
 - NON-NATIVE INVASIVE SPECIES
- WILDLIFE
- RARE, THREATENED AND ENDANGERED SPECIES





GEOGRAPHY, TOPOGRAPHY AND SOILS

PIEDMONT PHYSIOGRAPHIC PROVINCE OF VIRGINIA



province

AP: Appalachian Plateaus

province

RV: Ridge and Valley subprovince GV: Great Valley subprovince M: Masanutten Mountain

province

nBR: northern Blue Ridge subprovince sBR - southern Blue Ridge subprovince

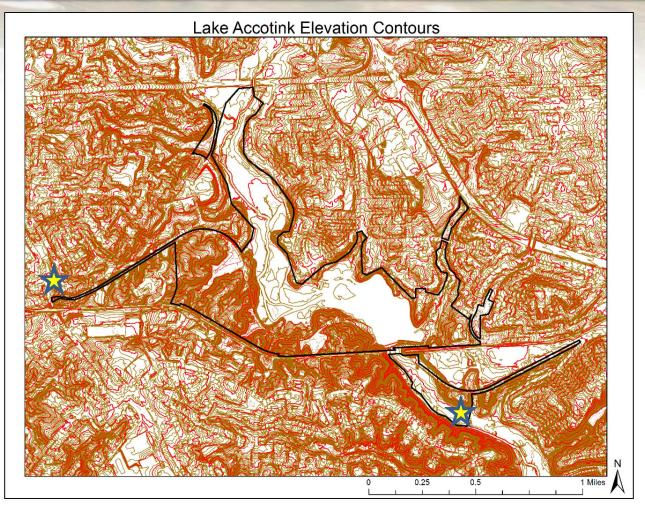
province

F: Foothills subprovince ML: Mesozoic Lowlands subprovince OP: Outer Piedmont subprovince

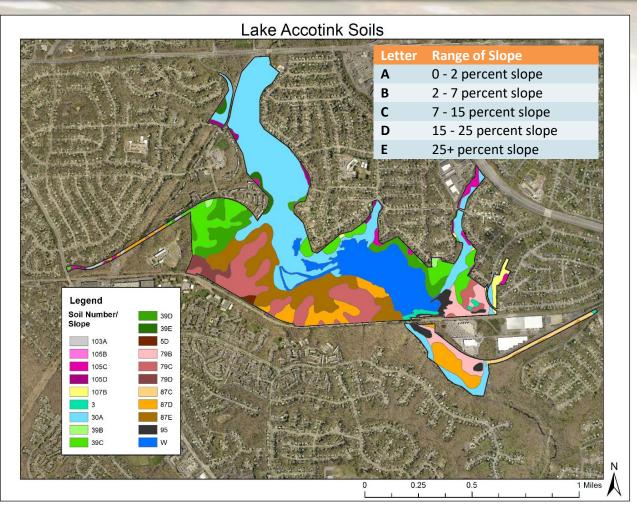
province

CU: Upland subprovince CL: Lowland subprovince BM: Barrier Islands and Salt Marshes











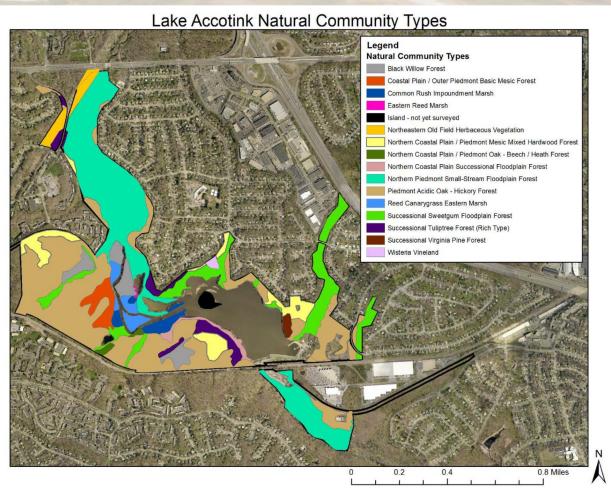
VEGETATION

- 1992: "COMPLETE" PLANT LIST IN APPENDIX OF GENERAL MANAGEMENT PLAN WITH HABITAT TYPES
- 2001: FOREST STAND DELINEATION
- 2016: NATURAL VEGETATION COMMUNITY CLASSIFICATION



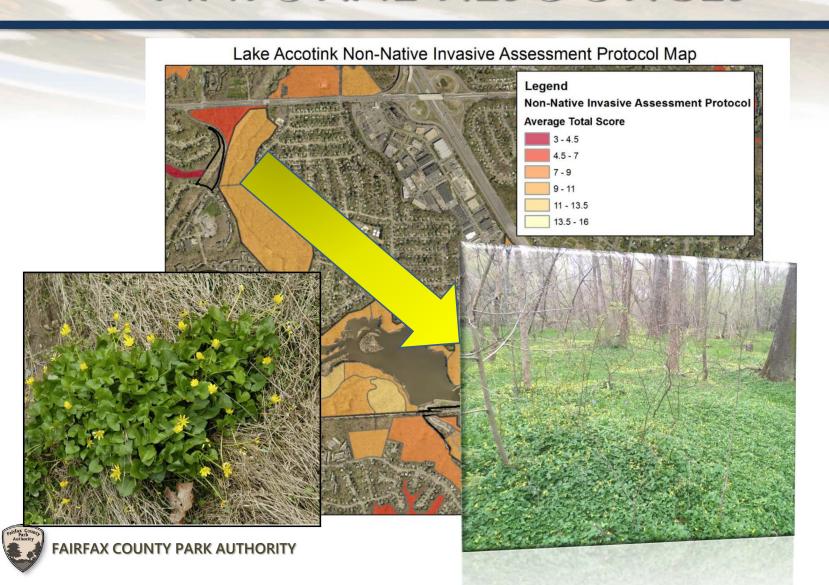












WILDLIFE

- BIRDS, BIRDS, BIRDS!
- 146 SPECIES LISTED IN EBIRD



WILDLIFE

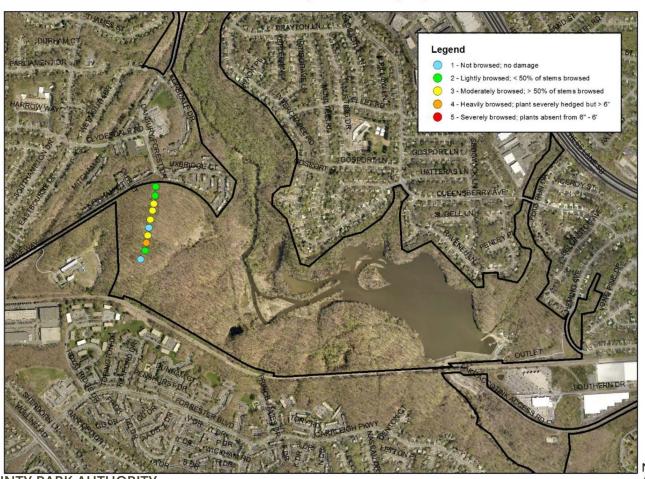
- MAMMALS: WHITE-TAILED DEER, COYOTE, BEAVER, MUSKRAT, WOODCHUCK, RED FOX, EASTERN GRAY SQUIRREL, VIRGINIA OPOSSUM, EASTERN CHIPMUNK, EASTERN COTTONTAIL RABBIT, RED FOX, BATS.
- REPTILES: NORTHERN WATERSNAKE, NORTHERN COPPERHEAD, EASTERN GARTERSNAKE, EASTERN RATSNAKE, EASTERN BOX TURTLE, PAINTED TURTLE, SNAPPING TURTLE, RED-EARED SLIDER, COMMON FIVE-LINED SKINK.
- AMPHIBIANS: BULLFROG, WOOD FROG, GREEN FROG, SPRING
 PEEPER, UPLAND CHORUS FROG, PICKEREL FROG, AMERICAN TOAD.



AQUATIC SPECIES: FRESHWATER MUSSELS, AQUATIC INSECTS, FISH.



Lake Accotink Browse Impact Survey April 13, 2017



0.175



RARE, THREATENED AND ENDANGERED SPECIES

- NONE CURRENTLY KNOWN FROM LAKE ACCOTINK PARK
- SURVEYS FOR WOOD TURTLE AND ROUGH AVENS WERE CONDUCTED IN 2015/2016; NONE LOCATED.
- POTENTIAL FOR BATS: TRICOLORED BAT AND NORTHERN LONG-EARED BAT







MANAGEMENT OF PARK RESOURCES

- WATERSHED LEVEL
 - STREAM RESTORATION, LAKE SUSTAINABILITY
 - REQUIRES INTERAGENCY COORDINATION, REGULATORY OVERSIGHT
- PARK LEVEL
 - SITE STAFF AND PARK OPERATIONS DIVISION
 - NEW NATURALIST AND EDUCATIONAL PROGRAMMING STAFF
 - SPECIAL PROJECTS
 - TRAILS, NON-NATIVE INVASIVE SPECIES, DEER MANAGEMENT
 - VOLUNTEERS



NATURAL RESOURCE VOLUNTEERS

- INVASIVE MANAGEMENT AREA PROGRAM
- FAIRFAX COUNTY DEER MANAGEMENT PROGRAM
- RESIDENT CANADA GOOSE MANAGEMENT
- FRIENDS OF LAKE ACCOTINK PARK
 - WATERSHED CLEANUP DAYS
 - STREAM WATER QUALITY MONITORING



Volunteer









CITIZEN SCIENCE OPPORTUNITIES

- STATE OR NATIONAL FRAMEWORK TO CREATE LARGE DATASET
- STANDARD DATA COLLECTION PROTOCOL AND ONLINE DATABASE
 - FROGWATCH USA (SMITHSONIAN NATIONAL ZOO CHAPTER)
 - VIRGINIA BREEDING BIRD ATLAS 2 (VIRGINIA TECH, 2016-2020)







CULTURAL RESOURCES

JOHN RUTHERFORD, HERITAGE RESOURCE SPECIALIST

RESOURCE MANAGEMENT

FAIRFAX COUNTY PARK AUTHORITY





TOPIC OVERVIEW

- EXISTING CONDITIONS OF PARK CULTURAL RESOURCES
- EFFORTS AT LAKE ACCOTINK PARK TO INVENTORY AND MANAGE CULTURAL RESOURCES
- MASTER PLAN GOALS FOR CULTURAL RESOURCES



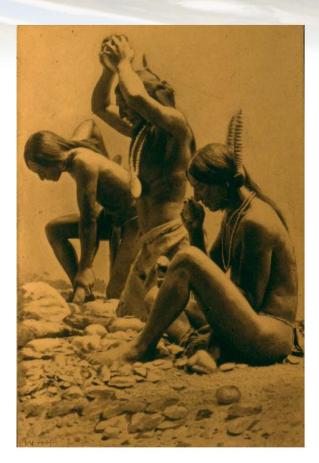


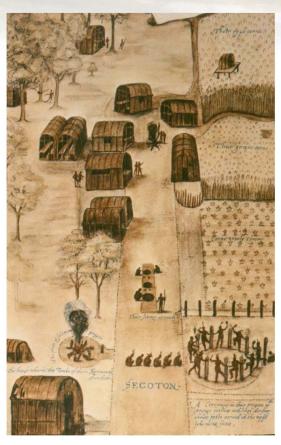
ARCHAEOLOGICAL SITES

- NATIVE AMERICAN
- EARLY HISTORIC SITES
- CIVIL WAR SITES
- POST CIVIL WAR AND 20TH CENTURY SITES





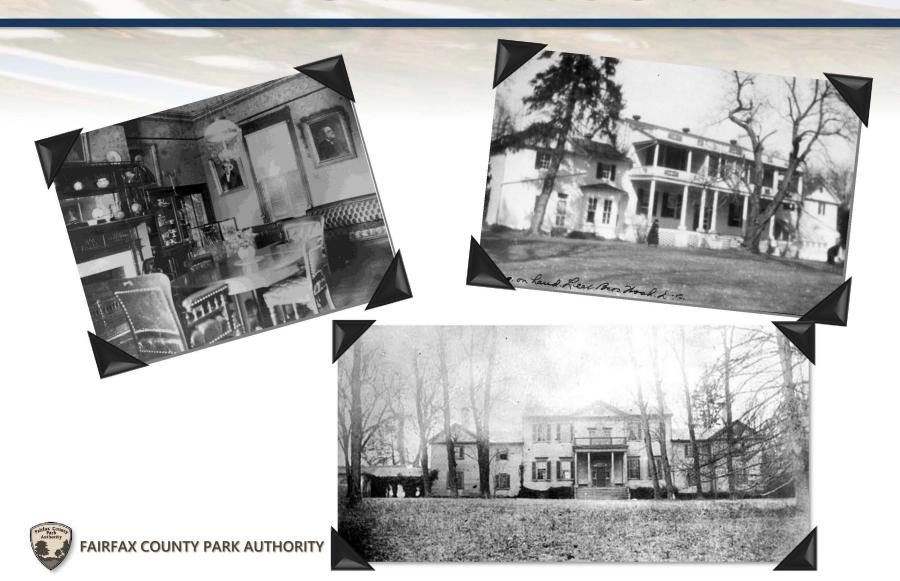


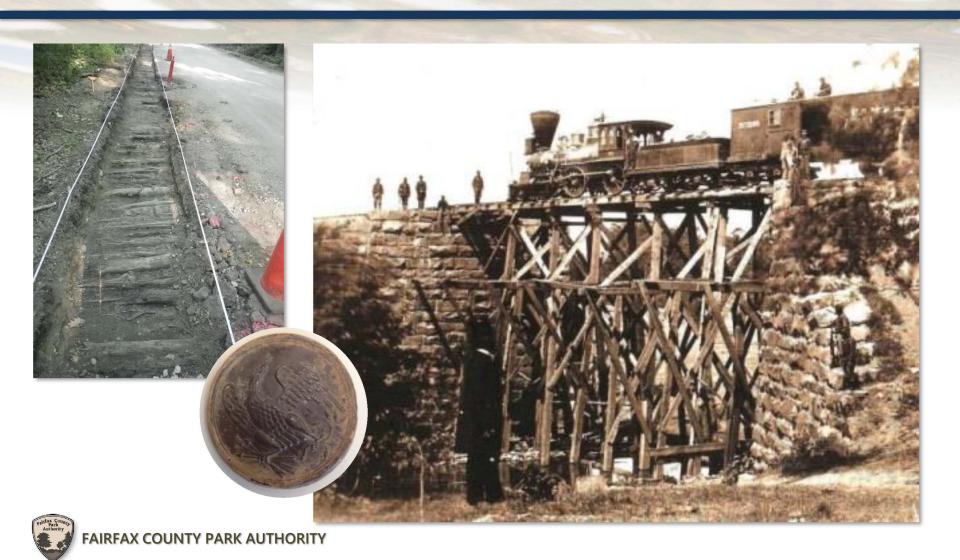
























WATER RESOURCES



DANIELLE WYNNE, ECOLOGIST III

STORMWATER PLANNING

DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES







FAIRFAX COUNTY MONITORING





FAIRAX COUNTY MONITORING RESULTS

	Watershed	Number of Benthic Sites	Average IBI	Rating	Number of Fish Sites	Average IBI	Rating
	Accotink Creek	35	24.4	Poor	23	31.5	Poor
	Belle Haven	4	24.4	Poor	1	7.1	Very Poor
	Bull Run	3	50.8	Fair			
	Cameron Run	31	28	Poor	18	16.7	Very Poor
	Cub Run	30	32.1	Poor	22	40.9	Fair
	Dead Run	6	30.4	Poor	3	7.1	Very Poor
	Difficult Run	111	39.6	Poor	53	49.9	Fair
	Dogue Creek	8	30.8	Poor	5	42.9	Fair
	Horsepen Creek	8	32.1	Poor	4	21.4	Poor
	Johnny Moore Creek	6	49.4	Fair	3	42.9	Fair
	Kane Creek	6	67.8	Good	1	42.9	Fair
	Little Hunting Creek	9	31.1	Poor	7	24.5	Poor
	Little Rocky Run	12	27.4	Poor	7	60.2	Good
	Mill Branch	10	51.2	Fair	4	23.2	Poor
	Nichol Run	11	57.3	Fair	1	57.1	Fair
	Occoquan	7	80.9	Excellent	1	21.4	Poor
	Old Mill Branch	3	74.7	Good			
	Pimmit Run	12	19.5	Very Poor	5	5.7	Very Poor
	Pohick Creek	65	31.5	Poor	24	55.9	Fair
	Pond Branch	10	66.2	Good	3	42.9	Fair
	Popes Head Creek	31	58.5	Fair	14	67.8	Good
	Ryans Dam	3	77.2	Good			
	Sandy Run	14	67.7	Good	2	67.8	Good
	Scotts Run	5	32.1	Poor	3	0	Very Poor
	Sugarland Run	12	44.8	Fair	6	47.6	Fair
	Turkey Run	2	35.7	Poor			
	Wolf Run	15	79.1	Good	5	35.7	Poor
<i>(</i>	UTHORITY	469	41.1	Fair	215	41.7	Fair





ACCOTINK CREEK

Description

The headwaters of Accotink Creek are located in the center of Fairfax County and the stream drains southeast to Accotink Bay, then Gunston Cove and finally to the Tidal Potomac River.

Watershed Size

51 square miles (38 in FC)

~27% of land is impervious

Major Stream and Tributaries

16 WMAs: Bear Branch, Crook Branch, Daniels Run, Hunters Branch and Long Branch

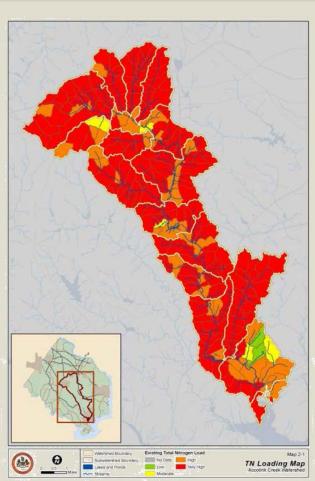
Unique Features

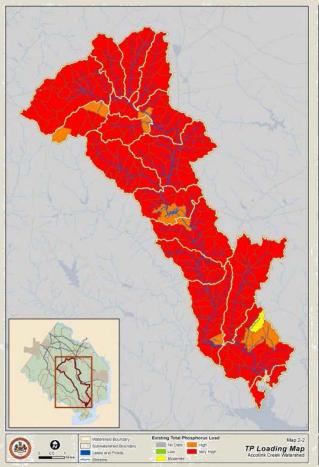
Lake Accotink, with a surface area of approximately 70 acres, is located in the central portion of the watershed.

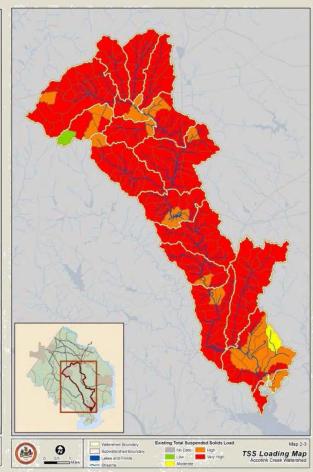




ACCOTINK CREEK – CURRENT CONDUTIONS











ACCOTINK CREEK – CURRENT TREATMENT

	Current Treatment Types						
WMA	Quantity (acres)	Quality (acres)	Quantity/ Quality (acres)	None (acres)			
Bear Branch	13	33	48	1,298			
Crook Branch	38	18	25	1,017			
Daniels Run	1	0	0	1,207			
Hunters Branch	9	29	111	1,054			
Long Branch Central	38	8	61	2,321			
Long Branch North	5	70	106	1,306			
Long Branch South	103	199	334	2,485			
Mainstem 1	163	44	155	3,291			
Mainstem 2	44	24	18	1,983			
Mainstem 3	106	56	55	2,911			
Mainstem 4	6	17	1	1.413			
Mainstem 5	11	42	14	1,844			
Mainstem 6	122	63	38	1,309			
Mainstem 7	129	129	55	1,708			
Mainstem 8	89	29	35	3,081			
Potomac	0	0	0	479			
WS Totals	878	763	1,056	28,707			

US of Lake Accotink



Quantity: 425

Quality: 299

Qual & Quant: 580

None: 17,801

* Lake Accotink is NOT a Stormwater Facility



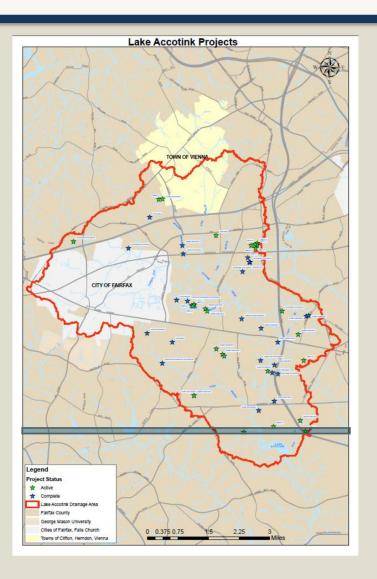


ACCOTINK CREEK – STORMATER PROJECTS









MOVING FORWARD

- REVIEWING ALL THE COMMENTS RECEIVED
- WILL PREPARE A DRAFT PLAN OVER THE SUMMER
- ANTICIPATE HAVING A DRAFT PLAN FOR REVIEW LATE FALL OR WINTER





OPEN HOUSE

- BROWSE AT YOUR OWN PACE
- ASK QUESTIONS

COMMENT TABLE

 LEAVE US A QUESTION, A COMMENT, A SUGGESTION

FRIENDS OF LAKE ACCOTINK PARK FRIENDS OF ACCOTINK CREEK





CONTACT INFORMATION



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703-324-8725

This information is provided on the

Please visit the project website:

http://www.fairfaxcounty.gov/parks/plandev/lakeaccotink.htm



