

Appendix AR1 - List of agency acronyms referenced in this report

ACFD	Arlington County Fire Department
ACPD	Arlington County Police Department
APS	Arlington Public Schools
CPHD	Community Planning, Housing, and Development Department
DEQ	Department of Environmental Quality
DES	Department of Environmental Services
DTD	Division of Transportation and Development
DPR	Department of Parks and Recreation
DSB	Development Services Bureau
EB	Equipment Bureau
ENG	Engineering Bureau
FE	Facilities and Engineering Division
FMB	Facilities Management Bureau
HD	Health Department
ISD	Inspection Services Division
OSEM	Office of Sustainability and Environmental Management
SWB	Solid Waste Bureau
TEO	Transportation, Engineering and Operations Bureau
TR	Transit
WPCB	Water Pollution Control Bureau
WSS	Water Sewer Streets Bureau

Appendix AR2 – Submitted List of Prioritized Projects

List provided to DEQ as part of Program Plan submittal in June 2022

Project Type	Plan Name	Total Area Treated	Reg Impervious Area Acres	Reg Turf Area Acres	UnReg Impervious Area Acres	Other MS4 Impervious Area	Other MS4 Pervious Area	Condition of downstream channel	TN Reduction	TP Reduction	TSS Reduction	Cost	Install Date	Feasibility for Implementation	Stage
Watershed Retrofit	Kirkwood Rd @13th St N	0.4	0.24	0.16	0	0	0	N/A drains to storm sewer	3.3	0.3	226.6	125,270	08/16/2018	Completed	Completed
Outfall Repair	2707 North Nelson Street							N/A outfall repair					10/18/2018	Completed	Completed
Watershed Retrofit	Williamsburg Medians 1 - North	0.55	0.44	0.11	0	0	0	N/A drains to storm sewer	5.6	0.6	441.2	108,571	11/01/2018	Completed	Completed
Watershed Retrofit	Williamsburg Medians 1 - South	1.16	0.59	0.58	0	0	0	N/A drains to storm sewer	9.5	0.8	597.7	230,713	11/01/2018	Completed	Completed
Watershed Retrofit	Williamsburg Medians 2 - A-C	0.8	0.56	0.24	0	0	0	N/A drains to storm sewer	4.3	0.4	317.1	141,012	11/01/2018	Completed	Completed
Watershed Retrofit	Williamsburg Medians 2 - D	0.8	0.57	0.23	0	0	0	N/A drains to storm sewer	3.9	0.4	287.3	141,012	11/01/2018	Completed	Completed
Stream Restoration	Windy Run	*	*	*	*	*	*	N/A stream restoration	38.1	35.6	22982.1	1,189,543	03/18/2019	Completed	Completed
Watershed Retrofit	N. Kentucky St @ 22nd St N	0.32	0.15	0.17	0	0	0	N/A drains to storm sewer	2.8	0.2	169.7	76,500	10/18/2019	Completed	Completed
Watershed Retrofit	2nd Street S - Bioretention 1	0.38	0.17	0.21	0	0	0	N/A drains to storm sewer	3.1	0.3	182.9	94,259	11/25/2019	Completed	Completed
Watershed Retrofit	2nd Street S - Bioretention 2	0.29	0.11	0.18	0	0	0	N/A drains to storm sewer	2.5	0.2	135.5	71,107	11/25/2019	Completed	Completed
Watershed Retrofit	N. 11th Street @ George Mason (B)	0.57	0.24	0.33	0	0	0	N/A drains to storm sewer	3.9	0.3	226.7	150,640	07/01/2020	Completed	Completed
Watershed Retrofit	N. 11th Street @ Evergreen (A)	1.07	0.51	0.56	0	0	0	N/A drains to storm sewer	7.6	0.7	463.0	81,114	07/01/2020	Completed	Completed
Watershed Retrofit	N Oakland Street @ Pershing Dr	0.42	0.19	0.23	0	0	0	N/A drains to storm sewer	2.1	0.2	125.0	135,401	05/25/2021	Completed	Completed
Stream Restoration	WGCC**	*	*	*	*	*	*	N/A stream restoration	986.0	291.0	21400.0	5,397,000	07/13/2021	Completed	Completed
Watershed Retrofit	Walter Reed Decal Project - 5th St S	1.13	0.54	0.59	0	0	0	N/A drains to storm sewer	9.2	0.8	566.9	154,397	12/13/2021	Completed	Completed

Appendix AR3 SWMF Retrofits Completed FY18-FY23

Project Type	Facility ID	Existing Facility Type	Project Name	Total Area Treated	Reg Impervious Area Acres	Reg Turf Area Acres	UnReg Impervious Area Acres	Other MS4 Impervious Area	Other MS4 Pervious Area	Condition of downstream channel	TN Reduction (lbs)	TP Reduction	TSS Reduction	Cost	Install Date	Feasibility for Implementation	Stage	Lat	Long	Land Use	Source of Efficiency
Watershed Retrofit	17-0253	N/A	Kirkwood Rd @13th St N	0.4	0.24	0.16	0	0	0	N/A drains to storm sewer	3.3	0.3	226.6	\$125,270	08/16/2018	Completed	Completed	38.88747	-77.10052	Public Right of Way (ROW)	DEQ TMDL Guidance
Outfall Repair	37854	End wall	2707 North Nelson Street	*	*	*	*	*	*	N/A outfall repair	NA	NA	NA	\$400,700	10/18/2018	Completed	Completed	38.9047	-77.09856	Residential	None
Watershed Retrofit	15-2091A	N/A	Williamsburg Medians 1 - North	0.55	0.44	0.11	0	0	0	N/A drains to storm sewer	5.6	0.6	441.2	\$108,571	11/01/2018	Completed	Completed	38.91147	-77.13868	ROW	DEQ TMDL Guidance
Watershed Retrofit	15-2091B	N/A	Williamsburg Medians 1 - South	1.16	0.59	0.58	0	0	0	N/A drains to storm sewer	9.5	0.8	597.7	\$230,713	11/01/2018	Completed	Completed	38.91168	-77.13859	ROW	DEQ TMDL Guidance
Watershed Retrofit	16-0320A	N/A	Williamsburg Medians 2 - A-C	0.8	0.56	0.24	0	0	0	N/A drains to storm sewer	4.3	0.4	317.1	\$141,012	11/01/2018	Completed	Completed	38.884	-77.09033	ROW	DEQ TMDL Guidance
Watershed Retrofit	16-0320B	N/A	Williamsburg Medians 2 - D	0.8	0.57	0.23	0	0	0	N/A drains to storm sewer	3.9	0.4	287.3	\$141,012	11/01/2018	Completed	Completed	38.88405	-77.09037	ROW	DEQ TMDL Guidance
Stream Restoration	Windy Run1	Stream	Windy Run	*	*	*	*	*	*	N/A stream restoration	38.1	35.6	22982.1	\$1,189,543	03/18/2019	Completed	Completed	38.9030001	-77.0986001	Park	DEQ TMDL Guidance
Watershed Retrofit	18-0007A	N/A	N. Kentucky St @ 22nd St N	0.32	0.15	0.17	0	0	0	N/A drains to storm sewer	2.8	0.2	169.7	\$76,500	10/18/2019	Completed	Completed	38.89205	-77.14113	ROW	DEQ TMDL Guidance
Watershed Retrofit	18-0281A	N/A	2nd Street S - Bioretention 1	0.38	0.17	0.21	0	0	0	N/A drains to storm sewer	3.1	0.3	182.9	\$94,259	11/25/2019	Completed	Completed	38.87171	-77.08386	ROW	DEQ TMDL Guidance
Watershed Retrofit	18-0281B	N/A	2nd Street S - Bioretention 2	0.29	0.11	0.18	0	0	0	N/A drains to storm sewer	2.5	0.2	135.5	\$71,107	11/25/2019	Completed	Completed	38.87171	-77.08386	ROW	DEQ TMDL Guidance
Watershed Retrofit	18-0051B	N/A	N 11th Street @ George Mason (B)	0.57	0.24	0.33	0	0	0	N/A drains to storm sewer	3.9	0.3	226.7	\$150,640	07/01/2020	Completed	Completed	38.88343	-77.12409	ROW	DEQ TMDL Guidance
Watershed Retrofit	18-0051A	N/A	N 11th Street @ Evergreen (A)	1.07	0.51	0.56	0	0	0	N/A drains to storm sewer	7.6	0.7	463	\$81,114	07/01/2020	Completed	Completed	38.88362	-77.12333	ROW	DEQ TMDL Guidance
Watershed Retrofit	18-0152	N/A	N Oakland Street @ Pershing Dr	0.42	0.19	0.23	0	0	0	N/A drains to storm sewer	2.1	0.2	125	\$135,401	05/25/2021	Completed	Completed	38.87506	-77.10280	ROW	DEQ TMDL Guidance
Stream Restoration	DR Trib B	Stream	Donaldson Run Tributary B	*	*	*	*	*	*	N/A stream restoration	303	78	365190	\$1,889,176	06/21/2022	Completed	Completed	38.90837866	-77.12772523	Park	DEQ TMDL Guidance
Stream Restoration	WGCC	Stream	Washington Golf & Country Club	*	*	*	*	*	*	N/A drains to storm sewer	1083.51	341.5	118376.92	\$5,397,000.00	07/13/2021	Completed	Completed	38.86013	-77.07988	Private	DEQ TMDL Guidance
Outfall Repair	41424	End wall	4427 25th Street N Aka Woodrow Project	*	*	*	*	*	*	N/A outfall repair	NA	NA	NA	250683.18	04/01/2022	Completed	Completed	38-92966	-77.12145	SFD	N/A
Outfall Repair	41568	End wall	4121 N Randolph Street	*	*	*	*	*	*	N/A outfall repair	NA	NA	NA	\$447,955.52	05/01/2022	Completed	Completed	38.92965	-77.12145	SFD	N/A
Watershed Retrofit	BP	Pond	Ballston Pond	467.87	201.47	206.23	6.84	25.94	14.59	N/A drains to storm sewer	1086.6	129.9	107610.5	\$4,046,010.58	06/27/2023	Completed	Completed	38.88338	-77.11916	Park	DEQ TMDL Guidance
Watershed Retrofit	18-0038	N/A	N Oakland St - Park	1.43	0.28	1.15	0.00	0.00	0	N/A drains to storm sewer	9.4	0.6	382.6	\$190,730.71	02/24/2022	Completed	Completed	38.87317	-77.10186	ROW	DEQ TMDL Guidance
Watershed Retrofit	20-0021	N/A	Walter Reed Decal Project - 5th St S	1.13	0.54	0.59	0.00	0.00	0	N/A drains to storm sewer	9.2387	0.8023	566.88	\$154,396.65	12/13/2021	Completed	Completed	38.90364	-77.150169	ROW	DEQ TMDL Guidance
Watershed Retrofit	19-0245	N/A	N Larrimore St and 9th St N	0.81	0.29	0.52	0.00	0.00	0.00	N/A drains to storm sewer	5.8357	0.4603	311.3567	\$179,813.67	08/15/2022	Completed	Completed	39.8755	-77.13736	ROW	DEQ TMDL Guidance

*Areas not reported for stream restoration projects or outfall repairs

**WGCC is a grandfathered project – Purchase Order (PO) executed on 7/10/2018

NA = non-applicable, credits not taken for this outfall repair work

Cost reflect construction cost only. Design, construction monitoring and post construction monitoring not included.

Balston Pond storage volume and resulting TMDL credits are estimates pending final acceptance of project as-builts in October 2023.

Appendix AR4 – FY23 Summary of Training and Certification for Plan Reviewers, Inspectors, Program Administrators and Construction Site Operators

Name	Responsibility	ESC		Dual Inspector		Stormwater Inspector		Dual Stormwater Administrator		Dual Plan Reviewer		Stormwater Plan Reviewer	
		Certification Number	Expiration Date	Dual SW Inspector Certification	Expiration Date	Certification Number	Expiration Date	Certification Number	Expiration Date	Dual Plan Reviewer Certification	Expiration Date	Plan Reviewer Certification	Expiration Date
Ed Byrd	Inspector			DIN0171	05/16/2024								
Lucy Garrah	Inspector ESC/SWMF			DIN0226	11/03/2024								
Troy W Smith	Inspector ESC/SWMF							DCA0143	03/19/2024				
Mathew Berner, P.E.	Plan Reviewer			DIN0275	02/04/2025								
Luis Velez Torres	Inspector ESC/SWMF			DIN1765	10/27/2026								
Alex Middleton III	Inspector ESC/SWMF			DIN1678	06/15/2025								
Zachary Schlemmer	Inspector ESC			DIN1522	08/14/2024								
Brian Srey	Inspector ESC			DIN0306	02/23/2025								
Gary Mann	Inspector ESC/SWMF			DIN1473	12/11/2025								
Hamilton Menjivar	Inspector ESC/SWMF			DIN1705	08/16/2025								
Aja Moody	Inspector ESC/SWMF			DIN1509	11/19/2026								
Qianqian Li	Administrator							DCA0139	12/15/2023				
Voltaire Ronquillo	Plan Reviewer									DPR0112	07/10/2024		
Brian Withrow	Plan Reviewer											SWPR0249	10/21/2025
Nader Mahmoudpour	Plan Reviewer											SWPR0248	10/19/2025
Sayed Hussaini	Plan Reviewer											SWPR0497	10/09/2023
Gao Dai	Plan Reviewer							DCA0607	01/14/2026				
Gayle England	Post Construction							SWCA0243	09/16/2024				
Diana Handy	Inspector ESC/SWMF							DCA0175	08/24/2024				
Mark Wisdom	Inspector ESC/SWMF			DIN0517	11/29/2025								
Christine Simpson	Post Construction					SWIN0920	01/19/2026						
Christin Jolicoeur	Plan Reviewer RPA							SWCA0255	10/09/2024				
Kelsey Ross	Inspector ESC/SWMF, Post Construction							DCA0216	02/04/2025				
Chevante' Kimbrough	Inspector ESC/SWMF			DIN1631	11/02/2024								
Marco-Antonio Paredes	Inspector ESC/SWMF	ESIN2160	02/04/2025			SWIN2326	02/01/2025						

Appendix AR5 Status Update for Uncompleted Identified Retrofit Projects

Project Type	Existing Facility Type	Plan Name	Total Area Treated	Reg Impervious Area Acres	Reg Turf Area Acres	UnReg Impervious Area Acres	UnReg Pervious Area Acres	Other MS4 Impervious Area	Other MS4 Pervious Area	Condition of downstream channel	TN Reduction (lbs)	TP Reduction (lbs)	TSS Reduction (lbs)	Cost	Feasibility for Implementation	Status	Source of Efficiency	Install Date
Large Scale Project	Pond	Sparrow Pond	78.23	28.06	29.77	0.08	0.53	2.29	3.96	Drains to culvert	320.4346	39.1612	33498.8026	\$3,251,542.00	Construction	Construction	DEQ TMDL Guidance	NA
Outfall Repair	End wall	Quebec Street Outfall Repair	*	*	*	0	0	0	0	Perennial stream	TBD	TBD	TBD	NA	Design	Design	DEQ TMDL Guidance	NA
Outfall Repair	End wall	N. Utah St / Trib A repair	*	*	*	*	*	*	*	Stream restoration	*	*	*	NA	Design	Design	None	NA
Stream Restoration	Stream	Gulf Branch	*	*	*	*	*	*	*	Stream restoration	55.27	50.12	33075	NA	Design	Design	DEQ TMDL Guidance	NA
Watershed Retrofit	N/A	Gulf Branch Green Streets - N Piedmont St (BMP#4)	0.76	0.38	0.38	0	0	0	0	NA - Drains to storm sewer	4.7734	0.4197	298.415	NA	Design	Design	DEQ TMDL Guidance	NA
Watershed Retrofit	N/A	Gulf Branch Green Streets - 36th Street N (BMP#3)	0.26	0.17	0.09	0	0	0	0	NA - Drains to storm sewer	2.2761	0.2204	162.6037	NA	Design	Design	DEQ TMDL Guidance	NA
Watershed Retrofit	N/A	Gulf Branch Green Streets - N Oakland St & N Nelson St (BMP#1)	1.37	0.5	0.87	0	0	0	0	NA - Drains to storm sewer	10.96	0.87	590.47	NA	Design	Design	DEQ TMDL Guidance	NA
Watershed Retrofit	N/A	Gulf Branch Green Streets - N Nelson St & 36th Street N (BMP#2)	1.02	0.38	0.64	0	0	0	0	NA - Drains to storm sewer	8.18	0.65	445.18	NA	Design	Design	DEQ TMDL Guidance	NA
Outfall Repair	End wall	Palisades Emergency Outfall Repair	*	*	*	*	*	*	*	Perennial stream	*	*	*	NA	Design	Design	None	NA
Large Scale Project	Pond	Concord Mews Pond Retrofit	10.65	4.36	6.83	0	0	0	0	NA - Drains to storm sewer	44.9958	4.9468	4078.2022	NA	Design	Design	DEQ TMDL Guidance	NA
Watershed Retrofit	N/A	S. Pershing Green Street (Barcroft)	1.56	0.74	0.82	0	0	0	0	NA - Drains to storm sewer	12.9341	1.1203	790.7933	NA	Design	Design	DEQ TMDL Guidance	NA
Watershed Retrofit	N/A	S Walter Reed @6th St S	1.56	0.75	0.081	0	0	0	0	NA - Drains to storm sewer	12.91615	1.1278	979.6619	NA	Design	Design	DEQ TMDL Guidance	NA
Watershed Retrofit	N/A	S Walter Reed @9th St S	0.2	0.16	0.04	0	0	0	0	NA - Drains to storm sewer	1.996	0.1916	144.8949	NA	Design	Design	DEQ TMDL Guidance	NA

*Areas not reported for stream restoration projects or outfall repairs

Appendix AR6

Summary of Procedures and Best Management Practices (BMPs) for Snow and Ice Management

Per Arlington County's MS4 Permit, the County will review *their existing procedures for snow and ice management and identify opportunities to implement enhanced best management practices that promote efficient management and application of anti-icing and deicing compounds.*

Arlington snow operations involve multiple departments plus external partners, making for a non-stop response force of several hundred people working in shifts to maintain core services. The County is responsible for clearing:

- 1,061 miles of roadway
- 350 bus shelters and stops
- 35 miles of sidewalks in shared public areas
- 21 bridges and overpasses
- 10 miles of trails
- 6 miles of protected bike lanes

Each year the County reviews its Snow Operations Plan. An annual winter coordination meeting is held to recap and review operations from the previous winter season and discuss lessons learned. Information from COG's Regional Weather Meeting is discussed including the National Weather Service winter weather outlook. The Snow Operations Plan is updated after reviewing equipment status and staffing needs and scheduling driver training.

A significant amount of information is available to the public via the County's [Snow and Ice website](#).

In FY23, County crews continued to use real-time loader scale data and improved salt spreader calibration technology for more efficient and effective road salt application. This follows recent upgrades to the County's entire brine pre-treatment program, which included replacing four aging 5000-gallon holding tanks and complete replacement of the plumbing from the brine machine to the brine tanks. Six additional electric salt spreaders were added to the fleet, and the County is in the process of updating a large portion of the tandem and single axle dump truck fleet used for snow and deicing operations.

The County is working on installing a second brine making system at the North Salt Storage Facility. The system includes four 5000 gallons tanks and a brine maker. This will double the County's brine storage and making capacity from 20,000 gallons to 40,000-gallons. This effort will allow the County to be more efficient and provide better response for the northern portion of the County.

When a winter storm has been predicted for the area, staff carefully monitor weather conditions and road surface temperatures several days in advance. Depending on the weather forecast/schedule, a mobilization level (1-5) is assigned which determines the level of response and resources anticipated to be needed.

Winter Weather Mobilization Levels											
Weather Forecast/Schedule	Mobilization Level	Response Activities (Includes all previous levels)	Response Street Priorities	Staffing Level	Material Application Rates Per Lane Mile		Expected Number of Equipment Deployed in an Event				
					Brine (gal)	Salt (lb.)	Brine	Contract Brine	County Equip't	Contract Plowing	Contract Hauling
Dry, prior to a storm between Nov 30 - Mar 15, Temp 32°+/-	Anti-ice	Brine pretreatment	Bridges, overpasses, Hills	Brine Team Only	25		14				
Precipitation: 20-49% Accumulation: Ice/Snow Possible Temp: <35°	1	Spot salting, brine pretreatment	Bridges, Overpasses, Hills	Small Skeleton Crew	25	300	14		8		
Precipitation: 50-100% Accumulation: 1-2 Inches of snow	2	Salting, Ready to plow wherever needed	Primary, Secondary & School Bus Routes, some Residential	Medium-Large Skeleton Crew		300	14		16-24		
Precipitation: 50-100% Accumulation: Up to 4 Inches of snow or up to 1/4" of ice	3	Salting, Plowing	Primary, Secondary & School Bus Routes, Residential as Needed	Full Activation 12-hr shift(s)		300			46	12 +/-	
Precipitation: 50-100% Accumulation: Up to 6 Inches of snow or up to 1/4" of ice	4	Plowing, Salting, maybe hauling, Snow Form, Mapping, Take Calls after Phase 3	Primary, Secondary & School Bus Routes. All residential streets	Full Activation, multiple 12-hr shifts and Augmented Deployment		300			46	20 +/-	Maybe 50 +/-
Precipitation: 100% Accumulation: >8 Inches of snow or >1/4" of ice	5	Plowing, Salting, Hauling, Snow Form, Mapping, Take Calls after Phase 3	Primary, Secondary & School Bus Routes. Urban Corridors. All residential streets.	Full Activation, multiple shifts and Augmented Deployment, Hauling Contractors		300			46	40 +/-	150 +/-

Notes:

1. The Chart is for general Guidelines only. Deviation from the Chart may occur due to complication of conditions.
2. The Chart does not account for any breakdown in equipment and/or missing employees operating equipment
3. Contract Equipment may not always be available, and may fluctuate between availability and storm size.

Should a winter storm event result in the need to bring in contractor support, vehicles used by contractors will carry the same wireless mobile tracking units used by County trucks to send information to the near real time storm response map. This map is available to the public.

Weather Monitoring Before and During a Winter Storm Event

The County has several subscriptions to weather forecasting services and data sources. Staying on top of forecasts allows the County to adjust mobilization and operations as needed, including timing for pretreatment and application of salt. The County also has access to the information from the two nearby VDOT stations with pavement sensors to assess pavement temperatures / roadway conditions.

The County is exploring the use of new Road Watch sensor technology that will allow data to be seen by vehicle operators as well as office staff via the online dashboard.

Calibration & Control Technology

Equipment calibration is very important to ensure that equipment functions properly. Calibrating spreaders helps to ensure the appropriate amount of deicing product is distributed during snow response operations.

The County has been exploring ways to make the calibration process more efficient to allow for more vehicles and equipment to be calibrated prior to a winter storm event. The past few years the County has used a manufactured salt calibration scale, which has greatly improved the process.

The County has also been conducting staff training on calibration for several years. Vehicles and equipment are calibrated throughout the year. It is time intensive to calibrate 45 vehicles and associated equipment, so calibration is done as much as possible in advance of a snow event.

The County is working on replacing its snow operation fleet. In the past three years, ten new single and tandem axle dump trucks with touch screen controllers have been purchased. The touch screen controls help with the calibration process as well as improved spreader application. Seventeen additional single and tandem axle trucks are scheduled to be ordered, and once delivered represents 27 out of the 33 dump trucks in the snow fleet. It is anticipated that the remainder of the fleet will be updated within the next few years.

The new dump trucks will also have plow and spreader controls integrated into the steering wheel, which . This will allow drivers to adjust spreader output at any time without a need to look at the touch screen. The new spreaders are ground speed controlled, meaning less product is dispensed the slower the truck moves. Also, the spreader turns off when the truck is not moving - such as when it is stopped at a traffic light.

This control technology will also be available for the liquid brine applicator, which controls application volume and rate, as well as ground speed-controlled application.

Maximum and minimum application rate settings can be programmed with new touchscreen devices to better control and limit the amount of product being released by the operator. This will significantly reduce user error- neither too much product nor too little product can be distributed.

Anti-icing Operations / Pretreatment

Anti-icing is part of the pretreatment process that involves applying brine to primary, secondary, and school bus routes in the County. Brine uses a quarter of the salt contained in traditional rock salt (23.3% brine/water solution). When the County uses brine instead of rock salt on County roads, it can significantly reduce the amount of salt that ends up in our drinking water sources.

Prior to a snow event, the County pretreats roads and trails with brine. This results in the use of less salt to treat roads and trails during the event. Brine treatment is conducted when there is no rain forecasted in advance of the snow/ice event and temperatures are above 20 degrees F. Pretreatment is not conducted when forecast indicates wet (rainy) / above freezing temperatures.

The County follows an anti-icing and pre-wetting application operation flow chart. Additive products (such as calcium chloride, magnesium chloride, etc.) may also be used for pretreatment when conditions warrant them, although not used often. The County makes brine at the Trades Center. It is mixed following the manufacturer's recommendations based on storm conditions and pavement temperatures.

Vehicle / Equipment Checks

Checking trucks, plows, brine tanks, and spreaders prior to use is important to ensure there is no damage or leaks and equipment is working properly. Staff currently perform a pre- and post-inspections on all trucks to ensure there are no leaks or issues and that there is a spill kit in the vehicle to be able to respond to small spills in the field. Staff are developing pre- and post-inspection checklists for snow equipment (spreaders and plows) to use in addition to the truck checklist. The checklists will include things such as checking that the back spreader gate is in the correct position as well as checking saddle tanks, hoses, valves, and spinners, plow pins, plow wheels, etc. post events.

Monitoring / Tracking Salt and Brine Usage

The amount of salt the County receives and uses is carefully tracked. Salt forms are required to be filled out by drivers and loaders. The volume of brine used is also monitored. Brine loading forms are used to track the volume of brine dispensed to each truck and time of loading.

New technology on three loaders used for loading salt helps to track the exact volume of product being loaded into a truck. The system is capable of tracking loading weight / per truck / event / year. Data can be viewed and analyzed to know the amount of salt being used. This helps the County to have a better understanding of the amount of salt needed for certain events and annually. The information is also used to track loading and usage at the North side salt facility versus the south side Trades Center.

Employee Training

The County conducts multiple types of training to ensure staff fully understand all aspects of snow operations. Topics include, but are not limited to plow driving, calibration, brine making, equipment hook up, materials loading, and winter maintenance operations. Hands on training helps drivers / operators see how the equipment works and what an appropriate spreader output should look like during operations. Drivers develop a better understanding and sense of normal / proper application and product output, and this in turn fosters trust of controls and calibration.

In addition to these trainings, a consultant and County staff conduct Snow and Ice Control – Operator Training in the fall. The training covers topics about calibration, the impacts of deicers, over application, and the importance of salt reduction. Staff learn the importance of being the foundation of the operation and being part of the solution to reducing chloride loading to surface waters.

Many employees involved in snow operations also participate in annual stormwater pollution prevention training. Training covers information outlined in the SWPPPs including good housekeeping, material storage and handling, vehicle / equipment maintenance, recognizing and reporting illicit discharges, spill response, and other practices.

Response to “Salt Piles”

There are circumstances when excess salt may be released to the ground. A driver may forget to turn off the spreader when stopped at a traffic light creating a pile of salt, equipment may release too much salt on slopes or when trucks are navigating cul-de-sacs, or due to faulty/damaged equipment. Drivers are trained to report these issues so follow-up can occur. Large piles of salt can be removed using a skid steer or manually shoveled / swept up. If the salt is not contaminated with debris, it is brought back to one of the two storage facilities to be reused. Contaminated salt is not reused as it could damage equipment. In this case, contaminated salt is properly disposed of in the trash. The County also responds to resident reports of large salt piles that need to be removed.

Materials Storage

Materials used for deicing and sanding activities are kept in covered storage facilities until application. Sand and salt are stored at two locations in the county. At the Trades Center, salt is stored in the salt storage building near the Solid Waste Bureau EPRY. The salt storage building is large enough to allow trucks to be loaded inside under cover. The building has a door that is kept closed when the building is not being accessed. An emergency sand stockpile is stored in a nearby contained area that is covered by a tarp. Additional information about this facility, including good housekeeping can be found in the Arlington County Trades Center Stormwater Pollution Prevention Plan (SWPPP). Salt and sand are also stored at the North Side Salt Storage facility located near the intersection of Old Dominion Drive and 25th Street North. Salt is stored inside a storage structure. The opening to the building is kept closed when it is not being accessed. An emergency sand stockpile is stored in a contained area that is covered by a tarp.

End of Event or Season Vehicle / Equipment Maintenance

At the end of the snow event, remaining salt in trucks and equipment is emptied inside the storage facilities. At the end of the season (and sometimes during the winter season if times permits) trucks and equipment are then washed to remove dirt, sand, and salt residue. Practices outlined in the Trades Center SWPPP are followed during washing and end of season equipment break down and storage. Washing is conducted at the WSS loading dock. Storm drains are plugged, and wash water is captured by a vacuum truck and disposed of into the sanitary sewer system. Wash water is not allowed to enter the storm drain system.

All mobile tanks are emptied of brine. Once emptied, tanks are checked to ensure they are in good condition. Any damaged equipment is sent to the Equipment Bureau.

Drip pads are placed under spreader motors and plows hydraulic connectors when not in use. Lines are capped and/or bagged to prevent leaks.

The brine machine is kept covered when not in use and the valve is kept in the off position. The brine machine and storage area are checked during quarterly Trades Center SWPPP inspections.

Stormwater Pollution Prevention Plans (SWPPP)

SWPPPs have been developed for the Arlington County Trades Center and the North Side Salt Storage Facility. These plans are referenced in the Snow Operations Plan.

Salt Management Strategy Implementation

Arlington County participated in the development of the Northern Virginia Salt Management Strategy (SaMS). The County had been implementing many of the BMPs outlined in the SaMS Toolkit.

The County will continue explore addition BMPs as new practices and technology emerge. Updating fleet with new technology and continuing employee training to help eliminate or minimize user error are critical for reducing salt usage.

Appendix AR7 Certified Pesticide Applicators

CERT NO	LAST NAME	FIRST NAME	EXPIRE DATE	CATEGORIES	BUSINESS	BUSINESS LICENSE NUMBER
76776	Fernandez	Ruben	06/30/2025	3-B TURF PEST CONTROL (06/30/25)	ARLINGTON COUNTY PARKS	3465
80147	Perez	William	06/30/2025	60 REGISTERED TECHNICIAN (06/30/27)	ARLINGTON COUNTY PARKS	3465
90474	Hudson	Christian	06/30/2024	60 REGISTERED TECHNICIAN (06/30/26)	ARLINGTON COUNTY PARKS	3465
95209	Paredes	Marco	06/30/2024	3-A ORNAMENTAL CONTROL (06/30/26) 3-B TURF PEST CONTROL (06/30/26)	ARLINGTON COUNTY PARKS	3465
95789	Portillo	Roberto	06/30/2025	60 REGISTERED TECHNICIAN (06/30/27)	ARLINGTON COUNTY PARKS	3465
97737	Upton	Robert	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
98086	Gonzalez	Carlos	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
101120	Brady	Adam	06/30/2025	60 REGISTERED TECHNICIAN (06/30/27)	ARLINGTON COUNTY PARKS	3465
104371	Vasquez	Jaime	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY	3483
110719	Knapik	Andrew	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
113607	Soles	Jennifer	06/30/2025	2 FOREST PEST CONTROL (06/30/25)	ARLINGTON COUNTY PARKS	3465
126627	Lorenzo	Edwin	06/30/2025	60 REGISTERED TECHNICIAN (06/30/27)	ARLINGTON COUNTY PARKS	3465
130244	Kim	Sue	06/30/2024	2 FOREST PEST CONTROL (06/30/26)	ARLINGTON COUNTY	3465
137058	Marquez	Jose	06/30/2024	60 REGISTERED TECHNICIAN (06/30/26)	ARLINGTON COUNTY PARKS	3465
142553	Retana	Joaquin	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
145766	Majano Gomez	Yuemer Alexis	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY PARKS	3465
145767	De Lao	Santos	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY PARKS	3465
154544	Giron	Jose	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
154832	Rivera	Luis	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY PARKS	3465
154971	Gamero	Edwin	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
157140	Vega	Jose	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY PARKS	3465
158928	Koloszar	John	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
160883	Grandle	Patrick	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
162187	Dawson	Karl	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY PARKS	3465
163236	Lipscomb	Rodney	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY PARKS	3465
164170	Connell	Devin	06/30/2024	60 REGISTERED TECHNICIAN (06/30/24)	ARLINGTON COUNTY PARKS	3465
164913	Rojas	Mario	06/30/2025	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
120919	Majano Pena	Jose	06/30/2026	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465

146301	Moore	Marcus	06/30/2023	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
132179	Alchin	Peter	06/30/2023	60 REGISTERED TECHNICIAN (06/30/25)	ARLINGTON COUNTY PARKS	3465
113607	Soles	Jennifer	06/30/2023	6 RIGHT-OF-WAY PEST CONTROL (06/30/23)	ARLINGTON COUNTY PARKS	3465

Appendix AR8 – Nutrient Management Plans (FY23)

Location	Address	Longitude and Latitude	Acres of Managed Turf	Acres of Turf with NMP	Month/Year NMP Implemented	Most Recent Month/Year NMP Revised/Renewed	Month/Year NMP Expiration
Arlington Hall Park	290 South Taylor St.	38.866376, -77.107340	1.55	2	11/2016	7/2021	6/2024
Barcroft Park	4200 S. Four Mile Run Dr.	38.849039, -77.100599	2.99	2.99	6/2013	7/2021	6/2024
Bluemont Park	601 N. Manchester St.	38.870459, -77.132339	2.37	9.73	4/2014	7/2021	6/2024
Bluemont Junction	744 North Emerson St.	38.872768, -77.132464	1.11	1.11	4/2014	7/2021	6/2024
Eads Street Park	2730 South Eads St.	38.848602, -77.054653	1.00	1.13	4/2014	7/2021	6/2024
Fields Park	775 N. George Mason Dr.	38.879923, -77.120760	1.50	1.50	11/2016	7/2021	6/2024
Greenbrier Park	5201 N. 28th St.	38.900982, -77.140469	2.40	2.40	6/2013	7/2021	6/2024
Gunston Park #3	1401 28th St. S.	38.847814, -77.069479	1.29	1.29	1/2015	7/2021	6/2024
Jennie Dean Park #1	3630 27th St. S.	38.842895, -77.088092	1.4	5	1/2015	12/2022	11/2025
Madison Manor Park	6225 12th Road N.	38.882376, -77.150409	2.41	2.50	1/2015	7/2021	6/2024
Quincy Park	1021 N. Quincy St.	38.885037, -77.107436	3.24	5.59	4/2013	7/2021	6/2024
Jamestown back	3700 N. Delaware St.	38.15924, -77.8229596	1.2	1.2	6/2015	7/2021	6/2024
Tuckahoe Park	2400 N. Sycamore St.	38.900065, -77.150850	3.26	3.26	6/2018	7/2021	6/2024
Virginia Highlands Park	1600 S. Hayes St.	38.860367, -77.062404	3.58	5.52	1/2015	7/2021	6/2024
		Total	29.3	45.22			

Department of Parks & Recreation Nursery and Storage Facility Stormwater Pollution Prevention Plan



Arlington County Department of Environmental Services



Revised May 2022

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Introduction

In accordance with Arlington County's Virginia Stormwater Management Program (VSMP), Municipal Separate Storm Sewer System (MS4) permit (#VA0088579), the County is required to develop and maintain a Stormwater Pollution Prevention Plan (SWPPP) for high priority municipal facilities.

A high priority municipal facility is any facility owned and operated by the permittee that actively engages in one or more of the following activities: (i) composting; (ii) equipment storage and maintenance; (iii) materials storage; (iv) pesticide storage; (v) storage for public works; (vi) recycling; (vii) salt storage; (viii) solid waste handling and transfer; and, (ix) vehicle storage and maintenance.

The County must also assess whether a HPMF has a high potential for discharging pollutants. Municipal high-priority facilities that would be considered to have this designation are those facilities that are not covered under a separate VPDES permit and where any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:

- a) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater;*
- b) Materials or residuals on the ground or in stormwater inlets from spills or leaks;*
- c) Material handling equipment (except adequately maintained vehicles);*
- d) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt);*
- e) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants);*
- f) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers;*
- g) Waste material except waste in covered, non-leaking containers (e.g., dumpsters);*
- h) Application or disposal of process wastewater (unless otherwise permitted); or*
- i) Particulate matter or visible deposits of residuals from roof stacks, vents or both not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater runoff.*

The Arlington County Department of Parks & Recreation (DPR) Nursery and Storage Facility has been identified as a high priority municipal facility (HPMF) that has a high potential for discharging pollutants. Operations at the facility meet criteria "d" above.

The objectives of this SWPPP are:

- To provide information about the facility and its operations;
- To identify potential sources of stormwater pollutants; and
- To provide information on best management practices (BMPs) and pollution prevention practices implemented at the facility to prevent or minimize non-stormwater discharges and pollutant releases to surface waters.

Site Description and Operations

The DPR Nursery and Storage Facility is located at 4190 South Four Mile Run Drive behind a baseball field complex. The facility is located in both Doctor's Branch and Four Mile Run, Middle Mainstem watersheds. The site occupies an area of approximately 73,415 square feet or 1.70 acres. The nursery area consists of a greenhouse, a netted covered area for native plants, a plant storage area including cold frames, a metal-panel fabricated building where pesticides and equipment are stored, and stockpiles of bulk materials. The road leading to the facility and a portion of site are paved. The remaining surface of the site consists of gravel and compacted dirt; a concrete pad is located near the greenhouse. Site facility photos are within Appendix A.

There is no stormwater infrastructure at the facility. Runoff leaves the site via sheet flow that becomes concentrated at two low spots (see Figure 1). The entrance road and a portion of the southeast side of the site drains to the east towards Doctors Branch, which flows into Four Mile Run approximately 300 feet south. The rest of the facility drains to the south toward Four Mile Run (see Figure 1). A portion of the facility is within a Resource Protection Area (RPA) (see Figure 2). The facility has been in its current location since the early 1980s, pre-dating the Chesapeake Bay Preservation Ordinance and subsequent RPA designation.

The nursery and storage facility houses materials and equipment for DPR operations as well as stockpiles of bulk materials such as soil, gravel, and athletic field turf filler. Trailers, water tanks, signs, and other equipment needed to maintain County parks and natural areas are also stored at this facility. Damaged equipment and debris removed from County parks is brought to the facility and temporarily stored until being taken to a waste disposal facility.

Figure 1 – Department of Parks & Recreation Nursery and Storage Facility



Figure 2. Location of Resource Protection Area (red hatching)



Site Oversight / Compliance Responsibilities

DPR oversees and manages the Nursery and Storage facility. DPR staff are responsible for ensuring the practices outlined in this SWPPP are implemented. Staff shall ensure the following:

- Compliance with the conditions and requirements of the County’s MS4 permit.
- Implementation of stormwater pollution prevention and good housekeeping practices.
- Employees have the necessary training, materials, and equipment to carry out the provisions of this SWPPP.
- Spills or unauthorized non-stormwater discharges or pollution releases to the County’s MS4 or surface waters are cleaned up upon discovery and properly reported.
- Periodic review and updates to this SWPPP to address changes in operations or regulatory requirements.
- Corrective actions identified during an inspection are remedied within a specified time frame, as determined in the inspection report based upon the nature of the corrective action needed and level of effort required.

The following staff certify that they have reviewed this Stormwater Pollution Prevention Plan and will ensure the plan is implemented to comply with the conditions of the County’s MS4 permit.

Marco Antonio Paredes Marco Antonio Paredes May 9, 2022
Marco Antonio Paredes (May 9, 2022 08:31 EDT)

Name	Signature	Date
DPR Parks and Natural Resources Stormwater Specialist		

Potential Stormwater Pollutants and Pollution Sources

Operations at the DPR Nursery and Storage Facility that have the potential to generate stormwater pollutants and non-stormwater discharges include equipment maintenance and material storage, transferring and loading.

The following stormwater pollutants exist on the site and may result in stormwater or non-stormwater discharges if not properly managed.

- Sediment
- Nutrients
- Hydrocarbons (fuel, grease, oil)
- Trash
- Metals
- Pesticides
- Herbicides
- Infill synthetic filler

Outdoor Storage / Parking Areas

Outdoor storage and parking areas can be sources of stormwater pollutants including sediment, litter, hydrocarbons, and metals that can be carried by runoff during storm events to surface waters. Hydrocarbons, metals and other vehicle-related materials are deposited on parking areas as a result of leaks and routine vehicle wear and tear. Other pollutants include accumulated grit and sediment from vehicle tracking and transporting loose materials. Litter can also accumulate in storage areas. Litter may be blown out of vehicles or dropped on the ground by individuals.

Exposed Equipment / Equipment Maintenance

Equipment and materials that are stored at this site have the potential to contribute to stormwater pollution. Residue from spills or leaks that are left on the ground and not cleaned up can be carried in runoff to surface waters.

Uncovered stockpiles of loose materials can be sources of stormwater pollutants if piles are not properly contained.

Waste and Recycling Receptacles

Uncovered trash containers are potential sources of pollution. Open containers can collect rainwater which can leak or spill out when the container is emptied or damaged. Rain can wash leaked materials, spills and debris from these containers into surface waters. There are covered waste and recycling receptacles located adjacent to the equipment storage shed.

Nursery Area

Runoff from watering operations at the nursery area can result in non-stormwater discharges that contain nutrients.

Non-Stormwater Discharges

Potential non-stormwater discharges could result from spills and leaks associated with storage of equipment and vehicles. Potential sources of leaks and spills include the following:

- Leaking hydraulic cylinders and lines on trucks and equipment
- Fuel and/or vehicle fluid leaks from vehicles
- Leaking containers

Runoff from watering operations at the nursery area is an additional potential non-stormwater discharge.

Stormwater Management Controls and Pollution Prevention

There is no stormwater infrastructure on this site. The two discharge locations both flow into vegetated areas, one to the east towards Doctors Branch and one to the south towards Four Mile Run. In an effort to provide flow dissipation, sediment capture, and nutrient uptake, a vegetated area was allowed to be established in the southern discharge. The area has been further enhanced over the years and now is vegetated swale / buffer measuring 10 feet wide by 50 feet long, with a stone berm and geotechnical fabric lining serving as pre-treatment. Any runoff leaving the swale goes to the adjacent vegetated area.



Booms and stone berms have been placed at the other low drainage area to help capture any sediment or trash in runoff from that section of the facility.

Good Housekeeping Practices and Site Maintenance

Housekeeping practices are implemented at the storage facility to prevent pollutant runoff.

Equipment stored at this site is maintained to prevent leaks of fuel, oil or any other fluids. Drip pans or absorbent pads are placed under equipment that have the potential to leak.

Litter is picked up routinely by staff and disposed of in the on-site trash receptacles. These receptacles are covered to prevent materials from blowing out or from filling up with rainwater. Trash and recyclable materials are disposed of in appropriate collection receptacles. Trash is not placed in any receptacle or container that is not designated for that specific purpose. Full or overflowing containers are emptied as soon as possible to avoid waste materials from being blown or washed offsite.

Traffic is limited in the area to DPR personnel and authorized volunteers only. If the area is too muddy from recent storm events, no traffic is allowed on the site to prevent rutting and track out.

Cover and Containment

Stockpiled loose materials contained using concrete blocks on three sides to prevent materials from migrating out of the storage area. The bottom of each containment area is graded toward the back wall to prevent runoff from the containment area. Any loose materials that are deposited outside of the containment area during loading and unloading activities are shoveled back into the contained area. Piles are covered with tarps.

Items stored in the maintenance building include chemicals (pesticides, fertilizer) and applicator equipment. These items are stored in a cabinet with a spill tray. Fuel cans are stored in the shipping container on top of a spill tray.

Two spray rigs are stored in the equipment shed over the winter months when not in use. During the growing season they are kept outside.

Tools and equipment used for park grounds maintenance are stored in a 20-foot shipping container in the storage yard. No liquids are stored in this container. An additional shipping container in the nursery area stores backpack sprayers, gas cans for mowers and trimmers, and oil used for two-cycle gas mixing.

Prevention of Washing Discharges

There are no washing operations at this facility that would generate non-stormwater discharges. Equipment and vehicles are washed at the vehicle wash facility at the Trades Center or other facilities where wash water is captured and sent to the sanitary sewer system.

Small applicator tanks and containers are rinsed on-site. The rinse water is poured into a larger applicator tank so leftover product is reused.

Backpack sprayer cleaning consists of rinsing tanks with water to remove herbicide residue. The rinse water is poured into an onsite 150-gallon spray rig container.

Prior to disposal, herbicide product containers are triple-rinsed then emptied into the 150-gallon spray rig container.

Pesticide Handling

DPR has developed standard operating procedures for handling, transporting, mixing, diluting, storing and disposal of pesticides. A copy of the SOP is included in Appendix E.

Spills and Leaks

Equipment and vehicles stored at the facility are regularly checked for leaks. Leaking vehicles and/or equipment are taken to the Equipment Bureau at the Trades Center for repair.

A spill kit is mounted to the exterior of the maintenance building. Applicable safety data sheets and personal protective equipment are located in the building.

Minor spills are cleaned up at the point of origin by staff using available spill kits and materials. Since this site is a dirt/gravel lot, areas where leaks and spills occur can be removed (by removing dirt/gravel) and replaced with clean fill. Contaminated material will be properly disposed of at an appropriate waste disposal facility.

For larger spills (those spills that cannot be contained and cleaned up using available spill kits and materials) or releases of hazardous materials, the Arlington County Fire Department (911) will be notified to assist with containment.

Notification and information regarding non-stormwater discharges to the surface waters shall be provided to DES Office of Sustainability and Environmental Management (OSEM) (703-228-3979) for tracking and reporting purposes. Spill reports are filled out following any significant spills and sent to OSEM and the ACFD Fire Prevention Office for record keeping. Spill report forms can be found on-line on AC Commons on the Trades Center team page.

Spill History

All spills at this facility have been minor and have been contained and cleaned up using appropriate absorbent materials and/or contaminated soil / gravel was removed. A spill log of significant spills and corresponding spill report forms shall be kept by DPR staff (Appendix D).

Inspections / Site Compliance Evaluation

Site inspections shall be conducted to assess the facility for potential pollutant and/or non-stormwater discharges and evaluate the effectiveness of existing best management practices and general housekeeping to ensure permit compliance and protection of

surface waters. Inspections will be conducted quarterly by DPR staff to ensure that the facility is appropriately maintained. Annual Inspections will be conducted by staff from OSEM.

During inspections, storage and staging areas will be checked to identify housekeeping issues. Equipment and containers will be checked for leaks, corrosion, or other signs of deterioration. Equipment that is found to be damaged will be repaired or replaced. Landscaped areas shall also be checked for any signs of erosion or necessary maintenance.

Completed inspection reports and photos will be sent to appropriate staff for follow-up and kept on file by OSEM. Any noted corrective actions will be followed up on as soon as possible. The inspection form is included in Appendix B.

Dry Weather / Outfall Screening

There is no stormwater infrastructure at this site; however, there are two locations where stormwater flow is concentrated and leaves the site (see Figure 1). The southern discharge location to Four Mile Run consists of a stone berm and vegetated buffer. These two areas will be monitored for evidence of erosion and pollutant runoff to determine if additional stormwater controls are needed.

Training

Training on good housekeeping practices, stormwater pollution prevention, and recognizing and reporting illicit discharges shall be conducted on an annual basis (or as otherwise specified in the County's MS4 permit) as part of the HPMF SWPPP training. Training attendance sheets are kept on file by OSEM. Specialized training for pollution prevention at this facility shall be conducted as needed.

The Department of Parks and Recreation ensures employees who apply pesticides and herbicides receive proper training and certification requirements per the Virginia Pesticide Control Act. Training and certification records are kept by DPR staff. Training on safe pesticide handling for applicators and registered technicians will be done on an annual basis. Training will be conducted by DPR staff or a designated contractor.

SWPPP Evaluation

This SWPPP will be evaluated on an annual basis by DPR and OSEM staff and updated as necessary to reflect any changes in operations at the facility or regulatory requirements.

Appendix A – Facility Photos



Photo 1: Maintenance Building with mounted spill kit



Photo 2: Covered bulk material storage area



Photo 3: Netted plant nursery area



Photo 4: Covered equipment



Photo 5: Hooped greenhouse



Photo 6: Boom and stone berm at east drainage low spot

Appendix B – Inspection Form

**Arlington County Dept. of Parks and Recreation Nursery and Storage Facility
Stormwater Pollution Prevention Plan
Inspection Form**

Date:

Precipitation past 24 hours:

Inspector(s):

	No Issues Observed	Action(s) Needed	Corrective Actions Required / Comments
Outdoor Storage <ul style="list-style-type: none"> • Covers / containment • Material outside containment area • Tracking • Evidence of leaks / stains • Litter / debris • Unused materials / equipment 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Equipment / Vehicles <ul style="list-style-type: none"> • Leaks • Spills • Damage 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Waste / Recycling Receptacles <ul style="list-style-type: none"> • Damage / Leaks • Debris around container • Overflowing • Lids / doors kept closed 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Spill Kit <ul style="list-style-type: none"> • Accessible • Adequately stocked 	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
Drainage / Low Spots <ul style="list-style-type: none"> • Erosion • Sediment accumulation 	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
Non-Stormwater Discharges	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Appendix C – Spill Report Form

SPILL REPORT FORM

This form shall be completed after an outdoor spill or release has occurred. Submit completed forms to DPR Natural Resources Division Chief, OSEM c/o Mark Wisdom, and Fire Prevention Office c/o Charlene Branch

What was spilled? _____

Amount / Volume spilled (best estimate) _____

Date and Time of Incident: _____

Location of Spill: _____

Describe what caused the spill:

How was the spill cleaned up?

Was the spill contained? YES NO

Did the spill enter a storm drain? YES NO

Did the spill enter surface waters? YES NO

Did the spill soak into the ground / soil? YES NO

Check the offices that were contacted:

- Arlington County Fire Department
- DES OSEM (must contact if spill entered storm drain or surface water)
- VA DEQ
- Other _____

Additional comments / information:

Name (please print)

Signature

Date


Appendix D – Spill Log

**Arlington County Dept. of Parks & Recreation Nursery and Storage Facility
Spill Log**

Date of Spill	Type of Material / Amount Spilled	Date / Description of Clean-up	Employee Initials

Appendix E – Standard Operating Procedure: Safe Procedures for Pesticide Handling (Transporting, Mixing/Diluting) Storage & Disposal

Standard Operating Procedure

SOP Title	Safe Procedures for Pesticide Handling (Transporting, Mixing/Diluting) Storage & Disposal
SOP Owner	Kurt Louis, Parks & Natural Resources Division Chief
Implementation Date	January 1 st , 2019
Last Reviewed/Update Date	
Approval (signature/date)	 1/1/2019

Objective: To provide PNR Staff who access and use chemicals from the Pesticide Room or out in the field with procedures for safe handling, transporting, storage and disposal.

Procedures

1) General

- a) Become familiar with the Safety Data Sheets (SDS) for each product being used.
- b) Always follow the manufacturers' label recommendations for storage, handling (transporting, mixing, transferring, diluting), application and disposal.
- c) All pesticide application equipment must be capable of immediate shut-off in the event of an emergency. Additionally, staff using this equipment should be trained in various ways to correct any spills when using equipment or handling materials.
- d) Follow information provided within this Standard Operating Procedure (SOP).

2) Storage

- a) Order only the amount of material needed to minimize excess or obsolete materials which require storage or disposal.
- b) Label all original containers with date purchased use older materials first.
- c) "Service Container" means any package, can, bottle, bag, barrel, drum, tank or other containing-device (excluding any application tanks) used to enclose a pesticide. Containers that are used to sell or distribute a pesticide product and that also function in applying the product (such as spray bottles, aerosol cans, and containers that become part of a direct injection system) are considered to be containers.
- d) All chemicals will be stored in the original container or labeled service container.
- e) All service containers must be labeled with the product inside. *Use of available luggage tags is suggested.* Clearly label all service containers with name of product, date placed in secondary container and use a copy of the manufacturer's label.
- f) "Secondary containment unit" means any structure, including rigid diking, that is designed and constructed to intercept and contain pesticide spills and leaks and to prevent runoff and leaching from stationary pesticide containers.
- g) All products in the storage room or being transported by vehicles shall be stored in secondary containment units. Secondary containment units are meant to catch any spilled product and shall be

large enough to sufficiently capture the entire amount spilled from the primary (i.e. manufacturer's) container.

- h) Open bags of pesticides and fertilizers will be double-bagged in clear plastic bags to allow staff the ability to read product information without having to go into the bag. Such bags will also be stored in a secondary containment unit.
- i) Have SDS sheets for all chemicals. Ensure new products have a label and SDS printed and placed in the appropriate books of the room(s) where the product is being stored.
- j) **Do not** store pesticides in the same place as ammonium nitrate fertilizers.
- k) At least annually, maintain a current written inventory of all pesticides and fertilizers at the storage site. This task will be completed by the person assigned to maintain the Pesticide Room.
- l) Weekly: Inspect storage area for leaks and spills. Document these inspections on the sign-off sheet and report to supervisor.
- m) Equip area with easily accessible spill cleanup materials and portable firefighting equipment.
- n) Contaminated waste materials should be placed in the Used Absorbent designated container that is stored in a designated, covered and contained area.
- o) **Do not** store chemicals containers on the floor or ground.

3) Mixing and Transferring

- a) Follow all manufacturers' recommendations for transferring, mixing, applying and handling of fertilizers, herbicides and pesticides.
- b) When transferring products to a service container, work on a stable surface and have spill kit readily available.
- c) Mix fertilizers, herbicides or pesticides within a protected area with impervious secondary containment so that spills or leaks will not contact soil. When mixing outside, work on a stable surface and a spill pan must be directly under the mixing point.
- d) At the Trades Center, herbicides and pesticides are to be mixed outside the Pesticide Room.
- e) Always mix only the minimum amount of fertilizers, herbicides or pesticides that will be needed for the immediate job.
- f) Fertilizers are mixed on location of where work is to be performed.

4) First Aid/Decontamination/Spills/HazMat

- a) A shower and eye wash station are available within the Pesticide Room for first aid treatment.
- b) Eye wash fluids shall be placed on vehicles that regularly transport pesticides, fertilizers, herbicides, etc. and/or be available at locations where regular mixing takes place.
- c) Spills should be cleaned immediately using proper PPE and available spill kit equipment.
- d) Per county policy, any liquid spill over 5 gallons is considered a Hazmat situation and Arlington County Fire Department (ACFD) should be called to respond.
- e) If possible, use rinse water from cleaning containers and application equipment as a dilution for the next batch.
- f) Sweep pavement where fertilizers or other solid chemicals have fallen. Report spills to supervisor.
- g) Residue collected from the shower and eye wash station shall be discarded in a toilet, sink or system attached to county's sanitary sewer lines. Pump out residue with the designated Wet Vac found in the room.

5) Disposal

- a) Always follow manufacturers' instructions for cleaning and disposal of containers and equipment.
- b) Do not pour leftover pesticides down the sink, into the toilet, down a sewer or street drain or directly in soil.
- c) If the container is empty, do not reuse it. Triple rinse the container and place it in the trash, unless the label specifies a different procedure.

In-house Training and competency requirements

Annually (suggested in the month of February) all commercial applicators and registered technicians will participate in a training session. The session will include:

- Reviewing this S.O.P.
- Sharing information regarding new products that may be used
- Sharing information on new equipment being used
- Review procedures for the Pesticide Room
- Discussion of "best practices"
- Review process in which we use Spill Kits

Associated documents and trainings

- Integrated Spill Prevention, Control and Countermeasure (SPCC) Plan & Hazardous Material Management Plan
- Stormwater Pollution Prevention Plan for Arlington Trades Center
- Annual DES SWPP Review training (usually held in November)
- Virginia Pesticide Laws & Regulations

Signs (Insert associated signage)

Posted signs for Pesticide Room:

1. Pesticide Room – Spill/Leak Safe Handling Procedures
2. Pesticide Room - Product Storage & Safe Handling Procedures

Appendix AR 10 – Summary of Illicit Discharges in FY23

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
07/01/2023	Virginia Highlands	Concrete	Construction Activity	Concrete wash water runoff from SFH construction site. Builder required to clean impacted area. NOV issued.	Yes
07/06/2022	Spout Run	Oil	Spill	OSEM received notification of a spill. Upon investigation it is determined transmission oil was spilled in the street. Resident and occupant of vehicle attempted to clean most of the spill up with paper towels. Remainder was washed down with dish detergent and water.	Yes
07/08/2022	Four Mile Run - Upper Mainstem 1	Concrete/Asphalt	Construction Activity	ACFD dispatched for report of a gray/white substance coming out of outfall to Four Mile Run. Discharge no longer occurring from outfall at time of inspection. Gray powder settled at bottom of channel. No hazards detected on chem strips. Material resembled concrete wash water. Source of discharge not identified.	Yes
07/11/2022	Lucky Run	Sewage	Overflow	Sanitary sewer overflow (SSO) from private sanitary lateral serving strip mall (3819 S George Mason Drive) in Fairfax County. Sewage entered storm drain system and Lucky Run channel in Arlington. Overflow stopped and area being cleaned up. Fairfax County notified Arlington County and DEQ.	Yes
07/28/2022	Gulf Branch	Paint/Grout	Washing Activity	Discharge of unknown white substance from MS4 to Gulf Branch from outfall closest to N Utah St. Drainage area investigation did not reveal a source. Episodic discharge, no longer occurring at time of investigation. Substance resembled white latex paint.	Yes
07/28/2022	Torreyson Run	Sediment	Construction Activity	Resident had an old fishpond filled in and the contractor dumped dirt on street. Contractor used a pressure washer to wash driveway to remove tracked dirt. County spoke with contractor about issue.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
07/29/2022	Torreyson Run	Sediment	Construction Activity	Discharge of soil associated with work being conducted at SFH. Contractor power washed driveway and in right of way - a significant amount of soil entered the storm drain system. NOV issued.	Yes
08/03/2022	Lubber Run	Sediment	Construction Activity	Resident reported sediment discharge to stream from east outfall in Woodlawn Park. Drainage area investigation revealed evidence of a sediment discharge from SFD construction site to the MS4. Staff spoke with personnel working on site about filtering controls for dewatering.	Yes
08/05/2022	Little Pimmit Run - East Branch	Organic/Food	Dumping	Report of landscaping company blowing / disposing of grass clippings in storm drains. Clippings were found in the storm drain during the follow-up inspection. County staff followed up with landscaping company and provided educational materials.	Yes
08/08/2022	Doctor's Branch	Wash Water	Other	Report of oily/soapy water discharging from a PVC pipe on the side of a condo building and going into a storm drain. The County worked with the property management company to determine the source the discharge and resolve the issue.	Yes
08/09/2022	Spout Run	Concrete/Asphalt	Spill	Approximately, 50 gallons of liquid tar were released from a tanker standing by in the parking lot. Some product entered a storm drain system on the site. Product contained in system. No release to surface waters. Clean up company cleaned area. DEQ and VDOT notified of release to storm drain system.	Yes
08/10/2022	Gulf Branch	Sediment	Unknown	Report of cloudy water in in Gulf Branch. Drainage area investigation conducted; source not identified. Episodic discharge; no longer occurring. Based on photos, the discharge looked like a sediment discharge.	Yes
08/16/2022	Lubber Run	Sediment	Construction Activity	Repeat sediment discharge from SFH construction site to MS4 and Lubber Run. No controls used during dewatering. Muddy water pumped over improperly maintained construction entrance. NOV issued to builder.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
08/24/2022	Lower Long Branch	Grease	Indirect Runoff	Indirect discharge of grease associated with poor housekeeping / maintenance of used grease drum for restaurant. Letter sent to establishment about issue.	Yes
08/24/2022	Lubber Run	Concrete/Asphalt	Washing Activity	Discharge of concrete wash water to MS4 resulting from contractor washing out concrete truck chute in the street. NOV issued for unauthorized discharge.	Yes
08/24/2022	Lubber Run	Sediment	Construction Activity	Sediment discharge to Lubber Run via east outfall in Woodlawn Park. Discharge associated with dewatering at SFH construction site. In effective controls used to filter sediment during dewatering.	Yes
09/01/2022	Windy Run	Concrete/Asphalt	Construction Activity	Contractor washed out concrete in the ROW and storm drain. NOV issued to contractor.	Yes
09/02/2022	Spout Run	Sewage	Overflow	SSO from clogged private sanitary lateral serving establishment at 3130 Langston Blvd. Manager notified about immediate need for plumber to clear line and clean parking lot and storm detention vault. DEQ notified. IR#306351	Yes
09/06/2022	Bailey's Branch	Hydraulic Fluid	Construction Activity	Hydrocarbon sheen in storm runoff from leaking hydraulic system on excavator. Contractor addressed leak. DEQ notified.	Yes
09/07/2022	Four Mile Run - Middle Mainstem	Foam/Suds	Other	Notification of suds coming from outfall under bike path just west of I-395. Drainage area investigation revealed source was VA Concrete Plant. Excess detergent added to process water discharged to outfall. Plant staff notified of issue and told to stop discharge.	Yes
09/07/2022	Four Mile Run - Middle Mainstem	Chemical	Pool Drainage	Reported fish kill in FMR. Evidence found at outfall draining from condominium community. Pool lowered for end of season. Pool drainage system connected to storm drain system. Water not tested prior to release. NOVs issued to PM and Pool Company. DEQ notified.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
09/08/2022	Four Mile Run - Middle Mainstem	Chemical	Construction Activity	Report of contractors dumping liquid in a yard inlet. Buckets found on site but no other evidence. Homeowner notified of report.	Yes
09/08/2022	Spout Run	Concrete/Asphalt	Construction Activity	Report that concrete truck washed down concrete slurry to storm drain. Follow-up investigation confirmed discharge to MS4. NOV issued to company.	Yes
09/13/2022	Rosslyn	Concrete/Asphalt	Construction Activity	Builder dewatering a concrete wash out area to the MS4. Concrete slurry in right of way and inside storm drain system. Inspector notified the RLD that this was prohibited. NOV issued to builder.	Yes
09/15/2022	Little Pimmit Run - Lubber Run	Sediment	Construction Activity	Small sediment slug observed in stream. Source traced back to accumulated sediment around IP at a construction site that got into storm drain. Contractor instructed to clean area and install new controls.	Yes
09/20/2022	Virginia Highlands	Grease	Other	Discharge of cooking grease and debris to the right of way and storm drain system from inadequate housekeeping. NOV sent to establishment.	Yes
10/07/2022	Torreyson Run	Paint/Grout	Construction Activity	Report of construction dumpster in RoW leaking white material. Responsible party notified and area cleaned.	Yes
10/28/2022	Lubber Run	Sediment	Construction Activity	Sediment entered a storm drain on the construction site as a result of dewatering from a foundation wall. County inspector spoke with builder about issue.	Yes
10/30/2022	Little Pimmit Run - West Branch	Sewage	Construction Activity	Contractor for Washington Gas hit a private residential sanitary lateral while conducting excavation work in the right of way. Discharge contained in street. No discharge into storm drain. Contractor repaired damaged lateral.	Yes
11/01/2022	Rocky Run	Sewage	Overflow	Sanitary sewer overflow caused by a blockage (cinder block, grease, and debris) in a 16" sanitary main. DES WSS cleared the blockage and flushed the line. DEQ notified, IR#307011	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
11/02/2022	Donaldson Run	Concrete/Asphalt	Construction Activity	Staining from concrete slurry observed in curb line leading to storm drain. Several contractors working in the immediate area. The definite source / cause could not be determined / confirmed.	Yes
11/03/2022	Donaldson Run	Sediment	Unknown	Report of sediment in stream. No source was identified during a follow-up drainage area investigation. Episodic discharge, stream flowing clear.	Yes
11/03/2022	Donaldson Run	Concrete/Asphalt, Sediment	Construction Activity	Report of discolored water / sediment in stream. Drainage area investigation conducted, Episodic discharge possibly related to construction work at SFD on N Thomas St. Inspector notified and he followed up with builder.	Yes
11/04/2022	Doctor's Branch	Other Vehicle Fluid	Equipment Leak	Hydraulic line on garbage collection truck broke and released hydraulic fluid onto roadway. No product entered any storm drains. Environmental cleanup contractor employed to clean street.	Yes
11/18/2022	Doctor's Branch	Concrete/Asphalt	Construction Activity	Concrete wash out area failed and wash water /slurry overflowed at construction project on Columbia Pike. Slurry drained into storm drain. NOV issued to contractor.	Yes
11/22/2022	Rocky Run	Oil	Spill	ACFD reported an oil spill from a vehicle on 13th Street North. County crews cleaned the road of the material. No oil was found in any nearby storm drains.	Yes
12/02/2022	Lubber Run	Sediment	Construction Activity	Dewatering pond to test pit water line at Ballston Pond. No filtering controls used. Muddy water was pumped directly into culvert. SWO and NOV issued to contractor.	Yes
12/13/2022	Four Mile Run - Upper Mainstem 1	Sediment	Construction Activity	Sediment discharge to Four Mile Run. Sediment laden water pumped directly to stream. No filtering controls were used for the dewatering. City of Falls Church inspector notified and responded.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
12/19/2022	Roaches Run	Dumpster Juice	Equipment Leak	Discharge from leaking trash compactors in loading dock area. Runoff reaching storm drain system. Property management notified about issue and cleanup of area was conducted.	Yes
01/03/2023	Donaldson Run	Unknown	Unknown	Dead frogs reported in stream. Frogs not found. Dead worms were found during follow-up investigation. Possible water main break previous week could be possible source.	Yes
01/06/2023	Spout Run	Sediment	Construction Activity	Contractor failed to use proper filtering controls while dewatering at SFD construction site. Muddy water pumped to right of way and storm drain system. Contractor ceased pumping and cleaned area. NOV issued to contractor.	Yes
01/06/2023	Spout Run	Sediment	Construction Activity	Report of sediment laden water pumped to curb/gutter and storm drain. Contractor did not use appropriate filtering controls during dewatering. Muddy water pumped to the RoW and storm drain system. NOV issued to builder.	Yes
01/13/2023	Lubber Run	Sediment	Unknown	Report of sediment discharge from outfall to stream. Drainage area investigation did not reveal source of sediment. Discharge no longer occurring at time of investigation.	Yes
01/18/2023	Lubber Run	Sediment	Construction Activity	Resident report of sediment discharge to stream. Outfall flowing clear at time of investigation. Drainage area investigation conducted. Sediment is likely associated with construction activity along 19th St N and N George Mason Drive. Mud observed in storm drains. County staff spoke with contractor. Drains cleaned out.	Yes
01/23/2023	Lubber Run	Foam/Suds, Paint/Grout, Sediment	Construction Activity	Report of sediment in West outfall and a white sudsy substance in the East outfall of Lubber Run at Woodlawn Park. Sediment may have been associated with runoff from construction activity in watershed. Staff followed up with site superintendent at VHC site.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
01/25/2023	Doctor's Branch	Sediment	Construction Activity	Sediment discharge from SFD construction site to the MS4 resulting from inadequate on-site ESC. NOV issued to the contractor along with requirement to clean right of way and install controls.	Yes
01/26/2023	Doctor's Branch	Sediment	Construction Activity	OSEM observed sediment discharge to MS4 from SFH construction site. OSEM notified DSG inspector. NOV issued to contractor/RLD.	Yes
02/15/2023	Doctor's Branch	Sediment	Construction Activity	Sediment discharge due to improper dewatering operation. No filtering controls used. NOV issued to contractor	Yes
02/16/2023	Windy Run	Sediment	Construction Activity	Discharge of masonry sand to the right of way and storm drain system. Builder instructed to clean up sand. NOV issued to builder.	Yes
02/21/2023	Virginia Highlands	Grease	Pipe Break/Leak	Report of grease in storm drain system. Grease and waste material removed from ejector pit were improperly disposed of into storm drain system. NOV issued to contractor.	Yes
02/21/2023	Rocky Run	Wash Water	Dumping	Report of improper disposal of wash water by restaurant staff to alley, sidewalk and right of way. County staff spoke with representatives for the establishment about the issue. Educational materials provided.	Yes
02/22/2023	Roaches Run	Sewage	Overflow	Pump for sanitary ejector system failed. Pit overflowed and sewage and mineral oil from pump entered groundwater sump pump in parking garage. Fluid pumped to storm drain system. Property Management made necessary repairs. DEQ notified IR#308279	Yes
02/23/2023	Doctor's Branch	Sediment	Pipe Break/Leak	Contractor hit water main which flooded adjacent excavation. Majority of discharge entered the sanitary sewage system. Some of the discharge containing a minor amount of sediment reached the storm drain system. Water main repaired.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
02/28/2023	Spout Run	Sediment	Construction Activity	Plumbing contractor washed down accumulated sediment on street from repair work they performed. Site inspector spoke with contractor about allowing the mud to dry and then sweep the area. Contractor did not listen and washed down the area again. NOV issued to contractor.	Yes
03/01/2023	Rixey Branch	Sewage	Cross connection	DES discovered the sanitary sewer lateral for 3830 26th Street N was connected to the storm drain on 26th Street N. Property owner notified. DEQ contacted IR#308392. Cross connection was removed.	Yes
03/01/2023	Roaches Run	Sediment	Construction Activity	Sediment discharge to storm drain system associated with installation of new water service and meter. Follow-up conducted with staff about use of better controls.	Yes
03/09/2023	Crossman Run	Pesticide treated insulation	Home Improvement Activity	Resident reported some residual pesticide treated insulation was left in the street following installation work at their home. The residents vacuumed what they could, but some product was washed into the storm drain system. Company was called about cleanup and proper removal of materials.	Yes
03/10/2023	Spout Run	Sediment	Construction Activity	Sediment discharge to MS4 from SFD construction site. Inspector had issued a notice to clean area and prevent additional discharges. No action was taken. NOV issued to contractor.	Yes
03/23/2023	Rixey Branch	Concrete/Asphalt	Construction Activity	Discharge of concrete wash from SFD construction site to the storm drain system. NOV issued to the builder / permit holder.	Yes
03/23/2023	Doctor's Branch	Sediment	Construction Activity	Sediment discharge from dewatering operations at linear construction site. County staff spoke with contractor about discharge. NOV issued to contractor.	Yes
03/27/2023	Doctor's Branch	Sediment	Construction Activity	Contractor dewatering sediment laden water to the storm drain system at County linear project. OSEM spoke to contractor and issued NOV.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
04/05/2023	Rocky Run	Oil	Construction Activity	Excavator broke a hydraulic hose overnight. Fluid leaked into two storm drains. Clean up conducted by environmental clean up contractor. DEQ notified.	Yes
05/02/2023	Nauck Branch	Dumpster	Construction Activity	Report of a construction dumpster washed into a stream and lodged against culvert under trail. Contractor removed it from the stream channel.	Yes
05/11/2023	Lubber Run	Sediment	Construction Activity	Report of sediment coming from storm outfall and entering stream. Drainage area investigation conducted. Water running clear at time of investigation. Sediment discharge may have been associated with dewatering of a foundation at a SFD construction site. Discharge no longer occurring.	Yes
05/12/2023	Four Mile Run - Lower Mainstem	Concrete/Asphalt	Construction Activity	During investigation of a fuel spill, staff observed evidence of concrete waste in curb and inside storm drain system. DSG inspector notified. Contractor cleaned area. NOV issued to builder.	Yes
05/12/2023	Four Mile Run - Lower Mainstem	Fuel	Vehicle Accident	Dump truck hit a pole backing up. Fuel tank ruptured and released ~40 gallons of diesel fuel to street and into a storm drain. ACFD responded. Cleanup contractor brought it to mitigate release. DEQ notified. Arlington Alert issued	Yes
05/16/2023	Lubber Run	Sediment	Construction Activity	Resident report of small sediment discharge in stream. Construction inspector notified to check SFD construction site in drainage area. Source not identified. Discharge no longer occurring.	Yes
05/17/2023	Rixey Branch	Stone dust	Construction Activity	WSS reported an unknown gray substance around a catch basin in the back yard of a private property. Upon investigation it was found to be stone dust from tile cutting for a SFD remodeling project. Contractor cleaned up area.	Yes
05/21/2023	Rixey Branch	Sewage	Overflow	SSO caused by a blockage (large piece of asphalt) in the sanitary main. Overflow occurred at private residence and flowed overland to nearby stream. Main cleared of blockage. DEQ notified.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
05/23/2023	Lower Long Branch	Sewage	Overflow	Property owner reported an overflowing sanitary manhole in front yard. It drained directly into a nearby storm drain that leads to Lower Long Branch. WSS cleared the blockage and the overflow stopped.	Yes
06/01/2023	Spout Run	Concrete/Asphalt	Construction Activity	Report of evidence of gray staining (resembling concrete residue) along curb line going into a storm drain. Staining was not fresh. Source of staining unknown.	Yes
06/02/2023	Four Mile Run - Middle Mainstem	Sediment	Unknown	ACFD dispatched for report of discoloration, murky water in stream. No hazards detected on Chem Strip. No suds, sheen, odor, or evidence of fish kill. Slug discharge that resembled sediment. Discharge no longer active. Material settling out by the time ACFD arrived on scene.	Yes
06/07/2023	Gulf Branch	Sediment	Unknown	Report of orange discoloration in stream. Bright orange material on bottom of stream channel is floc from iron oxidizing bacteria, discoloration in water column appears to be sediment. OSEM conducted a drainage area investigation. Source of sediment not identified. Discharge no longer occurring.	Yes
06/08/2023	Windy Run	Sediment	Construction Activity	Sediment discharge to ROW and MS4 from SFH construction site. NOVs issued to contractor.	Yes
06/12/2023	Little Pimmit Run - East Branch	Paint/Grout	Dumping	Report of milky discolored water in stream. DES investigated but source not identified. ACFD notified, DEQ notified Prep #309586.	Yes
06/13/2023	Spout Run	Trash	Dumping	Report of citizens placing trash in a storm drain. WSS removed trash. Storm drain marker affixed to drain	Yes
06/14/2023	Donaldson Run	Organic/Food, Unusual Color	Dumping	Wash water dumping at back of property from back door of restaurant. A letter was sent along with a discussion with the manager. Follow up inspection found same issue. NOV issued.	Yes

Date	Watershed	ID Description	Source / Reason for Release	Summary / Action Taken	ID Eliminated or No Longer Occurring
06/23/2023	Little Pimmit Run - East Branch	Sediment	Construction Activity	Sediment discharge due to failed E&S controls the site inspector had requested be fixed prior to storm and they were not repaired.	Yes
06/23/2023	Four Mile Run - Upper Mainstem 2	Sediment	Construction Activity	Significant sediment discharge from The Grove at Dominion construction project. NOV issued. Inspector working with contractor to install additional controls.	Yes
06/26/2023	Four Mile Run - Middle Mainstem	Trash	Indirect Runoff	Resident report of trash caught on a tree limb downstream of a pedestrian bridge. Tree limb and trash removed from stream.	Yes
06/28/2023	Virginia Highlands	Concrete/Asphalt	Construction Activity	Complaint of concrete discharge to curb/gutter. Inspector visited the site and found a small amount in curb/gutter. He asked builder to clean material. No discharge to storm drain.	Yes

Appendix AR11 List of Permitted IHRR Facilities

Permit Number	Facility	Permit Type	Discharge Activity / Type
VAG110087	Virginia Concrete Company Inc.	Concrete SWGP	Surface discharges from plant
VAR051097	WMATA – Four Mile Run Bus Garage	Industrial SWGP	Discharge waiver
VAR051296	US Army – Joint Base Myer Henderson Hall**	Industrial SWGP / MS4 Permit	Surface discharges from MS4
VAR051421	Arlington County Water Pollution Control Facility	Industrial SWGP	Surface discharges from plant
VAR051790	US NPS – George Washington Memorial Pkwy Maintenance**	Industrial SWGP / MS4 Permit	Discharge waiver
VA0032000	US Department of Defense – Pentagon	Individual Industrial	Discharges from plant
VA008976	The Nature Conservancy	Individual Industrial	Long term groundwater discharge (treatment system in place)
VAG750208	Avis Rental Car	Car Wash GP	Episodic outdoor washing
VAG750207	Enterprise Shirlington	Car Wash GP	Frequent outdoor washing
VAG830569	Fillmore Shopping Center	Petroleum GP	Associated with active construction site
VAG830559	Met678 National Landing Amazon	Petroleum GP	Associated with active construction site
VAG830321	Avalon at Arlington	Petroleum GP	Long term groundwater discharge (treatment system in place)
VAG830340	1812 Holdings LLC, 1812 N Moore St.	Petroleum GP	Long term groundwater discharge (treatment system in place)
VAG830594	Pen Place	Petroleum GP	Associated with active construction site Terminated: May 2023
VAG830588	2050 & 2051 S Bell Street	Petroleum GP	Associated with active construction site. Terminated: August 2023

**Facility does not discharge or have a point of connection to Arlington County's MS4.

Appendix AR12 Summary of FY23 IHRR Inspections (Commercial Facilities)

Facility	Street #	Street Name	Insp. Date	Evidence of ID?	Follow-up Needed?	Letter Sent / referred	Issue(s) resolved
Joyce Motors	3211	10th Street N	03/22/2023	No	No	NA	NA
Jim's Automotive	4961	10th Street S	05/17/2023	No	No	NA	NA
ROKA Associates	3201	10th St N	03/22/2023	No	Yes	Yes / referred to FMO	In progress
AVIS (VPDES)	3206	10th St N	03/22/2023	No	No	NA	NA
LA MOTO	3206	10th St N	03/22/2023	No	Yes	Yes	Yes
WBM Automotive	3206	10th St N	03/22/2023	No	No	NA	NA
Arlington Forest Shopping Center	4801-4831	1st Street N	04/26/2023	Yes	Yes	Yes	Yes
Royal Pawn	507	23rd Street S	03/08/2023	No	No	NA	NA
Vacant - formerly Taj of India	509	23rd Street S	03/08/2023	No	No	NA	NA
Los Tios	513	23rd Street S	03/08/2023	No	No	NA	NA
Federico Ristorante Italia	519	23rd Street S	03/08/2023	No	No	NA	NA
Top Thai	523	23rd Street S	03/08/2023	No	No	NA	NA
Andalusia	525	23rd Street S	03/08/2023	No	No	NA	NA
Crystal City Sports Pub	529	23rd Street S	03/08/2023	No	No	NA	NA
Bob and Edith's Diner	539	23rd Street S	03/08/2023	No	Yes	Yes	In progress
23rd St S / S Eads St Alley	420	23rd Street S / 2315 S Eads St	03/08/2023	No	Yes	Yes	Yes
2325-2333 Shawarma XPress Strip	2325-2333	S Eads St	03/08/2023	No	No	NA	NA
First Choice Auto Body Flemings	525	31st St S	03/08/2023	No	No	NA	NA
C&G Auto Body	3912	5th Road N	04/21/2023	No	No	NA	NA
Pentagon Row HT Loading Dock Alley	900	Army Navy Drive	05/17/2023	No	No	NA	NA
Shirlington Village E of S Randolph		Campbell Avenue / S Randolph St	05/08/2023	No	No	NA	NA
Shirlington Village W of S Randolph		Campbell Avenue / S Randolph St	05/08/2023	No	No	NA	NA
Arlington Village Center	2500-2530	Columbia Pike	03/31/2023	No	No	NA	NA
Columbia Pike Retail	2601-2619	Columbia Pike	03/31/2023	No	No	NA	NA
Arlington Heights Property	4101-4113	Columbia Pike	03/09/2023	No	Yes	Yes	Yes
Columbia Pike Plaza	5001-5037	Columbia Pike	05/17/2023	No	No	NA	NA
Carters BP Station/Car Wash	4625	Columbia Pike	04/19/2023	No	No	NA	NA
Gelman Arlington Shopping Center	3013	Columbia Pike	03/09/2023	Yes	Yes	Yes	Yes
Eska	3111	Columbia Pike	03/31/2023	No	No	NA	NA
PHO Harmony and Grill	3203	Columbia Pike	03/31/2023	No	No	NA	NA

Facility	Street #	Street Name	Insp. Date	Evidence of ID?	Follow-up Needed?	Letter Sent / referred	Issue(s) resolved
Family Kabob and Curry House	3205	Columbia Pike	03/31/2023	No	Yes	Yes	Yes
Panda Bowl	3207	Columbia Pike	03/31/2023	No	Yes	Yes	Yes
Good Fortune Chinese Restaurant	3209	Columbia Pike	03/31/2023	No	Yes	Yes	Yes
Bangkok 54/Boru Ramen	2927	Columbia Pike	03/09/2023	No	Yes	Yes	Yes
Citgo gas station	2324	Columbia Pike	03/31/2023	Yes	Yes	Yes / Referred to FMO	Yes
Barcroft Plaza	4801-4821	Columbia Pike	04/19/2023	No	No	Yes	NA
Burger King	3627	Columbia Pike	04/19/2023	No	No	NA	NA
Marlen Perfume (food trucks)	3533	Columbia Pike	04/19/2023	No	No	NA	NA
The Broiler	3601	Columbia Pike	04/19/2023	No	No	NA	NA
Metro Motor Liberty	2300	Columbia Pike	03/31/2023	No	No	NA	NA
Shell Gas Station	3100	Columbia Pike	05/17/2023	No	No	NA	NA
Audi Arlington (wash area)	3200	Columbia Pike	03/31/2023	No	No	NA	NA
Arlington Auto Group	3621	Columbia Pike	04/19/2023	No	No	NA	NA
Eagle Automotive	3700	Columbia Pike	04/19/2023	No	No	NA	NA
Liberty Gas Station	4211	Columbia Pike	03/09/2023	No	No	NA	NA
Auto Plus	4601	Columbia Pike	04/19/2023	No	No	NA	NA
Sunoco /Arlington Auto Service Gas	5200	Columbia Pike	05/17/2023	No	No	NA	NA
Jiffy Lube	950	Jackson St	03/22/2023	No	No	NA	NA
Exxon	2410	Langston Blvd	05/25/2023	No	Yes	Referred to CE	In progress
Reinhart's Garage	3203	Langston Blvd	05/12/2023	No	Yes	Referred to FMO	In progress
Shell Gas Station	3332	Langston Blvd	05/12/2023	No	No	NA	NA
Cherrydale Motors	3412	Langston Blvd	05/13/2023	No	No	NA	NA
Liberty Gas Station	4019	Langston Blvd	05/19/2023	No	No	NA	NA
Exxon Gas Station	4035	Langston Blvd	05/19/2023	No	No	NA	NA
Exxon Gas Station	4746	Langston Blvd	04/13/2023	No	No	NA	NA
NTB	4801	Langston Blvd	05/19/2023	No	No	NA	NA
Japanese Auto Care	4831	Langston Blvd	05/19/2023	No	No	NA	NA
Sunoco Gas Station	5501	Langston Blvd	04/26/2023	No	No	NA	NA
BP Gas Station	5601	Langston Blvd	04/26/2023	No	No	NA	NA
Liberty Gas Station	5618	Langston Blvd	04/13/2023	No	No	NA	NA
Shell Gas Station	5630	Langston Blvd	04/13/2023	No	No	NA	NA
7-11/Exxon Gas Station	6730	Langston Blvd	04/13/2023	No	No	NA	NA

Facility	Street #	Street Name	Insp. Date	Evidence of ID?	Follow-up Needed?	Letter Sent / referred	Issue(s) resolved
Midas	6730A	Langston Blvd	04/13/2023	No	No	Referred to CE	NA
Lee Hwy Plaza	5701-5731	Langston Blvd	05/25/2023	No	No	NA	NA
Garden City Shopping Center	5117-5183	Langston Blvd	05/19/2023	No	Yes	Referred to SWB	Yes
Advanced Auto Parts	5404	Langston Blvd	04/26/2023	No	No	NA	NA
Lee Edison Shopping Center	5036-5046	Langston Blvd	04/13/2023	No	No	NA	NA
Bob & Edith's Diner	5050	Langston Blvd	04/13/2023	No	No	NA	NA
Mr. Tire	5200	Langston Blvd	04/13/2023	No	No	NA	NA
Koons Arlington Toyota/D&P (washing)	4045	Cherry Hill Rd	05/12/2023	Yes	Yes	Referred to DEQ	In progress
Cherrydale Properties	3901-3911	Langston Blvd	05/12/2023	No	No	NA	NA
Burger 7	2515	Langston Blvd	05/12/2023	No	Yes	Referred to SWB	In progress
C&P Automotive	6917	Langston Blvd	05/19/2023	No	No	NA	NA
Buckingham Shopping Center 2 NE	301-319	N Glebe Road	03/30/2023	Yes	Yes	Yes	Yes
Shell Gas Station	2240	N Glebe Road	05/19/2023	No	No	NA	NA
Liberty Gas / Auto Center	67	N Glebe Road	05/19/2023	No	No	NA	NA
Lee Harrison Shopping Center	2425	N Harrison Street	04/26/2023	No	No	NA	NA
Gyu-Kaku Japanese BBQ	1119	N Hudson Street	03/22/2023	No	No	NA	NA
Buckingham Shopping Center 1 NW	4235	N Pershing Drive	03/30/2023	Yes	Yes	Yes	Yes
Liberty Pershing Metro Motor	2717	N Pershing Drive	03/30/2023	No	No	NA	NA
Williamsburg Shopping Center 2	2914	N Sycamore Street	05/31/2023	No	No	NA	NA
Exxon Gas Station	2300	Richmond Hwy	03/08/2023	No	No	NA	NA
Porsche of Arlington (washing)	3100	Richmond Hwy	05/17/2023	No	Yes	Yes	Yes
Enterprise Shirlington VPDES	2778	S Arlington Mill Dr	05/08/2023	No	No	NA	NA
S Barcroft complex	4120-4162	S Four Mile Run Drive	04/14/2023	No	Yes	Yes	Yes
7 11 / Mobil	4154	S Four Mile Run Drive	04/14/2023	No	Yes	Yes	Yes
Mr. Wash Car Wash	4148	S Four Mile Run Drive, B	04/14/2023	No	No	NA	NA
Mr. Tire	4160	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Car Spa	3846	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Brothers Garage	3850	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Auto America Service - CLOSED	3860	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Arlington Auto Repair	3900	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
BP Gas Station	4050	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Shell Gas Station	4060	S Four Mile Run Drive	04/14/2023	No	No	NA	NA

Facility	Street #	Street Name	Insp. Date	Evidence of ID?	Follow-up Needed?	Letter Sent / referred	Issue(s) resolved
Caliber Collision Center	4068	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Caliber Collision Center	4072	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
J&F Motors	4076	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Arlington Collision Center	3840	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Auto Stop	3808	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Advanced Auto Sales	3800A	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Automotive Express	3800B	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
M&R Motors - CLOSED	3800C	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Q Auto Care	3800D	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Four Mile Run Used Tires	3800E	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
E&D International Auto Repair	3800F	S Four Mile Run Drive	04/14/2023	No	No	NA	NA
Arlington Ridge Shopping Center	2925-2955	S Glebe Rd	04/05/2023	No	No	NA	NA
Giant Food	2901	S Glebe Road	04/05/2023	No	No	NA	NA
Arna Valley Exxon Gas Station	2720	S Glebe Road	04/05/2023	No	No	NA	NA
Exxon Gas Station	1001	S Glebe Road	03/31/2023	No	No	NA	NA
Midas	1001	S Glebe Road	03/31/2023	No	No	NA	NA
7-11	201	S Glebe Road	04/21/2023	No	No	NA	NA
Town Car Repair	301	S Glebe Road	04/21/2023	No	No	NA	NA
Mister Motors	918	S Monroe Street	04/19/2023	No	No	NA	NA
Automotive Express and used tires	2705	S Oakland Street	04/14/2023	No	No	NA	NA
The Muddy Mutt	2603A	S Oxford Street	04/14/2023	Yes	Yes	Yes	Yes
Shirlington Shell	2817	S Quincy Street	05/08/2023	No	No	NA	NA
Collision Care Accident Repair	2609	Shirlington Road	04/05/2023	No	No	NA	NA
Auto America Service	2611	Shirlington Road	04/05/2023	No	No	NA	NA
Exxon	2316	Shirlington Road	05/17/2023	No	No	NA	NA
Arlington Auto Sale (Capitol Auto Land)	2427	Shirlington Road	04/05/2023	No	No	NA	NA
Ashu Auto Repair	2515	Shirlington Road, A	04/05/2023	No	No	NA	NA
Fine Line Auto	2515	Shirlington Road, B	04/05/2023	No	No	NA	NA
Foreign Car Service Center	2758	Washington Blvd	03/30/2023	No	Yes	Yes + Referred	Yes
Shell Gas Station	2835	Washington Blvd	05/19/2023	No	No	NA	NA
Baird Automotive	3427	Washington Blvd	05/19/2023	No	No	NA	NA
Pham's	3435	Washington Blvd	05/19/2023	No	No	NA	NA

Facility	Street #	Street Name	Insp. Date	Evidence of ID?	Follow-up Needed?	Letter Sent / referred	Issue(s) resolved
Japanese Auto	4530	Washington Blvd	04/26/2023	No	No	NA	NA
Sunoco Gas Station	4601	Washington Blvd	04/26/2023	No	No	NA	NA
H&R Auto	2824, 2825	Washington Blvd	05/19/2023	No	Yes	Yes	Yes
Westover Village Shopping Center	5839-5863	Washington Blvd	05/19/2023	No	Yes	Yes	Yes
Westover Village Shops	5866-5880	Washington Blvd	05/19/2023	No	No	No	NA
Liberty	5201	Wilson Blvd	05/25/2023	No	No	NA	NA
Colonial Village Shopping Center	1711-1737	Wilson Blvd	04/19/2023	No	Yes	Yes	Yes
2039-2057 Wilson Blvd	2039	Wilson Blvd	04/19/2023	No	No	No	NA
Don Tito's	3165	Wilson Blvd	03/22/2023	No	No	NA	NA
Spider Kelley's	3181	Wilson Blvd	03/22/2023	No	No	NA	NA
Wilson Blvd strip alley	3125-3141	Wilson Blvd	03/22/2023	Yes	Yes	Referred to SWB	Yes
Liberty Tavern	3195	Wilson Blvd	03/22/2023	No	No	NA	NA
Mario's Pizza / Carvel	3322	Wilson Blvd	05/25/2023	No	No	NA	NA
All About Burger	3325	Wilson Blvd	03/22/2023	No	No	NA	NA
Exxon Gas Station	1824	Wilson Blvd	04/19/2023	No	No	NA	NA
T&J Auto Body / Mr. Tires	3237	Wilson Blvd	03/22/2023	No	No	NA	NA
Goodyear Arlington Auto Care	3298	Wilson Blvd	03/22/2023	No	No	NA	NA
Exxon Gas Station	3299	Wilson Blvd	03/22/2023	No	No	NA	NA
Japanese Auto Service	3413	Wilson Blvd	03/22/2023	No	No	NA	NA
Arlington Auto Clinic Exxon	5000	Wilson Blvd	05/25/2023	No	No	NA	NA
Sure Fit	3298	Wilson Blvd, B	03/22/2023	No	No	NA	NA

Appendix AR13: Public Education and Participation

Arlington County conducts education and outreach activities for a comprehensive variety of stormwater and watershed management issues, including nonpoint source pollution, illicit discharges and pollution prevention, household hazardous waste, litter, and recycling, stream buffer and stream restoration, and water quality monitoring. Some activities are conducted annually, and others vary each year. These programs range from volunteer stream cleanup events, storm drain marking, and school and civic group presentations to web-based information and multi-media outreach efforts (including the Northern Virginia regional education campaign). Stormwater and watershed-related public education activities are conducted primarily by Arlington County Department of Environmental Services and Department of Parks and Recreation staff, with a variety of collaborative efforts undertaken with other Northern Virginia jurisdictions, such as EcoAction Arlington, Northern Virginia Regional Commission, Northern Virginia Soil and Water Conservation District, and other organizations. Each year Arlington County uses the strategies in the table below in our public education and engagement initiatives.

Strategies	Arlington County examples
Traditional written materials	Informational brochures, fact sheets and resources on rain gardens, rain barrels, permeable pavement, native plants/reducing lawn and green gardening.
Alternative materials	Dog waste pickup bags, dog rope toys, gardening gloves, native seed packets, notepads, and temporary tattoos with “Only Rain in the Storm Drain,” green gardening and pollution prevention messages.
Signage	Storm drain markers, dog waste pickup signs at dog parks, temporary educational signs at events, posters on best practices for restaurants, pollution prevention for institutional facilities, etc.
Media Materials	Articles in local media outlets, social media engagement, television and social media advertisement with Clean Water Partners.
Speaking engagements	Presentations to civic associations, teachers, local businesses, students, Master Naturalists, Master Gardeners, etc.
Curriculum materials	Enviroscape Watershed Model lesson – materials and model provided to volunteers and teachers for use with students; Material and teaching for Master Naturalist and Master Gardener classes.
Training materials	Materials for rain garden workshops and other homeowner technical assistance provided online.

Table 1: List of strategies and Arlington County-specific examples

Per Arlington’s MS4 permit, public outreach and education objectives include:

1. Promote, publicize, and facilitate public reporting of the presence of **illicit discharges** or improper disposal of materials into the MS4;
2. The permittee shall identify no less than three high-priority stormwater issues to meet the goal of educating the public. High-priority issues may include the following examples: **Chesapeake Bay nutrients, pet wastes**, local receiving water impairments, TMDLs, high-quality receiving waters, and **illicit discharges from commercial sites**. The permittee shall use four or more of the strategies listed in the table [above] per year to communicate to the public the high-priority stormwater issues identified including how to reduce stormwater pollution;
3. Continue to promote individual and group **involvement in local water quality improvement initiatives** including the promotion of local restoration and clean-up projects, programs, groups, meetings and other opportunities for public involvement;
4. Develop an outreach program for public and private **golf courses** located within the County which discharge to the permittee’s MS4 that encourages implementation of integrated management practice (IMP) plans and techniques to reduce runoff of fertilizer and pesticides;
5. Promote and publicize the proper management and disposal of used **oil and household hazardous wastes**;
6. Promote and publicize the proper disposal of **pet waste** and household **yard waste**;
7. Promote and publicize the use of the county’s **litter prevention** program;
8. Promote and publicize methods for residential **car washing** that minimize water quality impacts;
9. Promote and publicize the proper use, application, and disposal of **pesticides, herbicides, and fertilizers** by public, commercial, and private applicators and distributors;
10. Encourage private property owners to implement **voluntary stormwater management** techniques and/or retrofits including those described in Part I.B.2; and,
11. Target strategies towards local groups of **commercial, industrial, and institutional entities** likely to have significant stormwater impacts
12. Develop an outreach and education strategy to target **private winter maintenance providers** and encourages implementation of enhanced best management practices in the application and storage of anti-icing and deicing compounds and abrasives used for snow and ice management.

The tables below provide the reporting information required by the permit: a list of permittee public outreach and education activities and the estimated number of individuals reached through the activities. The sections that follow provide summaries of the key programs for FY23.

In the last column of the tables, the public outreach and education objectives (from the list above) for each activity are abbreviated: Illicit discharge (1, 2), Public involvement (3), Golf courses (4), Household hazardous waste (5), Pet waste/yard waste (6, 2), Litter prevention (7), Car washing (8), Pesticides and fertilizers (9, 2), Voluntary stormwater techniques (10), Commercial and institutional outreach (11, 2), Winter salt (12).

Public Outreach / Education Presentations and Events	Date	Estimated or actual number of individuals reached	Themes Covered
Stormwater Utility Open House	7/18/2022	30	Public involvement
Park Corps – Storm Drain Marking & Stream Monitoring	8/1/2022	15	Storm drains, pollution prevention, involvement in water quality initiatives, litter prevention
Park Corps – What Color is a Stream?	8/2/2022	15	Illicit discharge, car washing, pet waste, voluntary stormwater techniques, litter prevention
Life Cycle of Water Presentation at Library	8/9/22	30	Public involvement, voluntary stormwater techniques
Arlington County Fair	8/19-8/21/22	2000	Public involvement, voluntary stormwater techniques,
Stormwater Utility Community Advisory Group (SUCAG) Meeting 4	8/31/22	15	Public involvement
Spout Run Watershed Meeting	9/6/22	25	Public involvement
Lubber Run Watershed Meeting	9/21/22	25	Public involvement
Information Session for Faith Organizations for Stormwater Utility	9/28/22	20	Public involvement, Institutional entities
Presentation for Interfaith Alliance on stormwater utility	9/29/22	30	Public involvement, Institutional entities
Paws on the Pike	10/3/2022	150	Pet waste
Bailey’s Branch Watershed Meeting	10/5/22	20	Public involvement
Arlington Regional Master Naturalists (Fall Aquatic Ecology Class)	10/11/22	25	Illicit discharge, car washing, pet waste, Fertilizers & pesticides, winter salt, voluntary stormwater techniques, litter

Public Outreach / Education Presentations and Events	Date	Estimated or actual number of individuals reached	Themes Covered
			prevention, winter salt, public involvement
Stormwater Utility Community Advisory Group (SUCAG) Meeting 5	10/12/22	15	Public involvement
Public Spaces Master Plan Committee	10/17/22	15	Public involvement
Encore Learning Watershed Presentation	10/17/22	20	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Encore Learning Watershed Presentation	10/19/22	20	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Stream Monitoring Volunteer Training	10/21/22	20	Public involvement in water quality initiatives
Parks and Recreation Commission	10/25/22	15	Presentation on proposed changes to zoning ordinance for stormwater facilities
Master Gardeners Q&A session	10/25/22	40	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Sparrow Pond Native Plant Rescue	10/25/2022	25	Public involvement in water quality initiatives
Torreyson Run Watershed Meeting	11/2/22	20	Public involvement
Information session for nonprofit organizations on the stormwater utility	11/2/22	10	Public involvement, Institutional entities
Crossman Run Watershed Meeting	11/9/22	20	Public involvement

Public Outreach / Education Presentations and Events	Date	Estimated or actual number of individuals reached	Themes Covered
Annual Stream Monitoring Volunteer Appreciation	11/10/22	30	Public involvement in water quality initiatives
Arlington Regional Master Naturalists - Stream Monitoring Training	11/12/22	25	Public involvement in water quality initiatives
Ashlawn Elementary School Stormwater Presentation	11/16/22	50	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Arlington Forest Civic Association	11/16/22	30	Public involvement
Green Valley – Concord Mews Pond Restoration	11/17/22	30	Public involvement in water quality initiatives
Ashlawn Elementary School Stormwater Presentation	11/18/22	50	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Climate Change, Energy and Environment Commission	11/21/22	10	Public involvement
Public Meeting on Proposed changes to zoning ordinance	12/14/22	7	Public involvement
Zoning Committee of the Planning Commission	1/17/23	5	Public involvement
Green Manor Garden Club Presentation	2/13/23	25	Pesticides and fertilizers, voluntary stormwater techniques
Cardinal School Stormwater Vault Public Meeting	3/1/23	20	Public involvement
Barcroft BSCL C/A meeting on Sparrow Pond and Green Streets	3/2, 4/6	20	Public involvement
Planning Commission	3/6/23	20	Public involvement
Understanding Your Flood Risk Webinar	3/14/23	261	Floodplain maps, voluntary stormwater techniques

Public Outreach / Education Presentations and Events	Date	Estimated or actual number of individuals reached	Themes Covered
How to Reduce Flood Risk Webinar	3/17/23	156	Voluntary stormwater techniques
Flood Risk Webinar in Spanish	3/1/23	63	Floodplain maps, voluntary stormwater techniques
Intro to Stream Monitoring	3/22/23	15	Illicit discharge, public involvement
Donaldson Run Headwaters Outfall Community Meeting	3/28/23	15	Public involvement
Rain Barrel Workshop	3/29/23	25	Voluntary stormwater techniques, public involvement
Rain Barrels and Rain Gardens	4/11/23	4	Public involvement
Arlington Regional Master Naturalists (Spring Aquatic Ecology Class)	4/11/23	25	Illicit discharge, car washing, pet waste, Fertilizers & pesticides, winter salt, voluntary stormwater techniques, litter prevention, winter salt, public involvement
Bozman Grand opening event	4/12/23	50	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Arlington Regional Master Naturalists – Stream Monitoring Training	4/15/23	25	Public involvement in water quality initiatives
Stream Monitoring Team Leader Refresher Training	4/20/23	20	Public involvement
Earth Day Event – Plan Langston Blvd	4/23/23	200	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Encore Learning Watershed Presentation	4/24/23	20	Public involvement, pesticides and fertilizers, voluntary stormwater techniques

Public Outreach / Education Presentations and Events	Date	Estimated or actual number of individuals reached	Themes Covered
Penrose Civic Association	4/25/23	15	Public involvement
Encore Learning Watershed Presentation	4/26/23	20	Public involvement, pesticides and fertilizers, voluntary stormwater techniques
Flood Preparedness Pop Up Outreach Events	4/29/23	450	Voluntary stormwater techniques
EcoAction Arlington Tree Canopy Volunteers	5/2/23	10	Voluntary stormwater techniques
Dumbarton Culvert Project Public Meeting	5/3/23	15	Public involvement
Faith Alliance for Climate Solutions	5/6/23	15	Voluntary stormwater techniques
Stormwater Utility Information Sessions	5/19/23	10	Public involvement
Stormwater Utility Information Sessions	6/2/23	10	Public involvement
Bacteria Monitoring Recertification	6/2/23	15	Water quality
Green Home and Garden Tour	6/4/23	100	Voluntary stormwater techniques, public involvement in water quality
Master Gardeners	6/20/23	20	Voluntary stormwater techniques
Stormwater Utility Information Sessions	6/27/23	10	Public involvement
Total Individuals Reached via Presentations and Events		4511	

Table 2: List of permittee public outreach presentations and events and the estimated or actual number of individuals reached, FY23

Public Outreach / Education – Other Activities	Timeframe	Estimated or actual number of individuals reached	Themes Covered
Flood Preparedness Display in 4 Libraries	Month of April, 2023	300	Flood preparedness and reducing flood risk
Stormwater Utility Video	July, 2022	386 views	Proposed stormwater utility and stormwater program
Projects to Watch Video on Stormwater Vault Project	April, 2023	693 views	Stormwater vault project and stormwater program
Pollution prevention and stream pollution reporting via the County website , social media and e-blasts <ul style="list-style-type: none"> - New pages in FY2023: golf courses, winter salt for snow removal professionals, construction pollution prevention 	Ongoing, special focus in spring	3045 pageviews	Illicit discharge, Household hazardous waste, Car washing, Pet waste, Fertilizers & pesticides, Yard waste, Commercial outreach, Golf courses, Winter salt
Storm drain marking	Ongoing	95 volunteers, 224 volunteer hours, 586 storm drain markers	Illicit discharge, public involvement
Stream monitoring	Ongoing	106 volunteers, 1035 volunteer hours	Illicit discharge, public involvement
Green Events weekly email newsletter with environmental events, workshops, programs, and environmental tips	Ongoing	6000 recipients	Public involvement
In-depth interview and conversation with Army-Navy Country Club grounds manager on integrated management practice plans and techniques to reduce runoff of fertilizer and pesticides. Follow up with grounds managers for ANCC and Washington Golf and Country Club regarding ongoing best practices. New golf course-focused webpage in P2 section.	1/12/2023	Managers for 25-30 grounds staff each, 50-60 people reached total.	Golf courses

Public Outreach / Education – Other Activities	Timeframe	Estimated or actual number of individuals reached	Themes Covered
Restaurant Pollution Prevention Resources – print and online, including used cooking oil brochure, FOG brochure, Back-of-House Restaurant dry cleanup methods posters, and Keep It Clean restaurant poster	Ongoing	As needed	Commercial and institutional entities
Household Hazardous Material Program and E-CARE	Year-Round, Special Events 2x/year	See Public Education and Participation section for totals	Household hazardous waste, Litter prevention
Recycling-focused social media and listserv messaging	Ongoing	27,434 residents	Litter Prevention
Quarterly brochures on proper recycling, organics and trash disposal, and Recycling Made Simple Bilingual Brochure	Quarterly	33,000 households	Litter Prevention
Trash and Recycling website educating on proper disposal	Online	408,765 pageviews	Litter Prevention
Rethinking Recycling video	Online	30,094 views since October 2020	Litter Prevention
Technical assistance site visits to private property owners to implement stormwater practices	7/8/22, 2/24/23, 3/24/23, 5/16/23	4 site visits, 6 individuals reached	Voluntary stormwater techniques
Stormwater at Home website outreach	Ongoing	6379 pageviews	Voluntary stormwater techniques
Rain Garden Workshop Recording and Materials	Online	810 views since February 2021	Voluntary stormwater techniques
Swimming Pool Owner and Contractor Outreach	Letters, Email Blast in Spring	318 letters, 250 inserts, 90 emails	Commercial outreach

Public Outreach / Education – Other Activities	Timeframe	Estimated or actual number of individuals reached	Themes Covered
Postcards on managing sawcut slurry, concrete washout, and dumpsters	Ongoing	As needed	Commercial outreach
Annual water quality report – included information on stormwater utility project	July 2022	35,000	Article on stormwater utility
Total Individuals Reached via Other Activities		552,831	

Table 3: List of other permittee public outreach and education activities and the estimated or actual number of individuals reached, FY23

Media coverage for FY 2023

Pool chemicals cause fish kill - <https://www.washingtonpost.com/dc-md-va/2022/09/13/fish-killed-four-mile-run/>

Sparrow Pond Project <https://www.arlnow.com/2022/09/14/long-awaited-sparrow-pond-wildlife-restoration-could-begin-next-year/>

Ballston Pond Project - [4 Things to Know About Wetlands – NBC4 Washington \(nbcwashington.com\)](https://www.nbc4.com/news/local/4-things-to-know-about-wetlands)

Cardinal Vault project article - [Our Man in Arlington - Falls Church News-Press Online \(fcnp.com\)](https://www.fcnp.com/news/our-man-in-arlington-falls-church-news-press-online)

Mayflies in Arlington <https://www.washingtonpost.com/magazine/2022/09/19/mayfly-decline/>

Arlington magazine Rain Garden Article (Page 90) https://issuu.com/greg.hamilton/docs/the-home-issue_arlington-magazine_mar-apr_2023

[Stream ‘Restoration’ of Arlington Streams a Misnomer? \(connectionnewspapers.com\)](https://www.connectionnewspapers.com/news/stream-restoration-of-arlington-streams-a-misnomer/)

Land Disturbing Activity Permit <https://www.arlnow.com/2022/10/20/local-homebuilders-say-stronger-stormwater-regulations-cause-costs-to-surge/>

[Flood Resilient Arlington Update \(govdelivery.com\)](https://www.govdelivery.com/location/arlington)

Volunteer Property Acquisition for Overland Relief

- [To fight flooding, Arlington is offering to buy homes in Cherrydale and Waverly Hills | ARLnow.com](#)
- [Arlington looking to buy homes for flood mitigation \(fox5dc.com\)](#)
- [Arlington to buy two more homes for stormwater management | ARLnow.com](#)

Flood Awareness Week

- [Virginia Flood Awareness Week 2023 Points to Preparation \(govdelivery.com\)](#)
- <https://www.wusa9.com/article/tech/science/environment/arlington-county-flooding-mitigation-plan-includes-buying-homes-in-flood-prone-areas/65-0b688b42-fb88-4e44-a2b8-4b90bfbcb82>
- <https://www.arlnow.com/2023/03/23/a-second-segment-of-donaldson-run-will-be-stabilized-against-further-erosion/>

April Preparedness Month -<https://www.arlingtonva.us/About-Arlington/Newsroom/Articles/2023/Arlington-Preparedness-Month-2023>

[Arlington County Board candidates call for more regulations, incentives and public education to mitigate flooding | ARLnow.com](#)

<https://www.arlingtonva.us/About-Arlington/Newsroom/Articles/2023/Be-Prepared-for-the-2023-Hurricane-Season>

Northern Virginia Clean Water Partners – Only Rain Down the Drain Campaign

In FY23, Arlington County continued to support the Northern Virginia Clean Water Partners [Only Rain Down the Drain campaign](#), a regional stormwater education campaign. The campaign includes television, print, internet advertising, Facebook, and Twitter to help visualize water pollution, sharing pollution prevention messages related to pet waste, motor oil, car washing, and fertilizer.

As part of the campaign, PSAs aired on a variety of TV stations throughout Northern Virginia, resulting in 865,060 impressions. Social media engagement and ads resulted in 825,685 impressions, 1128 Clean Water Pledges, and 2256 visits to the Only Rain Web site. During the summer of 2023, a survey was conducted of 500 northern Virginia residents to measure the effectiveness of the campaign. An average of 23 percent of the respondents recalled seeing the advertisements on TV or social media, while 60% of respondents recognize the Clean Water Partners Logo.

Of those respondents who recalled the ads, 70 percent said they were already taking action to protect water quality. Of those who made a behavior change after seeing the ad, 43 percent state they now pick up their pet waste more often, 50 percent state they plan to fertilize fewer times per year, and 48 percent are more careful with motor oil.

Summary of Regional Stormwater Education Campaign	
<u>Northern Virginia Clean Water Partners</u>	
Television Ads	
Number of viewers reached (English and Spanish ad)	865,060
Digital Impressions	
Number of Social Media Impressions (Facebook and Twitter)	825,685
Engagement with social media posts	22,151
Onlyrain.org website visits	2,256
Annual Survey Results	
Number of residents surveyed	500
Northern Virginia residents who know they live in the Potomac River watershed	44%
Arlington residents who know they live in the Potomac River watershed	48%
Survey respondents who recall seeing the Only Rain in the Storm Drain logo	60%
Arlington residents who recall seeing the Only Rain in the Storm Drain logo	60%
Survey respondents who recalled seeing Only Rain ads on TV or social media	23%
Those who saw the ads made the following behavior changes:	
Pick up pet waste more often	43%
Fertilize fewer times per year	50%
More careful with motor oil	48%

* Viewership numbers for TV ads can include viewers who saw the ad more than once.



Northern Virginia Rain Barrel Program

Arlington County continued to support the Northern Virginia Regional rain barrel program over the past year, including helping staff a rain barrel workshop. Over 4,500 rain barrels have been sold, with more than 1,400 of those rain barrels going to Arlington residents, with a 90 percent satisfaction rate for workshop participants. This equates to more than 70,000 gallons of stormwater that can be collected and retained during every storm event by Arlington homeowners.

Summary of Rain Barrel Program									
	2016	2017	2018	2019	2020	2021	2022	2023	Total**
Regional Participants	211	200	200	209	20*	102*	146	200	4158
Regional Number of Barrels	252	223	230	210	18	120	160	221	4961
Number of Barrels Sold to Arlington Residents	75	50	52	67	18	17	57	37	1414

* Rain barrel workshops were limited in 2020-2021 due to the Covid-19 public health emergency. A few small outdoor workshops and sales were held.

**Total number of barrels includes barrels sold since the program inception in 2007.

Appendix AR14 – Summary of Employee Training in FY23

Date of Training	Training	# of Participants
07/18/2022	Land Disturbance Activity & Environmental Regulatory Compliance for County Projects (DES)	22
08/04/2022	Stormwater Pollution Prevention for APS Custodial staff	36
08/09/2022	Land Disturbance Activity & Environmental Regulatory Compliance for County Projects (DPR)	14
08/24/2022	Stormwater Pollution Prevention for APS Drivers	248
09/30/2022	Snow Operations (Pollution Prevention and Spill Response)	47
02/01/2023 02/02/2023	Stormwater Pollution Prevention for Trades Center APS Facilities & Operations	45
03/02/2023	ART Bus Stormwater Pollution Prevention	10
04/19/2023	Stormwater Pollution Prevention for DPR Recreation Center Managers	11
05/09/2023	Stormwater Pollution Prevention for DES WSS (AM sessions)	20
05/09/2023	Stormwater Pollution Prevention for DES WSS (PM sessions)	22
05/10/2023	Stormwater Pollution Prevention for DES WSS (AM sessions)	30
05/10/2023	Stormwater Pollution Prevention for DES WSS (PM sessions)	13
05/11/2023	Stormwater Pollution Prevention for DES WSS (AM sessions)	18
05/11/2023	Stormwater Pollution Prevention for DES WSS (PM sessions)	39
05/23/2023	Stormwater Pollution Prevention for DES TEO	26
05/23/2023	Stormwater Pollution Prevention for DPR	80
06/13/2023	Stormwater Pollution Prevention for DES EB	13
06/13/2023	Stormwater Pollution Prevention for DES SWB Office Staff	8

Date of Training	Training	# of Participants
06/13/2023	Stormwater Pollution Prevention Training for DES SWB Ops Staff	22
06/15/2023	Stormwater Pollution Prevention Training for DES EB - AM session	13
06/15/2023	Stormwater Pollution Prevention Training for DES EB - PM session	7
06/22/2023	General TC Stormwater Pollution Prevention Training (AM session)	13
06/22/2023	General TC Stormwater Pollution Prevention Training (PM session)	18
06/29/2023	General TC Stormwater Pollution Prevention Training (AM session)	9
06/29/2023	General TC Stormwater Pollution Prevention Training (PM session)	12
Total		796

Appendix AR16 FY23 Dry Weather Facility Screening

Facility / Establishment	Street Name	Insp. Date	Direct on site structural connection to MS4	Structure Type(s)	Structure screened?	DW Flow?	Cloudy / Discolored	Foam/Suds	Sheen	Odor	Total Chlorine (ppm)	Ammonia (ppm)	Evidence of ID?	Follow-up Needed?	Issue	Issue(s) resolved
Arlington Forest Shopping Center	1st Street N	04/26/2023	Yes	C/G	Yes	No	NA	NA	NA	NA	NA	NA	Yes	Yes	Wash water	Yes
23rd St S / S Eads St Alley	23rd Street S / 2315 S Eads St	03/08/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	Yes	Yes	Wash water	Yes
Shirlington Village E of S Randolph	Campbell Avenue / S Randolph St	05/08/2023	Yes	G, CBs	Yes	Yes	No	No	No	No	NA	NA	No	No - Baseflow	NA	NA
Shirlington Village W of S Randolph	Campbell Avenue / S Randolph St	05/08/2023	Yes	G, CBs	Yes	Yes	No	No	No	No	NA	NA	No	No - Baseflow	NA	NA
Arlington Village Center	Columbia Pike	03/31/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Columbia Pike Retail	Columbia Pike	03/31/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Arlington Heights Property	Columbia Pike	03/09/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	Yes	Grease, trash	Yes
Carters BP Station/Car Wash	Columbia Pike	04/19/2023	Yes	CB	Yes	Yes	No	No	No	No	NA	NA	No	No - Baseflow	NA	NA
Gelman Arlington Shopping Center	Columbia Pike	03/09/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	Yes	Yes	Leaking waste containers / trash/ staining	Yes
Bangkok 54/Boru Ramen	Columbia Pike	03/09/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	No	Yes	Leaking waste containers / trash/ staining	Yes
Barcroft Plaza	Columbia Pike	04/19/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Metro Motor Liberty	Columbia Pike	03/31/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Audi Arlington (wash area)	Columbia Pike	03/31/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
7-11/Exxon Gas Station	Langston Blvd	04/13/2023	Yes	CBs	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Lee Hwy Plaza	Langston Blvd	05/25/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Garden City Shopping Center	Langston Blvd	05/19/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	No	Yes	Trash	Yes
Advanced Auto Parts	Langston Blvd	04/26/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Koons Arlington Toyota/D&P (washing)	Cherry Hill Rd	05/12/2023	Yes	G	Yes	Yes	No	No	No	Chemical	<0.1	0.25	Yes	Yes	Wash water mixed with drainage from detention vault	In progress
Lee Harrison Shopping Center	N Harrison Street	04/26/2023	Yes	CB, G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Buckingham Shopping Center 1 NW	N Pershing Drive	03/30/2023	Yes	Grate	Yes	No	NA	NA	NA	NA	NA	NA	Yes	Yes	Wash water, trash, staining	Yes
Exxon Gas Station	Richmond Hwy	03/08/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Enterprise Shirlington VPDES	S Arlington Mill Dr	05/08/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
S Barcroft complex	S Four Mile Run Drive	04/14/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	Yes	Yes	Trash, leaking waste container	Yes
7 11 / Mobil	S Four Mile Run Drive	04/14/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	Yes	Yes	Trash	Yes
Mr. Wash Car Wash	S Four Mile Run Drive, B	04/14/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Mr. Tire	S Four Mile Run Drive	04/14/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Giant Food	S Glebe Road	04/05/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA

Facility / Establishment	Street Name	Insp. Date	Direct on site structural connection to MS4	Structure Type(s)	Structure screened?	DW Flow?	Cloudy / Discolored	Foam/Suds	Sheen	Odor	Total Chlorine (ppm)	Ammonia (ppm)	Evidence of ID?	Follow-up Needed?	Issue	Issue(s) resolved
Arna Valley Exxon Gas Station	S Glebe Road	04/05/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Exxon Gas Station	S Glebe Road	03/31/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Midas	S Glebe Road	03/31/2023	Yes	G	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
7-11	S Glebe Road	04/21/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
The Muddy Mutt	S Oxford Street	04/14/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	Yes	Yes	Wash water, fur	Yes
Shirlington Shell	S Quincy Street	05/08/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA
Westover Village Shopping Center	Washington Blvd	05/19/2023	Yes	G	Yes	Yes - baseflow	No	No	No	No	No	No	No	Yes	Grease, trash	Yes
Westover Village Shops	Washington Blvd	05/19/2023	Yes	CB	Yes	No	NA	NA	NA	NA	NA	NA	No	No	NA	NA

CB = Catch Basin
G = Grate Inlet
NA = Non-applicable

Appendix AR 17 Summary of FY23 Wet Weather Screening Data

Site	Date Time of first flush sample grab	Weather Conditions Date /~Time of start of preceding storm event	Rain (")	<i>E. coli</i> (MPN/ 100ml)	TPH (mg/L)	pH	Spec. Conductivity (mS/cm)	Surfactants as MBAs (mg/L)	Temp (°C)	Zinc (mg/L)	Cd (mg/L)	Cu (mg/L)	Lead (mg/L)	Hardness	NH ₃ (mg/L)	Nitrate / Nitrite (mg/L)	COD (mg/L)	Total P (mg/L)	TKN (mg/L)	TSS (mg/L)	Floatables
Outfall 17217 S Dinwiddie St	09/30/2022 (1 st Quarter) 5:35 pm	Overcast / Rain 9/25/2022 – 4:00 pm	1.09	199000	<5	6.85	0.491 (first flush)	0.257	19.5	0.0798	<0.00160	0.0113	<0.016	140	<0.2	0.57	130	0.084	<1.00	42	Organic matter, plastic pieces, plastic cups, 1 paper cup, polystyrene pieces, 2 aluminum cans
Outfall 21131 S Randolph St Shirlington	09/30/2022 (1 st Quarter) 5:55 pm	Overcast / Rain 9/25/2023 – 4:00 pm	1.09	46100	<5	6.82	0.267 (first flush)	0.213	19.6	0.0906	<0.0016	0.0113	<0.0016	100	<0.2	0.847	110	0.0079	1.10	10	Organic matter, plastic bags, plastic pieces, plastic bottles, electronic cable, aluminum can
Outfall 17217 S Dinwiddie St	11/11/2022 (2 nd Quarter) 9:40 am	Overcast / Rain 11/06/2022 – 7:25 am	0.78	>1600	<4.8	7.86	0.089 (first flush) 0.142 (composite)	0.253	18.0	0.295	<0.0016	0.0392	<0.008	60	<0.2	0.552	320	0.36	2.81	35	Organic matter, plastic pieces, a plastic bottle, three aluminum cans, a tennis ball
Outfall 21131 S Randolph St Shirlington	11/11/2022 (2 nd Quarter) 10:10 am	Overcast / Rain 11/06/2022 – 7:25 am	0.78	>1600	<4.9	6.98	0.123 (first flush) 0.247 (composite)	<0.2	18.4	0.16	<0.0016	0.0319	<0.008	80	2	0.361	290	0.58	10.7	40	Organic matter, a plastic bag, paper pieces, an aluminum can
Outfall 17217 S Dinwiddie St	03/24/2023 (3 rd Quarter) 11:30 am	Overcast / Rain 03/18/2023 – 1:00 am	0.90	>1600	<5.0	7.26	0.138 (first flush) 0.138 (composite)	0.357	13.1	0.177	<0.0016	0.0316	<0.016	43.7	0.32	1.31	230	0.28	1.56	77	Organic material, plastic pieces, plastic bottle, aluminum cans, plastic bag, foil pieces
Outfall 21131 S Randolph St Shirlington	03/24/2023 (3 rd Quarter) 10:30 am	Overcast / Rain 03/18/2023 – 1:00 am	0.90	>1600	<5.0	7.29	0.197 (first flush) 0.214 (composite)	0.20	13.5	0.142	<0.0016	0.0281	<0.016	51.1	2.9	1.13	63	0.61	5.68	56	Organic material, plastic bag, paper pieces, plastic pieces, aluminum can, jewelry ring, cigarette end
Outfall 17217 S Dinwiddie St	06/12/2023 (4 th Quarter) 3:00 pm	Overcast / Rain 05/30/2023 – 7:20 am	0.21	5940	<4.9	6.96	0.832 (first flush) 0.425 (composite)	<4.0	20.8	0.26	<0.010	0.046	<0.020	131	1.1	1.69	240	0.46	5.33	100	Pieces of paper and plastic, plastic bags, cigarette ends, piece of foil, organic material
Outfall 21131 S Randolph St Shirlington	06/12/2023 (4 th Quarter) 2:30 pm	Overcast / Rain 05/30/2023 – 7:20 am	0.21	61300	<4.9	6.89	0.275 (first flush) 0.443 (composite)	<4.0	23.3	0.40	<0.010	0.048	<0.020	111	0.29	2.03	110	0.52	3.62	110	Aluminum cans, plastic bag, pieces of paper and plastic, tennis ball, organic material

A value shown in **bold** indicates a level exceeding the program water quality criterion recommended by Center for Watershed Protection

Appendix AR18: FY23 Summary Bacteria Monitoring Detailed Information

Arlington monitors bacteria at 21 sites (Table 1). A map of the sites is available online at <https://www.arlingtonva.us/Government/Programs/Sustainability-and-Environment/Streams/Bacteria>

Upper Four Mile Run FMR1, FMR2, FMR3, FMR4, FMR5	Lower Four Mile Run FMR6, FMR7, FMR8, FMR9, FMR10
Four Mile Run Tributaries LBR1, LBR2, LBR3, ULB1, DB1, LLB1	Potomac Drainages GB1, DR1, DR2, WR1, LP1

Table 1: Bacteria Monitoring Site Groups

Since 2013, the bacteria monitoring program has followed a DEQ-approved Quality Assurance Project Plan (QAPP), available online at <https://www.arlingtonva.us/Government/Programs/Sustainability-and-Environment/Streams/News-Bacteria-Monitors>. Annual volunteer recertification is required, including a test. Data from prior years is not comparable. In FY23, global supply chain issues led to a scarcity of Coliscan product and resulted in temporary usage of [E. coli R-Card tests](#), created by the inventor of Coliscan.

Arlington posts summary *E. coli* bacteria information and data online, with graphs reflecting typical seasonal and rainfall-driven conditions. This baseline data helps the public make recreational decisions: <https://www.arlingtonva.us/Government/Programs/Sustainability-and-Environment/Streams/Bacteria>

Overview

The bacteria monitoring program had 97% coverage of its sites in FY 2023, with 245 out of 252 samples taken. Due to defective Coliscan product that did not include the coloring agents, five June samples were not usable, with additional unusable data in FY2024. Previous issues with Coliscan affecting samples were documented in the County’s letter to DEQ from 4/13/2023. In the future, it would be helpful to be able to use alternative equivalent or comparable methods.

Water Quality Standard Exceedances and Average Concentrations FY13-23

Of the 240 usable samples in FY23, 40% (95 samples) exceeded the primary contact recreation water quality standard (WQS) of 235 *E. coli* colony-forming units per 100 ml (CFU/100 ml). The secondary contact recreation water quality standard of 1173 CFU/100 ml was exceeded in 4% (9) of the samples.

	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Primary Exceedances (Number)	74	94	51	65	64	60	89	74	57	90	95
Primary Exceedances (% of Total Samples)	37%	38%	20%	26%	25%	25%	36%	30%	23%	36%	40%
Secondary Exceedances (Number)	29	23	5	13	15	16	22	5	9	11	9
Secondary Exceedances (% of Total Samples)	14%	9%	2%	5%	6%	7%	9%	2%	4%	4%	4%
Total Usable Samples	201	245	252	252	252	238	247	250	251	251	240

Table 2: Comparison of FY13-23 primary and secondary exceedances. Note that there were fewer sites in FY13-14.

Secondary contact recreation includes kayaking and fishing, whereas swimming is considered a primary contact activity. The secondary contact standard, even if not applicable to Arlington streams, is valuable. It allows the County to evaluate the suitability of our streams for these activities. The County’s guidance recommends limiting contact to secondary contact activities. See Table 2 for primary and secondary exceedances from FY 2013 – FY 2023.

Precipitation Relationships

Stormwater runoff may carry sediment, pet waste, wildlife waste, and bacteria to the streams, particularly in urban watersheds like those in Arlington. We continue to see a correlation between 3-day rainfall levels and *E. coli*. Since samples are collected once a month on a fixed schedule, larger rainfall events and higher corresponding *E. coli* levels are subject to inherent variability from year to year. In FY2023, five of the twelve monitoring dates had 3-day rainfall totals of 0.5 inches or more.

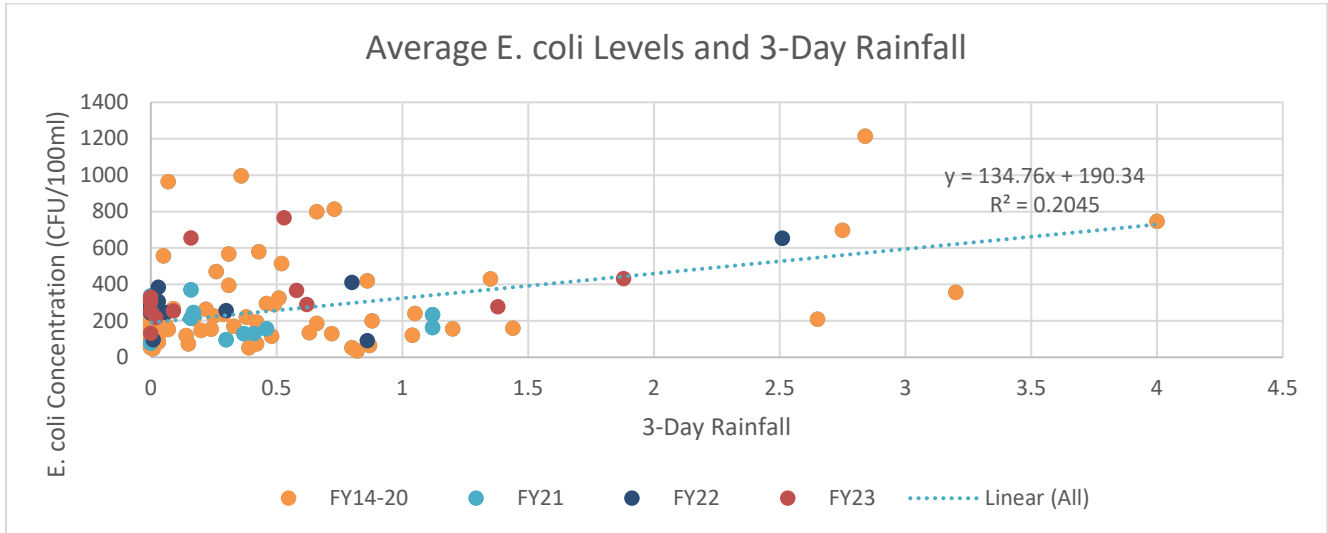
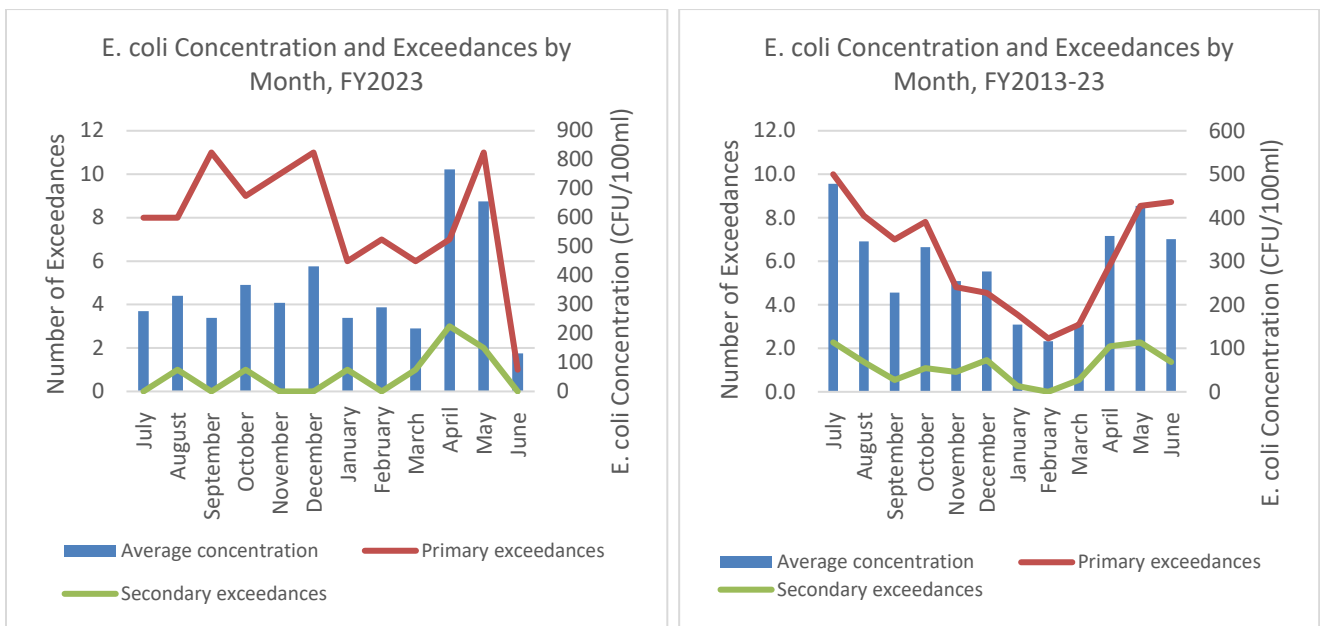


Figure 1: Average *E. coli* concentrations with 3-day rainfall totals. The *E. coli* concentrations represent the average of all 21 monitoring sites.

Colder Months, Fewer Exceedances

More Arlington water quality standard exceedances tend to occur during warm-weather months (Figures 2 and 3). Colder temperatures do not encourage bacterial growth and dog walking activities likely decrease along the stream valleys during the winter. Schueler (2000) notes that fecal coliform bacteria, of which *E. coli* is a subset, are typically at lower levels in winter months.



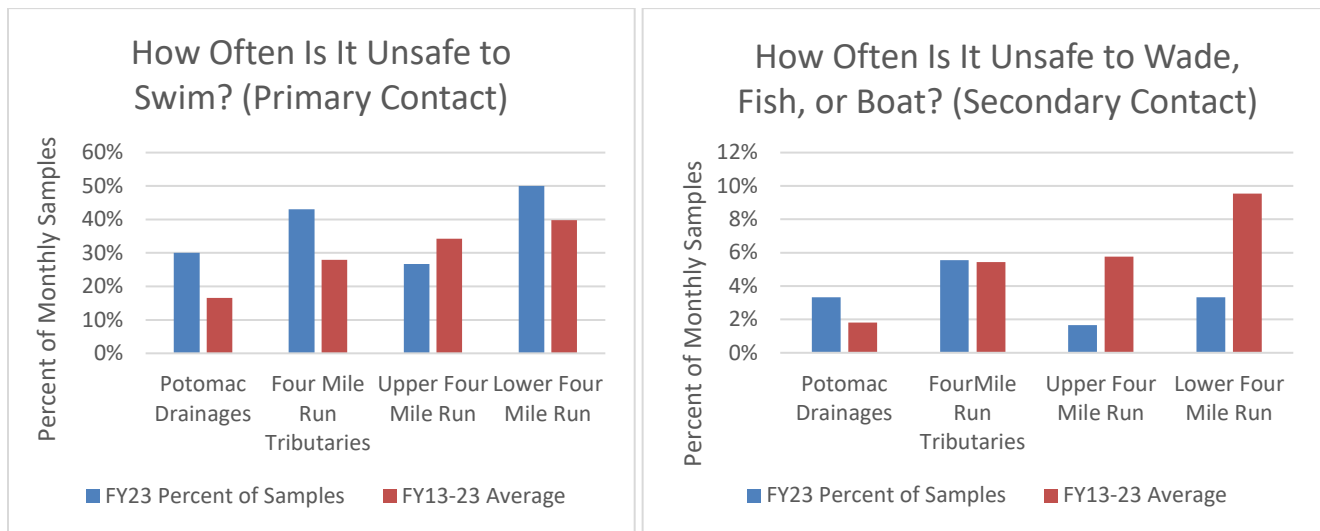
Figures 2 and 3: Primary and secondary water quality standard exceedances by month, FY13-23 and FY23 averages

Site Group Results

For the purposes of this analysis, the 21 sites can be broken into four groups: the Potomac drainages, Four Mile Run tributaries, upper Four Mile Run, and lower Four Mile Run. Figures 4 and 5 show water quality standard exceedance averages for each site group. Overall, FY23 results were similar to FY13-23 averages.

- Potomac drainage sites: Gulf Branch, Donaldson Run, Windy Run, Little Pimmit Run
- Four Mile Run tributary sites: Lubber Run, Upper Long Branch, Doctor’s Branch, Lower Long Branch
- Upper Four Mile Run sites: From Banneker Park to upper Glencarlynn Park
- Lower Four Mile Run sites: From Glencarlynn Park (downstream of the dog park) to Mount Vernon Ave.

This data supports the County’s decision to recommend residents restrict [stream usage to secondary contact activities](#).



Figures 4 and 5: Frequency of water quality standard site exceedances expressed as a percentage of monthly samples. Results represent site group averages.

Site Specific Results

Individual site data are shown in Figure 6 and Table 3. Arlington County recommends residents [limit stream usage to secondary contact activities](#).

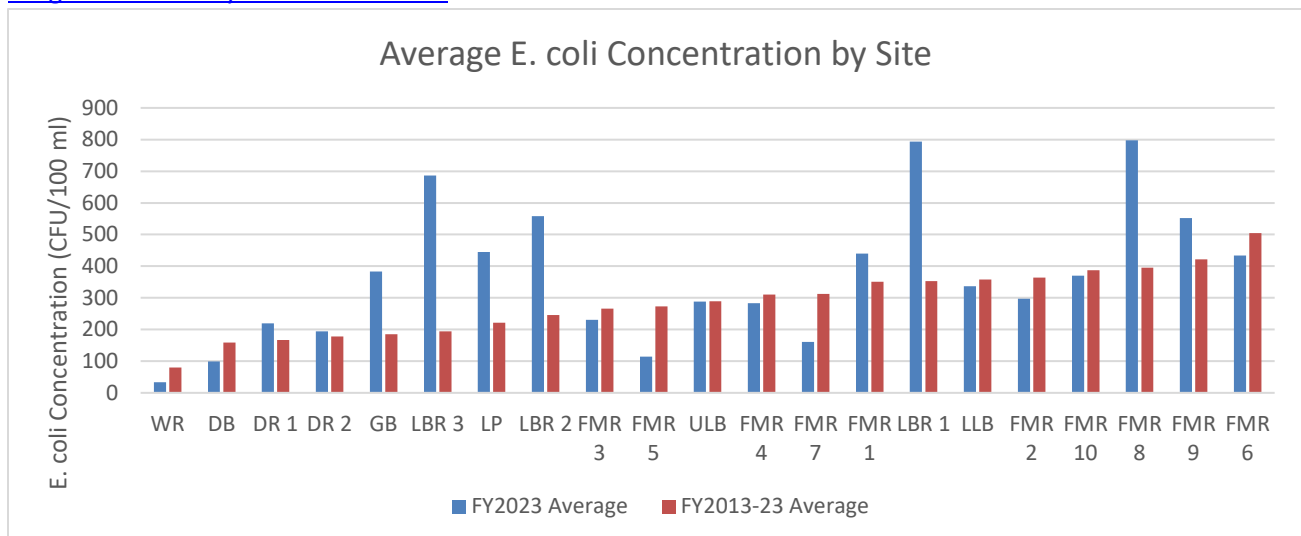


Figure 6: Average E. coli concentrations in colony-forming units per 100ml (CFU/100ml). Sorted by FY2013-23 average.

Site Location	Site	Unsafe to Swim (FY23)	Unsafe to Wade, Fish, Boat (FY23)	Unsafe to Swim (FY2013-23)	Unsafe to Wade, Fish, Boat (FY13-23)
Windy Run	WR 1	0%	0%	5%	1%
Donaldson Run upstream	DR 1	33%	0%	13%	2%
Lubber Run Park	LBR 3	33%	8%	19%	4%
Lubber Run at Woodlawn Park	LBR 2	18%	9%	20%	6%
Four Mile Run (Glencarlyn, upstream of dog park)	FMR 5	8%	0%	20%	7%
Donaldson Run downstream	DR 2	33%	0%	21%	2%
Doctor's Branch (Alcova Heights Park)	DB 1	17%	0%	23%	0%
Little Pimmit Run	LP 1	50%	8%	23%	3%
Gulf Branch	GB 1	40%	10%	24%	2%
Four Mile Run (S Arlington Mill Dr)	FMR 7	33%	0%	31%	8%
Four Mile Run (Bon Air Park)	FMR 3	17%	0%	33%	3%
Upper Long Branch (Glencarlyn Park)	ULB 1	55%	0%	36%	7%
Lubber Run at Woodlawn Park	LBR 1	100%	18%	36%	9%
Four Mile Run (Barcroft)	FMR 8	58%	8%	36%	9%
Four Mile Run (Bluemont Park/N Carlin Springs Rd)	FMR 4	33%	0%	37%	6%
Four Mile Run (Shirlington dog park)	FMR 9	58%	8%	38%	9%
Lower Long Branch (Troy Park)	LLB 1	55%	0%	42%	9%
Four Mile Run (N Sycamore St)	FMR 2	17%	8%	42%	8%
Four Mile Run at Mount Vernon Ave bridge	FMR 10	58%	0%	43%	9%
Four Mile Run (Banneker Park)	FMR 1	58%	0%	44%	6%
Four Mile Run (Glencarlyn, downstream of dog park)	FMR 6	45%	0%	53%	13%

Table 3: Frequency of E. coli water quality standard exceedances expressed as a percentage of monthly samples. Sorted by frequency of primary exceedances (FY2013-23).

Sewer Relining Data

Approximately 60 percent of Arlington County's 470 miles of sanitary sewer system was placed before the 1950s. For the last 25 years, the County has used cure-in-place pipe to reline sanitary sewer mains to prevent and repair cracks and leaks. Typically 2% of the sanitary pipes are relined each year. The work is prioritized based on video inspections of the pipes throughout the county, condition, area focus, and stream crossings.

Fiscal Year	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY20	FY 21	FY 22	FY 23	Total	Total Arlington County Sanitary Mains	Percentage of Sanitary Mains Relined FY14 - FY21
Linear Feet	61,003	62,379	56,074	74,647	76,095	93,883	106,575	98,830	74,936	87,841	792,293		
Miles	11.5	11.8	10.6	14.1	14.4	17.8	20.2	18.7	14.133	16.64	150	465 miles	33.25%

Table 4: Sanitary Sewer Relining Data

From FY14-23, approximately 150 miles of additional sewer main relining was completed, with 87,841 linear feet lined in FY23. County analysis shows that approximately 69.5% of county-maintained sanitary pipes have been relined to date. Based on our data, there does not appear to be a close relationship by site between relining and E. coli levels, although preventing sanitary sewer leaks is beneficial to reducing bacteria levels.

Long Term Trend Analysis

Bacteria data collected once per month is inherently variable. Collecting samples on the same day each month facilitates comparison between sites but may skew data if collection dates occur after heavy rainfall. Results to date do not show strong long-term trends (Figure 7).

DEQ also has monitoring locations within our watersheds. One monitoring site is in Arlington – 1APIM000.15 Pimmit Run. Two sites are in Alexandria – 1AFOU000.19 Potomac River embayment estuary sampling, and 1AFOU001.92 Four Mile Run. These sites are not co-located with existing Arlington monitoring sites, use a different testing method than Arlington County, and are not collected with the same regularity as Arlington data. DEQ’s sampling occurs less frequently (typically 3 to 6 samples per year per site). DEQ’s data are not collected within the same month year-to-year, or at the same time of the month from month-to-month. Due to the differences between the sampling programs, the DEQ data are not included with this trend analysis.

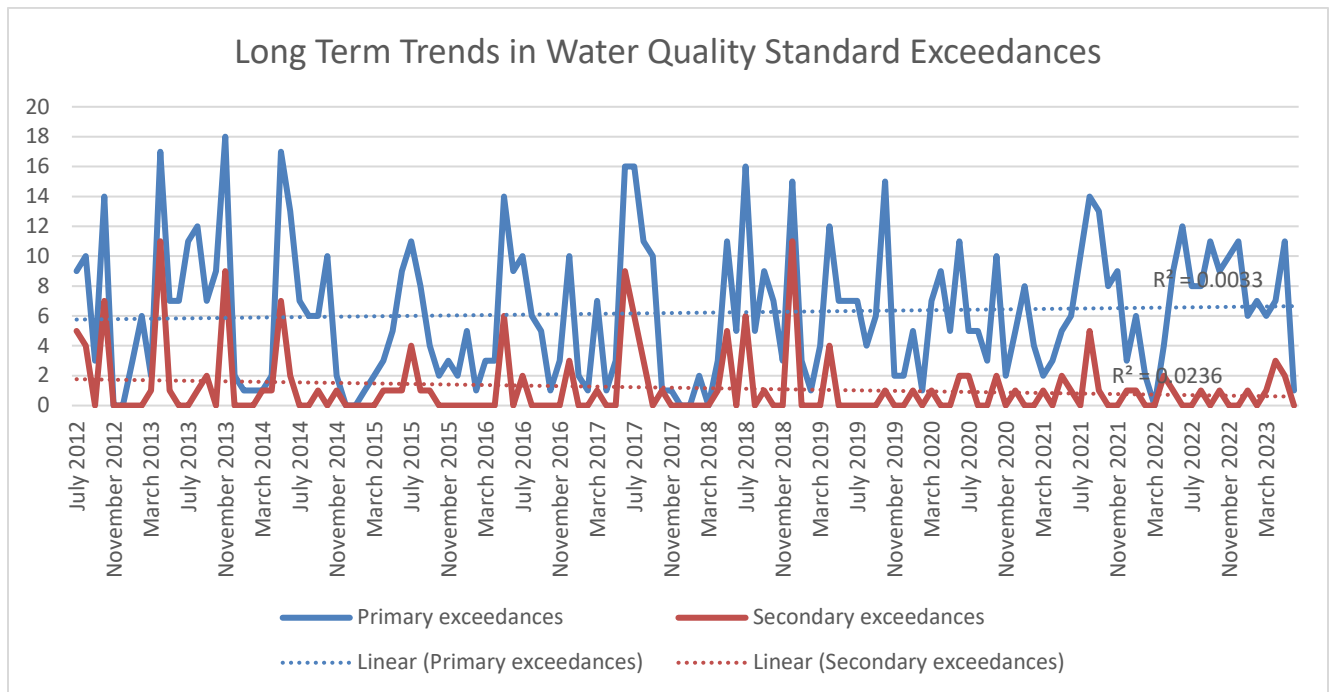


Figure 7: Monthly water quality standard exceedances of 21 sites, FY2013-23.

Summary

The bacteria monitoring program had 97% coverage of its sites in FY 2023. Of the 240 usable samples in FY23, 40% (95 samples) exceeded the primary contact recreation water quality standard (WQS) of 235 E. coli colony forming units per 100 ml (CFU/100 ml). The secondary contact recreation water quality standard of 1173 CFU/100 ml was exceeded in 4% (9) of the samples. These data support the County’s recommendations to the citizens to [restrict usage of the streams to secondary contact activities](#).

As in previous years, precipitation was correlated with E. coli levels and number of exceedances, along with seasonal patterns with lower levels in winter months. Potomac drainages had the lowest E. coli levels, followed by Four Mile Run tributaries, and Upper Four Mile Run. Lower Four Mile Run had the highest E. coli levels and most water quality standard exceedances overall.

It is not surprising that the Lower Four Mile Run stations see the highest E. coli levels and most exceedances. Four Mile Run drains roughly two thirds of Arlington and the watershed includes a larger area that includes portions of Falls Church, Fairfax County and Alexandria. Within Arlington’s borders, there are also three dog parks that are located immediately upstream of Four Mile Run stations FMR 2, FMR 6 and FMR 9.

Numerous factors play a role in the survivability of bacteria, including sunlight, temperature, soil and moisture conditions, and settling. Schueler (2000) shows that bacteria may not simply die off within a few days but instead may settle out of the water column and continue to thrive for variable periods of time in the bottom sediments of urban streams, catch basins, ditches and drains, curb sediments, moist soils, and leaf piles. According to U.S. EPA, harmful bacteria can survive in sediments for up to several months. It is possible that the relationship between bacteria levels during and following rain events may be partially the result of the resuspension of existing bacteria instead of the addition of bacteria.

Schueler goes on to say that “Researchers have occasionally correlated bacteria levels with factors such as rainfall, rainfall intensity, antecedent rainfall, turbidity and suspended solids within individual urban watersheds. Few of these relationships, however, appear to be transferable from one watershed to another.” It was further noted in the article that impervious cover does not appear to have a direct relation to fecal coliform levels.

Studies that only quantify *E. coli* do not indicate the source of the bacteria and if it is considered a controllable, anthropogenic (human or dog) source. Hybridized *E. coli* found in the storm sewer network and *E. coli* from wildlife, while contributing to the quantity of *E. coli*, are not considered controllable sources and are not the focus of the efforts detailed in TMDL Action Plans.

As Arlington’s monitoring program continues to mature, we anticipate ongoing variability in further study of this indicator organism, but hope that our implementation of green infrastructure, street sweeping, sewer relining, and other pollution-reducing practices will keep *E. coli* bacteria levels in check.

References:

Schueler, T. 2000. *Microbes in Urban Watersheds: Concentrations, Sources, & Pathways: The Practice of Watershed Protection*. Center for Watershed Protection, Ellicott City, MD. Pages 74-84

U.S. Environmental Protection Agency. 2001. *Protocol for Developing Pathogen TMDLs*. EPA 841-R-00-002. Office of Water (4503F), United States Environmental Protection Agency, Washington, DC. 132 pp.

Appendix AR19: FY23 Summary Biological Monitoring Program

Arlington’s macroinvertebrate monitoring program is executed by volunteers at nine monitoring locations around the County, plus one reference site in Clifton (see Table 1).

- The program is **permitted** through the Virginia Department of Game and Inland Fisheries (DGIF).
- **Macroinvertebrate data** are provided to DGIF and posted to the Arlington MS4 permit page on an annual basis at <https://environment.arlingtonva.us/stormwater-watersheds/ms4-permit/>.
- **Monitoring protocol** is based on EPA’s Rapid Bioassessment Protocol 2. Posted on: <http://environment.arlingtonva.us/news-macroinvertebrate-monitors/>
- Sites are monitored in the spring, summer and fall, during the same five-week period each year.
- Monitors collect macroinvertebrates, pH, and temperature. Photographs of the monitoring reaches are taken to assess habitat. (<https://www.flickr.com/photos/arlmonitoring/>)

Macroinvertebrate Sampling Stations
Donaldson Run at Zachary Taylor Park
Windy Run
Gulf Branch
Little Pimmit Run
Four Mile Run at Benjamin Banneker Park
Four Mile Run at Bluemont Park
Lubber Run
Upper Long Branch at Glencarlyn Park
Four Mile Run at Barcroft Park
Margaret’s Creek, Reference Site at Webb Nature Sanctuary, Clifton, VA

Table 1. Summary of macroinvertebrate monitoring stations

FY23 Sampling

The Arlington [protocol](#) requires that site teams collect 100 (+/- 10%) organisms three times a year. In FY2023, all 10 sites were monitored in the summer, fall, and spring. All monitoring reached the collection requirement.

Stream Monitor Training

Staff continue to recruit new volunteers and offer volunteer training opportunities. An Access database tracks volunteers, trainings and hours. Volunteer training opportunities and descriptions are included in Table 2.

<i>Introduction to Stream Monitoring.</i> Gain an understanding of Arlington’s program and macroinvertebrates found in Arlington streams. This training is required for program participation.
<i>Online Identification Training.</i> Review key characteristics needed for positive streamside identification of Arlington macroinvertebrates to the order and family level. Macroinvertebrate orders included: Ephemeroptera, Trichoptera, Diptera, Odonata, Hirudinea, Oligochaeta, Tricladida, Isopoda, and Amphipoda.
<i>Open Lab.</i> Improve observation and identification skills of common macroinvertebrates of Arlington streams using preserved samples. Improve familiarity with macroinvertebrate body parts important for identification using microscopes and preserved samples.
<i>Arlington Macroinvertebrate Communities.</i> Online Training. Arlington macroinvertebrate taxonomy to the order and family level with both common and scientific names. Life cycles, adult stage, and tolerance values.
<i>Master Identifier Certification Test.</i> Master Identifiers (MIs) take this test to certify their mastery of the material. It is open book, with preserved bugs identified using hand lenses and microscopes. MIs are the primary identifiers streamside and record data for the program.
<i>Team Leader and Master Identifier Training.</i> On an annual basis, team leaders and master identifiers come together prior to the start of the spring season to review the protocol and key identification challenges. Other monitors may also attend, especially long-term and experienced monitors.

Table 2: Volunteer Training Opportunities and Descriptions

Results and Analysis

Arlington uses several metrics to evaluate macroinvertebrate populations based on monitor-collected data. Family Biotic Index measures sensitivity and tolerance to stressors such as water quality, stream flashiness, or poor habitat. Average number of taxa (ANT) and effective number of taxa (ENT) are measures of diversity or richness. The dominant taxa are also recorded.

The Arlington program and results were evaluated and corroborated by contracted professionals in 2011/2012, 2015, and 2019, and several improvements and metrics were incorporated. Due to monitoring protocol updates implemented beginning FY2014, previously collected data are not comparable.

Family Biotic Index: Tolerance Values

The **Family Biotic Index** is a measure of the pollution tolerance of the macroinvertebrates found. The values range from 0 (Excellent) to 10 (Very Poor). Lower values indicate a less pollution-tolerant (or more sensitive) macroinvertebrate community. See Figure 1 and Table 3.

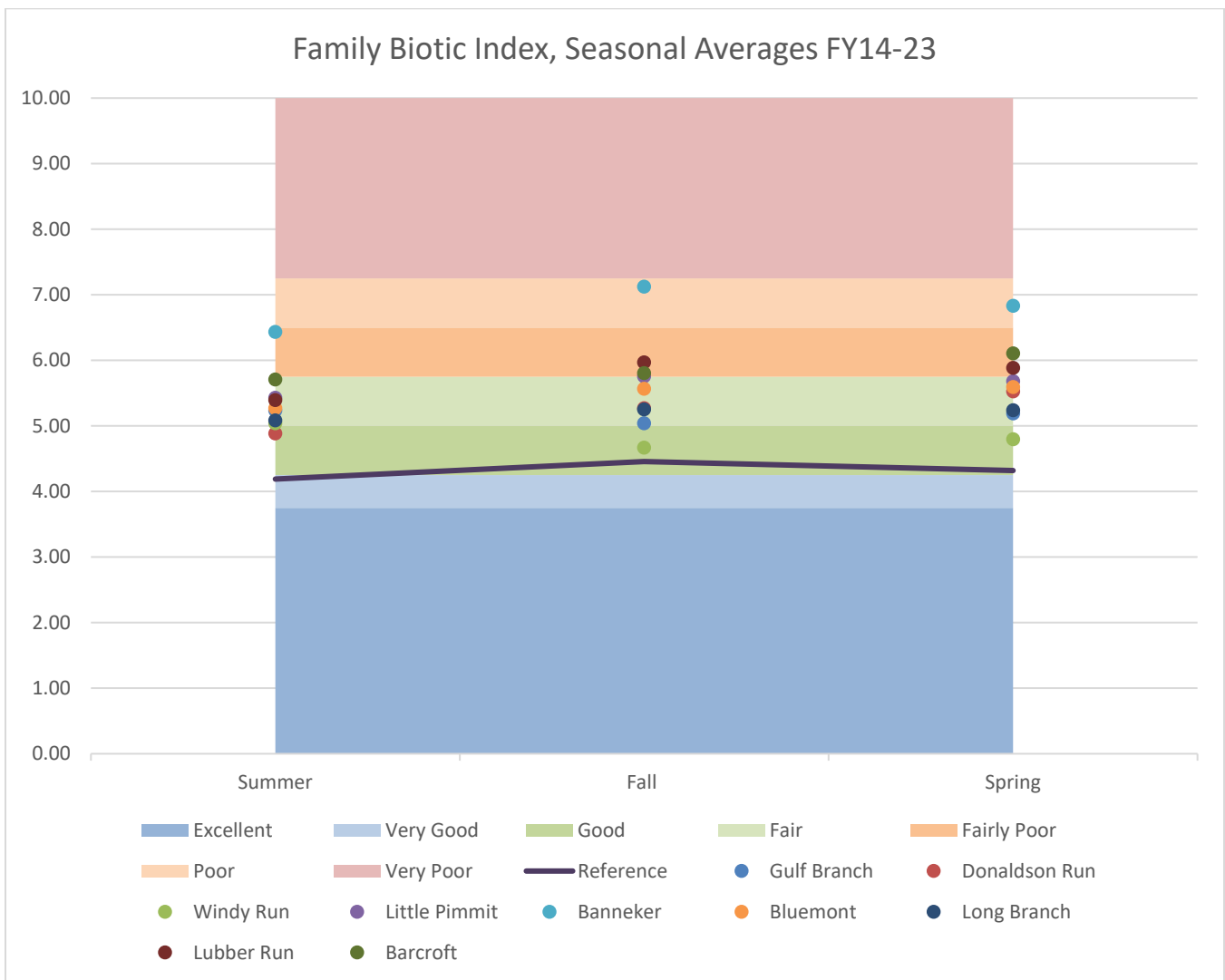


Figure 1: Seasonal average Family Biotic Index Values. Arlington site average seasonal values are plotted as points. Reference site average seasonal values are represented by the solid line. Family Biotic Index* ranges are also depicted. * Hilsenhoff, William L. 1988. Rapid Field Assessment of Organic Pollution with a Family-Level Biotic Index. Journal of the North American Benthological Society, Vol. 7, No. 1, pp. 65-68.

Site	Summer FY23	Summer FY14-23	Fall FY23	Fall FY14-23	Spring FY23	Spring FY14-23
Windy Run	4.53	5.04	4.82	4.67	5.88	4.80
Donaldson Run	4.98	4.89	5.28	5.27	4.87	5.53
Gulf Branch	4.95	5.23	6.16	5.04	5.50	5.19
Upper Long Branch	5.08	5.09	4.29	5.25	5.90	5.24
Barcroft-Four Mile Run	5.42	5.71	5.46	5.81	7.44	6.11
Bluement-Four Mile Run	6.04	5.27	6.26	5.57	5.92	5.59
Lubber Run	6.21	5.40	6.19	5.97	5.95	5.88
Little Pimmit Run	6.70	5.43	6.39	5.76	6.63	5.68
Banneker-Four Mile Run	7.28	6.44	7.46	7.13	7.83	6.83
Reference	3.81	4.19	4.10	4.46	4.20	4.32

Table 3: Family Biotic Index FY23 and FY14-23 average values. FY2023 values were similar to FY14-23 averages.

- FY2023 results were similar to FY14-23 averages. The hot, dry summer and fall impacted some values.
- Windy Run tends to have the lowest pollution tolerance values, often ranking in the “good” range.
- At the **reference** site, summer and spring tolerance values tend to be slightly lower than the fall.
- Among **Arlington** sites, spring tends to show more clustered tolerance values, with greater variation in summer and fall. Differences by season and between most Arlington sites tend to be small.
- For those groups that cannot be reliably identified down to the family-level stream-side (Amphipoda, Hirudinea, Oligochaeta, Tricladida), an average of the family tolerance values is used for that order.

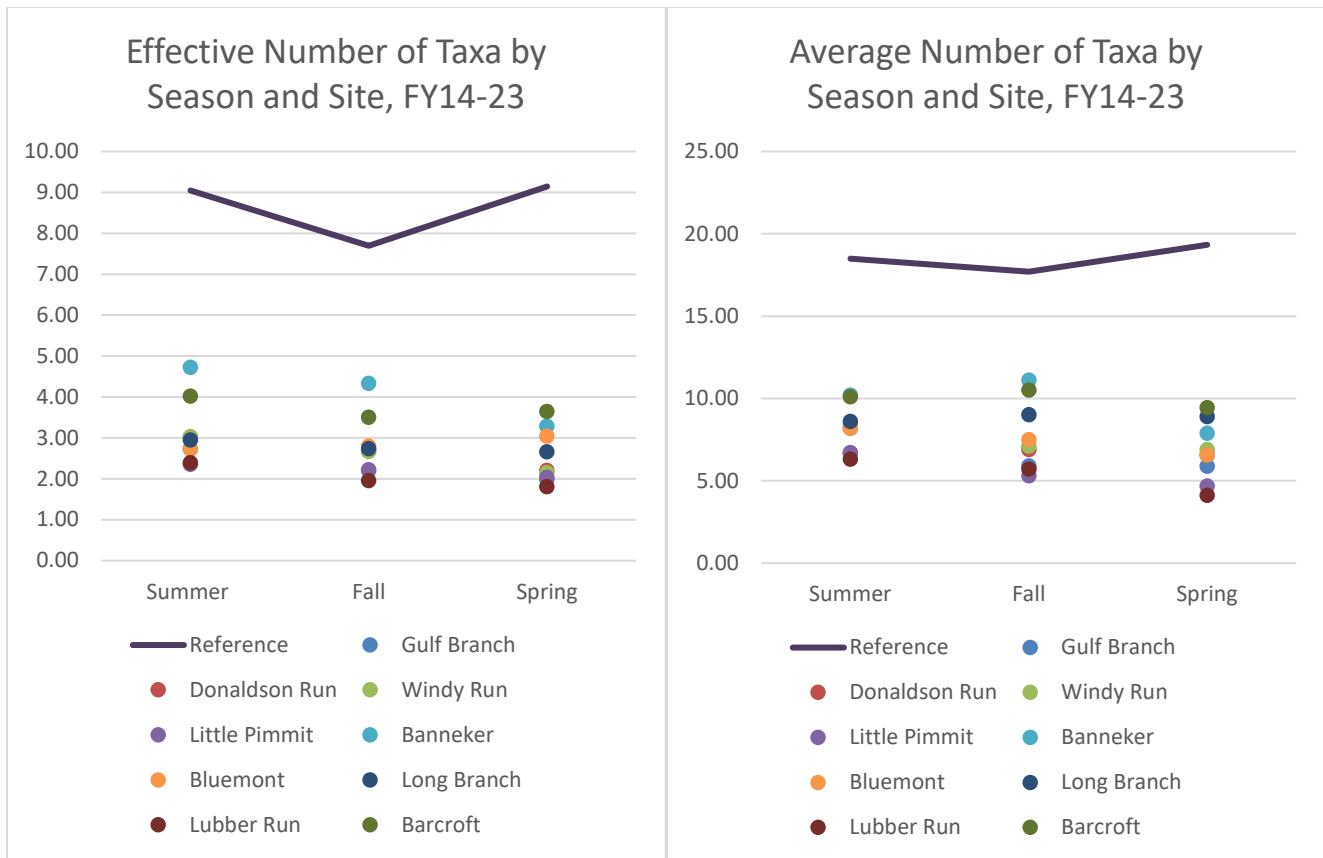
Average Number of Taxa (ANT) and Effective Number of Taxa (ENT)

Two metrics gage the biodiversity or taxa richness of the macroinvertebrate community. **Average Number of Taxa (ANT)** is based on the number of distinct macroinvertebrate families found at each monitoring. **Effective Number of Taxa (ENT)** also incorporates the abundance of each family-level taxa, based on the Gini-Simpson Index of Diversity. Higher values reflect more taxa richness and a more biodiverse sample. Neither metric provides information on pollution tolerance. See Table 4 and Figures 2 and 3.

- Overall, FY2023 values were similar to FY14-23 averages.
- Four Mile Run sites tend to have the most taxa richness in Arlington, especially Banneker and Barcroft.
- Sites with more taxa richness also tend to have more pollution tolerance in Arlington.
- Seasonal variability may be due to benthic life cycles and season-specific influences and stressors.

	Average Number of Taxa						Effective Number of Taxa					
	Summer FY23	Summer FY14-23	Fall FY23	Fall FY14-23	Spring FY23	Spring FY14-23	Summer FY23	Summer FY14-23	Fall FY23	Fall FY14-23	Spring FY23	Spring FY14-23
Gulf Branch	7	6.70	4	5.90	6	5.89	1.91	2.73	2.42	2.20	2.96	1.99
Donaldson Run	11	8.20	6	6.90	6	6.56	4.03	3.01	4.29	2.67	2.24	2.20
Windy Run	6	8.30	6	7.10	8	6.89	2.18	3.02	3.18	2.67	3.31	2.15
Little Pimmit Run	5	6.70	7	5.30	4	4.67	3.18	2.35	2.19	2.22	2.89	2.03
Banneker	9	10.20	12	11.10	6	7.89	5.98	4.72	4.46	4.33	4.08	3.29
Bluement	8	8.20	7	7.50	7	6.56	3.84	2.73	2.83	2.80	3.43	3.04
Long Branch	7	8.60	8	9.00	11	8.89	2.95	2.94	1.23	2.74	5.07	2.66
Lubber Run	4	6.30	6	5.70	5	4.11	2.53	2.39	2.30	1.95	2.44	1.81
Barcroft	9	10.10	12	10.50	10	9.44	4.76	4.02	5.20	3.50	6.91	3.64
Reference	23	18.50	20	17.70	23	19.33	7.05	9.04	7.08	7.70	12.44	9.14

Table 4: FY23 and FY14-23 Average Number of Taxa and Effective Number of Taxa by stream site.



Figures 2 and 3: Effective and Average Number of Taxa by Season and Site. Reference site values are represented by the solid line. Arlington sites' values are plotted as points.

Dominant Taxa

The dominant taxon has the greatest abundance (largest number of individuals) out of the total sample. Lower percentages of dominance indicate a more diverse community.

- Baetidae (small minnow mayfly) is the most commonly dominant taxon in Arlington streams. From FY14-23, it was dominant in 52% of the Arlington samples.
 - The Baetid lifecycle is short, has several generations per year, and they can emerge in large populations. It is particularly dominant in wet summer and fall seasons. Tolerance value 4.
- Chironomidae (midge) is the second most commonly dominant taxon. From FY14-23, it was dominant at 25% of the Arlington sampling sessions.
 - It is particularly dominant in the spring. Even when it is not the most dominant taxon in a spring sampling, it is often a close second. Tolerance value 6.
- Hydropsychidae (netspinner caddisfly) has the third most instances of dominance. From FY14-23, it was dominant at 8% of the Arlington sampling sessions.
 - It is particularly dominant in the fall. Tolerance value 6.
- The life cycles and seasonality of these three dominant taxa are connected to the seasonal variation in Family Biotic Index and taxa richness at most Arlington sites.
- Banneker is less dominated by Baetidae and Hydropsychidae. Results show more dominance from Gastropoda (snails) and Coenagrionidae (Narrowing damselfly). Barcroft also has had instances of Gastropod and Coenagrionid dominance.
- See Table 5 for more detail.

	Baetidae	Chironomidae	Hydro- psychidae	Tricladida	Gastropoda	Coen- agrionidae	Philo- potamidae	Simuliidae
Gulf Branch	19	4	4	2	0	0	0	1
Donaldson Run	14	8	7	0	0	0	0	0
Windy Run	14	7	1	3	0	0	3	0
Little Pimmit	12	9	0	6	0	0	0	2
Banneker	3	16	2	0	5	4	0	0
Bluemont	18	3	5	3	0	0	0	0
Long Branch	26	1	1	1	0	0	0	0
Lubber Run	12	11	1	5	0	0	0	0
Barcroft	19	7	1	0	1	1	0	0
Reference*	4	4	12	0	0	0	0	0

*Table 5: Instances of taxa dominance by site, FY14-2023. *Note that the reference site has also had instances of dominance of Ptilodactylidae (3), Leuctridae (2), Amphipoda (2) and others as single instances.*

Habitat Assessments

Habitat assessments were conducted by a contracted professional in 2011-12, 2015 and 2019 based on EPA’s Rapid Bioassessment Protocol 2. Results for the spring and fall 2015 and 2019 seasons varied between sites and seasons, with ratings falling in the optimal to sub-optimal ranges (Figure 4). The habitat assessment confirmed that adequate habitat is available at each of our monitoring locations for macroinvertebrate communities.

Of the Arlington sites, Windy Run has typically had the most sensitive Family Biotic Index ratings and the highest habitat survey scores. In 2015 and 2019 surveys, it was found to have a wide vegetated riparian area, minimal channelization, frequent riffles, and good vegetative protection on the banks.

Habitat scores at Barcroft and Donaldson Run have appeared to decline, including from spring to fall 2019, during which Arlington experienced a historic storm on July 8, 2019. It should also be noted that Donaldson Run Tributary B, which discharges directly into the Donaldson Run sampling reach, had active severe stream bank erosion for many years. A stream restoration project was completed in 2022 that will help prevent further sediment deposition.

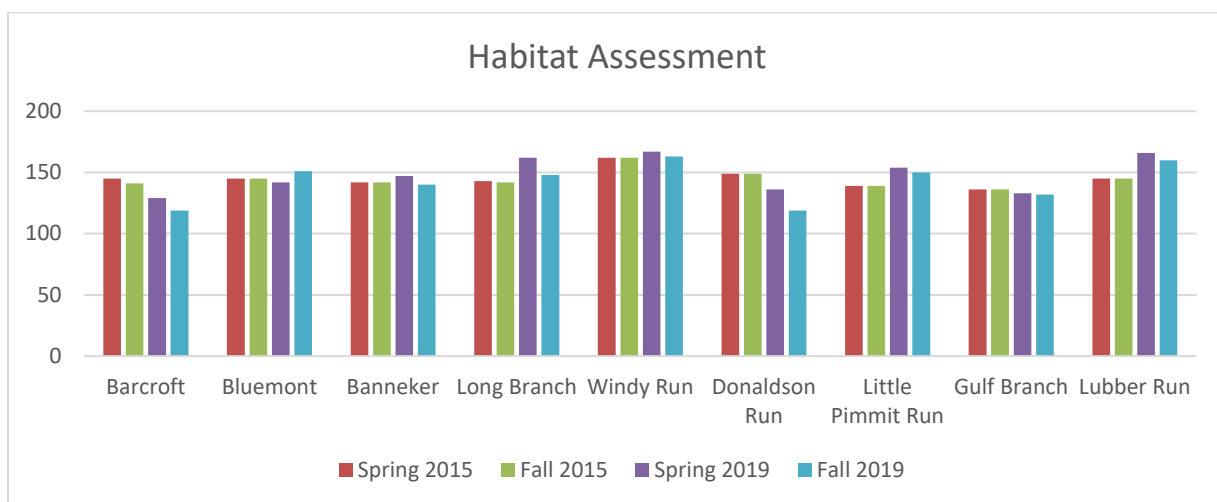
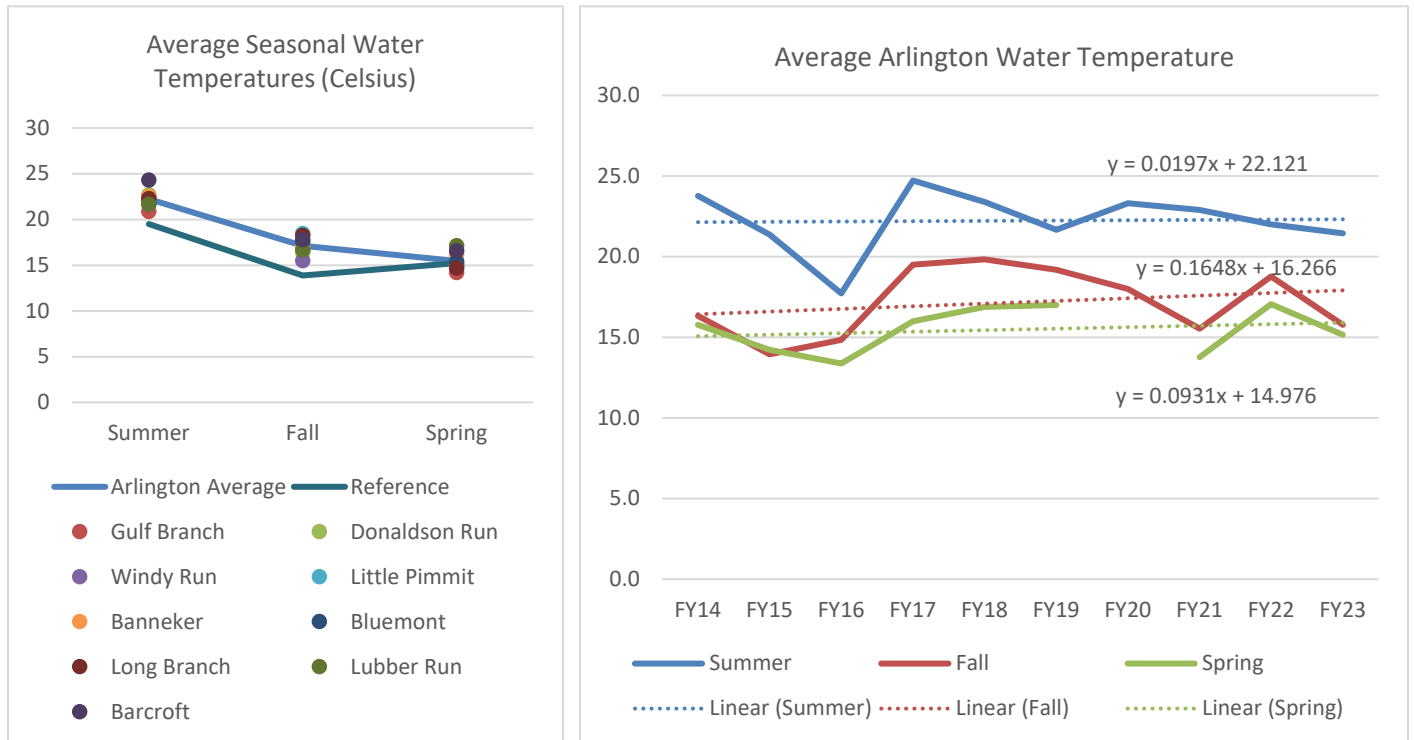


Figure 4: Habitat assessment scores

Water Temperature and pH

Volunteers also collect water temperature and pH at stream monitoring events, shown in Figures 5-7. Any unusual chemical test values are reported to the program coordinator for follow-up.



Figures 5 and 6: Water temperatures by site, season and over time

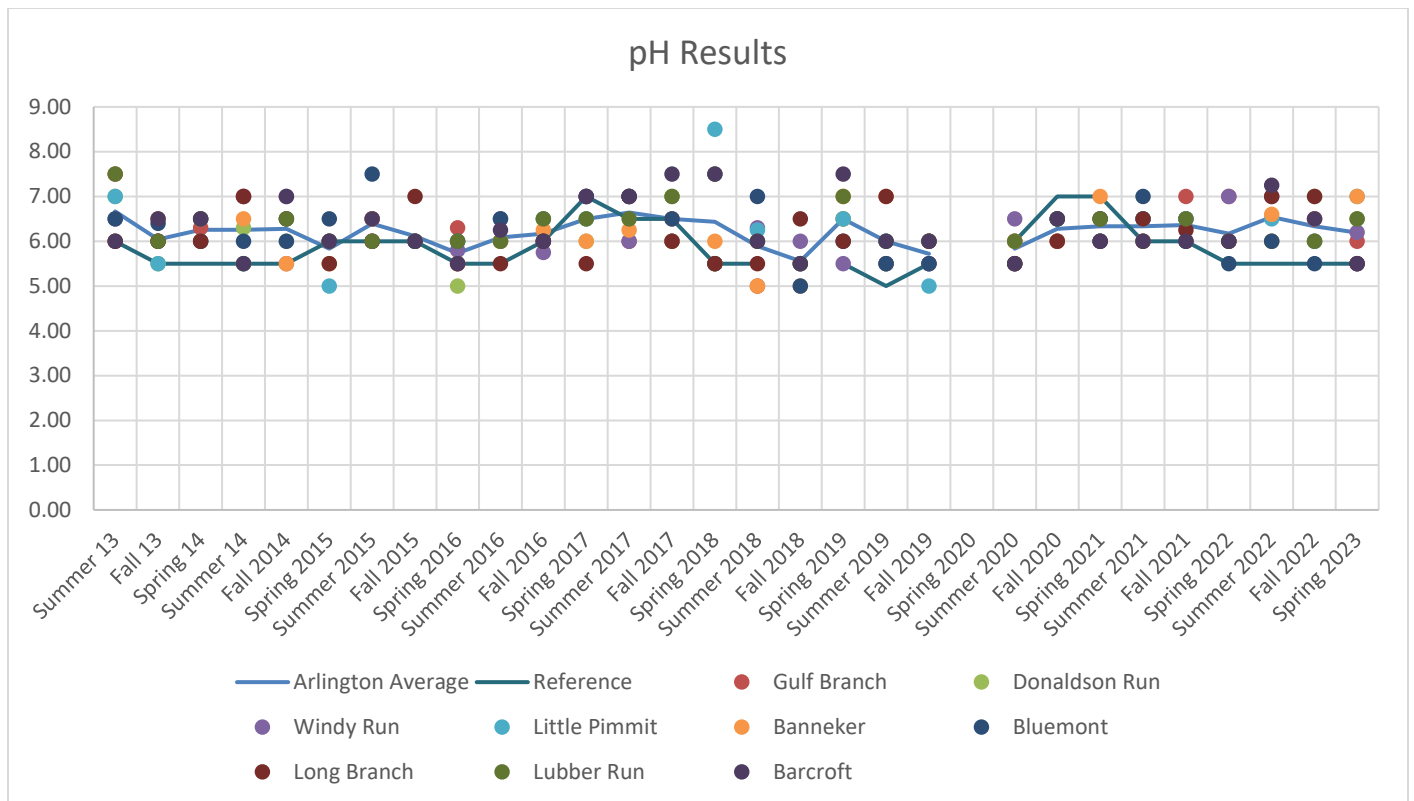


Figure 7: pH Results

Potential Trends

We continue to work to establish baseline data for macroinvertebrate monitoring sites, given the inherent variability and uncertainty of macroinvertebrate data. While long term trends are not available, seasonal patterns or other shorter-scale changes in metrics have been observed. It should be noted that statistical analysis has not been conducted to determine significance.

In the spring season, which typically runs from late April through May and is often dominated by Chironomidae, Arlington sites showed the highest tolerance and lowest taxa richness. The reference site, on the other hand, saw no such pattern. Arlington’s seasonal results may be impacted by the road treatments for winter frozen precipitation events (Table 6). It seems likely that the road treatments would impact our macroinvertebrate communities in combination with other urban stressors.

Winter	Number of Winter Weather Events	Number of Snow Operation Days	Date Range of Winter Weather
FY 2014	18	27	12/8/2013 – 03/25/2014
FY 2015	14	25	11/26/2014 – 03/07/2015
FY 2016	9	20	01/12/2016 – 03/19/2016
FY 2017	10	14	12/6/2016 – 3/15/2017
FY 2018	15	20	12/9/2017 – 3/21/2018
FY 2019	11	20	11/15/2018 – 3/4/2019
FY 2020	4	5	12/10/2019 – 01/17/2020
FY 2021	10	17	12/15/2020 – 2/22/2021
FY 2022	9	20	01/03/2022 – 03/12/2022
FY 2023	3	3	12/15/2022 – 02/01/2023

Table 6. Winter weather dates for Arlington County operations. Does not include VDOT information.

Weather, historic storms, illicit discharges and other disturbance have also impacted macroinvertebrates. In the weeks following an illicit discharge or other event, monitors may have difficulty reaching the required number of organisms. In subsequent seasons, streams appear to recover to the previously observed patterns.

Site	Drainage Area (mi ²)	% Impervious
Donaldson Run	0.37	28%
Windy Run	0.45	38%
Gulf Branch	0.66	30%
Long Branch	1.27	42%
Banneker	1.34	31%
Lubber Run	1.44	49%
Little Pimmit Run	1.48	37%
Bluemont	4.37	36%
Barcroft	10.75	41%

Table 7: Drainage Area, Percent Impervious

We also expect Arlington streams to be impacted by their urban watersheds. Many of Arlington’s original stream segments have been enclosed in pipes. Arlington has an overall impervious cover of 42%. The watershed imperviousness for our monitoring sites ranges from 28% to 49%. Sites with smaller drainage areas and lower imperviousness often see a more sensitive Family Biotic Index (Table 7).

Overall, high-impervious watersheds, “flashy” streams, and episodic nonpoint source pollution are likely key sources of stress in Arlington streams. The macroinvertebrate monitoring program data and analysis provide a window into Arlington stream communities’ resilience and help inform stormwater programs.

Appendix AR20 – FY23 Summary Floatables Monitoring

A summary of results for monitoring at three sampling sites, section of Four Mile Run in Barcroft Park, section of Four Mile Run by Arlington Mill, and a section of Four Mile Run by Shirlington Park, in FY23 is shown below.

Stream Cleanup Report - FY2023																	
Number of Trash Pieces by Category in a 100-Foot Section of Stream																	
Location	Date	Cigarette Butts	Metal Cans	Glass Bottles	Glass Pieces	Plastic Bags	Plastic Container/Bottles	Plastic Pieces	Styrofoam Containers	Styrofoam Pieces	Cloth or Clothing	Tires	Balls	Plastic straps	Wrappers	Other*	Total Pieces
Barcroft Park	09/17/2022	49	100	17	187	111	112	131	17	4	18	2	8	3	107	132	998
Arlington Mill	03/21/2023	19	3	4	210	12	10	52	4	33	9	1	0	2	19	32	410
Shirlington Park	03/19/2023	20	10	1	15	71	92	101	25	110	7	2	9	3	53	101	620
Total		88	113	22	412	194	214	284	46	147	34	5	17	8	179	265	2,028
Percentage		4.34%	5.57%	1.08%	20.32%	9.57%	10.55%	14.00%	2.27%	7.25%	1.68%	0.25%	0.84%	0.39%	8.83%	13.07%	100.00%

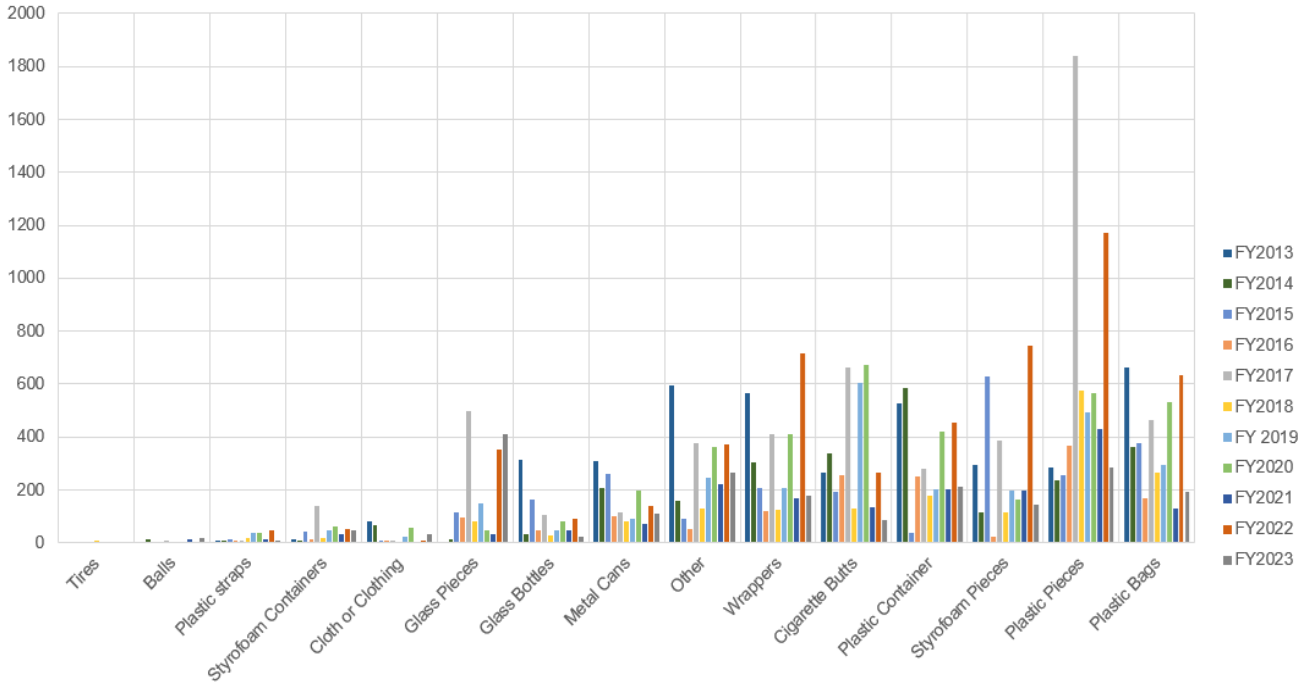
Additional types of trash collected not listed above include face masks, rubber gloves, wipes, condoms, construction materials, straws, bottle caps, wiring, personal care products, fishing gear, dog toys, cardboard, lids, paper, and a bike.

Data for FY13 through FY23 are provided in the table and graphs below. Fewer pieces of trash (<50%) were observed and collected in FY23 compared to FY22. Overall, plastic pieces, plastic bags, cigarette butts, plastic containers, and wrappers continue to be the primary category of trash observed and collected. These categories represent more than 60 percent of the total pieces collected from FY13 through FY23, with plastic pieces compromising the largest percentage of trash (see pie chart below). The data continue to be quite variable from year to year as shown in the table and chart below. Sampling variation by volunteers and rainfall prior to sampling also likely affect the results.

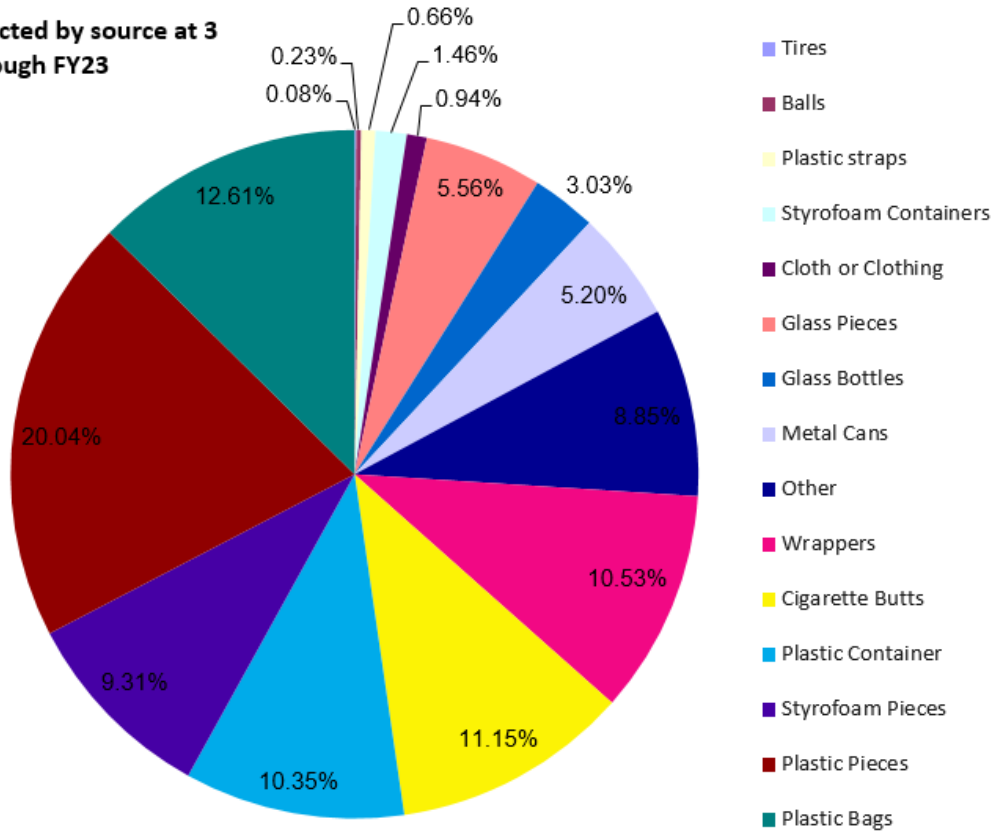
Types and number of pieces of trash collected from FY13 through FY23.

	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total Pieces	Percentage
Tires	2	0	1	1	1	10	1	1	2	2	5	26	0.08%
Balls	6	14	6	0	10	0	6	0	14	3	17	76	0.23%
Plastic straps	10	7	16	8	10	18	36	39	16	47	8	215	0.66%
Styrofoam Containers	15	8	43	14	141	19	46	60	31	52	46	475	1.46%
Cloth or Clothing	80	69	10	10	7	1	24	59	3	7	34	304	0.94%
Glass Pieces	6	15	115	97	496	84	148	47	33	351	412	1,804	5.56%
Glass Bottles	314	32	163	50	106	26	50	82	48	89	22	982	3.03%
Metal Cans	308	206	259	99	116	84	92	196	72	142	113	1,687	5.20%
Other	595	159	89	53	376	132	248	364	220	370	265	2,871	8.85%
Wrappers	567	303	208	121	413	123	209	412	168	714	179	3,417	10.53%
Cigarette Butts	267	339	195	257	661	132	605	674	135	264	88	3,617	11.15%
Plastic Container	529	584	39	249	280	177	201	423	205	457	214	3,358	10.35%
Styrofoam Pieces	297	118	627	24	385	115	199	164	199	746	147	3,021	9.31%
Plastic Pieces	284	236	258	369	1,839	575	494	566	429	1,169	284	6,503	20.04%
Plastic Bags	664	363	379	168	462	267	296	531	132	636	194	4,092	12.61%
Total Pieces	3,944	2,453	2,408	1,520	5,303	1,763	2,655	3,618	1,707	5,049	2,028	32,448	100.00%

Floatables Data FY13 to FY23

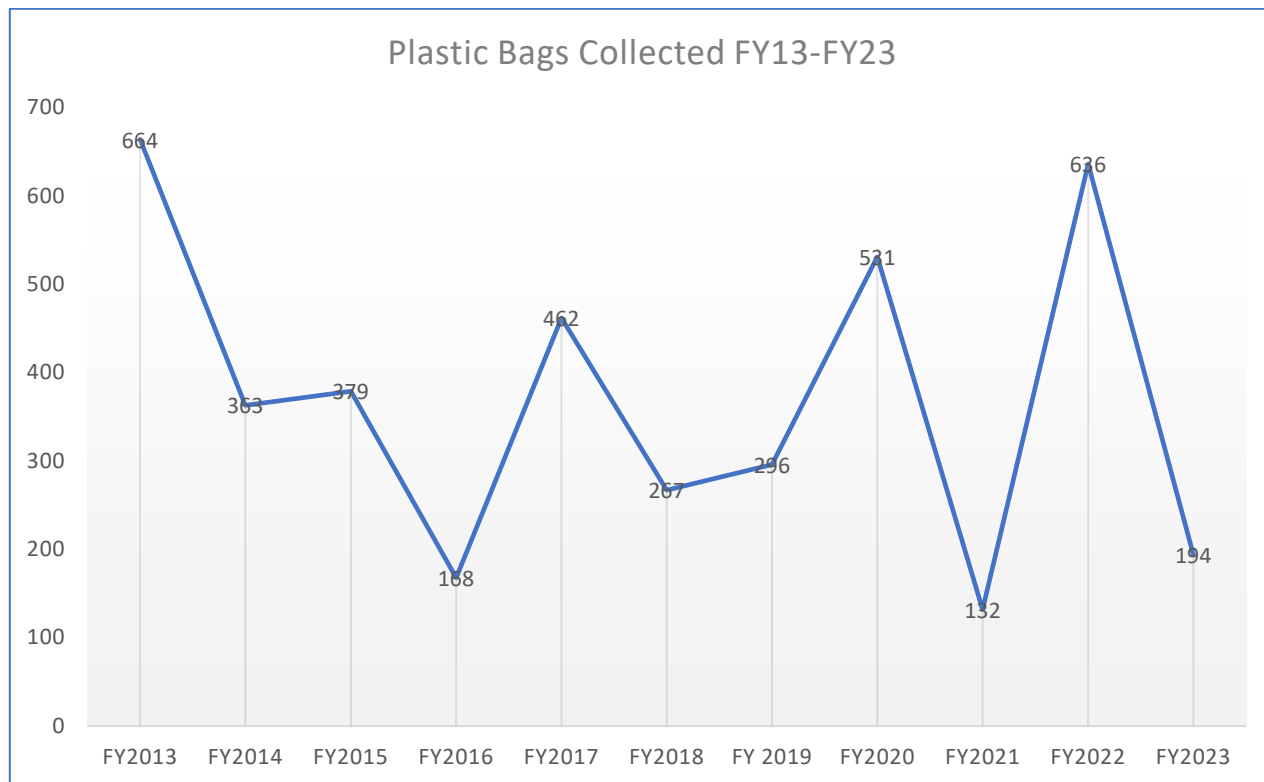


Floatables collected by source at 3 sites , FY13 through FY23



There is an encouraging potential downward trend with plastic bags. Far fewer plastic bags were observed and collected in FY23. This was the least number of bags collected apart from FY16 and FY21.

The reduction in the number of plastic bags may be related to the plastic bag tax the Virginia General Assembly adopted in 2020 (Virginia Code [58.1-1745](#)), which authorized any county or city in Virginia to impose a tax of five cents per bag on disposable plastic bags provided to customers by convenience stores, drugstores, and grocery stores. The Virginia Department of Tax Administration published [final Guidelines for the Virginia Disposable Plastic Bag Tax](#) on September 1, 2021. Arlington County adopted a plastic bag tax ordinance on September 18, 2021. The tax became effective January 1, 2022.



In FY23, floatables found during dry weather and wet weather screening were similar to those found during sampling and clean-up events. Floatables observed during these screenings included aluminum cans, plastic bottles, cigarette ends, plastic bags, plastic wrappers associated with food packaging, pieces of plastic, paper, foil, and polystyrene, and organic materials. There was no significant change between type and quantity of materials collected in FY23 versus samples obtained during FY22 screening efforts.

The County has strong overall litter and recycling programs that aim to reduce floatables at their source, including [public and private refuse and recycling](#) collection efforts, along with street sweeping in commercial areas, catch basin cleaning, stormwater retrofits, pollution prevention training, public education and outreach, storm drain marking, and other measures. The County continues to assess these programs and looks for opportunities to expand existing actions and controls.

The County's Solid Waste Bureau oversees the Solid Waste Management Plan, which serves as the road map for recycling waste reduction activities in the County. The County promotes ways to [reduce waste](#) at businesses. The County requires commercial and multi-family dwellings to have [trash and recycling](#) plans. Properties are inspected on an annual basis to identify issues and educate people.

The County has a number of programs and facilities for residents to use to recycle or dispose of trash. [Recycling drop off sites](#) (cardboard, glass) are available on the north and south sides of the County. Trash and recycling receptacles are situated around County facilities and parks. Residents can [schedule pick up](#) services for brush, metal and appliances, and electronics. The County also offers drop services for food waste and other household appliances, scrap metal, and electronics.

Annual inspections of outdoor areas at commercial and municipal facilities can also identify areas where trash and litter may be a problem. Staff work with respective property manager and owners when necessary to address issues such as litter, overflowing trash cans, and lack of waste receptacles.

Based on the data collected in FY23, it appears the County's pollution prevention efforts may be proving to be effective at reducing floatables, particularly with regard to the reduction in the number of plastic bags observed and collected during the sampling event.

Both the resident and daytime population of Arlington have been growing substantially over the past several years, and trash generation and littering is an indicator of the impacts of these population increases. Human behavior is difficult to control. Keeping pace with these increases and their impacts and the resources needed will continue to be challenging in the years to come.

AC Replacements																											
BMP ID	Date Installed	NRCS Code	Clearinghouse BMP	BMP Name	Measurement Name	Measurement Unit	BMP Extent	Impervious Acres Treated	Outside MS4 service areaff Treated (Acres-Feet)	Practice Description	Locality	Locality FIPS	ToLocality	HUC12	VAHU6	Latitude	Longitude	Existing Land Use	MS4 Service Area	Ownership Type	Maintenance Agreement	Action Plan	Facility Name	Contact Name	Agency Name	Replaced	
18-0260A	07/12/22		BVR2	Green Roofs	Area Treated	ACRE	0.15	0.15	0.01375	VEGETATED ROOF #2	ARLINGTON				PL24	38.85871	-77.04981		Inside MS4 se	Private	Yes	Both		Jason Papacosma	Arlington County	VADEQ-2021-00489805	
18-0260B	07/12/22		BVR2	Green Roofs	Area Treated	ACRE	0.08	0.08	0.007333333	VEGETATED ROOF #2	ARLINGTON				PL24	38.85895	-77.04983		Inside MS4 se	Private	Yes	Both		Jason Papacosma	Arlington County	VADEQ-2021-00489804	
18-0260C	07/12/22		BVR2	Green Roofs	Area Treated	ACRE	0.12	0.12	0.011	VEGETATED ROOF #2	ARLINGTON				PL24	38.85869	-77.04949		Inside MS4 se	Private	Yes	Both		Jason Papacosma	Arlington County	VADEQ-2021-00489803	
18-0260D	07/12/22		BVR2	Green Roofs	Area Treated	ACRE	0.09	0.09	0.00825	VEGETATED ROOF #2	ARLINGTON				PL24	38.85960	-77.04944		Inside MS4 se	Private	Yes	Both		Jason Papacosma	Arlington County	VADEQ-2021-00489802	
18-0231I	07/12/22		BB1	Bioretention	Area Treated	ACRE	0.87	0.7	0.0725	BIORETENTION #1	ARLINGTON				PL25	38.88938	-77.15972		Inside MS4 se	Private	Yes	Both		Jason Papacosma	Arlington County	In-Series only facility submitted.	
12-1322B	9/14/18		BPP1	Permeable Pa	Permeable Pav	ACRE	0.21	0.21	0.01	Porous Concrete	ARLINGTON				PL25	38.88074	-77.13266		Inside MS4 se	Private	Yes	Both		Jason Papacosma	Arlington County	VADEQ-2019-00246563	
In series calculations for 18-0231I																											
Facility ID	Total drain	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Retrofit st	Retrofit st	Runoff depth	TP	TN	TSS	TP	TN	TSS	Replaced					
18-0231A	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489801				
18-0231B	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489800				
18-0231C	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489799				
18-0231D	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489798				
18-0231E	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489797				
18-0231F	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489796				
18-0231G	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489795				
18-0231H	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489794				
18-0231I	BIORETENTION #1	Yes	0.01	0.01	0.0162	0.1686	11.7132	0	0	0	0	0.0162	0.1686	11.7132		1	0.55	0.64	0.75	0.00891	0.107904	8.7849	VADEQ-2022-00489793				
18-0231J	BIORETENTION #1	Yes	0.56	0.39	0.6318	6.5754	456.8148	0.17	0.0697	1.7119	29.886	0.7015	8.2873	486.7008		1	0.55	0.64	0.75	0.385825	5.303872	365.0256	VADEQ-2022-00489792				
18-0231K	MANUFACTURED BMP	Yes	0.22	0.22	0.3564	3.7092	257.6904	0	0	0.737685	7.238892	405.7203				1	0.45	0	0	0.33195825	0	0	Not Loaded as Part of GCP				
Upload Status																											
Import ID	Tracking ID	BMP ID	Date Installed	NRCS Code	Clearinghouse BMP	BMP Name	Measurement Name	Measurement Unit	BMP Extent	Impervious Acres Treated	Runoff Treated (Acres-Feet)	Practice Description	Locality	Locality FIPS	ToLocality	HUC12	VAHU6	Latitude	Longitude	Existing Land Use	MS4 Service Area	Ownership Type	Maintenance Agreement	Action Plan			
PASS	752633	ARLCO-2023-00558983	18-0260A	7/12/2022	BVR2				0.15	0.15	0.01375	VEGETATED ROOF #2	ARLINGTON				PL24	38.858710	-77.049812		Inside MS4	Private	Yes	Both			
PASS	752634	ARLCO-2023-00558984	18-0260B	7/12/2022	BVR2				0.08	0.08	0.007333	VEGETATED ROOF #2	ARLINGTON				PL24	38.858946	-77.049828		Inside MS4	Private	Yes	Both			
PASS	752635	ARLCO-2023-00558985	18-0260C	7/12/2022	BVR2				0.12	0.12	0.011	VEGETATED ROOF #2	ARLINGTON				PL24	38.858690	-77.049487		Inside MS4	Private	Yes	Both			
PASS	752636	ARLCO-2023-00558986	18-0260D	7/12/2022	BVR2				0.09	0.09	0.00825	VEGETATED ROOF #2	ARLINGTON				PL24	38.859596	-77.049437		Inside MS4	Private	Yes	Both			
PASS	752644	ARLCO-2023-00558993	18-0231I	7/12/2022	BB1				0.87	0.7	0.0725	BIORETENTION #1	ARLINGTON				PL25	38.889382	-77.159722		Inside MS4	Private	Yes	Both			
PASS	752673	ARLCO-2019-00559028	12-1322B	9/14/2018	BPP1				0.21	0.21	0.01	Porous Concrete	ARLINGTON				PL25	38.880740	-77.132660		Inside MS4	Private	Yes	Both			

Appendix AR22 FY23 AC MS4 BMP Template for DEQ BMP Warehouse																					
Upload Status	Import ID	Tracking ID	BMP ID	Date Installed	NRCS Code	Clearinghouse BMP	BMP Name	Measurement Name	Measurement Unit	BMP Extent	Impervious Acres Treated	Runoff Treated (Acres-Feet)	Practice Description	Locality	VAHU6	Latitude	Longitude	MS4 Service Area	Ownership Type	Maintenance Agreement	Action Plan
PASS	752128	ARLCO-2023-00558482	14-1886A	5/23/2023		BB1	Bioretention	Area Treated	ACRE	0.1874	0.0789	0.015616667	BIORETENTION #1	ARLINGTON	PL24	38.885287	-77.085181	Outside MS4 service area	Private	Yes	Both
PASS	752129	ARLCO-2023-00558483	14-1886B	5/23/2023		BB1	Bioretention	Area Treated	ACRE	0.2961	0.1302	0.024675	BIORETENTION #1	ARLINGTON	PL24	38.884909	-77.086090	Outside MS4 service area	Private	Yes	Both
PASS	752130	ARLCO-2023-00558484	15-1986A	11/10/2022		BB1	Bioretention	Area Treated	ACRE	0.0063	0.0063	0.000525	BIORETENTION #1	ARLINGTON	PL24	38.855220	-77.057364	Inside MS4 service area	Private	Yes	Both
PASS	752131	ARLCO-2023-00558485	15-1986B	11/10/2022		BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.0025	BIORETENTION #1	ARLINGTON	PL24	38.855034	-77.057465	Inside MS4 service area	Private	Yes	Both
PASS	752132	ARLCO-2023-00558486	15-1986C	11/10/2022		BB1	Bioretention	Area Treated	ACRE	0.0076	0.0076	0.000633333	BIORETENTION #1	ARLINGTON	PL24	38.854990	-77.057318	Inside MS4 service area	Private	Yes	Both
PASS	752133	ARLCO-2023-00558487	15-2157A	7/5/2022		BB1	Bioretention	Area Treated	ACRE	0.0353	0.0187	0.002941667	BIORETENTION #1	ARLINGTON	PL24	38.910060	-77.139447	Inside MS4 service area	Private	Yes	Both
PASS	752134	ARLCO-2023-00558488	16-0119A	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.874694	-77.102918	Inside MS4 service area	Private	Yes	Both
PASS	752135	ARLCO-2023-00558489	16-0119B	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.874561	-77.102804	Inside MS4 service area	Private	Yes	Both
PASS	752136	ARLCO-2023-00558490	16-0119C	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.874523	-77.102872	Inside MS4 service area	Private	Yes	Both
PASS	752137	ARLCO-2023-00558491	18-0211A	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0135	0.0114	0.001125	BIORETENTION #1	ARLINGTON	PL24	38.887082	-77.097841	Inside MS4 service area	Private	Yes	Both
PASS	752138	ARLCO-2023-00558492	18-0211B	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0205	0.0191	0.001708333	BIORETENTION #1	ARLINGTON	PL24	38.887131	-77.097900	Inside MS4 service area	Private	Yes	Both
PASS	752139	ARLCO-2023-00558493	18-0211F	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0276	0.0262	0.0023	BIORETENTION #1	ARLINGTON	PL24	38.887464	-77.097739	Inside MS4 service area	Private	Yes	Both
PASS	752140	ARLCO-2023-00558494	18-0211G	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.022	0.0206	0.001833333	BIORETENTION #1	ARLINGTON	PL24	38.887521	-77.097661	Inside MS4 service area	Private	Yes	Both
PASS	752141	ARLCO-2023-00558495	18-0211H	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0498	0.0469	0.00415	BIORETENTION #1	ARLINGTON	PL24	38.887585	-77.097593	Inside MS4 service area	Private	Yes	Both
PASS	752142	ARLCO-2023-00558496	18-0211I	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0496	0.043	0.004133333	BIORETENTION #1	ARLINGTON	PL24	38.887617	-77.097386	Inside MS4 service area	Private	Yes	Both
PASS	752143	ARLCO-2023-00558497	18-0211J	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0246	0.0232	0.00205	BIORETENTION #1	ARLINGTON	PL24	38.887122	-77.097779	Inside MS4 service area	Private	Yes	Both
PASS	752144	ARLCO-2023-00558498	18-0211M	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0268	0.0254	0.002233333	BIORETENTION #1	ARLINGTON	PL24	38.886665	-77.097330	Inside MS4 service area	Private	Yes	Both
PASS	752145	ARLCO-2023-00558499	18-0211O	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0244	0.023	0.002033333	BIORETENTION #1	ARLINGTON	PL24	38.887030	-77.097779	Inside MS4 service area	Private	Yes	Both
PASS	752146	ARLCO-2023-00558500	18-0211P	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0294	0.028	0.00245	BIORETENTION #1	ARLINGTON	PL24	38.886762	-77.097448	Inside MS4 service area	Private	Yes	Both
PASS	752147	ARLCO-2023-00558501	18-0211Q	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0246	0.0232	0.00205	BIORETENTION #1	ARLINGTON	PL24	38.887238	-77.096930	Inside MS4 service area	Private	Yes	Both
PASS	752148	ARLCO-2023-00558502	18-0211R	12/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0219	0.0205	0.001825	BIORETENTION #1	ARLINGTON	PL24	38.887179	-77.096859	Inside MS4 service area	Private	Yes	Both
PASS	752149	ARLCO-2023-00558503	18-0212A	12/21/2022		BB1	Bioretention	Area Treated	ACRE	0.2021	0.0937	0.016841667	BIORETENTION #1	ARLINGTON	PL25	38.847876	-77.084172	Inside MS4 service area	Public	Yes	Both
PASS	752150	ARLCO-2023-00558504	18-0212C	12/21/2022		BB1	Bioretention	Area Treated	ACRE	0.0267	0.0215	0.002225	BIORETENTION #1	ARLINGTON	PL25	38.848330	-77.084149	Inside MS4 service area	Public	Yes	Both
PASS	752151	ARLCO-2023-00558505	18-0212D	12/21/2022		BB1	Bioretention	Area Treated	ACRE	0.0324	0.0301	0.0027	BIORETENTION #1	ARLINGTON	PL25	38.848162	-77.084116	Inside MS4 service area	Public	Yes	Both
PASS	752152	ARLCO-2023-00558506	18-0212E	12/21/2022		BB1	Bioretention	Area Treated	ACRE	0.0324	0.0301	0.0027	BIORETENTION #1	ARLINGTON	PL25	38.847959	-77.084076	Inside MS4 service area	Public	Yes	Both
PASS	752153	ARLCO-2023-00558507	18-0212F	12/21/2022		BB1	Bioretention	Area Treated	ACRE	0.2103	0.1166	0.017525	BIORETENTION #1	ARLINGTON	PL25	38.847994	-77.084238	Inside MS4 service area	Public	Yes	Both
PASS	752154	ARLCO-2023-00558508	18-0287A	5/10/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.892030	-77.130663	Outside MS4 service area	Private	Yes	Both
PASS	752155	ARLCO-2023-00558509	18-0287B	5/10/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.891962	-77.130516	Outside MS4 service area	Private	Yes	Both
PASS	752156	ARLCO-2023-00558510	19-0043A	7/7/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.855088	-77.087971	Inside MS4 service area	Private	Yes	Both
PASS	752157	ARLCO-2023-00558511	19-0225A	1/30/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.891632	-77.147390	Inside MS4 service area	Private	Yes	Both
PASS	752158	ARLCO-2023-00558512	19-0225B	1/30/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.891616	-77.147535	Inside MS4 service area	Private	Yes	Both
PASS	752159	ARLCO-2023-00558513	19-0225E	1/30/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.891581	-77.147210	Inside MS4 service area	Private	Yes	Both
PASS	752160	ARLCO-2023-00558514	19-0233A	12/13/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.909802	-77.118975	Inside MS4 service area	Private	Yes	Both
PASS	752161	ARLCO-2023-00558515	19-0233B	12/13/2022		BB1	Bioretention	Area Treated	ACRE	0.04	0.04	0.003333333	BIORETENTION #1	ARLINGTON	PL24	38.909852	-77.119241	Inside MS4 service area	Private	Yes	Both
PASS	752162	ARLCO-2023-00558516	19-0233C	12/13/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.909931	-77.118973	Inside MS4 service area	Private	Yes	Both
PASS	752163	ARLCO-2023-00558517	20-0020A	11/28/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL23	38.873222	-77.120369	Inside MS4 service area	Private	Yes	Both
PASS	752164	ARLCO-2023-00558518	20-0020B	11/28/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL23	38.873070	-77.120225	Inside MS4 service area	Private	Yes	Both
PASS	752165	ARLCO-2023-00558519	20-0020C	11/28/2022		BB1	Bioretention	Area Treated	ACRE	0.009	0.009	0.00075	BIORETENTION #1	ARLINGTON	PL23	38.873069	-77.120410	Inside MS4 service area	Private	Yes	Both
PASS	752166	ARLCO-2023-00558520	20-0020D	11/28/2022		BB1	Bioretention	Area Treated	ACRE	0.009	0.009	0.00075	BIORETENTION #1	ARLINGTON	PL23	38.873140	-77.120415	Inside MS4 service area	Private	Yes	Both
PASS	752167	ARLCO-2023-00558521	20-0048A	1/25/2023		BB1	Bioretention	Area Treated	ACRE	0.0085	0.0085	0.000708333	BIORETENTION #1	ARLINGTON	PL24	38.892943	-77.104276	Inside MS4 service area	Private	Yes	Both
PASS	752168	ARLCO-2023-00558522	20-0048B	1/25/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.892966	-77.104449	Inside MS4 service area	Private	Yes	Both
PASS	752169	ARLCO-2023-00558523	20-0048C	1/25/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.893029	-77.104452	Inside MS4 service area	Private	Yes	Both
PASS	752170	ARLCO-2023-00558524	20-0048D	1/25/2023		BB1	Bioretention	Area Treated	ACRE	0.0052	0.0052	0.000433333	BIORETENTION #1	ARLINGTON	PL24	38.893035	-77.104239	Outside MS4 service area	Private	Yes	Both
PASS	752171	ARLCO-2023-00558525	20-0088C	8/19/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.894220	-77.106670	Inside MS4 service area	Private	Yes	Both
PASS	752172	ARLCO-2023-00558526	20-0130A	3/8/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.872029	-77.138749	Outside MS4 service area	Private	Yes	Both
PASS	752173	ARLCO-2022-00559022	20-0141A	7/19/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.884852	-77.150041	Outside MS4 service area	Private	Yes	Both
PASS	752174	ARLCO-2022-00559023	20-0141B	7/19/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.884830	-77.150098	Outside MS4 service area	Private	Yes	Both
PASS	752175	ARLCO-2022-00559024	20-0141C	7/19/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.884828	-77.149909	Outside MS4 service area	Private	Yes	Both
PASS	752176	ARLCO-2023-00558527	20-0157A	5/23/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.899088	-77.142525	Outside MS4 service area	Private	Yes	Both

PASS	752201	ARLCO-2023-00558551	20-0259B	7/20/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.886032	-77.111407	Inside MS4 service area	Private	Yes	Both
PASS	752202	ARLCO-2023-00558552	20-0259C	7/20/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.886129	-77.111387	Inside MS4 service area	Private	Yes	Both
PASS	752203	ARLCO-2023-00558553	20-0267A	11/18/2022		BB1	Bioretention	Area Treated	ACRE	0.0076	0.0076	0.000633333	BIORETENTION #1	ARLINGTON	PL25	38.894791	-77.136408	Inside MS4 service area	Private	Yes	Both
PASS	752204	ARLCO-2023-00558554	20-0267B	11/18/2022		BB1	Bioretention	Area Treated	ACRE	0.0075	0.0075	0.000625	BIORETENTION #1	ARLINGTON	PL25	38.894720	-77.136300	Inside MS4 service area	Private	Yes	Both
PASS	752205	ARLCO-2023-00558555	20-0267C	11/18/2022		BB1	Bioretention	Area Treated	ACRE	0.0097	0.0097	0.000808333	BIORETENTION #1	ARLINGTON	PL25	38.894643	-77.136422	Inside MS4 service area	Private	Yes	Both
PASS	752206	ARLCO-2023-00558556	20-0270A	2/27/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.907174	-77.104967	Outside MS4 service area	Private	Yes	Both
PASS	752207	ARLCO-2023-00558557	20-0270B	2/27/2023		BB1	Bioretention	Area Treated	ACRE	0.0046	0.0046	0.000383333	BIORETENTION #1	ARLINGTON	PL24	38.907107	-77.105015	Outside MS4 service area	Private	Yes	Both
PASS	752208	ARLCO-2023-00558558	20-0270C	2/27/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.907102	-77.104840	Outside MS4 service area	Private	Yes	Both
PASS	752209	ARLCO-2023-00558559	20-0270D	2/27/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.906989	-77.104852	Outside MS4 service area	Private	Yes	Both
PASS	752210	ARLCO-2023-00558560	21-0017A	11/23/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.910034	-77.142308	Inside MS4 service area	Private	Yes	Both
PASS	752211	ARLCO-2023-00558561	21-0017B	11/23/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.910056	-77.142159	Inside MS4 service area	Private	Yes	Both
PASS	752212	ARLCO-2023-00558562	21-0017C	11/23/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.909917	-77.142192	Inside MS4 service area	Private	Yes	Both
PASS	752213	ARLCO-2023-00558563	21-0017D	11/23/2022		BB1	Bioretention	Area Treated	ACRE	0.0094	0.0094	0.000783333	BIORETENTION #1	ARLINGTON	PL24	38.909897	-77.142286	Inside MS4 service area	Private	Yes	Both
PASS	752214	ARLCO-2023-00558564	21-0024A	4/10/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.899391	-77.099828	Inside MS4 service area	Private	Yes	Both
PASS	752215	ARLCO-2023-00558565	21-0024B	4/10/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.899450	-77.099681	Inside MS4 service area	Private	Yes	Both
PASS	752216	ARLCO-2023-00558566	21-0024C	4/10/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.899485	-77.099829	Inside MS4 service area	Private	Yes	Both
PASS	752217	ARLCO-2023-00558567	21-0026A	9/2/2022		BB1	Bioretention	Area Treated	ACRE	0.04	0.04	0.003333333	BIORETENTION #1	ARLINGTON	PL24	38.912572	-77.124630	Inside MS4 service area	Private	Yes	Both
PASS	752218	ARLCO-2023-00558568	21-0026B	9/2/2022		BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.0025	BIORETENTION #1	ARLINGTON	PL24	38.912541	-77.124599	Inside MS4 service area	Private	Yes	Both
PASS	752219	ARLCO-2023-00558569	21-0027A	7/20/2022		BB1	Bioretention	Area Treated	ACRE	0.04	0.04	0.003333333	BIORETENTION #1	ARLINGTON	PL24	38.903929	-77.105227	Inside MS4 service area	Private	Yes	Both
PASS	752220	ARLCO-2023-00558570	21-0029A	11/1/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.893423	-77.132785	Inside MS4 service area	Private	Yes	Both
PASS	752221	ARLCO-2023-00558571	21-0029B	11/1/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.893273	-77.132813	Inside MS4 service area	Private	Yes	Both
PASS	752222	ARLCO-2023-00558572	21-0029C	11/1/2022		BB1	Bioretention	Area Treated	ACRE	0.0046	0.0046	0.000383333	BIORETENTION #1	ARLINGTON	PL25	38.893371	-77.132918	Inside MS4 service area	Private	Yes	Both
PASS	752223	ARLCO-2023-00558573	21-0043A	3/30/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.890499	-77.131312	Outside MS4 service area	Private	Yes	Both
PASS	752224	ARLCO-2023-00558574	21-0043B	3/30/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.890632	-77.131273	Outside MS4 service area	Private	Yes	Both
PASS	752225	ARLCO-2023-00558575	21-0043D	3/13/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.890637	-77.131206	Outside MS4 service area	Private	Yes	Both
PASS	752226	ARLCO-2023-00558576	21-0049B	8/18/2022		BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.0025	BIORETENTION #1	ARLINGTON	PL24	38.919709	-77.116830	Inside MS4 service area	Private	Yes	Both
PASS	752227	ARLCO-2023-00558577	21-0049C	8/18/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.919841	-77.116979	Inside MS4 service area	Private	Yes	Both
PASS	752228	ARLCO-2023-00558578	21-0053A	8/15/2022		BB1	Bioretention	Area Treated	ACRE	0.0097	0.0097	0.000808333	BIORETENTION #1	ARLINGTON	PL25	38.895094	-77.144447	Inside MS4 service area	Private	Yes	Both
PASS	752229	ARLCO-2023-00558579	21-0053B	8/15/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.895066	-77.144523	Inside MS4 service area	Private	Yes	Both
PASS	752230	ARLCO-2023-00558580	21-0053C	8/15/2022		BB1	Bioretention	Area Treated	ACRE	0.0077	0.0077	0.000641667	BIORETENTION #1	ARLINGTON	PL25	38.895015	-77.144743	Inside MS4 service area	Private	Yes	Both
PASS	752231	ARLCO-2023-00558581	21-0053D	8/15/2022		BB1	Bioretention	Area Treated	ACRE	0.0051	0.0051	0.000425	BIORETENTION #1	ARLINGTON	PL25	38.895122	-77.144686	Inside MS4 service area	Private	Yes	Both
PASS	752232	ARLCO-2023-00558582	21-0053E	8/15/2022		BB1	Bioretention	Area Treated	ACRE	0.0067	0.0067	0.000583333	BIORETENTION #1	ARLINGTON	PL25	38.895135	-77.144651	Inside MS4 service area	Private	Yes	Both
PASS	752233	ARLCO-2023-00558583	21-0053F	8/15/2022		BB1	Bioretention	Area Treated	ACRE	0.0082	0.0082	0.000683333	BIORETENTION #1	ARLINGTON	PL25	38.895180	-77.144521	Inside MS4 service area	Private	Yes	Both
PASS	752234	ARLCO-2023-00558584	21-0058A	7/15/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.891954	-77.098311	Inside MS4 service area	Private	Yes	Both
PASS	752235	ARLCO-2023-00558585	21-0064A	7/26/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.852471	-77.091828	Inside MS4 service area	Private	Yes	Both
PASS	752236	ARLCO-2023-00558586	21-0064B	7/26/2022		BB1	Bioretention	Area Treated	ACRE	0.0077	0.0077	0.000641667	BIORETENTION #1	ARLINGTON	PL25	38.852552	-77.091903	Inside MS4 service area	Private	Yes	Both
PASS	752237	ARLCO-2023-00558587	21-0072A	7/27/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.847378	-77.088284	Inside MS4 service area	Private	Yes	Both
PASS	752238	ARLCO-2023-00558588	21-0082B	8/12/2022		BB1	Bioretention	Area Treated	ACRE	0.04	0.04	0.003333333	BIORETENTION #1	ARLINGTON	PL24	38.918024	-77.116507	Inside MS4 service area	Private	Yes	Both
PASS	752239	ARLCO-2023-00558589	21-0091A	8/10/2022		BB1	Bioretention	Area Treated	ACRE	0.0065	0.0065	0.000541667	BIORETENTION #1	ARLINGTON	PL25	38.885800	-77.115302	Inside MS4 service area	Private	Yes	Both
PASS	752240	ARLCO-2023-00558590	21-0091C	8/10/2022		BB1	Bioretention	Area Treated	ACRE	0.0038	0.0038	0.000316667	BIORETENTION #1	ARLINGTON	PL25	38.885787	-77.115512	Inside MS4 service area	Private	Yes	Both
PASS	752241	ARLCO-2023-00558591	21-0099A	1/9/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.899438	-77.118132	Inside MS4 service area	Private	Yes	Both
PASS	752242	ARLCO-2023-00558592	21-0106A	7/14/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.903906	-77.149263	Inside MS4 service area	Private	Yes	Both
PASS	752243	ARLCO-2023-00558593	21-0106B	7/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0077	0.0077	0.000641667	BIORETENTION #1	ARLINGTON	PL24	38.903801	-77.149224	Inside MS4 service area	Private	Yes	Both
PASS	752244	ARLCO-2023-00558594	21-0106C	7/14/2022		BB1	Bioretention	Area Treated	ACRE	0.0099	0.0099	0.000825	BIORETENTION #1	ARLINGTON	PL24	38.903744	-77.149367	Inside MS4 service area	Private	Yes	Both
PASS	752245	ARLCO-2023-00558595	21-0108A	10/14/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.900312	-77.130891	Inside MS4 service area	Private	Yes	Both
PASS	752246	ARLCO-2023-00558596	21-0110A	7/18/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.898415	-77.163631	Outside MS4 service area	Private	Yes	Both
PASS	752247	ARLCO-2023-00558597	21-0110B	7/18/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.898373	-77.163768	Outside MS4 service area	Private	Yes	Both
PASS	752248	ARLCO-2023-00558598	21-0112A	7/1/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.905775	-77.152244	Inside MS4 service area	Private	Yes	Both
PASS	752249	ARLCO-2023-00558599	21-0112B	7/1/2022		BB1	Bioretention	Area Treated	ACRE	0.0077	0.0077	0.000641667	BIORETENTION #1	ARLINGTON	PL24	38.905705	-77.152365	Inside MS4 service area	Private	Yes	Both
PASS	752250	ARLCO-2023-00558600	21-0112C	7/1/2022		BB1	Bioretention	Area Treated	ACRE	0.0099	0.0099	0.000825	BIORETENTION #1	ARLINGTON	PL24	38.905789	-77.152481	Inside MS4 service area	Private	Yes	Both
PASS	752251	ARLCO-2023-00558601	21-0112D	7/1/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.905854	-77.152303	Inside MS4 service area	Private	Yes	Both
PASS	752252	ARLCO-2023-00558602	21-0118A	2/22/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.874691	-77.129684	Outside MS4 service area	Private	Yes	Both
PASS	752253	ARLCO-2023-00558603	21-0118B	2/22/2023		BB1	Bioretention	Area Treated	ACRE	0.0078	0.0078	0.00065	BIORETENTION #1	ARLINGTON	PL25	38.874752	-77.129624	Outside MS4 service area	Private	Yes	Both
PASS	752254	ARLCO-2023-00558604	21-0120A	1/19/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.892368	-77.092361	Inside MS4 service area	Private	Yes	Both
PASS	752255	ARLCO-2023-00558605	21-0120B	1/19/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.892449	-77.092415	Inside MS4 service area	Private	Yes	Both
PASS	752256	ARLCO-2023-00558606	21-0120C	1/19/2023		BB1	Bioretention														

PASS	752277	ARLCO-2023-00558627	21-0143A	2/16/2023	BB1	Bioretention	Area Treated	ACRE	0.0075	0.0075	0.000625	BIORETENTION #1	ARLINGTON	PL25	38.895632	-77.144835	Inside MS4 service area	Private	Yes	Both
PASS	752278	ARLCO-2023-00558628	21-0143B	2/16/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.895660	-77.145005	Inside MS4 service area	Private	Yes	Both
PASS	752279	ARLCO-2023-00558629	21-0143C	2/16/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.895740	-77.144867	Inside MS4 service area	Private	Yes	Both
PASS	752280	ARLCO-2023-00558630	21-0146C	9/14/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.895486	-77.154053	Inside MS4 service area	Private	Yes	Both
PASS	752281	ARLCO-2023-00558631	21-0146D	9/14/2022	BB1	Bioretention	Area Treated	ACRE	0.0086	0.0086	0.000716667	BIORETENTION #1	ARLINGTON	PL24	38.895466	-77.154167	Inside MS4 service area	Private	Yes	Both
PASS	752282	ARLCO-2023-00558632	21-0147A	10/4/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.857452	-77.066443	Inside MS4 service area	Private	Yes	Both
PASS	752283	ARLCO-2023-00558633	21-0147B	10/4/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.857472	-77.066269	Inside MS4 service area	Private	Yes	Both
PASS	752284	ARLCO-2023-00558634	21-0147C	10/4/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.857341	-77.066413	Inside MS4 service area	Private	Yes	Both
PASS	752285	ARLCO-2023-00558635	21-0158A	7/25/2022	BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.0025	BIORETENTION #1	ARLINGTON	PL24	38.906713	-77.117119	Inside MS4 service area	Private	Yes	Both
PASS	752286	ARLCO-2023-00558636	21-0158B	7/25/2022	BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.0025	BIORETENTION #1	ARLINGTON	PL24	38.906662	-77.117136	Inside MS4 service area	Private	Yes	Both
PASS	752287	ARLCO-2023-00558637	21-0166A	12/20/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.898905	-77.165064	Inside MS4 service area	Private	Yes	Both
PASS	752288	ARLCO-2023-00558638	21-0166B	12/20/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.898939	-77.164972	Inside MS4 service area	Private	Yes	Both
PASS	752289	ARLCO-2023-00558639	21-0166C	12/20/2022	BB1	Bioretention	Area Treated	ACRE	0.0033	0.0033	0.000275	BIORETENTION #1	ARLINGTON	PL24	38.899077	-77.164983	Inside MS4 service area	Private	Yes	Both
PASS	752290	ARLCO-2023-00558640	21-0168A	10/6/2022	BB1	Bioretention	Area Treated	ACRE	0.04	0.04	0.00333333	BIORETENTION #1	ARLINGTON	PL25	38.910350	-77.133978	Inside MS4 service area	Private	Yes	Both
PASS	752291	ARLCO-2023-00558641	21-0169A	5/18/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.924412	-77.120228	Outside MS4 service area	Private	Yes	Both
PASS	752292	ARLCO-2023-00558642	21-0169B	5/18/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.924220	-77.120099	Outside MS4 service area	Private	Yes	Both
PASS	752293	ARLCO-2023-00558643	21-0171A	8/30/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.899392	-77.133723	Outside MS4 service area	Private	Yes	Both
PASS	752294	ARLCO-2023-00558644	21-0174A	7/12/2022	BB1	Bioretention	Area Treated	ACRE	0.0056	0.0056	0.000466667	BIORETENTION #1	ARLINGTON	PL24	38.917885	-77.140145	Inside MS4 service area	Private	Yes	Both
PASS	752295	ARLCO-2023-00558645	21-0174B	7/12/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.917954	-77.140152	Inside MS4 service area	Private	Yes	Both
PASS	752296	ARLCO-2023-00558646	21-0174C	7/12/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.917869	-77.140244	Inside MS4 service area	Private	Yes	Both
PASS	752297	ARLCO-2023-00558647	21-0175A	1/19/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.902496	-77.135726	Inside MS4 service area	Private	Yes	Both
PASS	752298	ARLCO-2023-00558648	21-0175B	1/19/2023	BB1	Bioretention	Area Treated	ACRE	0.0072	0.0072	0.0006	BIORETENTION #1	ARLINGTON	PL24	38.902480	-77.135901	Inside MS4 service area	Private	Yes	Both
PASS	752299	ARLCO-2023-00558649	21-0177A	11/29/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.905006	-77.104518	Inside MS4 service area	Private	Yes	Both
PASS	752300	ARLCO-2023-00558650	21-0181A	10/11/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.858352	-77.062832	Inside MS4 service area	Private	Yes	Both
PASS	752301	ARLCO-2023-00558651	21-0181B	10/11/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.858266	-77.062697	Inside MS4 service area	Private	Yes	Both
PASS	752302	ARLCO-2023-00558652	21-0182A	3/9/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.857064	-77.064888	Outside MS4 service area	Private	Yes	Both
PASS	752303	ARLCO-2023-00558653	21-0182B	3/9/2023	BB1	Bioretention	Area Treated	ACRE	0.0074	0.0074	0.000616667	BIORETENTION #1	ARLINGTON	PL24	38.857149	-77.064894	Outside MS4 service area	Private	Yes	Both
PASS	752304	ARLCO-2023-00558654	21-0184A	7/13/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.876985	-77.092868	Outside MS4 service area	Private	Yes	Both
PASS	752305	ARLCO-2023-00558655	21-0184B	7/13/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.877089	-77.092850	Outside MS4 service area	Private	Yes	Both
PASS	752306	ARLCO-2023-00558656	21-0185A	7/29/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.917494	-77.122644	Inside MS4 service area	Private	Yes	Both
PASS	752307	ARLCO-2023-00558657	21-0185B	7/29/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.917590	-77.122669	Inside MS4 service area	Private	Yes	Both
PASS	752308	ARLCO-2023-00558658	21-0186A	3/24/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.893336	-77.095692	Outside MS4 service area	Private	Yes	Both
PASS	752309	ARLCO-2023-00558659	21-0189A	9/28/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.893827	-77.087485	Inside MS4 service area	Private	Yes	Both
PASS	752310	ARLCO-2023-00558660	21-0189B	9/28/2022	BB1	Bioretention	Area Treated	ACRE	0.0044	0.0044	0.000366667	BIORETENTION #1	ARLINGTON	PL24	38.893745	-77.087419	Inside MS4 service area	Private	Yes	Both
PASS	752311	ARLCO-2023-00558661	21-0189C	9/28/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.893722	-77.087513	Inside MS4 service area	Private	Yes	Both
PASS	752312	ARLCO-2023-00558662	21-0189D	9/28/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.893791	-77.087634	Inside MS4 service area	Private	Yes	Both
PASS	752313	ARLCO-2023-00558663	21-0189E	9/28/2022	BB1	Bioretention	Area Treated	ACRE	0.0069	0.0069	0.000575	BIORETENTION #1	ARLINGTON	PL24	38.893760	-77.087690	Inside MS4 service area	Private	Yes	Both
PASS	752314	ARLCO-2023-00558664	21-0194A	9/9/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.893925	-77.139589	Inside MS4 service area	Private	Yes	Both
PASS	752315	ARLCO-2023-00558665	21-0194B	9/9/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.893982	-77.139485	Inside MS4 service area	Private	Yes	Both
PASS	752316	ARLCO-2023-00558666	21-0195B	11/3/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.906380	-77.145152	Inside MS4 service area	Private	Yes	Both
PASS	752317	ARLCO-2023-00558667	21-0195C	11/3/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.906528	-77.145152	Inside MS4 service area	Private	Yes	Both
PASS	752318	ARLCO-2023-00558668	21-0195D	11/3/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.906528	-77.145041	Inside MS4 service area	Private	Yes	Both
PASS	752319	ARLCO-2023-00558669	21-0195E	11/3/2022	BB1	Bioretention	Area Treated	ACRE	0.0091	0.0091	0.000758333	BIORETENTION #1	ARLINGTON	PL24	38.906478	-77.144933	Inside MS4 service area	Private	Yes	Both
PASS	752320	ARLCO-2023-00558670	21-0196E	5/31/2023	BB1	Bioretention	Area Treated	ACRE	0.0074	0.0074	0.000616667	BIORETENTION #1	ARLINGTON	PL24	38.912600	-77.131454	Inside MS4 service area	Private	Yes	Both
PASS	752321	ARLCO-2023-00558671	21-0196F	5/31/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.912523	-77.131491	Inside MS4 service area	Private	Yes	Both
PASS	752322	ARLCO-2023-00558672	21-0197A	1/6/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.874770	-77.092359	Inside MS4 service area	Private	Yes	Both
PASS	752323	ARLCO-2023-00558673	21-0200A	1/23/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.880033	-77.088662	Outside MS4 service area	Private	Yes	Both
PASS	752324	ARLCO-2023-00558674	21-0200B	1/23/2023	BB1	Bioretention	Area Treated	ACRE	0.0093	0.0093	0.000775	BIORETENTION #1	ARLINGTON	PL24	38.880131	-77.088716	Outside MS4 service area	Private	Yes	Both
PASS	752325	ARLCO-2023-00558675	21-0200C	1/23/2023	BB1	Bioretention	Area Treated	ACRE	0.0081	0.0081	0.000675	BIORETENTION #1	ARLINGTON	PL24	38.880061	-77.088791	Outside MS4 service area	Private	Yes	Both
PASS	752326	ARLCO-2023-00558676	21-0201C	2/16/2023	BB1	Bioretention	Area Treated	ACRE	0.0119	0.0119	0.000991667	BIORETENTION #1	ARLINGTON	PL24	38.905077	-77.125138	Inside MS4 service area	Private	Yes	Both
PASS	752327	ARLCO-2023-00558677	21-0201D	2/16/2023	BB1	Bioretention	Area Treated	ACRE	0.04	0.04	0.00333333	BIORETENTION #1	ARLINGTON	PL24	38.905042	-77.124917	Outside MS4 service area	Private	Yes	Both
PASS	752328	ARLCO-2023-00558678	21-0205A	7/19/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.890908	-77.096298	Inside MS4 service area	Private	Yes	Both
PASS	752329	ARLCO-2023-00558679	21-0205B	7/19/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.890798	-77.096226	Inside MS4 service area	Private	Yes	Both
PASS	752330	ARLCO-2023-00558680	21-0205C	7/19/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.890750	-77.096350	Inside MS4 service area	Private	Yes	Both
PASS	752331	ARLCO-2023-00558681	21-0206A	9/2/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.901491	-77.161166	Inside MS4 service area	Private	Yes	Both
PASS	752332	ARLCO-2023-00558682	21-0206B	9/2/2022	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.901350	-77.161214	Inside MS4 service area	Private	Yes	Both
PASS	752333	ARLCO-2023-00558683	21-0211A	10/7/2022	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	3					

PASS	752353	ARLCO-2023-00558703	21-0233B	10/28/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.893724	-77.102739	Inside MS4 service area	Private	Yes	Both
PASS	752354	ARLCO-2023-00558704	21-0235E	11/17/2022		BB1	Bioretention	Area Treated	ACRE	0.0091	0.0091	0.000758333	BIORETENTION #1	ARLINGTON	PL24	38.892895	-77.095421	Inside MS4 service area	Private	Yes	Both
PASS	752355	ARLCO-2023-00558705	21-0235F	11/17/2022		BB1	Bioretention	Area Treated	ACRE	0.0074	0.0074	0.000616667	BIORETENTION #1	ARLINGTON	PL24	38.892864	-77.095361	Inside MS4 service area	Private	Yes	Both
PASS	752356	ARLCO-2023-00558706	21-0235G	11/17/2022		BB1	Bioretention	Area Treated	ACRE	0.0071	0.0071	0.000591667	BIORETENTION #1	ARLINGTON	PL24	38.892846	-77.095326	Inside MS4 service area	Private	Yes	Both
PASS	752357	ARLCO-2023-00558707	21-0235H	11/17/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.892747	-77.095284	Inside MS4 service area	Private	Yes	Both
PASS	752358	ARLCO-2023-00558708	21-0236A	9/20/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.891748	-77.091946	Inside MS4 service area	Private	Yes	Both
PASS	752359	ARLCO-2023-00558709	21-0236B	9/20/2022		BB1	Bioretention	Area Treated	ACRE	0.0056	0.0056	0.000466667	BIORETENTION #1	ARLINGTON	PL24	38.891834	-77.092007	Inside MS4 service area	Private	Yes	Both
PASS	752360	ARLCO-2023-00558710	21-0238A	3/3/2023		BB1	Bioretention	Area Treated	ACRE	0.0072	0.0072	0.0006	BIORETENTION #1	ARLINGTON	PL24	38.881889	-77.094930	Outside MS4 service area	Private	Yes	Both
PASS	752361	ARLCO-2023-00558711	21-0238B	3/3/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.881851	-77.094744	Outside MS4 service area	Private	Yes	Both
PASS	752362	ARLCO-2023-00558712	21-0239A	10/6/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.900997	-77.154653	Outside MS4 service area	Private	Yes	Both
PASS	752363	ARLCO-2023-00558713	21-0240A	10/19/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.854555	-77.061776	Inside MS4 service area	Private	Yes	Both
PASS	752364	ARLCO-2023-00558714	21-0241A	3/20/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.896237	-77.149927	Inside MS4 service area	Private	Yes	Both
PASS	752365	ARLCO-2023-00558715	21-0245A	10/10/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.882281	-77.088358	Inside MS4 service area	Private	Yes	Both
PASS	752366	ARLCO-2023-00558716	21-0245B	10/10/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.882162	-77.088372	Inside MS4 service area	Private	Yes	Both
PASS	752367	ARLCO-2023-00558717	21-0245C	10/10/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.882187	-77.088178	Inside MS4 service area	Private	Yes	Both
PASS	752368	ARLCO-2023-00558718	21-0247A	4/18/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.897644	-77.111791	Inside MS4 service area	Private	Yes	Both
PASS	752369	ARLCO-2023-00558719	21-0247B	4/18/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.897605	-77.112056	Inside MS4 service area	Private	Yes	Both
PASS	752370	ARLCO-2023-00558720	21-0249A	10/6/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.880069	-77.095280	Inside MS4 service area	Private	Yes	Both
PASS	752371	ARLCO-2023-00558721	21-0249D	10/6/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.879924	-77.095262	Outside MS4 service area	Private	Yes	Both
PASS	752372	ARLCO-2023-00558722	21-0251A	10/21/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.885747	-77.151960	Inside MS4 service area	Private	Yes	Both
PASS	752373	ARLCO-2023-00558723	21-0261C	11/1/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.882982	-77.142413	Inside MS4 service area	Private	Yes	Both
PASS	752374	ARLCO-2023-00558724	21-0261D	11/1/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.882991	-77.142613	Inside MS4 service area	Private	Yes	Both
PASS	752375	ARLCO-2023-00558725	21-0262A	12/2/2022		BB1	Bioretention	Area Treated	ACRE	0.0074	0.0074	0.000616667	BIORETENTION #1	ARLINGTON	PL24	38.894126	-77.113345	Inside MS4 service area	Private	Yes	Both
PASS	752376	ARLCO-2023-00558726	21-0262B	12/2/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.894152	-77.113580	Inside MS4 service area	Private	Yes	Both
PASS	752377	ARLCO-2023-00558727	21-0265A	4/13/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.920454	-77.126563	Outside MS4 service area	Private	Yes	Both
PASS	752378	ARLCO-2023-00558728	21-0265B	4/13/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.920500	-77.126610	Outside MS4 service area	Private	Yes	Both
PASS	752379	ARLCO-2023-00558729	21-0266A	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.0031	0.0031	0.000258333	BIORETENTION #1	ARLINGTON	PL25	38.878193	-77.101762	Inside MS4 service area	Private	Yes	Both
PASS	752380	ARLCO-2023-00558730	21-0266B	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.878223	-77.101669	Inside MS4 service area	Private	Yes	Both
PASS	752381	ARLCO-2023-00558731	21-0266C	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.008	0.008	0.000666667	BIORETENTION #1	ARLINGTON	PL25	38.878264	-77.101535	Inside MS4 service area	Private	Yes	Both
PASS	752382	ARLCO-2023-00558732	21-0266D	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.878315	-77.101698	Inside MS4 service area	Private	Yes	Both
PASS	752383	ARLCO-2023-00558733	21-0266E	12/8/2022		BB1	Bioretention	Area Treated	ACRE	0.0076	0.0076	0.000633333	BIORETENTION #1	ARLINGTON	PL25	38.878350	-77.101590	Inside MS4 service area	Private	Yes	Both
PASS	752384	ARLCO-2023-00558734	21-0266F	10/4/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.878403	-77.101586	Inside MS4 service area	Private	Yes	Both
PASS	752385	ARLCO-2023-00558735	21-0266G	10/4/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.878341	-77.101779	Inside MS4 service area	Private	Yes	Both
PASS	752386	ARLCO-2023-00558736	21-0267A	3/2/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.887854	-77.146497	Outside MS4 service area	Private	Yes	Both
PASS	752387	ARLCO-2023-00558737	21-0270A	8/11/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.871712	-77.091887	Inside MS4 service area	Private	Yes	Both
PASS	752388	ARLCO-2023-00558738	21-0272A	10/21/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.927109	-77.123018	Inside MS4 service area	Private	Yes	Both
PASS	752389	ARLCO-2023-00558739	21-0274A	10/26/2022		BB1	Bioretention	Area Treated	ACRE	0.0071	0.0071	0.000591667	BIORETENTION #1	ARLINGTON	PL25	38.884206	-77.156694	Inside MS4 service area	Private	Yes	Both
PASS	752390	ARLCO-2023-00558740	21-0277A	4/24/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.852373	-77.109536	Outside MS4 service area	Private	Yes	Both
PASS	752391	ARLCO-2023-00558741	21-0277B	4/24/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.852271	-77.109576	Outside MS4 service area	Private	Yes	Both
PASS	752392	ARLCO-2023-00558742	21-0284A	12/7/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.909797	-77.133158	Inside MS4 service area	Private	Yes	Both
PASS	752393	ARLCO-2023-00558743	21-0284B	12/7/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL24	38.909813	-77.133363	Inside MS4 service area	Private	Yes	Both
PASS	752394	ARLCO-2023-00558744	21-0286A	8/22/2022		BB1	Bioretention	Area Treated	ACRE	0.0087	0.0087	0.000725	BIORETENTION #1	ARLINGTON	PL25	38.898093	-77.164583	Inside MS4 service area	Private	Yes	Both
PASS	752395	ARLCO-2023-00558745	21-0286B	8/22/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.898231	-77.164498	Inside MS4 service area	Private	Yes	Both
PASS	752396	ARLCO-2023-00558746	21-0286C	8/22/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.898189	-77.164627	Inside MS4 service area	Private	Yes	Both
PASS	752397	ARLCO-2023-00558747	21-0290B	2/16/2023		BB1	Bioretention	Area Treated	ACRE	0.1818	0.1196	0.01515	BIORETENTION #1	ARLINGTON	PL24	38.906656	-77.137526	Inside MS4 service area	Private	Yes	Both
PASS	752398	ARLCO-2023-00558748	21-0290C	2/16/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.906857	-77.137842	Outside MS4 service area	Private	Yes	Both
PASS	752399	ARLCO-2023-00558749	21-0294A	1/9/2023		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.892071	-77.125104	Inside MS4 service area	Private	Yes	Both
PASS	752400	ARLCO-2023-00558750	21-0294B	1/9/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.892020	-77.124959	Inside MS4 service area	Private	Yes	Both
PASS	752401	ARLCO-2023-00558751	21-0297A	9/23/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.897536	-77.148328	Inside MS4 service area	Private	Yes	Both
PASS	752402	ARLCO-2023-00558752	21-0297B	9/23/2022		BB1	Bioretention	Area Treated	ACRE	0.0077	0.0077	0.000641667	BIORETENTION #1	ARLINGTON	PL25	38.897595	-77.148222	Inside MS4 service area	Private	Yes	Both
PASS	752403	ARLCO-2023-00558753	21-0297C	9/23/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.897453	-77.148294	Inside MS4 service area	Private	Yes	Both
PASS	752404	ARLCO-2023-00558754	21-0298A	4/25/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.886135	-77.114394	Outside MS4 service area	Private	Yes	Both
PASS	752405	ARLCO-2023-00558755	21-0298B	4/25/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.885976	-77.114413	Outside MS4 service area	Private	Yes	Both
PASS	752406	ARLCO-2023-00558756	21-0298C	4/25/2023		BB1	Bioretention	Area Treated	ACRE	0.0043	0.0043	0.000358333	BIORETENTION #1	ARLINGTON	PL25	38.885992	-77.114562	Outside MS4 service area	Private	Yes	Both
PASS	752407	ARLCO-2023-00558757	21-0299A	2/1/2023		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.001666667	BIORETENTION #1	ARLINGTON	PL25	38.882946	-77.096977	Inside MS4 service area	Private	Yes	Both
PASS	752408	ARLCO-2023-00558758	21-0299B	2/1/2023		BB1	Bioretention	Area													

PASS	752429	ARLCO-2023-00558779	21-0341A	3/13/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.890789	-77.114918	Inside MS4 service area	Private	Yes	Both
PASS	752430	ARLCO-2023-00558780	21-0341W	3/13/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.890598	-77.114866	Outside MS4 service area	Private	Yes	Both
PASS	752431	ARLCO-2023-00558781	21-0341X	3/13/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.890598	-77.115037	Outside MS4 service area	Private	Yes	Both
PASS	752432	ARLCO-2023-00558782	21-0341Y	3/13/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.890718	-77.115045	Outside MS4 service area	Private	Yes	Both
PASS	752433	ARLCO-2023-00558783	21-0348W	2/28/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.855996	-77.064353	Outside MS4 service area	Private	Yes	Both
PASS	752434	ARLCO-2023-00558784	21-0353A	5/18/2023	BB1	Bioretention	Area Treated	ACRE	0.0069	0.0069	0.000575	BIORETENTION #1	ARLINGTON	PL24	38.915756	-77.120013	Inside MS4 service area	Private	Yes	Both
PASS	752435	ARLCO-2023-00558785	21-0353F	5/18/2023	BB1	Bioretention	Area Treated	ACRE	0.0061	0.0061	0.00050833	BIORETENTION #1	ARLINGTON	PL24	38.915671	-77.120041	Inside MS4 service area	Private	Yes	Both
PASS	752436	ARLCO-2023-00558786	21-0353G	5/18/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.915641	-77.119831	Inside MS4 service area	Private	Yes	Both
PASS	752437	ARLCO-2023-00558787	21-0356A	5/15/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.892589	-77.099533	Inside MS4 service area	Private	Yes	Both
PASS	752438	ARLCO-2023-00558788	21-0356B	5/15/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.892445	-77.099527	Inside MS4 service area	Private	Yes	Both
PASS	752439	ARLCO-2023-00558789	21-0357A	2/23/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.875096	-77.091367	Outside MS4 service area	Private	Yes	Both
PASS	752440	ARLCO-2023-00558790	21-0357B	2/23/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.875041	-77.091158	Outside MS4 service area	Private	Yes	Both
PASS	752441	ARLCO-2023-00558791	21-0357C	2/23/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.875024	-77.091236	Outside MS4 service area	Private	Yes	Both
PASS	752442	ARLCO-2023-00558792	21-0358T	6/22/2023	BB1	Bioretention	Area Treated	ACRE	0.0014	0.0014	0.00011667	BIORETENTION #1	ARLINGTON	PL25	38.848479	-77.064137	Inside MS4 service area	Private	Yes	Both
PASS	752443	ARLCO-2023-00558793	21-0358U	6/22/2023	BB1	Bioretention	Area Treated	ACRE	0.0013	0.0013	0.00010833	BIORETENTION #1	ARLINGTON	PL25	38.848473	-77.064097	Inside MS4 service area	Private	Yes	Both
PASS	752444	ARLCO-2023-00558794	21-0358V	6/22/2023	BB1	Bioretention	Area Treated	ACRE	0.0016	0.0016	0.00013333	BIORETENTION #1	ARLINGTON	PL25	38.848611	-77.063916	Inside MS4 service area	Private	Yes	Both
PASS	752445	ARLCO-2023-00558795	21-0358W	6/22/2023	BB1	Bioretention	Area Treated	ACRE	0.0011	0.0011	0.0001	BIORETENTION #1	ARLINGTON	PL25	38.848744	-77.064149	Inside MS4 service area	Private	Yes	Both
PASS	752446	ARLCO-2023-00558796	22-0003W	3/20/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.916604	-77.131110	Inside MS4 service area	Private	Yes	Both
PASS	752447	ARLCO-2023-00558797	22-0003X	3/20/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.916689	-77.130927	Inside MS4 service area	Private	Yes	Both
PASS	752448	ARLCO-2023-00558798	22-0003Y	3/20/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.916543	-77.130934	Inside MS4 service area	Private	Yes	Both
PASS	752449	ARLCO-2023-00558799	22-0006A	3/24/2023	BB1	Bioretention	Area Treated	ACRE	0.0038	0.0038	0.00031667	BIORETENTION #1	ARLINGTON	PL24	38.908310	-77.137535	Inside MS4 service area	Private	Yes	Both
PASS	752450	ARLCO-2023-00558800	22-0006E	3/24/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.908487	-77.137523	Inside MS4 service area	Private	Yes	Both
PASS	752451	ARLCO-2023-00558801	22-0012B	1/24/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.885908	-77.137929	Inside MS4 service area	Private	Yes	Both
PASS	752452	ARLCO-2023-00558802	22-0012C	1/24/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.885944	-77.137731	Inside MS4 service area	Private	Yes	Both
PASS	752453	ARLCO-2023-00558803	22-0013A	3/2/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.893117	-77.136316	Outside MS4 service area	Private	Yes	Both
PASS	752454	ARLCO-2023-00558804	22-0013B	3/2/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.892984	-77.136227	Outside MS4 service area	Private	Yes	Both
PASS	752455	ARLCO-2023-00558805	22-0013E	3/2/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.893065	-77.136100	Outside MS4 service area	Private	Yes	Both
PASS	752456	ARLCO-2023-00558806	22-0014A	6/7/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.892462	-77.088963	Inside MS4 service area	Private	Yes	Both
PASS	752457	ARLCO-2023-00558807	22-0014B	6/7/2023	BB1	Bioretention	Area Treated	ACRE	0.0077	0.0077	0.00064167	BIORETENTION #1	ARLINGTON	PL24	38.892455	-77.089117	Inside MS4 service area	Private	Yes	Both
PASS	752458	ARLCO-2023-00558808	22-0015B	3/24/2023	BB1	Bioretention	Area Treated	ACRE	0.0006	0.0006	0.00005	BIORETENTION #1	ARLINGTON	PL25	38.896352	-77.150901	Inside MS4 service area	Private	Yes	Both
PASS	752459	ARLCO-2023-00558809	22-0015C	3/24/2023	BB1	Bioretention	Area Treated	ACRE	0.0012	0.0012	0.0001	BIORETENTION #1	ARLINGTON	PL25	38.896302	-77.151006	Outside MS4 service area	Private	Yes	Both
PASS	752460	ARLCO-2023-00558810	22-0015D	3/24/2023	BB1	Bioretention	Area Treated	ACRE	0.0008	0.0008	6.66667E-05	BIORETENTION #1	ARLINGTON	PL25	38.896269	-77.150781	Outside MS4 service area	Private	Yes	Both
PASS	752461	ARLCO-2023-00558811	22-0020A	6/27/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.889486	-77.145833	Inside MS4 service area	Private	Yes	Both
PASS	752462	ARLCO-2023-00558812	22-0020B	6/27/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.889637	-77.145911	Inside MS4 service area	Private	Yes	Both
PASS	752463	ARLCO-2023-00558813	22-0024A	4/13/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.882523	-77.129970	Outside MS4 service area	Private	Yes	Both
PASS	752464	ARLCO-2023-00558814	22-0024B	4/13/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.882545	-77.129867	Outside MS4 service area	Private	Yes	Both
PASS	752465	ARLCO-2023-00558815	22-0024C	4/13/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.882468	-77.129786	Outside MS4 service area	Private	Yes	Both
PASS	752466	ARLCO-2023-00558816	22-0025G	2/17/2023	BB1	Bioretention	Area Treated	ACRE	0.0071	0.0071	0.00059167	BIORETENTION #1	ARLINGTON	PL24	38.853848	-77.086144	Outside MS4 service area	Private	Yes	Both
PASS	752467	ARLCO-2023-00558817	22-0025H	2/17/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.853927	-77.086174	Outside MS4 service area	Private	Yes	Both
PASS	752468	ARLCO-2023-00558818	22-0025I	2/17/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.853994	-77.086087	Outside MS4 service area	Private	Yes	Both
PASS	752469	ARLCO-2023-00558819	22-0027A	3/31/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.904098	-77.106451	Inside MS4 service area	Private	Yes	Both
PASS	752470	ARLCO-2023-00558820	22-0027B	3/31/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.903936	-77.106453	Inside MS4 service area	Private	Yes	Both
PASS	752471	ARLCO-2023-00558821	22-0027D	3/31/2023	BB1	Bioretention	Area Treated	ACRE	0.0062	0.0062	0.00051667	BIORETENTION #1	ARLINGTON	PL24	38.904080	-77.106664	Inside MS4 service area	Private	Yes	Both
PASS	752472	ARLCO-2023-00558822	22-0029B	3/10/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.894324	-77.136888	Inside MS4 service area	Private	Yes	Both
PASS	752473	ARLCO-2023-00558823	22-0029R	3/10/2023	BB1	Bioretention	Area Treated	ACRE	0.0084	0.0084	0.0007	BIORETENTION #1	ARLINGTON	PL24	38.894216	-77.136855	Inside MS4 service area	Private	Yes	Both
PASS	752474	ARLCO-2023-00558824	22-0029T	3/10/2023	BB1	Bioretention	Area Treated	ACRE	0.0062	0.0062	0.00051667	BIORETENTION #1	ARLINGTON	PL24	38.894237	-77.136701	Inside MS4 service area	Private	Yes	Both
PASS	752475	ARLCO-2023-00558825	22-0030V	6/27/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.904125	-77.148234	Inside MS4 service area	Private	Yes	Both
PASS	752476	ARLCO-2023-00558826	22-0030W	6/27/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.904185	-77.148174	Inside MS4 service area	Private	Yes	Both
PASS	752477	ARLCO-2023-00558827	22-0030X	6/27/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.903998	-77.148154	Inside MS4 service area	Private	Yes	Both
PASS	752478	ARLCO-2023-00558828	22-0030Y	6/27/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.904075	-77.148285	Inside MS4 service area	Private	Yes	Both
PASS	752479	ARLCO-2023-00558829	22-0032A	3/23/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL25	38.896139	-77.152978	Outside MS4 service area	Private	Yes	Both
PASS	752480	ARLCO-2023-00558830	22-0049S	3/9/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.922660	-77.119002	Outside MS4 service area	Private	Yes	Both
PASS	752481	ARLCO-2023-00558831	22-0049T	3/9/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.922675	-77.119233	Inside MS4 service area	Private	Yes	Both
PASS	752482	ARLCO-2023-00558832	22-0052T	5/22/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.904282	-77.144890	Outside MS4 service area	Private	Yes	Both
PASS	752483	ARLCO-2023-00558833	22-0052U	5/22/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083333	BIORETENTION #1	ARLINGTON	PL24	38.904321	-77.144764	Outside MS4 service area	Private	Yes	Both
PASS	752484	ARLCO-2023-00558834	22-0053A	3/14/2023	BB1	Bioretention	Area Treated	ACRE	0.0033	0.0033	0.000275	BIORETENTION #1	ARLINGTON	PL24	38.919938	-77.114362	Outside MS4 service area	Private	Yes	Both
PASS	752485	ARLCO-2023-00558835	22-0053B	3/14/2023	BB1	Bioretention	Area Treated	ACRE	0.21	0.21	0.0175	BIORETENTION #1	ARLINGTON	PL24	38					

PASS	752505	ARLCO-2023-00558855	22-0085C	5/15/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.886786	-77.137033	Inside MS4 service area	Private	Yes	Both
PASS	752506	ARLCO-2023-00558856	22-0085D	5/15/2023	BB1	Bioretention	Area Treated	ACRE	0.0075	0.0075	0.000625	BIORETENTION #1	ARLINGTON	PL25	38.886780	-77.136940	Inside MS4 service area	Private	Yes	Both
PASS	752507	ARLCO-2023-00558857	22-0085F	5/15/2023	BB1	Bioretention	Area Treated	ACRE	0.0073	0.0073	0.000608333	BIORETENTION #1	ARLINGTON	PL25	38.886818	-77.136841	Inside MS4 service area	Private	Yes	Both
PASS	752508	ARLCO-2023-00558858	22-0085G	5/15/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.886931	-77.136904	Inside MS4 service area	Private	Yes	Both
PASS	752509	ARLCO-2023-00558859	22-0088S	5/26/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.902608	-77.137475	Inside MS4 service area	Private	Yes	Both
PASS	752510	ARLCO-2023-00558860	22-0088T	5/26/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.902517	-77.137582	Inside MS4 service area	Private	Yes	Both
PASS	752511	ARLCO-2023-00558861	22-0097W	6/21/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.885837	-77.130069	Inside MS4 service area	Private	Yes	Both
PASS	752512	ARLCO-2023-00558862	22-0097X	6/21/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.885954	-77.130072	Inside MS4 service area	Private	Yes	Both
PASS	752513	ARLCO-2023-00558863	22-0100S	5/30/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.899638	-77.134216	Inside MS4 service area	Private	Yes	Both
PASS	752514	ARLCO-2023-00558864	22-0100T	5/30/2023	BB1	Bioretention	Area Treated	ACRE	0.006	0.006	0.0005	BIORETENTION #1	ARLINGTON	PL24	38.899663	-77.134062	Inside MS4 service area	Private	Yes	Both
PASS	752515	ARLCO-2023-00558865	22-0100U	5/30/2023	BB1	Bioretention	Area Treated	ACRE	0.0053	0.0053	0.000441667	BIORETENTION #1	ARLINGTON	PL24	38.899584	-77.134015	Inside MS4 service area	Private	Yes	Both
PASS	752516	ARLCO-2023-00558866	22-0100V	5/30/2023	BB1	Bioretention	Area Treated	ACRE	0.0138	0.0138	0.00115	BIORETENTION #1	ARLINGTON	PL24	38.899539	-77.134156	Inside MS4 service area	Private	Yes	Both
PASS	752517	ARLCO-2023-00558867	22-0110S	5/10/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.904245	-77.156310	Inside MS4 service area	Private	Yes	Both
PASS	752518	ARLCO-2023-00558868	22-0110T	5/10/2023	BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.0025	BIORETENTION #1	ARLINGTON	PL24	38.904436	-77.156364	Inside MS4 service area	Private	Yes	Both
PASS	752519	ARLCO-2023-00558869	22-0113A	4/20/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.885488	-77.144057	Outside MS4 service area	Private	Yes	Both
PASS	752520	ARLCO-2023-00558870	22-0113B	4/20/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.885625	-77.143975	Outside MS4 service area	Private	Yes	Both
PASS	752521	ARLCO-2023-00558871	22-0113C	4/20/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.885530	-77.144031	Outside MS4 service area	Private	Yes	Both
PASS	752522	ARLCO-2023-00558872	22-0113Q	4/20/2023	BB1	Bioretention	Area Treated	ACRE	0.0071	0.0071	0.000591667	BIORETENTION #1	ARLINGTON	PL25	38.885525	-77.144210	Outside MS4 service area	Private	Yes	Both
PASS	752523	ARLCO-2023-00558873	22-0115A	4/10/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.879572	-77.151836	Outside MS4 service area	Private	Yes	Both
PASS	752524	ARLCO-2023-00558874	22-0115S	4/10/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.879664	-77.151852	Outside MS4 service area	Private	Yes	Both
PASS	752525	ARLCO-2023-00558875	22-0126A	5/31/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.899282	-77.134065	Inside MS4 service area	Private	Yes	Both
PASS	752526	ARLCO-2023-00558876	22-0126B	5/31/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.899325	-77.133918	Inside MS4 service area	Private	Yes	Both
PASS	752527	ARLCO-2023-00558877	22-0129A	6/27/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL24	38.911367	-77.134754	Inside MS4 service area	Private	Yes	Both
PASS	752528	ARLCO-2023-00558878	22-0133X	4/13/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.857864	-77.063572	Inside MS4 service area	Private	Yes	Both
PASS	752529	ARLCO-2023-00558879	22-0134A	5/10/2023	BB1	Bioretention	Area Treated	ACRE	0.0138	0.0138	0.00115	BIORETENTION #1	ARLINGTON	PL24	38.915512	-77.122533	Inside MS4 service area	Private	Yes	Both
PASS	752530	ARLCO-2023-00558880	22-0134B	5/10/2023	BB1	Bioretention	Area Treated	ACRE	0.0068	0.0068	0.000566667	BIORETENTION #1	ARLINGTON	PL24	38.915617	-77.122612	Inside MS4 service area	Private	Yes	Both
PASS	752531	ARLCO-2023-00558881	22-0134C	5/10/2023	BB1	Bioretention	Area Treated	ACRE	0.0159	0.0159	0.001325	BIORETENTION #1	ARLINGTON	PL24	38.915443	-77.122742	Inside MS4 service area	Private	Yes	Both
PASS	752532	ARLCO-2023-00558882	22-0134D	5/10/2023	BB1	Bioretention	Area Treated	ACRE	0.0156	0.0156	0.0013	BIORETENTION #1	ARLINGTON	PL24	38.915562	-77.122781	Inside MS4 service area	Private	Yes	Both
PASS	752533	ARLCO-2023-00558883	22-0139B	5/31/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.891728	-77.168899	Inside MS4 service area	Private	Yes	Both
PASS	752534	ARLCO-2023-00558884	22-0139C	5/31/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.891630	-77.168751	Inside MS4 service area	Private	Yes	Both
PASS	752535	ARLCO-2023-00558885	22-0139D	5/31/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.891597	-77.168789	Inside MS4 service area	Private	Yes	Both
PASS	752536	ARLCO-2023-00558886	22-0148S	6/28/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.897210	-77.164706	Inside MS4 service area	Private	Yes	Both
PASS	752537	ARLCO-2023-00558887	22-0148T	6/28/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.897288	-77.164924	Inside MS4 service area	Private	Yes	Both
PASS	752538	ARLCO-2023-00558888	22-0148U	6/28/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.897199	-77.164920	Inside MS4 service area	Private	Yes	Both
PASS	752539	ARLCO-2023-00558889	22-0153A	5/25/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL24	38.889156	-77.114014	Outside MS4 service area	Private	Yes	Both
PASS	752540	ARLCO-2023-00558890	22-0164A	6/22/2023	BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.862556	-77.096952	Inside MS4 service area	Private	Yes	Both
PASS	752541	ARLCO-2023-00558891	22-0164B	6/22/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.862505	-77.097140	Inside MS4 service area	Private	Yes	Both
PASS	752542	ARLCO-2023-00558892	22-0165A	6/7/2023	BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.876548	-77.100968	Inside MS4 service area	Private	Yes	Both
PASS	752543	ARLCO-2023-00558893	22-0195A	11/3/2022	BB1	Bioretention	Area Treated	ACRE	0.004	0.004	0.000333333	BIORETENTION #1	ARLINGTON	PL24	38.906388	-77.144927	Inside MS4 service area	Private	Yes	Both
PASS	752544	ARLCO-2023-00558894	18-0249M	10/5/2022	BB2	Bioretention	Area Treated	ACRE	0.0447	0.0447	0.004465625	BIORETENTION 2	ARLINGTON	PL25	38.848350	-77.083438	Inside MS4 service area	Private	Yes	Both
PASS	752545	ARLCO-2023-00558895	20-0184A	10/7/2022	BB2	Bioretention	Area Treated	ACRE	0.08	0.05	0.008333333	BIORETENTION 2	ARLINGTON	PL24	38.911598	-77.132211	Inside MS4 service area	Private	Yes	Both
PASS	752546	ARLCO-2023-00558896	18-0212B	12/21/2022	BDS2	Dry Swale	Contributing Area	ACRE	0.11	0.03	0.010083333	DRY SWALE #2	ARLINGTON	PL25	38.848187	-77.084279	Inside MS4 service area	Public	Yes	Both
PASS	752547	ARLCO-2023-00558897	18-0285B	12/20/2022	BFP2	Filtering Practices	Area Treated	ACRE	0.01	0.01	0.000916667	INFILTRATION #2	ARLINGTON	PL24	38.914807	-77.130212	Inside MS4 service area	Private	Yes	Both
PASS	752548	ARLCO-2023-00558898	18-0285C	12/20/2022	BFP2	Filtering Practices	Area Treated	ACRE	0.01	0.01	0.000916667	INFILTRATION #2	ARLINGTON	PL24	38.914829	-77.130142	Inside MS4 service area	Private	Yes	Both
PASS	752549	ARLCO-2023-00558899	18-0285D	12/20/2022		Proprietary Stormwater	Area Treated	ACRE	0.01	0.01	0.000916667	INFILTRATION #2	ARLINGTON	PL24	38.914863	-77.129999	Inside MS4 service area	Private	Yes	Both
PASS	752550	ARLCO-2023-00558900	17-0289C	7/8/2022		Proprietary Stormwater	Area Treated	ACRE	0.2	0.18	0.01666667	MANUFACTURED BMP	ARLINGTON	PL24	38.899877	-77.083048	Outside MS4 service area	Public	Yes	Both
PASS	752551	ARLCO-2023-00558901	19-0020C	5/2/2023		Proprietary Stormwater	Area Treated	ACRE	0.3	0.3	0.025	MANUFACTURED BMP	ARLINGTON	PL25	38.882442	-77.155547	Outside MS4 service area	Public	Yes	Both
PASS	752552	ARLCO-2023-00558902	20-0146A	3/1/2023		Proprietary Stormwater	Area Treated	ACRE	1.84	1.84	0.153333333	MANUFACTURED BMP	ARLINGTON	PL25	38.856592	-77.077530	Outside MS4 service area	Public	Yes	Both
PASS	752553	ARLCO-2023-00558903	20-0181A	1/4/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.2	0.2	0.01666667	MANUFACTURED BMP	ARLINGTON	PL25	38.847074	-77.054258	Inside MS4 service area	Public	Yes	Both
PASS	752554	ARLCO-2023-00558904	14-1860	9/28/2022	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.853639	-77.051937	Inside MS4 service area	Private	Yes	Both
PASS	752555	ARLCO-2023-00558905	15-2157B	7/5/2022	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.05	0.05	0.00416667	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.910153	-77.139761	Inside MS4 service area	Private	Yes	Both
PASS	752556	ARLCO-2023-00558906	17-0070F	3/21/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0074	0.0074	0.000616667	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.863739	-77.072520	Inside MS4 service area	Private	Yes	Both
PASS	752557	ARLCO-2023-00558907	17-0070G	3/21/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.863836	-77.072572	Inside MS4 service area	Private	Yes	Both
PASS	752558	ARLCO-2023-00558908	17-0289A	7/8/2022	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.22	0.22	0.018333333	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.899816	-77.082726	Outside MS4 service area	Public	Yes	Both
PASS	752559	ARLCO-2023-00558909	18-0285A	12/20/2022	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.07	0.07	0.005833333	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.915005	-77.130410	Inside MS4 service area	Private	Yes	Both
PASS	752560	ARLCO-2023-00558910	19-0020A	5/2/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.03	0.03	0.0025	PERMEABLE PAVEMENT #1	ARLINGTON	PL25	38.883257	-77.157661	Outside MS4 service area	Public	Yes	Both
PASS	752561	ARLCO-2023-00558911	19-0020B	5/2/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.02	0.02	0.00166667	PERMEABLE PAVEMENT #1	ARLINGTON							

PASS	752581	ARLCO-2023-00558931	21-0251D	10/21/2022	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0121	0.0121	0.001008333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.885690	-77.151960	Inside MS4 service area	Private	Yes	Both
PASS	752582	ARLCO-2023-00558932	21-0294C	1/9/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0074	0.0074	0.000616667	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.892115	-77.124944	Inside MS4 service area	Private	Yes	Both
PASS	752583	ARLCO-2023-00558933	21-0298E	4/25/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.886004	-77.114295	Outside MS4 service area	Private	Yes	Both
PASS	752584	ARLCO-2023-00558934	21-0299E	2/1/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.883070	-77.097203	Inside MS4 service area	Private	Yes	Both
PASS	752585	ARLCO-2023-00558935	21-0318F	12/22/2022	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.890926	-77.124644	Inside MS4 service area	Private	Yes	Both
PASS	752586	ARLCO-2023-00558936	21-0331C	3/7/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.908314	-77.137795	Outside MS4 service area	Private	Yes	Both
PASS	752587	ARLCO-2023-00558937	21-0341B	3/13/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.890531	-77.114985	Outside MS4 service area	Private	Yes	Both
PASS	752588	ARLCO-2023-00558938	21-0358S	6/22/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.02	0.02	0.001666667	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.848553	-77.063802	Inside MS4 service area	Private	Yes	Both
PASS	752589	ARLCO-2023-00558939	21-0358X	6/22/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.848605	-77.064075	Inside MS4 service area	Private	Yes	Both
PASS	752590	ARLCO-2023-00558940	22-0013D	3/2/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.893062	-77.136367	Outside MS4 service area	Private	Yes	Both
PASS	752591	ARLCO-2023-00558941	22-0014C	6/7/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0023	0.0023	0.000191667	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.892454	-77.088931	Inside MS4 service area	Private	Yes	Both
PASS	752592	ARLCO-2023-00558942	22-0014D	6/7/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0065	0.0065	0.000541667	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.892493	-77.088879	Inside MS4 service area	Private	Yes	Both
PASS	752593	ARLCO-2023-00558943	22-0014E	6/7/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0038	0.0038	0.000316667	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.892489	-77.089120	Inside MS4 service area	Private	Yes	Both
PASS	752594	ARLCO-2023-00558944	22-0014F	6/7/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0041	0.0041	0.000341667	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.892560	-77.089053	Inside MS4 service area	Private	Yes	Both
PASS	752595	ARLCO-2023-00558945	22-0014G	6/7/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0044	0.0044	0.000366667	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.892562	-77.088943	Inside MS4 service area	Private	Yes	Both
PASS	752596	ARLCO-2023-00558946	22-0015E	3/24/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0093	0.0093	0.000775	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.896343	-77.150786	Inside MS4 service area	Private	Yes	Both
PASS	752597	ARLCO-2023-00558947	22-0024D	4/13/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.007	0.007	0.000583333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.882442	-77.129997	Outside MS4 service area	Private	Yes	Both
PASS	752598	ARLCO-2023-00558948	22-0030Z	6/27/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.904194	-77.148257	Inside MS4 service area	Private	Yes	Both
PASS	752599	ARLCO-2023-00558949	22-0052S	5/22/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0077	0.0077	0.000641667	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.904459	-77.144967	Outside MS4 service area	Private	Yes	Both
PASS	752600	ARLCO-2023-00558950	22-0053G	3/14/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.02	0.02	0.001666667	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.919951	-77.114651	Outside MS4 service area	Private	Yes	Both
PASS	752601	ARLCO-2023-00558951	22-0057C	4/13/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.03	0.03	0.00025	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.896027	-77.151953	Outside MS4 service area	Private	Yes	Both
PASS	752602	ARLCO-2023-00558952	22-0097Y	6/21/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0093	0.0093	0.000775	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.885786	-77.130115	Inside MS4 service area	Private	Yes	Both
PASS	752603	ARLCO-2023-00558953	22-0100W	5/30/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0097	0.0097	0.000808333	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.899707	-77.134137	Inside MS4 service area	Private	Yes	Both
PASS	752604	ARLCO-2023-00558954	22-0115U	4/10/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.879730	-77.151822	Outside MS4 service area	Private	Yes	Both
PASS	752605	ARLCO-2023-00558955	22-0133C	4/13/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0072	0.0072	0.0006	PERMEABLE PAVEMENT #	ARLINGTON	PL24	38.857803	-77.063603	Inside MS4 service area	Private	Yes	Both
PASS	752606	ARLCO-2023-00558956	22-0164C	6/22/2023	BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.862495	-77.096816	Inside MS4 service area	Private	Yes	Both
PASS	752607	ARLCO-2023-00558957	16-0119D	12/8/2022	BPP2	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000833333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.874585	-77.102768	Inside MS4 service area	Private	Yes	Both
PASS	752608	ARLCO-2023-00558958	20-0130B	3/8/2023	BPP2	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0095	0.0095	0.000708333	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.872006	-77.138598	Outside MS4 service area	Private	Yes	Both
PASS	752609	ARLCO-2023-00558959	20-0130C	3/8/2023	BPP2	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0011	0.0011	0.000100833	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.871984	-77.138643	Outside MS4 service area	Private	Yes	Both
PASS	752610	ARLCO-2023-00558960	21-0292A	1/10/2023	BPP2	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.01	0.01	0.000916667	PERMEABLE PAVEMENT #	ARLINGTON	PL25	38.885028	-77.147900	Inside MS4 service area	Private	Yes	Both
PASS	752611	ARLCO-2023-00558961	20-0062A	2/27/2023	BVR1	Green Roofs	Area Treated	ACRE	0.04	0.04	0.003333333	VEGETATED ROOF #1	ARLINGTON	PL24	38.889694	-77.081018	Outside MS4 service area	Private	Yes	Both
PASS	752612	ARLCO-2023-00558962	20-0062B	2/27/2023	BVR1	Green Roofs	Area Treated	ACRE	0.04	0.04	0.003333333	VEGETATED ROOF #1	ARLINGTON	PL24	38.889695	-77.080811	Outside MS4 service area	Private	Yes	Both
PASS	752613	ARLCO-2023-00558963	20-0062C	2/27/2023	BVR1	Green Roofs	Area Treated	ACRE	0.13	0.13	0.010833333	VEGETATED ROOF #1	ARLINGTON	PL24	38.889383	-77.080788	Outside MS4 service area	Private	Yes	Both
PASS	752614	ARLCO-2023-00558964	20-0062D	2/27/2023	BVR1	Green Roofs	Area Treated	ACRE	0.03	0.03	0.0025	VEGETATED ROOF #1	ARLINGTON	PL24	38.889484	-77.080935	Outside MS4 service area	Private	Yes	Both
PASS	752615	ARLCO-2023-00558965	20-0062E	2/27/2023	BVR1	Green Roofs	Area Treated	ACRE	0.05	0.05	0.004166667	VEGETATED ROOF #1	ARLINGTON	PL24	38.889332	-77.081221	Outside MS4 service area	Private	Yes	Both
PASS	752616	ARLCO-2023-00558966	17-0190A	5/2/2023	BVR2	Green Roofs	Area Treated	ACRE	0.0026	0.0026	0.000238333	VEGETATED ROOF #2	ARLINGTON	PL24	38.891536	-77.081946	Inside MS4 service area	Private	Yes	Both
PASS	752617	ARLCO-2023-00558967	17-0190B	5/2/2023	BVR2	Green Roofs	Area Treated	ACRE	0.0017	0.0017	0.000155833	VEGETATED ROOF #2	ARLINGTON	PL24	38.891526	-77.082078	Inside MS4 service area	Private	Yes	Both
PASS	752618	ARLCO-2023-00558968	17-0190C	5/2/2023	BVR2	Green Roofs	Area Treated	ACRE	0.0065	0.0065	0.000595833	VEGETATED ROOF #2	ARLINGTON	PL24	38.891450	-77.081722	Inside MS4 service area	Private	Yes	Both
PASS	752619	ARLCO-2023-00558969	17-0190D	5/2/2023	BVR2	Green Roofs	Area Treated	ACRE	0.0028	0.0028	0.000256667	VEGETATED ROOF #2	ARLINGTON	PL24	38.891319	-77.082067	Inside MS4 service area	Private	Yes	Both
PASS	752620	ARLCO-2023-00558970	18-0211C	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.03	0.03	0.00275	VEGETATED ROOF #2	ARLINGTON	PL24	38.887194	-77.097882	Inside MS4 service area	Private	Yes	Both
PASS	752621	ARLCO-2023-00558971	18-0211D	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.07	0.07	0.006416667	VEGETATED ROOF #2	ARLINGTON	PL24	38.887123	-77.097792	Inside MS4 service area	Private	Yes	Both
PASS	752622	ARLCO-2023-00558972	18-0211E	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.02	0.02	0.001833333	VEGETATED ROOF #2	ARLINGTON	PL24	38.887297	-77.097736	Inside MS4 service area	Private	Yes	Both
PASS	752623	ARLCO-2023-00558973	18-0211J	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.0066	0.0066	0.000605	VEGETATED ROOF #2	ARLINGTON	PL24	38.887412	-77.097676	Inside MS4 service area	Private	Yes	Both
PASS	752624	ARLCO-2023-00558974	18-0211K	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.009	0.009	0.000825	VEGETATED ROOF #2	ARLINGTON	PL24	38.887433	-77.097318	Inside MS4 service area	Private	Yes	Both
PASS	752625	ARLCO-2023-00558975	18-0211N	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.03	0.03	0.00275	VEGETATED ROOF #2	ARLINGTON	PL24	38.886855	-77.096981	Inside MS4 service area	Private	Yes	Both
PASS	752626	ARLCO-2023-00558976	18-0211S	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.06	0.06	0.0055	VEGETATED ROOF #2	ARLINGTON	PL24	38.886924	-77.097446	Inside MS4 service area	Private	Yes	Both
PASS	752627	ARLCO-2023-00558977	18-0211T	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.06	0.06	0.0055	VEGETATED ROOF #2	ARLINGTON	PL24	38.887180	-77.097091	Inside MS4 service area	Private	Yes	Both
PASS	752628	ARLCO-2023-00558978	18-0211U	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.01	0.01	0.000916667	VEGETATED ROOF #2	ARLINGTON	PL24	38.886810	-77.097360	Inside MS4 service area	Private	Yes	Both
PASS	752629	ARLCO-2023-00558979	18-0211V	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.01	0.01	0.000916667	VEGETATED ROOF #2	ARLINGTON	PL24	38.886737	-77.097306	Inside MS4 service area	Private	Yes	Both
PASS	752630	ARLCO-2023-00558980	18-0211W	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.0014	0.0014	0.000128333	VEGETATED ROOF #2	ARLINGTON	PL24	38.887030	-77.097045	Inside MS4 service area	Private	Yes	Both
PASS	752631	ARLCO-2023-00558981	18-0211X	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.0033	0.0033	0.0003025	VEGETATED ROOF #2	ARLINGTON	PL24	38.887066	-77.097000	Inside MS4 service area	Private	Yes	Both
PASS	752632	ARLCO-2023-00558982	18-0211Y	12/14/2022	BVR2	Green Roofs	Area Treated	ACRE	0.0039	0.0039	0.0003575	VEGETATED ROOF #2	ARLINGTON	PL24	38.887007	-77.097003	Inside MS4 service area	Private	Yes	Both
PASS	752633	ARLCO-2023-00558983	18-0260A	7/12/2022	BVR2	Green Roofs	Area Treated	ACRE	0.15	0.15	0.01375	VEGETATED ROOF #2	ARLINGTON	PL24	38.858710	-77.049812	Inside MS4 service area	Private	Yes	Both
PASS	752634	ARLCO-2023-00558984	18-0260B	7/12/2022	BVR2	Green Roofs	Area Treated	ACRE	0.08	0.08	0.007333333	VEGETATED ROOF #2	ARLINGTON	PL24	38.858946	-77.049828	Inside MS4 service area	Private	Yes	Both
PASS	752635	ARLCO-2023-00558985	18-0260C	7/12/2022	BVR2	Green Roofs	Area Treated	ACRE	0.12	0.12	0.011	VEGETATED ROOF #2	ARLINGTON	PL24	38.858690	-77.049487	Inside MS4 service area	Private	Yes	Both
PASS	752636	ARLCO-2023-00558986	18-0260D	7/12/2022	BVR2	Green Roofs	Area Treated	ACRE	0.09	0.09	0.									

PASS	752657	ARLCO-2023-00559006	21-0251C	10/21/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.0017	BIORETENTION #1	ARLINGTON	PL25	38.885733	-77.151696	Inside MS4 service area	Private	Yes	Both
PASS	752658	ARLCO-2023-00559007	21-0261B	11/1/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.0008	BIORETENTION #1	ARLINGTON	PL25	38.882882	-77.142533	Inside MS4 service area	Private	Yes	Both
PASS	752659	ARLCO-2023-00559008	21-0262D	12/2/2022		BB1	Bioretention	Area Treated	ACRE	0.0257	0.0257	0.0021	BIORETENTION #1	ARLINGTON	PL24	38.894275	-77.113481	Inside MS4 service area	Private	Yes	Both
PASS	752660	ARLCO-2023-00558747	21-0290B	2/16/2023		BB1	Bioretention	Area Treated	ACRE	0.2118	0.1496	0.0176	BIORETENTION #1	ARLINGTON	PL24	38.906653	-77.137526	Inside MS4 service area	Private	Yes	Both
PASS	752661	ARLCO-2023-00559010	21-0296C	5/1/2023		BB1	Bioretention	Area Treated	ACRE	0.0584	0.0584	0.0049	BIORETENTION #1	ARLINGTON	PL24	38.909675	-77.143949	Inside MS4 service area	Private	Yes	Both
PASS	752662	ARLCO-2022-00559027	21-0007B	2/11/2022		BB1	Bioretention	Area Treated	ACRE	0.2702	0.208	0.0022	BIORETENTION #1	ARLINGTON	PL24	38.917024	-77.134561	Inside MS4 service area	Private	Yes	Both
PASS	752663	ARLCO-2023-00559011	21-0168C	10/6/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00166667	BIORETENTION #1	ARLINGTON	PL25	38.910218	-77.133904	Inside MS4 service area	Private	Yes	Both
PASS	752664	ARLCO-2023-00559012	21-0134B	2/28/2023		BB1	Bioretention	Area Treated	ACRE	0.05	0.05	0.00416667	BIORETENTION #1	ARLINGTON	PL25	38.852320	-77.064947	Inside MS4 service area	Private	Yes	Both
PASS	752665	ARLCO-2023-00559013	21-0303A	3/23/2023		BB1	Bioretention	Area Treated	ACRE	0.32	0.32	0.02666667	BIORETENTION #1	ARLINGTON	PL24	38.918821	-77.113310	Inside MS4 service area	Private	Yes	Both
PASS	752666	ARLCO-2023-00559014	21-0196H	5/31/2023		BB2	Bioretention	Area Treated	ACRE	0.123	0.123	0.0119	BIORETENTION 2	ARLINGTON	PL24	38.912307	-77.131714	Inside MS4 service area	Private	Yes	Both
PASS	752667	ARLCO-2023-00559015	18-0249K	10/5/2022			Proprietary Stormwater	Area Treated	ACRE	0.08	0.08	0.0066	MANUFACTURED BMP	ARLINGTON	PL25	38.848010	-77.083283	Inside MS4 service area	Private	Yes	Both
PASS	752668	ARLCO-2023-00559016	17-0190I	5/2/2023		BVR2	Green Roofs	Area Treated	ACRE	0.2568	0.2568	0.0215	VEGETATED ROOF #2	ARLINGTON	PL24	38.891496	-77.082009	Inside MS4 service area	Private	Yes	Both
PASS	683718	ARLCO-2022-00490010	20-0068A	1/13/2022		BB1	Bioretention	Area Treated	ACRE	0.0059	0.0059	0.00049	BIORETENTION #1	ARLINGTON	PL24	38.904890	-77.155098	Inside MS4 service area	Private	Yes	Both
PASS	683696	ARLCO-2022-00489988	19-0183B	3/9/2022		BB1	Bioretention	Area Treated	ACRE	0.07	0.07	0.00583	BIORETENTION #1	ARLINGTON	PL24	38.915966	-77.142977	Inside MS4 service area	Private	Yes	Both
PASS	683708	ARLCO-2022-00490000	20-0013B	1/20/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL25	38.924925	-77.129877	Inside MS4 service area	Private	Yes	Both
PASS	683887	ARLCO-2022-00490179	20-0271G	12/1/2021		BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.00250	BIORETENTION #1	ARLINGTON	PL24	38.904869	-77.107772	Inside MS4 service area	Private	Yes	Both
PASS	683646	ARLCO-2022-00489939	18-0033B	8/27/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL24	38.894360	-77.089918	Inside MS4 service area	Private	Yes	Both
PASS	683926	ARLCO-2022-00490218	21-0047A	3/7/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00167	BIORETENTION #1	ARLINGTON	PL25	38.890356	-77.138405	Inside MS4 service area	Private	Yes	Both
PASS	683615	ARLCO-2022-00489909	16-0163D	12/30/2021		BB1	Bioretention	Area Treated	ACRE	0.0044	0.0044	0.00037	BIORETENTION #1	ARLINGTON	PL25	38.886107	-77.146718	Inside MS4 service area	Private	Yes	Both
PASS	683613	ARLCO-2022-00489907	16-0163B	12/30/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL25	38.886306	-77.146878	Inside MS4 service area	Private	Yes	Both
PASS	683707	ARLCO-2022-00489999	20-0013A	1/20/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00167	BIORETENTION #1	ARLINGTON	PL25	38.924796	-77.129884	Inside MS4 service area	Private	Yes	Both
PASS	683749	ARLCO-2022-00490041	20-0113A	11/22/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL24	38.863029	-77.070760	Inside MS4 service area	Private	Yes	Both
PASS	683681	ARLCO-2022-00489974	19-0107B	7/2/2021		BB1	Bioretention	Area Treated	ACRE	0.0046	0.0046	0.00038	BIORETENTION #1	ARLINGTON	PL24	38.915831	-77.140900	Inside MS4 service area	Private	Yes	Both
PASS	683674	ARLCO-2022-00489967	19-0083A	5/3/2022		BB1	Bioretention	Area Treated	ACRE	0.001	0.001	0.00008	BIORETENTION #1	ARLINGTON	PL25	38.892244	-77.167788	Inside MS4 service area	Private	Yes	Both
PASS	683689	ARLCO-2022-00489982	19-0150A	12/3/2021		BB1	Bioretention	Area Treated	ACRE	0.03	0.03	0.00250	BIORETENTION #1	ARLINGTON	PL25	38.872344	-77.088810	Inside MS4 service area	Private	Yes	Both
PASS	683738	ARLCO-2022-00490030	20-0081D	3/10/2022		BB1	Bioretention	Area Treated	ACRE	0.0035	0.0035	0.00029	BIORETENTION #1	ARLINGTON	PL24	38.915903	-77.137718	Inside MS4 service area	Private	Yes	Both
PASS	683641	ARLCO-2022-00489934	17-0256B	5/23/2022		BB1	Bioretention	Area Treated	ACRE	0.0087	0.0087	0.00073	BIORETENTION #1	ARLINGTON	PL24	38.892765	-77.109269	Inside MS4 service area	Private	Yes	Both
PASS	683723	ARLCO-2022-00490015	20-0069B	9/27/2021		BB1	Bioretention	Area Treated	ACRE	0.0092	0.0092	0.00077	BIORETENTION #1	ARLINGTON	PL25	38.899289	-77.160831	Inside MS4 service area	Private	Yes	Both
PASS	683706	ARLCO-2022-00489998	20-0009A	10/25/2021		BB1	Bioretention	Area Treated	ACRE	0.05	0.05	0.00417	BIORETENTION #1	ARLINGTON	PL24	38.908998	-77.103342	Inside MS4 service area	Private	Yes	Both
PASS	683741	ARLCO-2022-00490033	20-0088B	8/11/2021		BB1	Bioretention	Area Treated	ACRE	0.006	0.006	0.00050	BIORETENTION #1	ARLINGTON	PL24	38.894087	-77.106622	Inside MS4 service area	Private	Yes	Both
PASS	683736	ARLCO-2022-00490028	20-0081B	3/10/2022		BB1	Bioretention	Area Treated	ACRE	0.0067	0.0067	0.00056	BIORETENTION #1	ARLINGTON	PL24	38.915976	-77.137788	Inside MS4 service area	Private	Yes	Both
PASS	683700	ARLCO-2022-00489992	19-0237A	2/9/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL25	38.891161	-77.130994	Inside MS4 service area	Private	Yes	Both
PASS	683652	ARLCO-2022-00489945	18-0141C	8/11/2021		BB1	Bioretention	Area Treated	ACRE	0.0088	0.0088	0.00073	BIORETENTION #1	ARLINGTON	PL24	38.893932	-77.097599	Inside MS4 service area	Private	Yes	Both
PASS	683710	ARLCO-2022-00490002	20-0017A	7/26/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL24	38.883052	-77.088970	Inside MS4 service area	Private	Yes	Both
PASS	683714	ARLCO-2022-00490006	20-0046B	7/14/2021		BB1	Bioretention	Area Treated	ACRE	0.0078	0.0078	0.00065	BIORETENTION #1	ARLINGTON	PL24	38.907802	-77.147305	Inside MS4 service area	Private	Yes	Both
PASS	683669	ARLCO-2022-00489962	19-0005B	10/6/2021		BB1	Bioretention	Area Treated	ACRE	0.00925	0.00925	0.00077	BIORETENTION #1	ARLINGTON	PL25	38.853707	-77.094504	Inside MS4 service area	Private	Yes	Both
PASS	683886	ARLCO-2022-00490178	20-0271F	12/1/2021		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00167	BIORETENTION #1	ARLINGTON	PL24	38.904874	-77.107791	Inside MS4 service area	Private	Yes	Both
PASS	683614	ARLCO-2022-00489908	16-0163C	12/30/2021		BB1	Bioretention	Area Treated	ACRE	0.0044	0.0044	0.00037	BIORETENTION #1	ARLINGTON	PL25	38.886195	-77.146740	Inside MS4 service area	Private	Yes	Both
PASS	683721	ARLCO-2022-00490013	20-0068D	1/13/2022		BB1	Bioretention	Area Treated	ACRE	0.0049	0.0049	0.00041	BIORETENTION #1	ARLINGTON	PL24	38.904932	-77.155252	Inside MS4 service area	Private	Yes	Both
PASS	683927	ARLCO-2022-00490219	21-0047B	3/7/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00167	BIORETENTION #1	ARLINGTON	PL25	38.890451	-77.138450	Inside MS4 service area	Private	Yes	Both
PASS	683702	ARLCO-2022-00489994	19-0237C	2/9/2022		BB1	Bioretention	Area Treated	ACRE	0.0065	0.0065	0.00054	BIORETENTION #1	ARLINGTON	PL25	38.891062	-77.130907	Inside MS4 service area	Private	Yes	Both
PASS	684005	ARLCO-2022-00490297	21-0227B	6/28/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL25	38.875047	-77.128735	Inside MS4 service area	Private	Yes	Both
PASS	683616	ARLCO-2022-00489910	16-0163E	12/30/2021		BB1	Bioretention	Area Treated	ACRE	0.0044	0.0044	0.00037	BIORETENTION #1	ARLINGTON	PL25	38.886092	-77.146777	Inside MS4 service area	Private	Yes	Both
PASS	683677	ARLCO-2022-00489970	19-0095A	8/16/2021		BB1	Bioretention	Area Treated	ACRE	0.0093	0.0093	0.00078	BIORETENTION #1	ARLINGTON	PL24	38.889754	-77.096520	Inside MS4 service area	Private	Yes	Both
PASS	683653	ARLCO-2022-00489946	18-0141D	8/11/2021		BB1	Bioretention	Area Treated	ACRE	0.0045	0.0045	0.00038	BIORETENTION #1	ARLINGTON	PL24	38.893976	-77.097447	Inside MS4 service area	Private	Yes	Both
PASS	683651	ARLCO-2022-00489944	18-0141B	8/11/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL24	38.894042	-77.097511	Inside MS4 service area	Private	Yes	Both
PASS	683668	ARLCO-2022-00489961	19-0005A	10/6/2021		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.00083	BIORETENTION #1	ARLINGTON	PL25	38.853664	-77.094670	Inside MS4 service area	Private	Yes	Both
PASS	683699	ARLCO-2022-00489991	19-0227A	7/28/2021		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00167	BIORETENTION #1	ARLINGTON	PL24	38.920322	-77.122177	Inside MS4 service area	Private	Yes	Both
PASS	683748	ARLCO-2022-00490040	20-0109A	8/5/2021		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00167	BIORETENTION #1	ARLINGTON	PL25	38.889106	-77.123226	Inside MS4 service area	Private	Yes	Both
PASS	683666	ARLCO-2022-00489959	18-0307A	4/27/2022		BB1	Bioretention	Area Treated	ACRE	0.02	0.02	0.00167	BIORETENTION #1	ARLINGTON	PL24	38.904340	-77.115673	Inside MS4 service area	Private	Yes	Both
PASS	683663	ARLCO-2022-00489956	18-0275C	3/4/2022			Proprietary Stormwater	Area Treated	ACRE	0.1956	0.1878	0.01630	MANUFACTURED BMP	ARLINGTON	PL24	38.897802	-77.087496	Inside MS4 service area	Private	Yes	Both
PASS	683664	ARLCO-2022-00489957	18-0275D	3/4/2022			Proprietary Stormwater	Area Treated	ACRE	0.02	0.01	0.00167	MANUFACTURED BMP	ARLINGTON	PL24	38.897493	-77.087363	Inside MS4 service area	Private	Yes	Both
PASS	683660	ARLCO-2022-00489953	18-0269A	12/13/2021		BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.04	0.04	0.00333	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.896611	-77.136935	Inside MS4 service area	Private	Yes	Both
PASS	683662	ARLCO-2022-00489955	18-0275B	3/4/2022		BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0461	0.0461	0.00384	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.897752	-77.087827	Inside MS4 service area	Private	Yes	Both
PASS	683617	ARLCO-2022-00489911	16-0245A	4/7/2022		BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0098	0.0098	0.00082	PERMEABLE PAVEMENT #1	ARLINGTON	PL24	38.900691	-77.117401	Inside MS4 service area	Private	Yes	Both
PASS	683690	ARLCO-2022-00489983	19-0150B	12/3/2021		BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0083	0.0083	0.00069	PERMEABLE PAVEMENT #1	ARLINGTON	PL25	38.872297	-77.088750	Inside MS4 service area	Private	Yes	Both
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PASS	683574	ARLCO-2022-00489868	15-1987F	7/1/2021		BVR2	Green Roofs	Area Treated	ACRE	0.01	0.01	0.00092	VEGETATED ROOF #2	ARLINGTON	PL24	38.864586	-77.053317	Inside MS4 service area	Private	Yes	Both
PASS	683570	ARLCO-2022-00489864	15-1987B	7/1/2021		BVR2	Green Roofs	Area Treated	ACRE	0.001	0.001	0.00009	VEGETATED ROOF #2	ARLINGTON	PL24	38.864562	-77.053390	Inside MS4 service area	Private	Yes	Both
PASS	683599	ARLCO-2022-00489893	16-0020F	1/18/2022		BVR2	Green Roofs	Area Treated	ACRE	0.0033	0.0033	0.00030	VEGETATED ROOF #2	ARLINGTON	PL24	38.879054	-77.109534	Inside MS4 service area	Private	Yes	Both
PASS	683576	ARLCO-2022-00489870	15-1987H	7/1/2021		BVR2	Green Roofs	Area Treated	ACRE	0.0008	0.0008	0.00007	VEGETATED ROOF #2	ARLINGTON	PL24	38.863885	-77.053414	Inside MS4 service area	Private	Yes	Both
PASS	683579	ARLCO-2022-00489873	15-1987K	7/1/2021		BVR2	Green Roofs	Area Treated	ACRE	0.0008	0.0008	0.00007	VEGETATED ROOF #2	ARLINGTON	PL24	38.864158	-77.053858	Inside MS4 service area	Private	Yes	Both
PASS	683572	ARLCO-2022-00489866	15-1987D	7/1/2021		BVR2	Green Roofs	Area Treated	ACRE	0.006	0.006	0.00055	VEGETATED ROOF #2	ARLINGTON	PL24	38.864530	-77.053144	Inside MS4 service area	Private	Yes	Both
PASS	683602	ARLCO-2022-00489896	16-0020I	1/18/2022		BVR2	Green Roofs	Area Treated	ACRE	0.0006	0.0006	0.00006	VEGETATED ROOF #2	ARLINGTON	PL24	38.879342	-77.109335	Inside MS4 service area	Private	Yes	Both
PASS	683595	ARLCO-2022-00489889	16-0020B	1/18/2022		BVR2	Green Roofs	Area Treated	ACRE	0.0058	0.0058	0.00053	VEGETATED ROOF #2	ARLINGTON	PL24	38.879237	-77.109713	Inside MS4 service area	Private	Yes	Both
PASS	683573	ARLCO-2022-00489867	15-1987E	7/1/2021		BVR2	Green Roofs	Area Treated	ACRE	0.0028	0.0028	0.00026	VEGETATED ROOF #2	ARLINGTON	PL24	38.864514	-77.053085	Inside MS4 service area	Private	Yes	Both
PASS	683598	ARLCO-2022-00489892	16-0020E	1/18/2022		BVR2	Green Roofs	Area Treated	ACRE	0.0087	0.0087	0.00080	VEGETATED ROOF #2	ARLINGTON	PL24	38.879084	-77.109666	Inside MS4 service area	Private	Yes	Both
PASS	683580	ARLCO-2022-00489874	15-1987L	7/1/2021		BVR2	Green Roofs	Area Treated	ACRE	0.002	0.002	0.00018	VEGETATED ROOF #2	ARLINGTON	PL24	38.864236	-77.053838	Inside MS4 service area	Private	Yes	Both
PASS	752669	ARLCO-2023-00559017	19-0245	8/15/2022			Retrofit Stormwater Tre	Site Area	ACRE	0.81	0.29	0.02430	1 cell, 6" ponding, trench c	ARLINGTON	PL25	39.875500	-77.137360	Inside MS4 service area	Public	No	Both
PASS	752670	ARLCO-2023-00559018	21-0141A	12/28/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.884852	-77.150041	Inside MS4 service area	Private	Yes	Both
PASS	752671	ARLCO-2023-00559019	21-0141B	12/28/2022		BB1	Bioretention	Area Treated	ACRE	0.01	0.01	0.000833333	BIORETENTION #1	ARLINGTON	PL25	38.884830	-77.150098	Inside MS4 service area	Private	Yes	Both
PASS	752672	ARLCO-2023-00559020	21-0141C	12/28/2022		BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.0095	0.0095	0.000791667	Permeable Pavement #1	ARLINGTON	PL25	38.884828	-77.149909	Inside MS4 service area	Private	Yes	Both
PASS	752673	ARLCO-2019-00559028	12-1322B	9/14/2018		BPP1	Permeable Pavement	Permeable Pavement w/ Sa	ACRE	0.21	0.21	0.01	Porous Concrete	ARLINGTON	PL25	38.880740	-77.132660	Inside MS4 service area	Private	Yes	Both
PASS	752674	ARLCO-2023-00559021	18-0311A	6/27/2023			Retrofit Stormwater Tre	Site Area	ACRE	467.87	234.25	5.7	Ballston Pond	ARLINGTON	PL25	38.883380	-77.119160	Inside MS4 service area	Public	No	Both

Appendix AR23 FY23 Credit for Chesapeake Bay TMDL																									
Old Technical Criteria																									
RR practices																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed			TP	TN	TSS
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
GreenRoof	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.50	52%	45%	56%	0.0000	0.0000	0.0000	#DIV/0!	Drains to MS4	6.3239	71.7144	5770.9817
Pavers	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.50	52%	45%	56%	0.0000	0.0000	0.0000	#DIV/0!	Not Drains to MS4	1.9839	25.1063	1960.7708
Bioretention 1	No	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.50	52%	45%	56%	0.0000	0.0000	0.0000	#DIV/0!	In Series			
Bioretention 1	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.50	52%	45%	56%	0.0000	0.0000	0.0000	#DIV/0!	Drains to MS4	4.733626876	47.15025034	3404.837818
Bioretention 2	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	1.00	70%	60%	75%	0.0000	0.0000	0.0000	#DIV/0!	FY22 Correction Drains to MS4	0.354219892	-4.139000458	-319.0309764
Pavers	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.50	52%	45%	56%	0.0000	0.0000	0.0000	#DIV/0!	Not Drains to MS4	0.1162755	1.32074496	98.830125
Total																		0.0000	0.0000	0.0000		Land Use Change			
																							0	0	0
ST practices																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed			Totals:		
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
Manufactured-Filtering	Yes	0	0	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.50	41%	26%	52%	0.0000	0.0000	0.0000	#DIV/0!	Drains to MS4	11.4117	114.7256	8856.7886
																							2.1002	26.4270	2059.6009
New Technical Criteria																									
RR practices																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed					
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
Bioretention 1	Yes	4.6188	4.3039	6.9723	72.6	5041.2	0.3149	0.1	3.2	55.4	7.1	75.7	5096.6	1.00	55%	64%	75%	3.9058	48.4703	3817.8657	100.0%				
Bioretention 1	No	2.0379	1.7619	2.8543	29.7	2063.7	0.2760	0.1	2.8	48.5	3.0	32.5	2112.3	1.00	55%	64%	75%	1.6321	20.7904	1582.3011	100.0%				
Bioretention 2	No	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	1.25	90%	90%	79%	0.0000	0.0000	0.0000	#DIV/0!				
Bioretention 2	Yes	0.1247	0.0547	0.1134	1.2	82.0	0.0700	0.0	0.7	12.3	0.1	1.9	94.3	1.25	90%	90%	79%	0.1279	1.6966	74.4957	100.0%				
Dry Swale #2	Yes	0.1100	0.0300	0.0486	0.5	35.1	0.0800	0.0	0.8	14.1	0.1	1.3	49.2	1.10	76%	74%	79%	0.0619	0.9704	38.8708	100.0%				
Grass Channel A/B Soils	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	1.25	23%	28%	75%	0.0000	0.0000	0.0000	#DIV/0!				
Vegetated Roof #1	No	0.2900	0.2900	0.4698	4.9	339.7	0.0000	0.0	0.0	0.0	0.5	4.9	339.7	1.00	45%	45%	75%	0.2114	2.2002	254.7621	100.0%				
Vegetated Roof #2	Yes	0.7878	0.7878	1.2762	13.3	922.8	0.0000	0.0	0.0	0.0	1.3	13.3	922.8	1.10	60%	60%	75%	0.7657	7.9694	692.0744	100.0%				
Vegetated Roof #2	No	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	1.10	60%	60%	75%	0.0000	0.0000	0.0000	#DIV/0!				
Infiltration Trench	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	1.00	63%	59%	75%	0.0000	0.0000	0.0000	#DIV/0!				
Infiltration Trench #2	No	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	1.10	93%	92%	79%	0.0000	0.0000	0.0000	#DIV/0!				
Infiltration Trench #2	Yes	0.0300	0.0300	0.0486	0.5	35.1	0.0000	0.0	0.0	0.0	0.0	0.5	35.1	1.10	93%	92%	79%	0.0452	0.4653	27.7603	100.0%				
Pavers	Yes	0.5610	0.5610	0.9088	9.5	657.1	0.0000	0.0	0.0	0.0	0.9	9.5	657.1	1.00	59%	59%	75%	0.5362	5.5805	492.8329	100.0%				
Pavers	No	0.4569	0.4569	0.7402	7.7	535.2	0.0000	0.0	0.0	0.0	0.7	7.7	535.2	1.00	59%	59%	75%	0.4367	4.5450	401.3821	100.0%				
Pavers #2	No	0.0106	0.0106	0.0172	0.2	12.4	0.0000	0.0	0.0	0.0	0.0	0.2	12.4	1.10	81%	81%	79%	0.0139	0.1448	9.8086	100.0%				
Pavers #2	Yes	0.02	0.02	0.0324	0.3	23.4	0.0000	0.0	0.0	0.0	0.0	0.3	23.4	1.10	81%	81%	79%	0.0262	0.2731	18.5069	100.0%				
Total																		7.7630	93.1060	7410.6607					
ST practices																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed					
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
Manufactured-Filtering	Yes	0.0000	0.0000	0.0000	0.0	0.0	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	1.00	20%	0%	0%	0.0000	0.0000	0.0000	#DIV/0!				
Manufactured-Filtering	Yes	0.2000	0.2000	0.3240	3.4	234.3	0.0000	0.0	0.0	0.0	0.3	3.4	234.3	1.00	50%	0%	0%	0.1620	0.0000	0.0000	100.0%				
Manufactured-Filtering	No	2.3400	2.3200	3.7584	39.1	2717.5	0.0200	0.0	0.2	3.5	3.8	39.3	2721.0	1.00	50%	0%	0%	1.8833	0.0000	0.0000	100.0%				
08-1085C - Removed for National Safety																									
ST practices																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed					
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
Pavers	Yes	0.0660	0.0660	0.1069	1.1	77.3	0.0000	0.0	0.0	0.0	0.1	1.1	77.3	0.50	52%	45%	56%	0.0559	0.4988	43.2925	100.0%				
08-1085 and 08-1085B Removed for National safety																									
ST practices																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed					
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
Dry Swale	No	0.3200	0.0900	0.1458	1.5	105.4	0.2300	0.1	0.0	0.0	0.2	1.6	105.4	0.50	52%	45%	56%	0.1255	0.6975	59.0441	100.0%				
13-1506E Added as part of a revision and 13-1506B removed																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed					
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
Bioretention 1	Yes	0.0165	0.0165	0.0267	0.3	19.3	0.0000	0.0	0.0	0.0	0.0	0.3	19.3	0.50	52%	45%	56%	0.0140	0.1247	10.8231	100.0%				
Pavers	Yes	0.0062	0.0062	0.0100	0.1	7.3	0.0000	0.0	0.0	0.0	0.0	0.1	7.3	0.50	52%	45%	56%	0.0052	0.0469	4.0669	100.0%				
03-872E removed																									
		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to SWMF			REMOVAL RATES per			Total Loads removed					
SWMF Type	Drain To MS4	Total drainage area (ac)	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS					
GreenRoof	Yes	0.2066	0.2066	0.3347	3.5	242.0	0.0000	0.0	0.0	0.0	0.3	3.5	242.0	0.50	52%	45%	56%								

04-920B Removed																							
SWMF Type	Drain To MS4	Total drainage	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS			
Bioretention 1	Yes	0.7100	0.5892	0.9545	9.9	690.1	0.1208	0.0	0.0	0.0	1.0	10.0	690.2	0.50	52%	45%	56%	0.5248	4.4620	386.4884	100.0%		
20-0141A, B, & C not submitted in FY22 because of data entry error																							
SWMF Type	Drain To MS4	Total drainage	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS			
Bioretention 1	No	0.0100	0.0100	0.0162	0.2	11.7	0.0000	0.0	0.0	0.0	0.0	0.2	11.7	1.00	55%	64%	75%	0.0089	0.1079	8.7744	100.0%		
Bioretention 1	No	0.0100	0.0100	0.0162	0.2	11.7	0.0000	0.0	0.0	0.0	0.0	0.2	11.7	1.00	55%	64%	75%	0.0089	0.1079	8.7744	100.0%		
Bioretention 1	No	0.0100	0.0100	0.0162	0.2	11.7	0.0000	0.0	0.0	0.0	0.0	0.2	11.7	1.00	55%	64%	75%	0.0089	0.1079	8.7744	100.0%		
21-0011D not submitted in FY22 because of data entry error																							
SWMF Type	Drain To MS4	Total drainage	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS			
Bioretention 1	Yes	0.0044	0.0044	0.0071	0.1	5.2	0.0000	0.0	0.0	0.0	0.0	0.1	5.2	1.00	55%	64%	75%	0.0039	0.0475	3.8607	100.0%		
																		total	0.0039	0.0475	3.8607		
12-1364B Abandoned and Replace with 12-1364D & E																							
SWMF Type	Drain To MS4	Total drainage	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Runoff depth treated (in)	TP	TN	TSS	TP	TN	TSS			
Bioretention 1	No	0.0256	0.0256	0.0415	0.4	30.0	0.0000	0.0	0.0	0.0	0.0	0.4	30.0	0.50	52%	45%	56%	0.0217	0.1935	16.7922	100.0%		
Bioretention 1	No	0.0118	0.0118	0.0191	0.2	13.8	0.0000	0.0	0.0	0.0	0.0	0.2	13.8	0.50	52%	45%	56%	0.0100	0.0892	7.7402	100.0%		
Bioretention 1	No	0.0122	0.0122	0.0198	0.2	14.3	0.0000	0.0	0.0	0.0	0.0	0.2	14.3	0.50	52%	45%	56%	0.0103	0.0922	8.0025	100.0%		
																		-0.0014	-0.0121	-1.0495			

In Series FY23		Drains to MS4	IMPERVIOUS	LOADS (per DCR Potomac River)			PERVIOUS	LOADS (per DCR Potomac River)			TOTAL LOADS to BMP			REMOVAL RATES per adjustor			Total Loads removed			TP	TN	TSS		
Facility ID	BMPTType	Total drain	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Retrofit stc	Retrofit stc	Runoff deg	TP	TN	TSS	TP	TN	TSS	L drains to K	
18-0249K	MANUFACTURED BMP	Yes	0.08	0.08	0.130	1.35	93.71	0	0.00	0.00	0.00	0.130	1.349	93.706			1.00	20%	0%	0%	0.0259	0.0000	0.0000	0.006667
18-0249L	MANUFACTURED BMP	Yes	0	0	0.000	0.00	0.00	0	0.00	0.00	0.00	0.104	1.349	93.706			1.00	50%	0%	0%	0.0518	0.0000	0.0000	0.000000
			0.0800	0.0800			0.0000														0.0778	0.0000	0.0000	0.006667
17-0152A	BIORETENTION #1	No	0.04	0.04	0.065	0.67	46.85	0	0.00	0.00	0.00	0.065	0.674	46.853			1.00	55%	64%	75%	0.0356	0.4316	35.1396	0.003333
17-0152C	BIORETENTION #1	No	0	0	0.000	0.00	0.00	0	0.00	0.00	0.00	0.029	0.243	11.713			1.00	55%	64%	75%	0.0160	0.1554	8.7849	0.000000
			0.0400	0.0400			0.0000														0.0517	0.5870	43.9245	0.003333
17-0152B	BIORETENTION #1	No	0.03	0.03	0.049	0.51	35.14	0	0.00	0.00	0.00	0.049	0.506	35.140			1.00	55%	64%	75%	0.0267	0.3237	26.3547	0.002500
17-0152D	BIORETENTION #1	No	0	0	0.000	0.00	0.00	0	0.00	0.00	0.00	0.022	0.182	8.785			1.00	55%	64%	75%	0.0120	0.1165	6.5887	0.000000
			0.0300	0.0300			0.0000														0.0388	0.4402	32.9434	0.002500
17-0070A	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.016	0.169	11.713			1.00	55%	64%	75%	0.0089	0.1079	8.7849	0.000833
17-0070B	BIORETENTION #1	Yes	0.0042	0.0042	0.007	0.07	4.92	0	0.00	0.00	0.00	0.007	0.071	4.920			1.00	55%	64%	75%	0.0037	0.0453	3.6897	0.000350
17-0070C	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.023	0.169	11.713			1.00	55%	64%	75%	0.0129	0.1079	8.7849	0.000833
17-0070D	BIORETENTION #1	Yes	0.0070	0.0070	0.011	0.12	8.20	0	0.00	0.00	0.00	0.011	0.118	8.199			1.00	55%	64%	75%	0.0062	0.0755	6.1494	0.000583
17-0070E	BIORETENTION #1	Yes	0.0000	0.0000	0.000	0.00	0.00	0	0.00	0.00	0.00	0.026	0.189	9.136			1.00	55%	64%	75%	0.0143	0.1212	6.8522	0.000000
			0.0312	0.0312			0.0000														0.0461	0.4579	34.2611	0.0026
17-0190E	VEGETATED ROOF #2	Yes	0.0022	0.0022	0.004	0.04	2.58	0	0.00	0.00	0.00	0.004	0.037	2.577			1.10	60%	60%	75%	0.0021	0.0223	1.9327	0.000202
17-0190F	VEGETATED ROOF #2	Yes	0.0018	0.0018	0.003	0.03	2.11	0	0.00	0.00	0.00	0.003	0.030	2.108			1.10	60%	60%	75%	0.0017	0.0182	1.5813	0.000165
17-0190G	VEGETATED ROOF #2	Yes	0.0067	0.0067	0.011	0.11	7.85	0	0.00	0.00	0.00	0.011	0.113	7.848			1.10	60%	60%	75%	0.0065	0.0678	5.8859	0.000614
17-0190H	VEGETATED ROOF #2	Yes	0.0031	0.0031	0.005	0.05	3.63	0	0.00	0.00	0.00	0.005	0.052	3.631			1.10	60%	60%	75%	0.0030	0.0314	2.7233	0.000284
17-0190I	VEGETATED ROOF #2	Yes	0.0017	0.0017	0.003	0.03	1.99	0	0.00	0.00	0.00	0.003	0.029	1.991			1.10	60%	60%	75%	0.0017	0.0172	1.4934	0.000156
17-0190J	MANUFACTURED BMP	Yes	0.2413	0.2413	0.391	4.07	282.64	0	0.00	0.00	0.00	0.401	4.173	287.178			1.00	50%	50%	0%	0.2005	2.0864	0.0000	0.020108
			0.2568	0.2568			0.0000														0.2155	2.2432	13.6166	0.0215
18-0115B	VEGETATED ROOF #1	Yes	0.0099	0.0022	0.004	0.04	2.58	0	0.00	0.00	0.00	0.004	0.037	2.577			1.00	60%	60%	75%	0.0021	0.0223	1.9327	0.000750
18-0115C	VEGETATED ROOF #1	Yes	0.006	0.0018	0.003	0.03	2.11	0	0.00	0.00	0.00	0.003	0.030	2.108			1.00	60%	60%	75%	0.0017	0.0182	1.5813	0.000500
18-0115D	VEGETATED ROOF #1	Yes	0.05	0.0067	0.011	0.11	7.85	0	0.00	0.00	0.00	0.011	0.113	7.848			1.00	60%	60%	75%	0.0065	0.0678	5.8859	0.004167
18-0115E	VEGETATED ROOF #1	Yes	0.04	0.0031	0.005	0.05	3.63	0	0.00	0.00	0.00	0.005	0.052	3.631			1.00	60%	60%	75%	0.0030	0.0314	2.7233	0.003333
18-0115A	BIORETENTION #1	Yes	2.12	1.9	3.078	32.03	2225.51	0.22	0.09	2.22	38.68	3.177	34.342	2268.225			1.00	55%	64%	75%	1.7474	21.9792	1701.1688	0.176667
18-0115F	MANUFACTURED BMP	Yes	0.01	0.01	0.016	0.17	11.71	0	0.00	0.00	0.00	1.446	12.532	578.769			1.00	45%	0%	0%	0.6507	0.0000	0.0000	0.000833
			2.2250	1.9138			0.2200					1.439									1.7608	22.1188	1713.2920	0.1854
18-0249A	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.016	0.169	11.713			1.00	55%	64%	75%	0.0089	0.1079	8.7849	0.000833
18-0249B	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.016	0.169	11.713			1.00	55%	64%	75%	0.0089	0.1079	8.7849	0.000833
18-0249C	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.023	0.169	11.713			1.00	55%	64%	75%	0.0129	0.1079	8.7849	0.000833
18-0249D	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.016	0.169	11.713			1.00	55%	64%	75%	0.0089	0.1079	8.7849	0.000833
18-0249E	BIORETENTION #1	Yes	0.0000	0.0000	0.000	0.00	0.00	0	0.00	0.00	0.00	0.032	0.243	11.713			1.00	55%	64%	75%	0.0178	0.1554	8.7849	0.000000
			0.0400	0.0400			0.0000														0.0575	0.5870	43.9245	0.0033
18-0249F	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.016	0.169	11.713			1.00	55%	64%	75%	0.0089	0.1079	8.7849	0.000833
18-0249G	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.016	0.169	11.713			1.00	55%	64%	75%	0.0089	0.1079	8.7849	0.000833
18-0249H	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.023	0.169	11.713			1.00	55%	64%	75%	0.0129	0.1079	8.7849	0.000833
18-0249I	BIORETENTION #1	Yes	0.0100	0.0100	0.016	0.17	11.71	0	0.00	0.00	0.00	0.016	0.169	11.713			1.00	55%	64%	75%	0.0089	0.1079	8.7849	0.000833
18-0249J	BIORETENTION #1	Yes	0.0000	0.0000	0.000	0.00	0.00	0	0.00	0.00	0.00	0.032	0.243	11.713			1.00	55%	64%	75%	0.0178	0.1554	8.7849	0.000000
			0.0400	0.0400			0.0000														0.0575	0.5870	43.9245	0.0033
21-0196A	BIORETENTION #1	Yes	0.0077	0.0077	0.012	0.13	9.02	0	0.00	0.00	0.00	0.012	0.130	9.019			1.00	55%	64%	75%	0.0069	0.0831	6.7644	0.000642
21-0196B	BIORETENTION #1	Yes	0.0062	0.0062	0.010	0.10	7.26	0	0.00	0.00	0.00	0.010	0.105	7.262			1.00	55%	64%	75%	0.0055	0.0669	5.4466	0.000517
21-0196C	BIORETENTION #1	Yes	0.0200	0.0200	0.032	0.34	23.43	0	0.00	0.00	0.00	0.038	0.337	23.426			1.00	55%	64%	75%	0.0209	0.2158	17.5698	0.001667
21-0196D	BIORETENTION #1	Yes	0.0091	0.0091	0.015	0.15	10.66	0	0.00	0.00	0.00	0.015	0.153	10.659			1.00	55%	64%	75%	0.0081	0.0982	7.9943	0.000758
21-0196H	BIORETENTION #2	Yes	0.0800	0.0800	0.130	1.35	93.71	0	0.00	0.00	0.00	0.163	1.610	106.297			1.25	90%	90%	75%	0.1471	1.4488	83.9749	0.008333
			0.1230	0.1230			0.0000														0.1885	1.9128	121.7499	0.0119
21-0145B	BIORETENTION #1	Yes	0.0200	0.0200	0.032	0.34	23.43	0	0.00	0.00	0.00	0.032	0.337	23.426			1.00	55%	64%	75%	0.0178	0.2158	17.5698	0.001667

In Series FY22 Correction		Drains to MS4		IMPERVIOUS			LOADS (per DCR Potomac River Basin)			PERVIOUS			LOADS (per DCR Potomac River Basin)			TOTAL LOADS to BMP			REMOVAL RATES per adjustor curv			Total Loads removed														
Facility ID	BMPType	Drains to MS4	Total drain Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	Area (ac)	TP	TN	TSS	TP	TN	TSS	Retrofit sto	Retrofit sto	Runoff deg	TP	TN	TSS	TP	TN	TSS	B drains to A report A as primary	FY23 Correction	TP	TN	TSS					
15-2121B	MANUFACTURED BMP	Yes	0	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00			1.00	20%	0%	0%	0.0000	0.0000	0.0000										
15-2121A	MANUFACTURED BMP	Yes	1.52	1.35	2.19	22.76	1581.28	0.17	0.07	1.71	29.89	0	0.00	0.00	0.00	2.26	24.47	1611.17			1.00	40%	0%	0%	0.9027	0.0000	0.0000									
		1.5200		1.3500	0.0000									Total			0.9027			0.0000			0.0000			1.126667			Reported in FY22			TP	TN	TSS		
16-0046E	BIORETENTION #1	Yes	0.0745	0.0745	0.12	1.26	87.26	0	0.00	0.00	0.00	0	0.00	0.00	0.12	1.26	87.26			1.00	55%	64%	75%	0.0664	0.8039	65.4475	E drains to D report D as primary		6.3860	54.2068	3803.6175					
16-0046D	BIORETENTION #1	Yes	0	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.05	0.45	21.82			1.00	55%	64%	75%	0.0299	0.2894	16.3619										
		0.0745		0.0745	0.0000									Total			0.0963			1.0933			81.8094			0.06208			Diff to Report in FY 23			0.3542	-4.1390	-319.0310		
16-0245B	BIORETENTION #1	Yes	0.04	0.04	0.06	0.67	46.85	0	0.00	0.00	0.00	0	0.00	0.00	0.06	0.67	46.85			1.00	55%	64%	75%	0.0356	0.4316	35.1396	B drains to C report C as primary									
16-0245C	BIORETENTION #1	Yes	0	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.03	0.24	11.71			1.00	55%	64%	75%	0.0160	0.1554	8.7849										
		0.0400		0.0400	0.0000									Total			0.0517			0.5870			43.9245			0.003333										
16-0245F	BIORETENTION #1	Yes	0.04	0.04	0.06	0.67	46.85	0	0.00	0.00	0.00	0	0.00	0.00	0.06	0.67	46.85			1.00	55%	64%	75%	0.0356	0.4316	35.1396	F drains to G report G as primary									
16-0245G	BIORETENTION #1	Yes	0	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.03	0.24	11.71			1.00	55%	64%	75%	0.0160	0.1554	8.7849										
		0.0400		0.0400	0.0000									Total			0.0517			0.5870			43.9245			0.003333										
17-0068A	BIORETENTION #1	Yes	0.03	0.03	0.05	0.51	35.14	0	0.00	0.00	0.00	0	0.00	0.00	0.05	0.51	35.14			1.00	55%	64%	75%	0.0267	0.3237	26.3547	A drains to E report E as primary									
17-0068E	INFILTRATION #2	Yes	0.01	0.01	0.02	0.17	11.71	0	0.00	0.00	0.00	0	0.00	0.00	0.04	0.35	20.50			1.10	93%	92%	79%	0.0354	0.3226	16.1935										
		0.0400		0.0400	0.0000									Total			0.0621			0.6463			42.5482			0.003417										
17-0068B	BIORETENTION #1	Yes	0.23	0.23	0.37	3.88	269.40	0.0000	0.00	0.00	0.00	0	0.00	0.00	0.37	3.88	269.40			1.00	55%	64%	75%	0.2049	2.4818	202.0527	B & D drain to C report C as primary									
17-0068D	VEGETATED ROOF #1	Yes	0.18	0.18	0.29	3.03	210.84	0.0000	0.00	0.00	0.00	0	0.00	0.00	0.29	3.03	210.84			1.00	45%	45%	75%	0.1312	1.3657	158.1282										
17-0068C	INFILTRATION #2	Yes	0.83	0.83	1.34	13.99	972.20	0.0000	0.00	0.00	0.00	0	0.00	0.00	1.67	17.06	1092.26			1.10	93%	92%	79%	1.5556	15.6942	862.8822										
		1.24		1.2400	0.0000									Total			1.8917			19.5417			1223.0631			0.110250										
17-0150A	BIORETENTION #1	Yes	0.01	0.01	0.02	0.17	11.71	0.0000	0.00	0.00	0.00	0	0.00	0.00	0.02	0.17	11.71			1.00	55%	64%	75%	0.0089	0.1079	8.7849	B & E drain to A rept A as primary									
17-0150B	BIORETENTION #1	Yes	0.009	0.009	0.01	0.15	10.54	0.0000	0.00	0.00	0.00	0	0.00	0.00	0.01	0.15	10.54			1.00	55%	64%	75%	0.0080	0.0971	7.9064										
17-0150E	BIORETENTION #1	Yes	0.01	0.01	0.02	0.17	11.71	0.0000	0.00	0.00	0.00	0	0.00	0.00	0.03	0.28	17.28			1.00	55%	64%	75%	0.0165	0.1817	12.9577										
		0.029		0.0290	0.0000									Total			0.0335			0.3867			29.6490			0.002417										
17-0252I	BIORETENTION #1	Yes	0.09	0.06	0.10	1.01	70.28	0.02	0.01	0.20	3.52	0.11	1.21	73.80						1.00	55%	64%	75%	0.0580	0.7763	55.3464	Everything drain to W report 17-0252BB as primary since In series with 17-0252W									
17-0252J	BIORETENTION #1	Yes	0.03	0.03	0.05	0.51	35.14	0.0018	0.00	0.02	0.32	0.05	0.52	35.46						1.00	55%	64%	75%	0.0271	0.3353	26.5920										
17-0252K	VEGETATED ROOF #2	Yes	0.02	0.02	0.03	0.34	23.43	0.0019	0.00	0.02	0.33	0.03	0.36	23.76						1.00	55%	64%	75%	0.0182	0.2281	17.8203										
17-0252L	VEGETATED ROOF #2	Yes	0.0017	0.0017	0.00	0.03	1.99	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.03	1.99			1.10	60%	60%	75%	0.0017	0.0172	1.4934										
17-0252M	VEGETATED ROOF #2	Yes	0.0019	0.0019	0.00	0.03	2.23	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.03	2.23			1.10	60%	60%	75%	0.0018	0.0192	1.6691										
17-0252N	VEGETATED ROOF #2	Yes	0.0014	0.0014	0.00	0.02	1.64	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.02	1.64			1.10	60%	60%	75%	0.0014	0.0142	1.2299										
17-0252O	VEGETATED ROOF #2	Yes	0.02	0.02	0.03	0.34	23.43	0	0.00	0.00	0.00	0	0.00	0.00	0.03	0.34	23.43			1.10	60%	60%	75%	0.0194	0.2023	17.5698										
17-0252P	VEGETATED ROOF #2	Yes	0.0056	0.0056	0.01	0.09	6.56	0	0.00	0.00	0.00	0	0.00	0.00	0.01	0.09	6.56			1.10	60%	60%	75%	0.0054	0.0566	4.9195										
17-0252Q	VEGETATED ROOF #2	Yes	0.0041	0.0041	0.01	0.07	4.80	0	0.00	0.00	0.00	0	0.00	0.00	0.01	0.07	4.80			1.10	60%	60%	75%	0.0040	0.0415	3.6018										
17-0252R	VEGETATED ROOF #2	Yes	0.0011	0.0011	0.00	0.02	1.29	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.02	1.29			1.10	60%	60%	75%	0.0011	0.0111	0.9663										
17-0252S	VEGETATED ROOF #2	Yes	0.0022	0.0022	0.00	0.04	2.58	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.04	2.58			1.10	60%	60%	75%	0.0021	0.0223	1.9327										
17-0252T	VEGETATED ROOF #2	Yes	0.0025	0.0025	0.00	0.04	2.93	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.04	2.93			1.10	60%	60%	75%	0.0024	0.0253	2.1962										
17-0252U	VEGETATED ROOF #2	Yes	0.001	0.001	0.00	0.02	1.17	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.02	1.17			1.10	60%	60%	75%	0.0010	0.0101	0.8785										
17-0252V	VEGETATED ROOF #2	Yes	0.02	0.02	0.03	0.34	23.43	0	0.00	0.00	0.00	0	0.00	0.00	0.03	0.34	23.43			1.10	60%	60%	75%	0.0194	0.2023	17.5698										
17-0252W	VEGETATED ROOF #2	Yes	0.03	0.03	0.05	0.51	35.14	0	0.00	0.00	0.00	0	0.00	0.00	0.05	0.51	35.14			1.10	60%	60%	75%	0.0292	0.3035	26.3547										
17-0252X	VEGETATED ROOF #2	Yes	0.0016	0.0016	0.00	0.03	1.87	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.03	1.87			1.10	60%	60%	75%	0.0016	0.0162	1.4056										
17-0252Y	VEGETATED ROOF #2	Yes	0.01	0.01	0.02	0.17	11.71	0	0.00	0.00	0.00	0	0.00	0.00	0.02	0.17	11.71			1.10	60%	60%	75%	0.0097	0.1012	8.7849										
17-0252Z	VEGETATED ROOF #2	Yes	0.001	0.001	0.00	0.02	1.17	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.02	1.17			1.10	60%	60														

Septic Conversion Through June 30, 2023
Reduction from Residential Septic Conversions

TN Edge of Stream Loading	3.6	From DEQ
Average number of people per	2.1	2020 Census
Number of residential conversions:	7	See list below

Residential TN Reduction(lbs/year)= 52.92

PARCEL ADDRESS	PARCEL CITY/STATE	LAT	LONG	STATUS CHANGE DATE	TYPE (R OR C)	HUC6
3915 44TH STREET N	ARLINGTON, VA 22207	38.93263413	-77.11997586	04/04/2017	R	PL24
405 CHAIN BRIDGE ROAD	ARLINGTON, VA 22207	38.9329451	-77.12013212	04/22/2015	R	PL24
407 CHAIN BRIDGE ROAD	ARLINGTON, VA 22201	38.93354004	-77.11960553	04/04/2017	R	PL23
4238 COLUMBIA PIKE	ARLINGTON, VA 22204	38.85789869	-77.10308637	04/09/2020	R	PL25
3656 N MONROE STREET	ARLINGTON, VA 22207	38.92288816	-77.1149649	03/28/2018	R	PL24
2500 25TH STREET N	ARLINGTON, VA 22207	38.90371016	-77.09249783	2/4/2011*	R	PL24
3520 ROBERTS LANE	ARLINGTON, VA 22207	38.92036533	-77.11194332	12/15/2006*	R	PL24

*Date connected to public sewer as exact date septic was removed is unknown. All other dates refer to removal of the septic tank.

Street Sweeping Credits for FY23

Practice	Description	Approx Passes/yr	TSS Removal(%)	TN Removal (%)	TP Removal (%)				Permit rates
SCP-1	AST-2 PW	~100	21	4	10			TSS	1171
SCP-2	AST-1PW	~50	16	3	8			TN	16.86
		26	11.2	2.04	5.12			TP	1.62
SCP-3	AST-1P2W	~25	11.0	2.0	5.0				
		~24	10.3	1.9	4.8				
		~23	9.9	1.8	4.6				
		~20	8.6	1.6	4				
Year	Lane Miles	Passes	Lane Miles per pass or Acres by pass	TSS Removal (%)	TN Removal (%)	TP Removal (%)	TSS Removed	TN Removed	TP Removed
2023	5632.2	20	281.6	8.6	1.6	4	32546.68032	75.964416	18.24768

Arlington County uses Regenerative Air Sweepers with side brushes. The current model being used is the Schwartz A7.

Ballston Pond Project

Step 1

Characterize the Acres and Loads Draining to the Retrofit

***The retrofit storage volume and resulting TMDL credits are estimates pending final acceptance of project as-built in October 2023.**

	Urban Impervious Acres	Urban Pervious Acres	Total Urban Acres	Impervious LOADS (per DCR Potomac River Basin)			Pervious LOADS (per DCR Potomac River Basin)			TOTAL LOADS to retrofit		
				TN	TP	TSS	TN	TP	TSS	TN	TP	TSS
Regulated AC	201.47	206.23	407.70	3396.8	326.4	235985.8	2076.7	84.6	36255.2	5473.5	410.9	272241.1
Regulated APS	4.44	5.09	9.54	74.9	7.2	5200.7	51.3	2.1	894.8	126.1	9.3	6095.5
Regulated VDOT	21.50	9.50	31.00	362.5	34.8	25183.4	95.7	3.9	1670.1	458.2	38.7	26853.5
Regulated FED			0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unregulated Land	6.84	12.78	19.63	115.3	11.1	8011.8	128.7	5.2	2246.7	244.0	16.3	10258.6
	234.25	233.60	467.87									

Step 2

Calculate retrofit removal rates and loads removed

Retrofit storage vol (ac-ft)	Runoff depth treated (in)	REMOVAL RATES per adjutor curves		
		TN	TP	TSS
5.7	0.2920	18%	29%	37%

Calculate total loads removed for Regulated and Unregulated la	TN	TP	TSS
Regulated AC	1003.6	118.4	99860.3
Regulated APS	23.1	2.7	2235.9
Regulated VDOT	84.0	11.2	9850.1
Regulated FED	0.0	0.0	0.0
Unregulated Land	44.7	4.7	3762.9
	1155.5	137.0	115709.1

Impervious and pervious urban loading rates for Potomac River Basin per DCR

Subsource	Pollutant	2009 EOS Loading Rate (lbs/ac)
Regulated Urban Impervious	Nitrogen	16.86
Regulated Urban Pervious		10.07
Regulated Urban Impervious	Phosphorus	1.62
Regulated Urban Pervious		0.41
Regulated Urban Impervious	Sediment	1,171.32
Regulated Urban Pervious		175.8

No Land use Change in FY23

Appendix AR24 – FY23 Chesapeake Bay TMDL Summary

[Appendix AR23](#) – FY23 Credit for Chesapeake Bay TMDL provides a spreadsheet of POC load reductions from SWMFs installed with development activities completed in FY23, along with the following updates captured through data QA/QC procedures. The Appendix also includes the calculations for septic tank conversion from FY07 to FY23, street sweeping for FY23, land use change, and Ballston Pond retrofit calculations. Note the retrofit storage volume and resulting TMDL credits are estimates pending final acceptance of project as-builts in October 2023.

A summary of this spreadsheet information is shown below, highlighting the calculated POC load increases and net reductions through regulated redevelopment activity in Arlington County.

Type	Pollutant	Existing Development Conditions for Projects from 7/1/2022 to 6/30/20223 Acres	2009 EOSLoading Rate (lbs/ac)	Load	Post Development Conditions for Projects from 7/1/2022 to 6/30/2023 Acres - Including correction from FY22 in series account, abandoned structures and replacement structures.	2009 EOSLoading Rate (lbs/ac)	Load	Load Increase	Total Load Increase	Reduction from SWMF drain to MS4 in FY23 Including correction from FY22 in series account, abandoned structures and replacement structures.	Reduction from SWMF that do not Drain to MS4in FY23	Difference
Regulated Urban Impervious	Nitrogen	28.25	16.86	476.30	34.02	16.86	573.58	97.28	39.18	114.7256	26.43	-101.97
Regulated Urban Pervious		42.34	10.07	426.36	36.57	10.07	368.26	-58.10				
Regulated Urban Impervious	Phosphorus	28.25	1.62	45.77	34.02	1.62	55.11	9.35	6.98	11.41	2.10	-6.53
Regulated Urban Pervious		42.34	0.41	17.36	36.57	0.41	14.99	-2.37				
Regulated Urban Impervious	Total Suspended Solids	28.25	1171.32	33089.79	34.02	1171.32	39848.31	6758.52	5744.15	8856.79	2059.60	-5172.24
Regulated Urban Pervious		42.34	175.80	7443.37	36.57	175.80	6429.01	-1014.37				

Development Load Changes and Load Reductions from SWMF for FY23

1) Estimated Reduction Achieved through FY23

	In Place		
Project Type	TN	TP	TSS
2006-2009 Historical BMPs	140.3	18.4	16,101.3
Development	973.3	68.5	49,422.6
Large Scale Project	1086.6	129.9	107,610.5
Living Shore	29.6	32.1	20,969.9
Septic Conversions	52.9	0.0	0.0
Stream Restoration	1651.8	681.2	654,595.2
Street Sweeping	76.0	18.3	32,546.7
Trades Retrofit	14.8	2.2	2,059.7
Watershed Retrofit	186.5	16.2	19,065.92
Total Credits	4,211.8	966.8	902,371.8
Total Progress	36.4%	63.2%	68.8%

The forty percent POC reduction requirement for this permit cycle has been exceeded for TP and TSS. The means and methods implemented to date include watershed retrofit projects, stream restoration projects, living shore, outfall repair and redevelopment-based reductions, street sweeping, septic tank conversions, and 2006-2009 'historical BMPs.'

Appendix AR25 – FY23 Implementation Summary of Bacteria TMDL Action Plan

The County continues to implement a suite of programs and practices to address bacteria loading to the MS4—and is exceeding the permit requirements as the County’s program covers the entire County is not limited to the Pimmit Run and Four Mile Run watersheds as specified in Attachment A of the County’s permit. The goal of this action plan is to reduce bacteria loadings from controllable, anthropogenic sources to the maximum extent practicable as part of a long-term and comprehensive, multi-pollutant watershed management program.

Following a public comment period in November 2022, the County updated its Bacteria TMDL Action Plan. The updated plan was submitted to DEQ on November 29, 2022.

The following summary table provides information on action plan implementation efforts conducted in FY23 focused on reducing bacteria loading from controllable, anthropogenic sources throughout the County.

	Programs / Practices	Actions Taken	Implementation
Management Strategies & Practices	Outreach at Community Canine Areas (CCA)	The County has continued outreach efforts ensuring up to date signs that are clearly visible at County dog parks.	On-going
	Addressing Sanitary Sewer Exfiltration to the MS4 and Surface Waters	Approximately 313,000 linear feet of sanitary sewer system were inspected in FY23. Identified problem areas were scheduled to be flushed, relined, or replaced.	On-going
	Storm Drain System Inspection and Maintenance	Over 92,000 linear feet of storm sewer system were inspected in FY23; 1,593 catch basins were inspected and cleaned.	On-going
	Street Sweeping	Over 8,000 of street lane miles were swept and over 800 tons of debris were removed from County streets in FY23.	On-going
	High Priority Municipal Facility (HPMF) Stormwater Pollution Prevention Plans (SWPPP)	All HPMF SWPPPs were updated in FY22. Inspections of all facilities occurred in FY23.	On-going
	Illicit Discharge Detection and Elimination	County staff investigated over 80 illicit discharge incidents in FY23. Information on how to report pollution / illicit discharges is available on the County’s website . <ul style="list-style-type: none"> • Dry weather screening is conducted on an annual basis for select outfalls that drain the South Four Mile Run Drive and Shirlington commercial areas. • The County continues to update its Report Stream Pollution page 	On-going
	Commercial and Industrial High-Risk Runoff (IHRR) Facility Inspections	In FY23, 146 IHRR inspections of commercial facilities that were identified as potential sources of significant pollutant loading were conducted. Recycling specialists also conduct inspections to check that required facilities are implementing their recycling plans and maintaining recycling areas.	On-going

	Programs / Practices	Actions Taken	Implementation
		Follow-up letters and educational materials were provided to business owners or property managers when problems were identified.	
	Stormwater Coordination with Other County Agencies (Animal Control, Health Department)	Health Department staff continued vector control outreach and response. The Health Department continues to maintain its website with information on rodent control. The County provided dog waste pick-up bags to Animal Control. The bags are in dispensers that have the only rain logo on them.	On-going
	Pretreatment Inspections	Water Pollution Control Plant staff continued to conduct inspections of permitted facilities to ensure grease traps are maintained and functioning.	On-going
	Private Septic System Tracking	Arlington County Health Department continues to work with Fairfax County on tracking and ensuring septic systems in Arlington are properly maintained or safely abandoned if necessary. There are currently 34 septic systems in Arlington County (32 conventional, 2 alternative systems).	On-going
Monitoring			
	Bacteria Monitoring	The County continued its bacteria (<i>E.coli</i>) monitoring program in FY23, with 21 sites monitored. Follow-up investigations are conducted after reports of high levels of bacteria found during sampling or evidence of stream pollution is observed by volunteers.	On-going
	Biological Monitoring	The County continued its biological monitoring program in FY23 at 10 sampling locations throughout the County. Follow-up investigations are conducted after reports of stream pollution is observed by volunteers. In FY23, 106 volunteers participated in the County's stream bacteria and biological monitoring programs, providing over 1035 volunteer hours.	On-going
Education and Outreach			
	Only Rain Down the Drain Campaign	In FY23, Arlington County continued to support the Northern Virginia Clean Water Partners Only Rain Down the Drain campaign, a regional stormwater education campaign. The campaign has used radio advertising, online advertising and most recently cable TV advertising to educate the public about preventing water pollution. The campaign includes several television ads to help visualize water pollution, and includes pollution prevention messages related to <u>pet waste</u> , motor oil, car washing, and fertilizer use.	On-going

	Programs / Practices	Actions Taken	Implementation
	Public Presentations / Training	<p>The following presentations / trainings included information about how to protect water quality and report stream pollution.</p> <ul style="list-style-type: none"> • Arlington Regional Master Naturalist Trainings (Fall 2022, Spring 2023) • Stream Monitoring Trainings (10/21/2022, 11/22/2023, 04/15/2023, 04/20/2023) • Bacteria Monitoring Training (6/2/2023) <p>Information was provided on how to recognize and report illicit discharges such as sanitary sewer discharges.</p>	On-going
	Public Events	In FY23, the County participated in the County Fair (8/19-21/2022) and Paws on the Pike (10/3/2022) and promoted information on pollution prevention and cleaning up after your pet.	On-going
	Newsletter / Website / Social Media	<p>The DES Environmental Events newsletter list has grown to more than 6,000 subscribers. The digital newsletter provides weekly updates on upcoming environmental events, workshops, programs, and environmental tips.</p> <p>In FY23, the County made updates to its the Prevent Pollution website, which includes information about picking up after your pet and disposal of fats, oils, and grease (FOG) (<i>see more under FOG Education below</i>)</p> <p>Additional messaging / outreach in FY23 included:</p> <ul style="list-style-type: none"> • Social media: DES Facebook and Twitter Feed: Pollution Prevention posts (Fall 2022, Spring /Summer 2023); Twitter and Facebook posts using FOG photos. • Inside Arlington newsletter – FOG information, pollution prevention tips 	On-going
	Storm Drain Marking	In FY23, 95 volunteers donated over 224 hours and marked 586 storm drains with the “Only Rain” storm drain markers . Volunteers are instructed to report dumping or illicit discharges to storm drains .	On-going
	Signs	<ul style="list-style-type: none"> • Educational signs have been placed in Community Canine Areas. • Signs that focus on picking up after your pet are displayed inside ART buses • Street sweepers and a few county vehicles continue to display “Only Rain down the Drain” signs 	On-going
	Pet Waste Postcards	Postcards continued to be offered Park Rangers and Nature Centers. Postcards were also distributed to organizations, businesses and companies that provide pet services (Animal Welfare League).	On-going
	Dumpster Education	Postcards are distributed by recycling inspectors during inspections as needed.	On-going

	Programs / Practices	Actions Taken	Implementation
	Education to prevent Sanitary Sewer Overflows (Fats, Oils, Grease (FOG))	Information on County Website: <ul style="list-style-type: none"> - Fats, Oils, Grease -information on managing FOG - Garbage disposal tips - The Toilet is not a Trash Can The County continues to promote Metropolitan Washington Council of Governments Protect Your Pipes campaign – https://protectyourpipes.org/ to protect wastewater infrastructure and preserve the health of waterways. Outreach articles: <ul style="list-style-type: none"> • Inside Arlington Newsletter – FOG holiday reminder (November 2022) Brochures continue to be distributed as needed during facility inspections, recycling program inspections, and by the WPCP staff during pretreatment inspections or investigations.	On-going
	Policies / Regulations	County Code Section 26.1 Wastewater Pretreatment provides regulation on types of discharges allowed to the sanitary sewer system, including FOG. This help decrease the potential for SSOs.	On-going
Employee Training	SWPPP Training	Approximately 796 County and Arlington Public School employees received annual training covering how to recognize and report illicit discharges and methods to prevent stormwater pollution prevention at facilities and out in the community.	On-going

The bacteria monitoring program had 97% coverage of its sites in FY 2023, with 245 out of 252 samples taken. Due to defective Coliscan product that did not include the coloring agents, five June samples were not usable, with additional unusable data in FY24. Previous issues with Coliscan affecting samples were documented in the County’s letter to DEQ from 4/13/2023. Of the 240 usable samples in FY23, 40% (95 samples) exceeded the primary contact recreation water quality standard (WQS) of 235 E. coli colony-forming units per 100 ml (CFU/100 ml). The secondary contact recreation water quality standard of 1173 CFU/100 ml was exceeded in 4% (9) of the samples.

These data support the County’s guidelines to residents and visitors to restrict usage of the streams to secondary contact activities (<https://environment.arlingtonva.us/streams/stream-safety/>). A full summary of the FY23 data is provided in Appendix AR18 of the FY23 MS4 Annual Report.

The County also reviews data from DEQ monitoring stations as data are made available. One monitoring site is in Arlington – 1APIM000.15 Pimmit Run. Two sites are in Alexandria – 1AFOU000.19 Potomac River embayment estuary sampling, and 1AFOU001.92 Four Mile Run. These sites are not co-located with existing Arlington monitoring sites, use a different testing method than Arlington County, and are not collected with the same regularity as Arlington data. DEQ’s sampling occurs less frequently (typically 3 to 6 samples per year per site). DEQ’s data are not collected within the same month year-to-year, or at the same time of the month from month-to-month. Due to the differences between the sampling programs, the DEQ data are not included in the County’s analyses.

As Arlington's monitoring program continues to mature, the County anticipates ongoing variability in further study of this indicator organism, but hope that our implementation of green infrastructure, street sweeping, sewer relining, and other pollution prevention practices will help reduce *E. coli* bacteria levels from controllable sources.

The County anticipates continuing many of the aforementioned suite of actions and best management practices in this permit cycle as part of the County's adaptive iterative approach to reduce pollutant discharges and loading.

Reduction of bacteria loading from urban watersheds continues to be extremely challenging given the pre-dominance of uncontrollable wildlife sources, bacteria re-growth and re-suspension, weather volatility, aging public and private infrastructure and the inability to completely control human behavior.

Appendix AR26: FY23 Implementation Summary of PCB Action Plan

The goal of this local action plan is to identify sources of PCBs within Arlington County and reduce PCB loadings from controllable, anthropogenic sources to the maximum extent practicable as part of a long-term and comprehensive, multi-pollutant watershed management program.

The County continues to undertake pollution minimization practices and stormwater management initiatives aimed at reducing sediment loading, which in turn should reduce PCB loading to the MS4. These efforts complement the gradual reduction of PCB loads from atmospheric deposition and long-term chemical breakdown. In addition, the County continues to provide education and conduct outreach about proper disposal of various waste materials and debris. PCBs can be found in transformers and capacitors, coolants in electrical equipment, lubricants and hydraulic fluids, old fluorescent light ballasts, thermal insulation materials, adhesives and tapes, caulk, roofing materials and asphalt, pesticides, plastics, inks in products such as newspapers, magazines, or cardboard, clothing pigments and dyes, and paints. Educating the public about proper disposal and recycling practices and providing programs and events such as the Household Hazardous Waste Collection, metal and white goods collection programs, and E_CARE events are important steps to help prevent PCBs from getting into the environment via improper disposal, dumping, or littering.

Following a public comment period in November 2022, the County updated its PCB TMDL Action Plan. The updated plan was submitted to DEQ on November 29, 2022.

The following summary table provides information on implementation actions and best management practices conducted in FY23 focused on reducing PCB and other pollutant loading.

	Programs / Practices	Actions Taken	Implementation
Management Strategies & Practices	Street Sweeping	Approximately 8,046 street lane miles were swept and over 624 tons of debris were removed from County streets in FY23.	On-going
	Storm Drain System Inspection and Maintenance	Over 92,592 linear feet of storm sewer system were inspected in FY23; 1,598 catch basins were inspected and maintained / cleaned.	On-going
	Stormwater Treatment / Retrofits / Stream Restoration	Sediment reductions achieved via stormwater management facilities and retrofitting in FY23 are reported with the TMDL POC reductions for the Chesapeake Bay TMDL Action Plan. The County continues to implement several stormwater retrofit and improvement projects .	On-going
	High Priority Municipal Facility (HPMF) Stormwater Pollution Prevention Plans (SWPPP)	All HPMF SWPPPs were updated in FY22. The North Side Salt Storage was updated in FY23 as a result on the installation of new stormwater infrastructure at the facility. Inspections of all facilities occurred in FY23.	On-going
	Pollution Prevention Protocols for Street and Parking Lot Maintenance	The County continues to implement actions outlined in its Stormwater Pollution Prevention Protocols for Street, Road, Sidewalk, and Parking Lot Maintenance. A copy of the report can be found in Appendix C of the MS4 Program Plan.	On-going
	Construction Site SWPPP Inspections	Site inspections were conducted to monitor compliance with LDA permit SWPPP requirements – specifically for erosion and sediment control. Pollution prevention	On-going

	Programs / Practices	Actions Taken	Implementation
		requirements are discussed at pre-con meetings. Spill kits are required to be kept on site.	
	Illicit Discharge Detection and Elimination	<p>County staff investigated over 80 illicit discharge incidents in FY23. In all cases, the discharge was eliminated or resolved. Residents are encouraged to report stream pollution, spills, and illegal dumping.</p> <p>The continues to maintain its Report Stream Pollution page. Reporting illegal dumping into storm drains or stream pollution has been added to the County's Report a Problem web page.</p> <p>Dry weather screening continues to be conducted on an annual basis for outfalls located near South Four Mile Run Drive and Shirlington commercial areas.</p>	On-going
	Commercial Facility Inspections	Over 146 inspections were conducted at commercial facilities that have been identified to be potential sources of significant pollutant loading. Follow-up letters and educational materials were provided to business owners or property managers when problems were identified.	On-going
	Household Hazardous Waste Collection Program	DES continued to manage the County's year-round household hazardous materials (HHM) program. In FY23, residents dropped off 210,506 pounds of HHM and 75,719 pounds of electronics.	On-going
	E-CARE Collection Event	Residents participated in the Fall 2022 and Spring 2023 E-CARE events where 1702 residents dropped off over 90,560 pounds of HHM collectively; over 34,868 pounds of electronics were also collected during the two events.	On-going
	SWB Metal and White Goods Collection/Recycling Program	The Solid Waste Bureau continued its metal recycling and white good collection program. Scrap metal can be recycled at two recycling centers in the County (N Quincy St Recycling Center and at the Trades Center).	On-going
	County Facility Renovation & Waste Disposal	As County facilities are renovated, waste materials are properly collected and disposed of at a certified commercial waste disposal facility outside of the County.	On-going
Education and Outreach	County Website	Information on PCBs provided by the Northern Virginia Regional Commission is provided on the County's Prevent Pollution website. DEQ's video on PCBs was added to the website.	On-going
	Construction Educational Materials	The County developed pollution prevention training materials for builders and individuals in the construction field.	On-going

	Programs / Practices	Actions Taken	Implementation
	Storm Drain Marking	In FY23, 95 volunteers donated over 224 hours and marked 586 storm drains with the “Only Rain” storm drain markers . Volunteers are instructed to report dumping or illicit discharges to storm drains .	On-going
Employee Training	SWPPP Training	Approximately 796 County and Arlington Public School employees received annual training in FY23 covering how to recognize and report illicit discharges and methods to prevent stormwater pollution prevention at facilities and out in the community. Employees were also trained on recognizing, responding to, and reporting spills and leaks.	On-going

Reduction of PCB loading from urban watersheds continues to be extremely challenging, if not impossible, given the legacy, non-active source status of PCB contamination, slow chemical breakdown of PCB compounds, and the lack of established stormwater treatment systems with quantifiable PCB removal efficiencies. The County anticipates continuing the aforementioned suite of actions and best management practices in this and the next permit cycle as part of the County’s adaptive iterative approach to reduce pollutant discharges and loading of pollutants of concern.