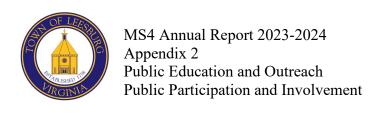
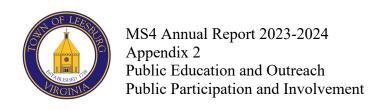


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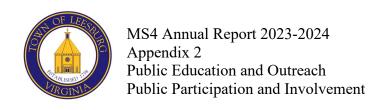


Appendix 2-A Communication Strategies and Outcomes



MCM 1 Program Matrix

Polutant of Concern	Exhibit Type	Exhibit Description	Lead Department/Division	Quantity/Views	Notes
	Media Materials	Social Media post- Keep Leesburg Beautiful	Public Information Office	38 reactions, 4 comments, 3 shares	Post on 3/14/2024.
	Media Materials	Stormwater Website	Public Information Office	488 visits	Visits totalled from all 12 SWM subpages from April-June 2024.
Illict discharges and illegal dumping	Media Materials	HHW Social Media Post	Public Information Office	2 posts	Posts made on 10/17/2023 and 3/13/2024.
	Media Materials	Clean Water Partners Website	NVRC- Clean Water Partners	*	*Summary of Clean Water Partner Activities in Appendix 2.
	Media Materials	Social media post- Storm drain marking	Public Information Office	6 reactions, 1 shares	Post on 3/21/2024.
	Media materials	Social media post- PAWS for Clean Water Campaign	Public Information Office	4 reactions, 1 share	Post on 8/29/2023.
Bacteria	Media Materials	Clean Water Partners Website	NVRC- Clean Water Partners	*	*Summary of Clean Water Partner Activities in Appendix 2.
	Media materials	Social media post- Pet waste	Public Information Office	3 reactions, 1 share	Post made on 8/22/2023.
Nutrients Media Materials Clean Water Partners Website		NVRC- Clean Water Partners	*	*Summary of Clean Water Partner Activities in Appendix 2.	



Northern Virginia Clean Water Partners Annual Summary



Northern Virginia Clean Water Partners

Annual Summary of Results July 1, 2023 - June 30, 2024

This summary was produced by the Northern Virginia Regional Commission on behalf of the 2024 Clean Water Partners.





Stormwater Pollution in Northern Virginia

Water bodies in Northern Virginia, including the region's numerous streams, lakes, and rivers, provide a range of environmental, social, and economic benefits to surrounding communities. However, when waterways are polluted and water quality becomes impaired, their key resources are reduced and result in negative impacts to both humans and the natural environment.

Polluted stormwater runoff is the number one cause of poor water quality in Northern Virginia's waterways. When it rains and snows, water runs off streets, driveways, yards and parking lots and mixes with pollutants, such as litter, fertilizer, pet waste, road salt, and auto fluids. These pollutants then enter storm drains on the street and are discharged directly into nearby streams.

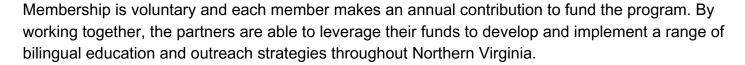
To reduce the impacts of stormwater pollution, the Northern Virginia Clean Water Partners joined together to improve residents' knowledge and behaviors through an ongoing public education campaign.

About the Partnership

The Northern Virginia Clean Water Partners (NVCWP) is composed of a group of local governments, drinking water and sanitation authorities, and businesses that share the common goals to keep Northern Virginia residents healthy and safe by reducing the amount of pollution from stormwater runoff that reaches local creeks and rivers, and empower individuals to take action to reduce pollution.

To meet these goals, the partners work together to:

- Identify high priority water quality issues for the region
- Identify the target audience(s) for outreach
- Educate the region's residents on simple ways to reduce pollution around their homes
- Monitor changes in behavior through surveys and other data collection techniques
- Pilot new cost-effective opportunities for public outreach and education





"Only rain down the storm drain"
- Partnership Motto

The 2024 campaign helped to satisfy MS4 (Municipal Separate Storm Sewer System) Phase I and Phase II permit requirements for stormwater education and documenting changes in behavior.

2024 Campaign Overview

The Northern Virginia Clean Water Partners identified the following water quality issues to highlight in their 2024 campaign:

- · Nutrients (Phosphorus and Nitrogen)
- Bacteria
- Salt
- Illicit Discharges (e.g., pesticides, motor oil, etc.)

Target audiences for these issues include pet owners, winter salt applicators, home mechanics, and residents with a lawn or garden. To reach these audiences, the campaign used a combination of social media, television and other paid advertising, printed materials, and the Only Rain website to distribute messaging that encourages pollution reduction practices. The partners also tabled at local events and led other in-person activities throughout the year to engage residents and raise campaign awareness.

The 2024 campaign also continued to update outreach and engagement programming through a number of new social marketing tools, including:

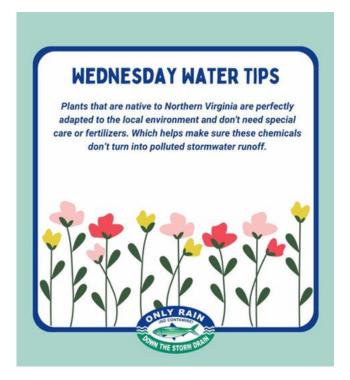
- Enhanced website features
- New social media content, including "Wednesday Water Tips"
- A new campaign video
- · New forms of paid advertising

Social Media Highlights

In 2024, the NVCWP continued to grow its social media presence over a number of platforms to reach the campaign's target audiences.

The partners created Facebook and Twitter/X accounts as a part of their 2020 campaign strategy. Since July 1, 2023, the Facebook page has gained 64 new followers for a total of 612 current followers. During the campaign year, the page included 276 posts with 624 post engagements and 188 post link clicks. The Twitter/X account currently has 193 followers with 28 new followers since 2023. Over the year, the account had 262 tweets, 1,093 tweet engagements, and 91 link clicks.

In December 2022, the partners created an Instagram account to engage additional members of the public. The Instagram account added 69 followers and created 231 posts during the 2024 campaign. In July 2023, the NVCWP also added a Threads account, which gained 65 followers and shared 101 posts over the year.

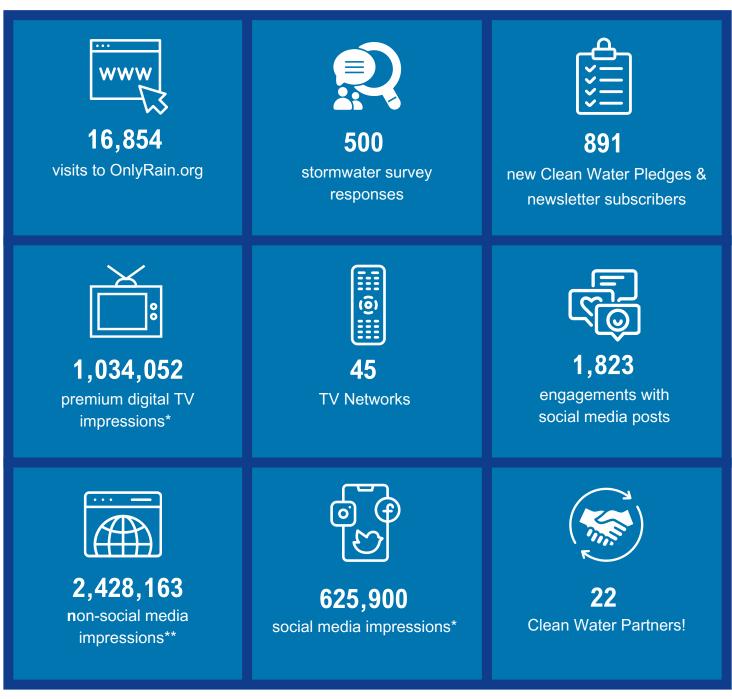


Top reaching Instagram and Facebook image in 2024

Video Advertisements

The campaign engages residents through video advertisements that focus on residential stormwater management actions. In 2024, the campaign aired both two videos, one of which also aired in Spanish, on a combination of 45 English and Spanish language networks for a total of 12,354 ads aired and 1,034,052 impressions, or views.

Key Facts and Figures for 2024



^{*}Impressions are the number of times an ad appeared on a TV, computer, or other electronic device.

**Non-social media impressions include impressions on Google Search, Reddit, and other websites outside of Twitter/X and Meta platforms (Facebook, Instagram, and Threads).

Annual Stormwater Survey

Survey Goal

The Northern Virginia Clean Water Partners conduct an annual online survey of approximately 500 residents in the region to better understand their stormwater-related knowledge and behaviors over time. Results help the partners to assess their campaign's effectiveness and direct future education and outreach efforts.

Results

Stormwater and Watershed Knowledge

Similar to 2023 (69%), 71% of Northern Virginia residents reported that they are familiar with the term "watershed". When asked which watershed they live in, 39% of residents selected that they live within the Potomac River watershed, and 27% selected that they live in the Chesapeake Bay watershed. Responses to this question have not significantly changed over the past five years.

When asked where stormwater eventually ends up, 32% of residents responded that it only goes to the Potomac River or Chesapeake Bay, and 20% selected that it only goes to a wastewater treatment plant. 41% of residents reported that it ends up at both destinations.





Information and Advertising

28% of residents reported that they have seen or received at least some form of information about reducing water pollution in the past 12 months. Of those who were aware of an event for water quality improvement, such as stream clean ups or storm drain stenciling, 54% reported participating in the event. While this response represents a decrease from 2023 (69%), event participation has still significantly increased since 2018.

33% of survey respondents selected that they were familiar with the NVCWP prior to the survey, and when shown the "only rain down the storm drain" fish logo, 54% of residents reported having previously seen the logo. Both responses represent a decrease from 2023. However, similar to last year, 71% stated that they trust information from the campaign, and 67% would contact the NVCWP if they had questions about water quality.

This year's survey results indicate that while recognition of the NVCWP and general water quality activities in the region have declined, the majority of residents continue to have positive perceptions of the campaign and an interest in taking part in related projects. As such, future programming will not only aim to bring greater awareness to the campaign, but also to other water quality improvement initiatives in the region that residents can participate in.

Campaign Impact

Residents who have viewed at least one NVCWP ad were asked a series of questions about the impact of the ads, including ways that their behaviors have changed since then. Over 80% of respondents reported that they now have a greater understanding of pet waste, fertilizer, and motor oil impacts on local water quality. Further, nearly three-quarters (73%) of respondents stated that they now pick up more pet waste, 82% fertilize less frequently, and 81% now dispose of motor oil properly. As in previous years, the survey reflects that NVCWP ads promote positive behaviors to reduce stormwater pollution. In addition, over 75% of respondents noted that they were already taking at least one of the actions to reduce pollution, suggesting that the ads also serve as valuable reinforcements for these behaviors.

Resident Behaviors

The survey asked specific questions to understand changes in Northern Virginia residents' behaviors around relevant stormwater management and pollution issues, including pet waste, lawn and garden care, car fluids, and household hazardous waste.



In a decrease from 2023 (51%), 43% of residents reported owning at least one dog. Of those that walk their dog, 87% stated that they always or usually pick up their dog's waste during walks. The majority also reported picking up after their pet in their own yard on a daily basis (59%), while 24% pick up on a weekly basis.

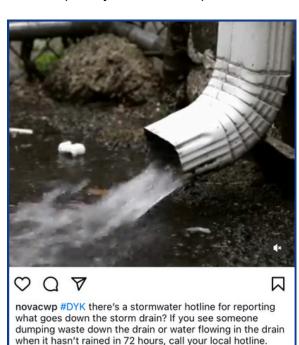
When asked why they pick up their dog's waste, 22% of residents responded that their actions were due to water pollution concerns, and 18% selected that "it's what good neighbors do". In a decrease from 2023 (25%), 19% of residents noted picking up their pet's waste due to a city or county ordinance.

In 2024, there was a slight shift in reasons that residents pick up pet waste, while general behaviors remained consistent from previous years. Related messaging should continue to encourage individuals to pick up waste in their yard more frequently to minimize pollution.



When asked about reporting potential water pollution, 49% of residents stated that they know who to contact, and in an increase from the past five years, about two-thirds (67%) selected that they would probably or definitely contact someone to report a potential source of water pollution.

Of those who were equally likely to call and not to call, as well as those that would not call, there was a decrease in those that selected their reason being that they would prefer not to communicate with officials or authorities (25% in 2024 compared to 32% in 2023), and a slight increase in those that selected being "too busy" (22% in 2024 compared to 18% in 2023).





60% of residents reported knowing if their locality has a specific drop-off location for household hazardous waste (HHW). This response did not significantly change from 2023 (61%). While the majority of residents continue to know of drop-off sites, additional education should focus on types of HHW that can be taken to these locations to promote better trash and recycling practices.



Survey respondents were provided descriptions of a rain barrel, rain garden, and conservation landscaping and asked whether they have heard of these stormwater management features and would be interested in installing one on their property. In general, 2024 results showed slight decreases in familiarity, ownership, and interest in all three forms of stormwater management compared to 2023.

Residents were more likely to already have conservation landscaping on their property than the other two stormwater management features. Yet, as in prior years, residents were most familiar with rain barrels, and 25% reported already owning at least one on their property. Residents were least familiar with rain gardens, although one-third (33%) noted an interest in having one in their yard.





As a new survey topic, respondents were asked questions to measure attitudes and behaviors related to snow and ice maintenance, including the use of deicers (e.g., road salt) and abrasives (e.g., sand). Notably, during snowy and icy conditions, 34% of residents stated that they always or frequently apply deicers at their residence, and 17% always or frequently apply an abrasive. Of those that use a deicer, residents tend to most frequently apply before (31%) or after (32%) storm events, while 15% selected that it varies or depends on the circumstance.



Respondents were also asked about their perceptions, positive and negative, of the impacts from road salt application. The majority of residents feel that salt has a positive impact on emergency vehicle safety (62%), motorist safety (65%), and pedestrian safety (69%). However, only 41% of residents also feel that it has a negative impact on local waterways.

These results stress that while residents have a positive perception of salt application for public safety, they do not necessarily recognize its negative impacts on the environment and drinking water. As such, future education efforts should focus on highlighting when to apply salt to maximize safety and also underscore the importance of smart salting practices to protect the health of local waterways.



Of those that own or lease a car, 64% of residents reported taking their vehicle to a commercial car wash, while 37% wash their vehicle at home. Responses to this question have fluctuated over the past 5 years, in which only 21% of residents reported washing their car at home in 2023 and 43% reported doing so in 2022.

For those that wash their cars or trucks at home, residents continue to most frequently clean their vehicle three to four times a year (27%), while 3% wash less than once a year and 13% wash more than 12 times a year. To clean their vehicle, over half of residents reported using an environmentally-friendly detergent (52%) and washing on pervious surfaces, including grass, gravel, and/or dirt (53%).

60% of residents reported going to an auto center for an oil change, and nearly a quarter (24%) take their old motor oil to a gas station or hazmat facility for recycling. In addition, 15% of respondents noted that they store their used motor oil in their garage, place it in the trash, or dump it down the storm drain, sink or onto the ground.

With multi-year increases in residents that take their motor oil to facilities for recycling, as well as those that store their oil or put it in the trash, future education should include safe storage practices and easily accessible information on recycling locations in the region to ensure that the oil does not eventually end up in the environment.



Two-thirds (66%) of residents with a lawn or garden stated that they use a lawn care service at least once a year. Similar to 2023, 74% of residents with a lawn or garden reported using fertilizer at least once a year. However, there was a slight increase in residents that fertilize only when a soil test recommends it (11%), and those that never fertilize (15%). Moreover, over the past five years, there has also been an increase in residents who fertilize twice per year compared to just once a year, which indicates the need for additional outreach to reinforce the use of soil tests to determine if and when fertilizing is actually necessary to support healthy lawn care.

WEDNESDAY WATER TIPS

mow your lawn? By mowing high and letting

free fertilizer.

#DYK there's a right way to

your grass clippings lie, you can avoid created polluted

stormwater runoff. Those

grass clippings can even act as

When asked how they dispose of their grass clippings, the highest percentage of respondents (36%) reported that they put the clippings in compost or recycling bags for pick up. 21% bag and place clippings in the trash, and 32% leave it on the lawn or garden. If grass clippings ended up in the street, 66% of residents reported sweeping or blowing them back into their lawn, while 17% leave them in the street and 18% sweep them into the storm drain.

2025 Campaign Goals

The Clean Water Partners will continue to identify and implement new strategies to better engage Northern Virginia residents and improve their stormwater-related knowledge and behaviors in 2025. The next campaign year will include an updated quarterly e-newsletter, improved website content, new fact sheets and infographics, and more!

Northern Virginia Clean Water Partners

2024 Survey at a Glance

The Northern Virginia Clean Water Partners (NVCWP) conduct an annual survey to better understand Northern Virginia residents' stormwater knowledge and behaviors in order to inform future education and outreach efforts.

Watershed Knowledge

27%

About 1/4 (27%) of residents believe they live in the Chesapeake Bay watershed.

71%

71% of residents were familiar with the term "watershed" prior to the survey.

Stormwater Runoff



About 1/3 of residents believe that stormwater ends up in the Chesapeake Bay or Potomac River, while 20% think that it goes to a wastewater treatment plant. 41% think that it ends up at both destinations.

Automobile Care

64% of vehicle owners go to a commercial car wash at least once a year. Of those that clean their car at home, nearly 3/4 report only using water or environmentally-friendly detergent.



Advertising Reach

54% of residents recognize the Clean Water Partners logo.When asked about perceptions of NVCWP ads, over 80% trust the information conveyed and believe the ads are important.

Lawn Care

74%

of residents fertilize their lawn or garden at least once a year. **26%** either never fertilize or only fertilize when a soil test recommends it. Conservation Landscaping

1/4

of residents already have a rain barrel, rain garden, and/or conservation landscaping on their property.

Over 1/3 are interested in obtaining one or more for their property.

Winter Salt

1/3

of residents always or frequently apply deicer (e.g., salt) at their residence during snowy or icy conditions.

Dog Owners



87% of dog owners report always or usually picking up their pet's waste while on a walk.

Pollution Reporting

67%

of residents would probably or definitely report potential pollution to their town or county.

Prepared by Northern Virginia Regional Commission on behalf of the 2024 Clean Water Partners. Visit **onlyrain.org** to learn more.

Additional Information

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Website: www.onlyrain.org

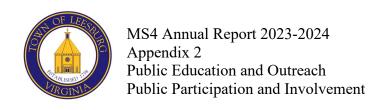


Social Media:

- Facebook: facebook.com/NVCWP
- X (Formerly Twitter): twitter.com/nova_cwp
- Instagram: instagram.com/novacwp
- Threads: threads.net/@novacwp

2024 Clean Water Partners:

Fairfax County | Arlington County | Loudoun County | Loudoun Water | Fairfax Water | City of Alexandria | City of Fairfax | City of Falls Church | City of Manassas | City of Manassas Park | Stafford County | Town of Leesburg | Town of Dumfries | Town of Herndon | Town of Vienna | Prince William County | Northern Virginia Regional Commission | George Mason University | Virginia Coastal Zone Management Program | Fairfax County Public Schools | Northern Virginia Soil and Water Conservation District | Prince William County Public Schools



Northern Virginia Regional Commission 2024 Only Rain Survey





Northern Virginia Resident Stormwater Knowledge and Behavior Study

Summary Report of Findings August 9 2024







Prepared for: Northern Virginia Regional Commission Prepared by:

Keisler Social & Behavioral Research Authors: Aysha Keiser, PhD* Meghan Eife

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1 INTRODUCTION AND APPROACH

Keisler Social & Behavioral Research (Keisler Research) was contracted by the Northern Virginia Regional Commission (NVRC) to conduct a survey of northern Virginia residents to capture knowledge, perceptions, beliefs, and behaviors surrounding stormwater and water pollution. The survey also assesses awareness and perceptions of two media campaigns conducted by the Northern Virginia Clean Water Partners (NVCWP) on stormwater drainage and water pollution, as well as awareness perceptions of NVCWP as an organization. The survey instrument is provided in the Appendix.

The survey was administered online in May and June of 2024 on the Alchemer survey platform. Individuals that participate in Alchemer's survey panel, and other partner survey panels, were invited to participate in the survey. Compensation was provided in the form of points on the Alchemer panel system, which can be redeemed for gift cards, prize drawings, and retail deals. To qualify for the survey, respondents must have been 21 years of age or older at the time of participation and reside in of the following cities and counties in northern Virginia: Fairfax County, Loudoun County, Prince William County, Arlington County, and Alexandria.

2 SUMMARY OF 2024 FINDINGS

2.2 Participant Characteristics

The final dataset includes surveys of 500 adults residing in Northern Virginia. Northern Virginia is defined as the following cities and counties: Fairfax County, Loudoun County, Prince William County, Arlington County, and Alexandria. All participants were above 21 years of age.

A demographic summary of survey participants is provided in Table 1. Survey participants were about evenly split between women (50.0%) and men (49.6%), with 0.4% identifying as non-binary or gender non-conforming. All participants were above 21 years of age. The most common age groups were between ages 35 and 44 (22.8%) and ages 25 to 34 (21.2%). Ages 75 and older were the least common, at 7.2% of participants. White respondents make up over 50%

of the sample and African American or Black respondents comprised just over one-quarter of the sample.

The locality with the most survey respondents is Fairfax County (not Fairfax City, Herndon, or Vienna) at 17.6% followed by Loudoun County (not Leesburg) at 13.2% with Falls Church (2.4%) and Manassas Park (1.2%) having the smallest rates in the sample. Household income is fairly evenly split amongst participants, with most participants living in a household with an income between \$50,000 and \$124,999.

About three-fourths of the sample have lived in their residence between 1 and 9 years, while 22.2% have lived in their current residence for 10 to 19 years and 25.8% have for 20 or more years. A majority of participants (62.2%) own their residence. Most participants also have a lawn or garden in their home (80.2%) and a majority also own or lease a vehicle (86.0%). Slightly less than half of participants (42.8%) own at least one dog.

Almost all participants report that English is their primary language (90.6%); the remaining 9.4% of respondents report a variety of languages as their primary language. The survey was administered in English only, and therefore all respondents are fluent in English.

Respondents report working in a wide variety of occupations, though the largest occupation category reported is "retired".

Table 1. Survey participant demographic characteristics.

Demographic	Subcategory	Percentage
	Female	50.0%
Gender	Male	49.6%
	Non-binary/non-conforming	0.4%
	21 to 24	8.4%
	25 to 34	21.2%
	35 to 44	22.8%
Age	45 to 54	14.8%
	55 to 64	13.8%
	65 to 74	11.8%
	75 or older	7.2%
	Owned	62.2%
	Rented	35.0%
Residence Type	Military housing	0.6%
	Transitional housing	0.4%
	Other	1.8%

Demographic	Subcategory	Percentage
	Alexandria	13.0%
	Arlington	11.8%
	Fairfax County, but not one of the	47.60/
	cities/towns listed	17.6%
	Fairfax County: Fairfax City	9.8%
	Fairfax County: Herndon	4.0%
	Fairfax County: Vienna	3.2%
Locality	Falls Church	2.4%
	Loudoun County, but not Leesburg	13.2%
	Loudoun County: Leesburg	5.6%
	Prince William County, but not one of the	0.00/
	cities/towns listed	8.8%
	Prince William County: Dumfries	4.4%
	Prince William County: Manassas	5.0%
	Prince William County: Manassas Park	1.2%
	Accommodation/hospitality and food	0.99/
	services	0.8%
	Administrative	3.6%
	Agriculture, forestry, fishing and hunting,	1.6%
	and mining	1.0%
	Arts, entertainment, and recreation	1.4%
	Construction	4.0%
	Currently unemployed	8.4%
	Educational services	3.8%
	Finance and insurance	5.4%
	Health care and/or social assistance	5.0%
	Information or information technology	7.6%
Occupation	Manufacturing	3.0%
	Other - Write In (Required)	6.4%
	Other services	6.8%
	Professional and/or scientific	4.4%
	Public administration	2.2%
	Real estate and/or rental and leasing	1.8%
	Retail trade	8.2%
	Retired	17.0%
	Student only (no other occupation)	3.4%
	Transportation and warehousing	1.6%
	Utilities	1.2%
	Waste management services	0.4%
	Wholesale trade	2.0%
	Less than \$35,000	12.6%
	\$35,000 to \$49,999	11.2%
Income	\$50,000 to \$74,999	13.0%
	\$75,000 to \$99,999	21.2%

Demographic	Subcategory	Percentage
	\$100,000 to \$124,999	14.2%
	\$125,000 to \$149,999	9.0%
	\$150,000 to \$174,999	4.4%
	\$175,000 to \$199,999	5.4%
	\$200,000 or greater	9.0%
	African American/Black	25.0%
	American Indian/Native Alaskan	2.0%
	Asian	16.0%
Race	Hispanic/Latino	10.4%
	Native Hawaiian/Pacific Islander	0.2%
	White/Caucasian	52.2%
	Other - Write In	1.4%
	Amharic or Somali	0.2%
	Arabic	0.6%
	Chinese	0.8%
	English	90.6%
Lamanaaa	Korean	1.4%
Language	Other - Write In (Required)	1.2%
	Spanish	3.4%
	Tagalog (including Filipino)	0.6%
	Urdu	0.2%
	Vietnamese	1.0%
	Less than 1 year	7.2%
	1 to 3 years	21.8%
Residence Years	4 to 9 years	23.0%
	10 to 19 years	22.2%
	20 or more years	25.8%
Lawn or Garden at	Yes	80.2%
Residence	No	19.4%
Own or Lease a Vehicle	Yes	86.0%
Own or Lease a venicle	No	13.2%
Dog Ownorship	Yes	42.8%
Dog Ownership	No	56.6%

2.3 Behaviors and Behavioral Drivers

2.3.3 Lawn/Garden Fertilization

Respondents were asked about their behavior regarding lawns or gardens and if their residence has a lawn or garden of any size. Results are summarized in Table 2 and displayed in

Figure 1. Most of those surveyed (80.2%) report having a lawn or garden, no matter how small. Of those with a lawn or garden, 65.8% report using a lawn care service at least once per year and almost all (93.0%) are familiar with how their lawn is cared for. Respondents with lawns were asked how often their lawns were fertilized, regardless of whether fertilization was done by someone in the household or an outside service. The response options were "1 time a year", "2 times a year", "3 times a year", "4+ times a year", "Only if/when a soil test indicates the grass needs fertilizer", "Never", or "Not sure". Far fewer (11.1%) fertilize only when a soil test indicates the grass needs fertilizer, and 15.2% never fertilize their lawn or garden.

Lawn and garden fertilization behaviors generally did not differ between demographic subgroups, with the exception that home owners more frequently report being familiar with their lawn care than do renters.

Table 2. Lawn and garden fertilization behaviors by demographic group.

Demographic	Sub-category	Familiar with Lawn/ Garden Care	Lawn Care Service Used 1+ times a Year	Frequency of Lawn Fertilization					
				1x per year	2x per year	3x per year	4x per year	Only per soil test	Never
	All Respondents	93.0%	65.8%	22.9%	30.8%	9.7%	10.3%	11.1%	15.2%
Gender	Male	95.3%	64.2%	24.9%	28.0%	8.8%	9.8%	11.9%	16.6%
	Female	90.8%	68.0%	20.4%	34.7%	10.9%	10.9%	10.2%	12.9%
Age	21 to 24	87.5%	59.4%	20.8%	33.3%	12.5%	4.2%	16.7%	12.5%
	25 to 34	89.9%	77.2%	19.7%	34.8%	13.6%	12.1%	12.1%	7.6%
	35 to 44	93.9%	75.5%	16.7%	30.0%	14.4%	17.8%	11.1%	10.0%
	45 to 54	95.4%	65.6%	39.3%	25.0%	3.6%	7.1%	12.5%	12.5%
	55 to 64	92.0%	41.2%	20.5%	38.5%	2.6%	5.1%	5.1%	28.2%
	65 to 74	97.9%	58.3%	26.1%	26.1%	6.5%	4.3%	8.7%	28.3%
	75 or older	92.6%	65.4%	15.0%	30.0%	10.0%	10.0%	15.0%	20.0%
Locality	Alexandria	85.0%	72.5%	24.1%	31.0%	6.9%	13.8%	10.3%	13.8%
	Arlington	86.0%	72.7%	31.4%	22.9%	8.6%	20.0%	2.9%	14.3%
	Fairfax - Inclusive	92.1%	64.5%	24.8%	28.7%	10.1%	7.0%	12.4%	17.1%
	Prince William - Inclusive	98.8%	57.8%	23.3%	31.5%	5.5%	8.2%	15.1%	16.4%

Demographic	Sub-category	Familiar with Lawn/ Garden Care	Lawn Care Service Used 1+ times a Year	Frequency of Lawn Fertilization					
				1x per year	2x per year	3x per year	4x per year	Only per soil test	Never
	Leesburg/Loudo n	96.3%	69.6%	14.7%	37.3%	14.7%	12.0%	9.3%	12.0%
Ethnicity	Not Hispanic/Latino	92.3%	66.1%	23.6%	30.1%	9.7%	10.0%	11.3%	15.2%
	Hispanic/Latino	**	63.2%	15.6%	37.5%	9.4%	12.5%	9.4%	15.6%
Years of	Less than 1 year	83.3%	55.6%	30.8%	30.8%	7.7%	23.1%	**	7.7%
Residence	1 to 3 years	94.5%	54.2%	27.0%	31.7%	6.3%	6.3%	11.1%	17.5%
	4 to 9 years	87.4%	77.0%	15.9%	33.3%	10.1%	11.6%	15.9%	13.0%
	10 to 19 years	92.9%	71.4%	21.4%	27.4%	15.5%	11.9%	13.1%	10.7%
	20 or more years	97.6%	61.8%	25.0%	31.3%	7.1%	8.9%	8.0%	19.6%
Home	Owned	95.9%	68.5%	21.1%	31.3%	10.6%	11.3%	10.2%	15.5%
Ownership	Rented	86.9%	59.6%	27.1%	28.6%	7.1%	7.1%	15.7%	14.3%
Household Income	Less than \$35,000	90.7%	47.6%	21.2%	30.3%	6.1%	9.1%	12.1%	21.2%
	\$35,000 to \$49,999	88.6%	60.0%	25.0%	29.2%	**	8.3%	25.0%	12.5%
	\$50,000 to \$74,999	93.5%	50.0%	40.0%	20.0%	2.5%	2.5%	15.0%	20.0%
	\$75,000 to \$99,999	93.5%	71.7%	23.8%	32.5%	6.3%	11.3%	8.8%	17.5%
	\$100,000 to \$124,999	93.2%	74.1%	22.2%	27.8%	16.7%	11.1%	11.1%	11.1%
	\$125,000 to \$149,999	92.9%	76.2%	22.2%	27.8%	16.7%	8.3%	11.1%	13.9%
	\$150,000 to \$174,999	**	73.7%	5.0%	50.0%	5.0%	10.0%	15.0%	15.0%
	\$175,000 to \$199,999	95.8%	70.8%	4.3%	34.8%	30.4%	21.7%	8.7%	**
	\$200,000 or greater	92.3%	65.0%	25.8%	35.5%	6.5%	12.9%	**	19.4%

^{*} Red font indicates significant differences within a demographic subgroup.
** Insufficient data for between-group comparison.

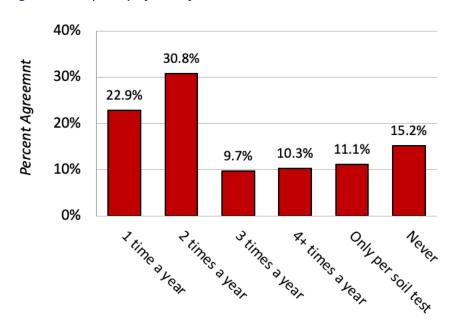


Figure 1. Frequency of lawn fertilization.

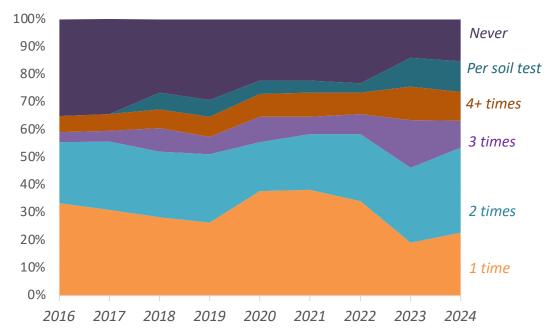
Reported frequency of lawn fertilization from 2016-2024 can be seen in Table 3. Respondents in 2020 and 2021 reported fertilizing their lawn *once per year* at higher rates than 2024 respondents. Additionally, respondents in 2020 reported lower rates of fertilizing *two* times per year than 2024 respondents. In 2022, the frequency of fertilizing per a soil test was less than in 2024 and from 2016-2019 the frequency of respondents never fertilizing their lawn was greater than in 2024.

Table 3. Lawn fertilization frequency across years.

Year of Survey									
Frequency of Lawn Fertilization	2016	2017	2018	2019	2020	2021	2022	2023	2024
1 time	33.6%	31.0%	28.4%	26.4%	37.8%	38.3%	34.3%	19.3%	22.9%
2 times	22.0%	24.8%	23.9%	24.8%	17.7%	20.3%	24.1%	27.1%	30.8%
3 times	3.6%	3.8%	8.3%	6.4%	9.2%	6.2%	7.3%	17.3%	9.7%
4+ times	5.8%	6.2%	6.8%	7.2%	8.4%	8.6%	7.7%	12.0%	10.3%
Per soil test	*	*	6.1%	6.0%	4.8%	4.5%	3.5%	10.5%	11.1%
Never	35.0%	34.3%	26.5%	29.2%	22.1%	22.1%	23.1%	13.8%	15.2%

^{*} Red font indicates that the value significantly differs from the current 2024 value. Asterisks (*) indicate that the question did not appear in the survey that year.

Figure 2. Lawn fertilization frequency across years.



2.3.4 Grass Clipping Disposal

Respondents that reported having a lawn or garden were asked how they dispose of their grass clippings. The provided response options were "Bagged and put in the regular trash", "Bagged and put in compost/recycling bags for pick up", "Left on the lawn/garden", "Put in a compost

pile/bin", "Not sure", "Other", and "Not applicable/don't have grass clippings". As shown in Table 4 and Figure 3, the most common response is bagging the grass and putting it in compost or recycling for pickup, with 35.6% providing this response. The next most common response (32.2%) is leaving the grass on their lawn/garden, while 21.3% of respondents bag it and put it in the regular trash. Finally, 10.9% report putting their grass in a compost pile or bin. Older age groups had higher rates of leaving their grass clippings on the lawn, as did people from Fairfax.

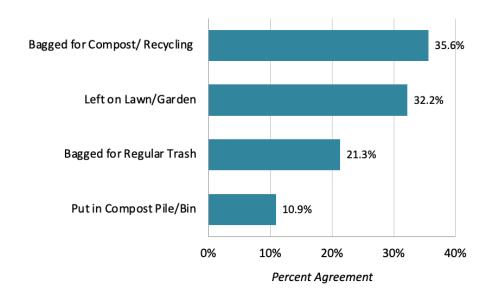
Table 4. Disposal of grass clippings by demographic group.

Demographic	Sub-category	tegory Grass Clippings Handling						
		Bagged and put in Regular Trash	Bagged and put in Compost/ Recycling for Pickup	Left on Lawn/Garden	Put in Compost Pile/Bin			
	All Respondents	21.3%	35.6%	32.2%	10.9%			
Gender	Male	20.3%	33.2%	34.8%	11.8%			
	Female	22.7%	39.0%	28.4%	9.9%			
Age	21 to 24	31.8%	27.3%	27.3%	13.6%			
	25 to 34	36.4%	27.3%	18.2%	18.2%			
	35 to 44	25.9%	42.4%	21.2%	10.6%			
	45 to 54	14.3%	41.1%	33.9%	10.7%			
	55 to 64	10.5%	34.2%	55.3%	0.0%			
	65 to 74	7.7%	41.0%	38.5%	12.8%			
	75 or older	8.7%	21.7%	65.2%	4.3%			
Locality	Alexandria	32.1%	32.1%	17.9%	17.9%			
	Arlington	18.2%	54.5%	12.1%	15.2%			
	Fairfax - Inclusive	16.0%	33.6%	42.0%	8.4%			
	Prince William - Inclusive	29.5%	29.5%	33.3%	7.7%			
	Leesburg/Loudo n	18.3%	38.0%	29.6%	14.1%			
Ethnicity	Not Hispanic/Latino	20.3%	35.9%	32.5%	11.2%			
	Hispanic/Latino	29.4%	32.4%	29.4%	8.8%			
Years of	Less than 1 year	25.0%	25.0%	33.3%	16.7%			
Residence	1 to 3 years	25.0%	31.7%	31.7%	11.7%			
	4 to 9 years	22.4%	35.8%	25.4%	16.4%			
	10 to 19 years	31.7%	31.7%	28.0%	8.5%			
	20 or more years	10.2%	41.7%	39.8%	8.3%			
Home	Owned	19.4%	36.4%	34.4%	9.9%			
Ownership	Rented	27.1%	34.3%	22.9%	15.7%			
Household Income	Less than \$35,000	29.0%	25.8%	38.7%	6.5%			

Demographic	Sub-category	Grass Clippings Handling							
		Bagged and put in Regular Trash	Bagged and put in Compost/ Recycling for Pickup	Left on Lawn/Garden	Put in Compost Pile/Bin				
	\$35,000 to \$49,999	28.0%	32.0%	36.0%	4.0%				
	\$50,000 to \$74,999	13.9%	33.3%	41.7%	11.1%				
	\$75,000 to \$99,999	20.3%	30.4%	36.7%	12.7%				
	\$100,000 to \$124,999	22.0%	40.0%	20.0%	18.0%				
	\$125,000 to \$149,999	24.3%	48.6%	16.2%	10.8%				
	\$150,000 to \$174,999	13.3%	40.0%	33.3%	13.3%				
	\$175,000 to \$199,999	27.3%	40.9%	22.7%	9.1%				
	\$200,000 or greater	14.7%	35.3%	44.1%	5.9%				

^{*} Red font indicates significant differences within a demographic subgroup.





As can be seen in Table 5, respondents in 2018 and 2019 reported leaving grass clippings on their lawn or garden at higher rates than do 2024 respondents. Otherwise, there were no significant differences between this year's survey responses to this question and previous years.

Table 5. Disposal of grass clippings across years.

Year of Survey									
Grass clipping disposal	2016	2017	2018	2019	2020	2021	2022	2023	2024
Bagged for regular trash	*	*	14.5%	17.0%	23.3%	24.6%	27.3%	25.4%	21.3%
Bagged for compost/recycling pick up	*	*	32.8%	26.4%	26.7%	32.3%	32.0%	34.1%	35.6%
Left on the lawn/garden	*	*	45.7%	48.1%	43.8%	33.7%	33.1%	30.8%	32.2%
Put in a compost pile/bin	5.8%	6.2%	7.0%	8.5%	6.3%	9.5%	7.6%	9.7%	10.9%

^{*} Red font indicates that the value significantly differs from the current 2024 value. Asterisks (*) indicate that the question did not appear in the survey that year.



Figure 4. Disposal of grass clippings across years.

Participants were also asked what is done with grass clippings if they end up in the street, if anything. The response options were "They are left there", "They are swept or blown back into the lawn", or "They are swept or blown into the storm drain". Of those with a lawn or garden, 65.5% report sweeping or blowing them back into their lawn, while 18.1% report sweeping or blowing them into the storm drain, as can be seen in Table 6 and Figure 5. Lastly, 16.5% report leaving their grass clippings in the street. Men report higher rates of leaving their grass clippings in the street, at 20.9% compared to 10.2% of women.

Table 6. Handling of grass clippings in street by demographic group.

Demographic	Sub-category	Grass Clippings on Street Handling							
		Leave There	Swept or Blown Back into the Lawn	Swept or Blown into Storm Drain					
	All Respondents	16.5%	65.5%	18.1%					
Gender	Male	20.9%	62.8%	16.3%					
	Female	10.2%	69.3%	20.4%					
Age	21 to 24	18.2%	45.5%	36.4%					
	25 to 34	12.9%	61.3%	25.8%					

0%

Demographic	Sub-category	Grass Clippings on Street Handling					
		Leave There	Swept or Blown Back into the Lawn	Swept or Blown into Storm Drain			
	35 to 44	17.2%	62.1%	20.7%			
	45 to 54	15.4%	76.9%	7.7%			
	55 to 64	22.9%	65.7%	11.4%			
	65 to 74	14.3%	71.4%	14.3%			
	75 or older	17.6%	76.5%	5.9%			
Locality	Alexandria	21.4%	60.7%	17.9%			
	Arlington	0.0%2	75.8%	24.2%			
	Fairfax - Inclusive	17.4%	65.2%	17.4%			
	Prince William - Inclusive	17.6%	66.2%	16.2%			
	Leesburg/Loudon	19.7%	62.1%	18.2%			
Ethnicity	Not Hispanic/Latino	17.2%	65.2%	17.6%			
	Hispanic/Latino	9.7%	67.7%	22.6%			
Years of	Less than 1 year	7.7%	76.9%	15.4%			
Residence	1 to 3 years	12.3%	64.9%	22.8%			
	4 to 9 years	12.3%	63.1%	24.6%			
	10 to 19 years	22.5%	63.8%	13.8%			
	20 or more years	17.9%	67.4%	14.7%			
Home	Owned	19.1%	64.4%	16.5%			
Ownership	Rented	7.4%	69.1%	23.5%			
Household	Less than \$35,000	12.0%	68.0%	20.0%			
Income	\$35,000 to \$49,999	14.8%	59.3%	25.9%			
	\$50,000 to \$74,999	11.4%	68.6%	20.0%			
	\$75,000 to \$99,999	18.4%	60.5%	21.1%			
	\$100,000 to \$124,999	16.7%	58.3%	25.0%			
	\$125,000 to \$149,999	3.1%	90.6%	6.3%			
	\$150,000 to \$174,999	29.4%	58.8%	11.8%			
	\$175,000 to \$199,999	22.7%	63.6%	13.6%			
	\$200,000 or greater	25.0%	67.9%	7.1%			

^{*} Red font indicates significant differences within a demographic subgroup.

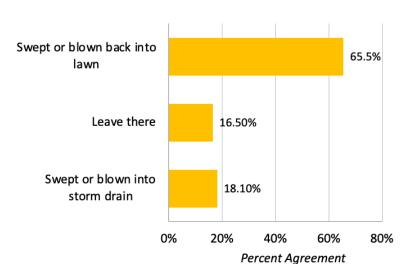


Figure 5. Handling of grass clippings in the street.

Survey respondents in 2018-2021 reported lower rates of sweeping or blowing grass clippings from the street into the storm drain than 2024 respondents. Otherwise, as shown in Table 7, there were no significant differences between previous years response rates when compared to 2024 survey response rates regarding handling of grass clippings in the street.

Table 7. Handling of grass clippings in the street across years.

Year of Survey									
Grass clippings in street	2016	2017	2018	2019	2020	2021	2022	2023	2024
Left there	*	*	27.5%	25.3%	28.3%	25.1%	23.4%	22.6%	16.5%
Swept/blow back to lawn	*	*	68.4%	69.3%	63.9%	67.0%	64.2%	60.9%	65.5%
Swept/blown to storm drain	*	*	4.1%	5.3%	7.8%	7.9%	12.4%	16.6%	18.1%

^{*} *Red font* indicates that the value significantly differs from the current 2024 value. Asterisks (*) indicate that the question did not appear in the survey that year.

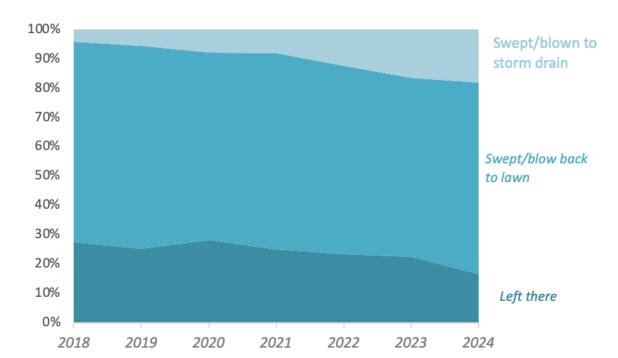


Figure 6. Handling of grass clippings in the street across years.

2.3.5 Pet Waste Pickup

Respondents who indicated they are responsible or partially responsible for at least one dog were asked how often they pick up after their dog(s) while on a walk. The response options were "Always", "Usually", "Sometimes", "Rarely", "Never", or "Not applicable/I don't take the dog(s) on walks". These respondents were also asked how often they picked up after their dog(s) in their yard, where the response options ranged from "Daily" to "Never". The responses are summarized in Table 8 and displayed in Figure 7. Of all respondents, 43.1% report having one or more dog(s) in their household for which they are at least partially responsible. Most dog owners (87.1%) report they always or usually pick up after their dog(s) on walks. Most also report picking up after their dog(s) in the yard on a daily basis (58.9%) and fewer report picking up after their dog(s) on a weekly basis (23.9%).

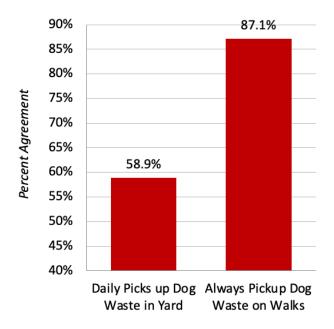
Generally, younger people reported owning dogs at a higher rate than older people. People aged 25 to 34 reported owning dogs at the highest rate (55.2%).

Table 8. Frequency of picking up dog waste by demographic group.

Demographic	Sub-category	Own a Dog	Always Pickup Dog Waste on Walks	Daily Picks up Dog Waste in Yard	Weekly Picks up Dog Waste in Yard
	All Respondents	43.1%	87.1%	58.9%	23.9%
Gender	Male	42.9%	83.7%	56.4%	26.6%
	Female	43.5%	90.6%	61.6%	20.9%
Age	21 to 24	46.3%	89.5%	58.8%	11.8%
	25 to 34	55.2%	79.3%	50.0%	36.0%
	35 to 44	51.3%	84.5%	61.2%	28.6%
	45 to 54	50.0%	94.4%	81.3%	3.1%
	55 to 64	36.2%	91.3%	47.1%	35.3%
	65 to 74	22.0%	100.0%	54.5%	18.2%
	75 or older	11.1%	100.0%	25.0%	0.0%
Locality	Alexandria	34.4%	86.4%	62.5%	25.0%
	Arlington	39.0%	78.3%	63.6%	22.7%
	Fairfax - Inclusive	41.8%	89.5%	61.9%	20.6%
	Prince William - Inclusive	47.4%	93.3%	56.4%	23.1%
	Leesburg/Loudon	49.5%	81.8%	52.5%	30.0%
Ethnicity	Not Hispanic/Latino	42.0%	88.0%	57.9%	25.8%
	Hispanic/Latino	51.9%	81.5%	66.7%	9.5%
Years of Residence	Less than 1 year	25.0%	77.8%	50.0%	25.0%
	1 to 3 years	38.0%	95.1%	58.1%	29.0%
	4 to 9 years	44.7%	86.0%	45.2%	28.6%
	10 to 19 years	57.3%	82.5%	62.7%	23.5%
	20 or more years	38.8%	89.4%	68.8%	16.7%
Home Ownership	Owned	50.5%	87.6%	60.4%	24.5%
	Rented	29.3%	90.2%	58.3%	19.4%
Household Income	Less than \$35,000	30.2%	94.4%	66.7%	13.3%
	\$35,000 to \$49,999	29.1%	87.5%	38.5%	30.8%
	\$50,000 to \$74,999	39.1%	92.0%	68.8%	18.8%
	\$75,000 to \$99,999	48.1%	80.0%	57.8%	24.4%
	\$100,000 to \$124,999	46.5%	87.9%	50.0%	36.7%
	\$125,000 to \$149,999	54.5%	87.5%	76.2%	14.3%
	\$150,000 to \$174,999	45.5%	90.0%	57.1%	14.3%
	\$175,000 to \$199,999	48.1%	75.0%	38.5%	30.8%
		51.1%	95.5%	70.0%	20.0%
* Pad font indicate	\$200,000 or greater			1 3.0,0	

^{*} Red font indicates significant differences within a demographic subgroup.





Rates of respondents reporting they "always" or "usually" pick up after their dog(s) on walks and pick after their dog(s) in the yard "daily" from 2016-2024 can be seen below in Table 9. From 2017-2022, reported rates of picking up from the yard daily were lower than in 2024. While "daily" is the most common response regarding frequency of picking in the yard in 2023 and 2024, "weekly" was the most common response in 2017-2022.

Table 9. Frequency of picking up dog waste across years.

	Year of Survey										
Survey Question Response	2016	2017	2018	2019	2020	2021	2022	2023	2024		
"Always" or "Usually" picks up after dog on walks	92.4%	92.7%	92.1%	93.0%	85.0%	86.4%	87.5%	88.7%	87.1%		
Picks up after dog in yard daily	44.6%	13.3%	12.2%	16.0%	8.3%	8.7%	9.9%	61.5%	59.9%		

^{*} *Red font* indicates that the value significantly differs from the current 2024 value.



Figure 8. Frequency of picking up dog waste across years.

Participants who indicated that they pick up dog waste with any frequency either on walks or in their own yard were asked the most important reason for doing so, the results of which can be seen in Table 10 and Figure 9. The response options were "City/county ordinance", "Don't want to step in it", "It causes water pollution", "It is gross", "It's what good neighbors do", "Odor", or "Other reason". In response to this question, 22.4% of dog owners report their most important reason being that it causes water pollution. Additionally, 18.6% report their most important reason being that it is required by city or county ordinances and 18.0% report doing so because it is what good neighbors do. Finally, 16.1% report doing so because it is gross, 14.9% don't want to step in it, and 5.0% do so because of the odor. Hispanic/Latino respondents report higher rates of picking up dog waste because of a city/county ordinance.

Table 10. Most important reason for picking up dog waste by demographic group.

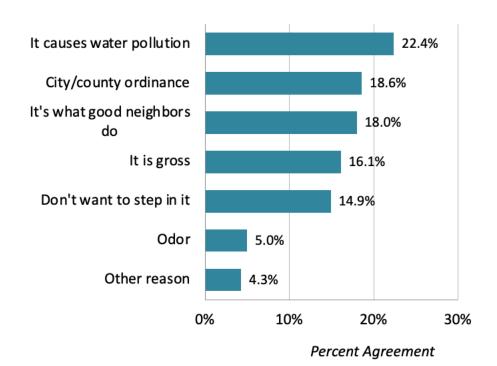
Demograph ic	Sub-category	Reason for Picking Up Dog Waste								
		City/county ordinance	Don't want to step in it	It causes water pollution	It is gross	It's what good neighbors do	Odor	Other reason		
	All Respondents	18.6%	14.9%	22.4%	16.1%	18.0%	5.0%	4.3%		

Demograph ic	Sub-category		Re	ason for Pic	king Up D	og Waste		
		City/county ordinance	Don't want to step in it	It causes water pollution	It is gross	It's what good neighbors do	Odor	Other reason
Gender	Male	21.2%	16.5%	23.5%	15.3%	18.8%	3.5%	1.2%
	Female	15.8%	13.2%	21.1%	17.1%	17.1%	6.6%	7.9%
Age	21 to 24	0.0%	21.4%	14.3%	42.9%	21.4%	0.0%	0.0%
	25 to 34	20.8%	14.6%	20.8%	16.7%	10.4%	12.5%	2.1%
	35 to 44	29.8%	12.8%	21.3%	10.6%	21.3%	2.1%	2.1%
	45 to 54	10.3%	17.2%	27.6%	13.8%	20.7%	3.4%	6.9%
	55 to 64	7.7%	7.7%	30.8%	15.4%	23.1%	0.0%	15.4%
	65 to 74	12.5%	25.0%	25.0%	12.5%	12.5%	0.0%	12.5%
	75 or older	50.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%
Locality	Alexandria	33.3%	13.3%	13.3%	13.3%	13.3%	6.7%	6.7%
	Arlington	31.8%	4.5%	45.5%	9.1%	9.1%	0.0%	0.0%
	Fairfax - Inclusive	15.5%	20.7%	17.2%	17.2%	22.4%	3.4%	3.4%
	Prince William - Inclusive	18.8%	21.9%	18.8%	18.8%	15.6%	**	6.3%
	Leesburg/Loudon	8.8%	5.9%	23.5%	17.6%	20.6%	14.7%	5.9%
Ethnicity	Not Hispanic/Latino	16.3%	14.9%	23.4%	15.6%	18.4%	5.7%	5.0%
	Hispanic/Latino	35.0%	15.0%	15.0%	20.0%	15.0%	0.0%	**
Years of	Less than 1 year	14.3%	28.6%	28.6%	14.3%	0.0%	0.0%	14.3%
Residence	1 to 3 years	14.3%	28.6%	21.4%	14.3%	17.9%	3.6%	**
	4 to 9 years	24.3%	13.5%	16.2%	18.9%	18.9%	5.4%	2.7%
	10 to 19 years	22.9%	8.3%	18.8%	14.6%	27.1%	4.2%	2.1%
	20 or more years	12.2%	12.2%	31.7%	17.1%	9.8%	7.3%	9.8%
Home	Owned	18.4%	13.6%	22.4%	17.6%	19.2%	4.8%	4.0%
Ownership	Rented	15.6%	21.9%	25.0%	12.5%	9.4%	6.3%	6.3%
Household Income	Less than \$35,000	7.7%	30.8%	23.1%	15.4%	23.1%	0.0%	**
	\$35,000 to \$49,999	27.3%	18.2%	36.4%	18.2%	0.0%	0.0%	0.0%
	\$50,000 to \$74,999	35.7%	14.3%	14.3%	14.3%	14.3%	7.1%	0.0%
	\$75,000 to \$99,999	20.5%	12.8%	15.4%	23.1%	12.8%	7.7%	7.7%
	\$100,000 to \$124,999	14.3%	10.7%	35.7%	10.7%	21.4%	7.1%	0.0%
	\$125,000 to \$149,999	25.0%	0.0%	20.0%	20.0%	15.0%	5.0%	10.0%
	\$150,000 to \$174,999	**	42.9%	0.0%	28.6%	14.3%	14.3%	**

Demograph ic	Sub-category	Reason for Picking Up Dog Waste								
		City/county ordinance	Don't want to step in it	It causes water pollution	It is gross	It's what good neighbors do	Odor	Other reason		
	\$175,000 to \$199,999	40.0%	10.0%	20.0%	0.0%	30.0%	**	**		
	\$200,000 or greater	**	21.1%	26.3%	10.5%	31.6%	**	10.5%		

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 9. Reason for picking up dog waste.



Below, in Table 11, survey responses from 2016-2024 regarding reasons for picking up dog waste can be seen. In 2016, fewer respondents reported their reason for picking up dog waste as a city or county ordinance, compared to 2024 respondents. Survey respondents in 2020 reported lower rates of picking up dog waste because it causes water pollution, compared to 2024 respondents. Finally, respondents to this survey question in the years 2016, 2017, 2019, and 2020

^{**} Insufficient data for between-group comparison.

reported higher rates of picking up dog waste because it's what good neighbors do, compared to 2024 respondents.

Table 11. Reason for picking up dog waste across years.

	Year of Survey											
Reason	2016	2017	2018	2019	2020	2021	2022	2023	2024			
City/county ordinance	5.5%	9.2%	11.1%	9.4%	27.0%	21.6%	21.4%	24.9%	18.6%			
Don't want to step in it	29.5%	18.4%	15.0%	13.5%	10.1%	13.7%	13.9%	19.8%	14.9%			
It causes water pollution	17.8%	19.1%	18.3%	14.6%	9.6%	13.7%	16.8%	14.8%	22.4%			
It is gross	*	*	25.5%	18.1%	15.2%	14.1%	12.2%	19.4%	16.1%			
It's what good neighbors do	40.4%	48.7%	24.8%	36.3%	33.7%	30.3%	31.9%	16.9%	18.0%			
Odor	4.1%	3.3%	*	3.5%	1.1%	4.1%	2.5%	3.4%	5.0%			
Other reason	2.7%	1.3%	5.2%	4.7%	3.4%	2.5%	1.3%	0.8%	4.3%			

^{*} Red font indicates that the value significantly differs from the current 2024 value. Asterisks (*) indicate that the question did not appear in the survey that year.

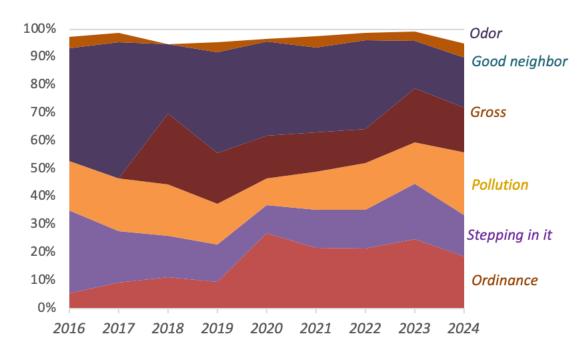


Figure 10. Reason for picking up pet waste across years.

2.3.6 Behaviors Related to Vehicles

Respondents were next asked about their behavior regarding changing motor oil and how the used motor oil is disposed. Because the survey queries knowledge and behaviors regarding changing the motor oil of their personal vehicles, respondents were first asked if they own a personal vehicle. The majority of respondents (86.7%) report having a personal vehicle that they own or lease, as seen in Table 12. Alexandria and Arlington had lower rates of owning or leasing a personal vehicle while Leesburg/Loudon had the highest rates. People who own their home have higher rates of owning or leasing a vehicle and rates of vehicle ownership tended to increase with higher household incomes.

2.3.6.1 Disposing of Motor Oil

Those who own or lease a personal vehicle were then asked how they dispose of motor oil when their vehicle oil is changed (Table 12 and Figure 11). Response options were "I don't change the oil myself/I take it to a garage/oil change service", "Take the motor oil to a gas station or hazmat facility for recycling", "Store it in my garage", "Put it in the trash", "Dump it in the gutter or down the storm sewer", "Dump it down the sink", "Dump it on the ground", and an option to

write-in another method not listed. Most of these respondents (59.8%) report taking their vehicle to a garage or oil changing service when the oil needs to be changed. Additionally, 23.5% report taking the old motor oil to a gas station or hazmat facility, 7.0% store it in their garage, 5.6% put it in the trash, 1.6% dump it in the gutter or storm drain, 1.2% dump it on the ground, and no respondents report dumping it down the sink.

Men reported using a gas station or hazmat facility at higher rates than women. Older respondents reported higher rates of using an oil change service, as did Hispanic/Latino respondents and renters. Hispanic/Latino respondents also reported higher rates of putting their motor oil in the trash. Finally, home owners reported higher rates of using a gas station or hazmat facility.

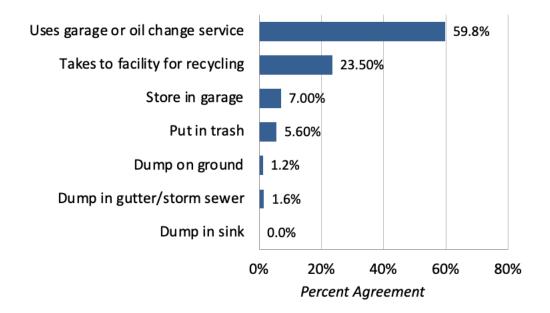
Table 12. Vehicle possession and motor oil disposal by demographic group.

Demographic	Sub-category	Own or Lease Vehicle	Motor Oil Disposal								
		Yes, own/ lease vehicle	Uses a Garage or Oil Change Service	Gas Station or Hazmat Facility	Store in Garage	Put in the Trash	Dump in Gutter or Storm Sewer	Dump in Sink	Dump on Ground		
	All Respondents	86.7%	59.8%	23.5%	7.0%	5.6%	1.6%	0.0%	1.2%		
Gender	Male	87.1%	56.0%	28.2%	6.0%	6.0%	0.5%	1.4%	1.9%		
	Female	87.0%	63.6%	18.7%	7.9%	5.1%	2.8%	0.9%	0.9%		
Age	21 to 24	85.4%	51.4%	31.4%	8.6%	5.7%	2.9%	0.0%	0.0%		
	25 to 34	89.5%	47.9%	26.6%	10.6%	10.6%	2.1%	1.1%	1.1%		
	35 to 44	88.5%	40.0%	28.0%	15.0%	11.0%	3.0%	3.0%	0.0%		
	45 to 54	83.8%	71.0%	22.6%	1.6%	1.6%	0.0%	0.0%	3.2%		
	55 to 64	88.4%	70.5%	27.9%	1.6%	0.0%	0.0%	0.0%	0.0%		
	65 to 74	83.1%	87.8%	8.2%	0.0%	0.0%	2.0%	2.0%	0.0%		
	75 or older	82.9%	82.8%	6.9%	0.0%	0.0%	0.0%	0.0%	10.3%		
Locality	Alexandria	80.0%	71.2%	15.4%	3.8%	9.6%	0.0%	0.0%	0.0%		
	Arlington	78.0%	50.0%	28.3%	10.9%	8.7%	0.0%	0.0%	2.2%		
	Fairfax - Inclusive	89.1%	64.4%	22.1%	6.1%	4.9%	1.8%	0.0%	0.6%		
	Prince William - Inclusive	84.5%	56.1%	24.4%	4.9%	4.9%	2.4%	4.9%	2.4%		
	Leesburg/Loudon	94.6%	52.9%	27.6%	10.3%	3.4%	2.3%	1.1%	2.3%		
Ethnicity	Not Hispanic/Latino	86.9%	61.4%	22.8%	6.5%	4.7%	1.8%	1.3%	1.6%		
	Hispanic/Latino	84.6%	45.5%	29.5%	11.4%	13.6%	**	**	**		
	Less than 1 year	75.0%	70.4%	7.4%	11.1%	7.4%	3.7%	0.0%	0.0%		

Demographic	Sub-category	Own or Lease Vehicle	Motor Oil Disposal								
		Yes, own/ lease vehicle	Uses a Garage or Oil Change Service	Gas Station or Hazmat Facility	Store in Garage	Put in the Trash	Dump in Gutter or Storm Sewer	Dump in Sink	Dump on Ground		
Years of	1 to 3 years	83.5%	67.0%	22.0%	4.4%	3.3%	2.2%	1.1%	0.0%		
Residence	4 to 9 years	85.8%	57.7%	21.6%	8.2%	7.2%	3.1%	1.0%	1.0%		
	10 to 19 years	90.0%	43.4%	27.3%	13.1%	9.1%	0.0%	3.0%	4.0%		
	20 or more years	90.6%	67.2%	26.7%	1.7%	2.6%	0.9%	0.0%	0.9%		
Home	Owned	94.5%	55.7%	27.1%	7.2%	5.5%	1.7%	1.0%	1.7%		
Ownership	Rented	74.7%	67.7%	16.9%	6.9%	4.6%	1.5%	1.5%	0.8%		
Household	Less than \$35,000	60.3%	60.5%	26.3%	0.0%	2.6%	5.3%	2.6%	2.6%		
Income	\$35,000 to \$49,999	76.4%	57.1%	23.8%	7.1%	7.1%	2.4%	0.0%	2.4%		
	\$50,000 to \$74,999	95.3%	67.2%	19.7%	6.6%	4.9%	0.0%	0.0%	1.6%		
	\$75,000 to \$99,999	89.6%	63.2%	17.9%	9.5%	7.4%	1.1%	1.1%	0.0%		
	\$100,000 to \$124,999	90.0%	50.8%	28.6%	7.9%	4.8%	3.2%	1.6%	3.2%		
	\$125,000 to \$149,999	91.1%	56.1%	22.0%	14.6%	4.9%	2.4%	**	**		
	\$150,000 to \$174,999	95.5%	66.7%	14.3%	4.8%	14.3%	**	**	**		
	\$175,000 to \$199,999	96.2%	56.0%	28.0%	4.0%	4.0%	**	8.0%	0.0%		
	\$200,000 or greater	97.8%	59.1%	34.1%	2.3%	2.3%	**	**	2.3%		

^{*} Red font indicates significant differences within a demographic subgroup.
** Insufficient data for between-group comparison.





Reported motor oil handling behaviors from years 2016-2024 can be seen below in Table 13. First, reported use of using a garage or oil change service were higher from years 2016-2022 than in 2024. Survey respondents from years 2016-2020 along with 2022 report less frequent use of recycling facilities than 2024 respondents. Additionally, respondents in 2016-2021 reported less frequent oil storage, and respondents in 2016-2019 reported putting their motor oil in the trash less frequently than 2024 respondents.

Table 13. Motor oil handling behaviors across years.

			Ye	ar of Surv	еу				
Motor oil disposal	2016	2017	2018	2019	2020	2021	2022	2023	2024
Uses a Garage or Oil Change Service	79.8%	83.7%	85.7%	86.5%	76.8%	73.7%	78.9%	60.7%	59.8%
Facility for Recycling	13.0%	11.6%	9.8%	8.8%	11.5%	16.0%	10.5%	21.0%	23.5%
Store	1.8%	2.0%	2.5%	1.9%	5.9%	3.9%	4.0%	7.6%	7.0%
Put in the Trash	1.6%	1.2%	0.8%	1.0%	3.1%	4.1%	4.0%	5.7%	5.6%
Dump in Gutter/Sewer	0.0%	0.4%	0.4%	0.8%	1.5%	1.2%	1.5%	1.9%	1.6%
Dump in Sink	0.0%	0.0%	0.4%	0.4%	0.6%	0.4%	0.6%	1.3%	0.0%
Dump on Ground	3.4%	0.0%	0.0%	0.4%	0.0%	0.2%	0.4%	1.3%	1.2%

^{*} Red font indicates that the value significantly differs from the current 2024 value.

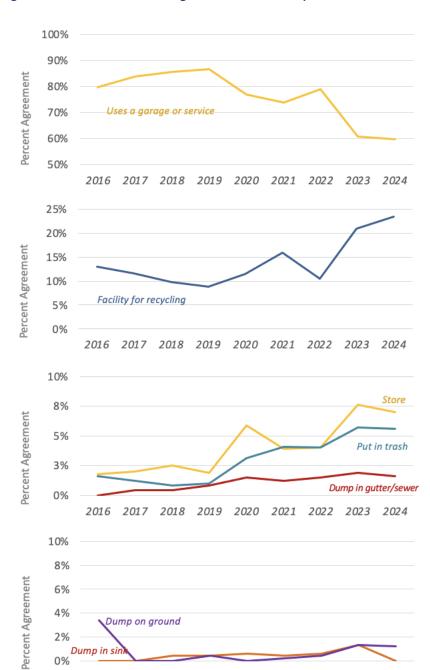


Figure 12. Motor oil handling behaviors across years.

2.3.6.2 Vehicle Washing

Dump in sir

2016

2018

2019

2020

2021

2022

0%

Participants who reported owning or leasing a vehicle were also asked about their vehicle washing behaviors. Respondents were asked where they have washed their personal vehicle in the past year, with response options being "At my home or someone else's home", "At a

commercial car wash", "I haven't washed my vehicle", and the option to write in another response not listed. Of those who own or lease a personal vehicle, 37.4% said they wash their car/truck at home, as shown in Table 14 and Figure 13. Home owners report washing their vehicle at home at higher rates than renters.

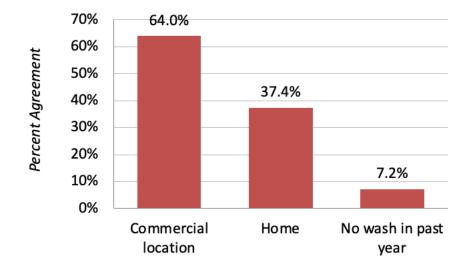
Table 14. Vehicle washing behaviors by demographic group.

Demographic	Sub-category	Wash Car at Home	Wash Car in Grass, Gravel, or Dirt	Wash Car using Enviro- Friendly Detergent	Wash Car using only Water (No Soap)	Wash Car at Commercia I Location	Have not Washed Car in Past Year
	All Respondents	37.4%	52.7%	51.6%	21.6%	64.0%	7.2%
Gender	Male	41.5%	46.1%	51.0%	26.7%	66.5%	6.0%
	Female	33.6%	60.7%	52.4%	15.5%	62.0%	8.4%
Age	21 to 24	40.5%	75.0%	37.5%	29.4%	69.0%	4.8%
_	25 to 34	43.4%	58.7%	65.2%	22.7%	72.6%	11.3%
	35 to 44	45.6%	61.5%	53.8%	28.8%	65.8%	3.5%
	45 to 54	43.2%	59.4%	43.8%	12.5%	56.8%	6.8%
	55 to 64	24.6%	17.6%	41.2%	11.8%	60.9%	10.1%
	65 to 74	28.8%	29.4%	52.9%	11.8%	54.2%	5.1%
	75 or older	16.7%	**	33.3%	33.3%	63.9%	8.3%
Locality	Alexandria	33.8%	45.5%	54.5%	36.4%	61.5%	10.8%
	Arlington	40.7%	66.7%	75.0%	9.1%	64.4%	5.1%
	Fairfax - Inclusive	36.8%	50.0%	36.8%	20.6%	61.1%	10.8%
	Prince William - Inclusive	33.0%	37.5%	40.6%	28.1%	67.0%	2.1%
	Leesburg/Loudo n	43.6%	65.0%	70.0%	17.1%	68.1%	4.3%
Ethnicity	Not Hispanic/Latino	38.2%	51.2%	52.9%	21.9%	63.2%	7.1%
	Hispanic/Latino	30.8%	68.8%	37.5%	18.8%	71.2%	7.7%
Years of	Less than 1 year	19.4%	42.9%	42.9%	14.3%	52.8%	8.3%
Residence	1 to 3 years	31.2%	44.1%	32.4%	15.2%	67.0%	5.5%
	4 to 9 years	38.3%	46.5%	60.5%	27.9%	60.0%	8.7%
	10 to 19 years	44.1%	65.3%	57.1%	30.6%	70.3%	5.4%
	20 or more years	41.1%	52.8%	52.8%	13.2%	62.8%	8.5%
Home	Owned	45.0%	54.0%	54.0%	21.0%	70.1%	7.7%
Ownership	Rented	25.1%	50.0%	45.5%	25.0%	54.3%	6.9%
Household Income	Less than \$35,000	28.6%	50.0%	44.4%	16.7%	36.5%	3.2%
	\$35,000 to \$49,999	17.9%	60.0%	50.0%	30.0%	58.9%	5.4%
	\$50,000 to \$74,999	38.5%	58.3%	37.5%	29.2%	64.6%	7.7%

Demographic	Sub-category	Wash Car at Home	Wash Car in Grass, Gravel, or Dirt	Wash Car using Enviro- Friendly Detergent	Wash Car using only Water (No Soap)	Wash Car at Commercia I Location	Have not Washed Car in Past Year
	\$75,000 to \$99,999	41.5%	40.9%	43.2%	20.9%	74.5%	5.7%
	\$100,000 to \$124,999	47.9%	50.0%	55.9%	14.7%	62.0%	14.1%
	\$125,000 to \$149,999	51.1%	52.2%	82.6%	21.7%	71.1%	4.4%
	\$150,000 to \$174,999	40.9%	66.7%	55.6%	22.2%	68.2%	4.5%
	\$175,000 to \$199,999	33.3%	88.9%	66.7%	44.4%	74.1%	11.1%
	\$200,000 or greater	33.3%	53.3%	40.0%	13.3%	71.1%	8.9%

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 13. Vehicle washing locations.



^{**} Insufficient data for between-group comparison.

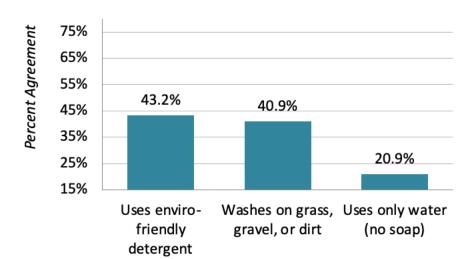


Figure 14. Desirable behaviors associated with vehicle washing.

Below, Table 15 displays reported rates of vehicle washing behaviors from 2018-2024. Notably, reported rates of washing vehicles on grass, gravel or dirt were lower in 2018, 2019 and 2022 than in 2024. Additionally, reported use of only water to wash vehicles was lower in years 2018-2022 than in 2024.

Table 15. Vehicle washing behaviors across years.

Year of Survey										
Vehicle washing behavior	2018	2019	2020	2021	2022	2023	2024			
Wash on grass, gravel or dirt	18.8%	27.7%	40.1%	41.0%	36.0%	52.6%	52.7%			
Use environmentally friendly detergent	45.6%	39.9%	49.2%	47.5%	51.7%	60.3%	51.6%			
Use water only	10.7%	10.1%	9.6%	8.0%	10.0%	28.5%	21.6%			

^{*} *Red font* indicates that the value significantly differs from the current 2024 value.

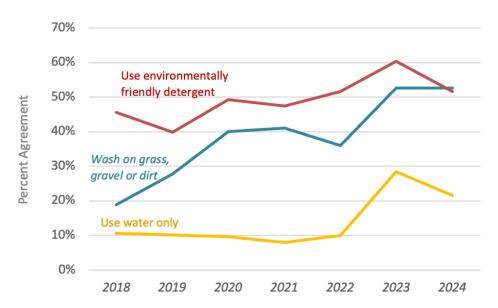


Figure 15. Vehicle washing behaviors across years.

Those who reported washing their vehicle at home were asked about their water quality-related behaviors when washing their car. Response options were "Yes", "No", and "Not sure" for the following statements:

- I wash it on the grass, gravel, or dirt
- I use environmentally friendly detergent
- I use water only (no soap or detergent)

Of the 21.0% of respondents that wash their vehicle at home, 52.7% report washing it on the grass, gravel, or dirt (Table 14 and Figure 14). Additionally, 51.6% report using environmentally friendly detergent. Respondents from Fairfax reported using environmentally friendly detergent at lower rates than respondents in other areas. Finally, 21.6% report only using water. A majority, 64.0%, report washing their vehicle at a commercial car wash. Home owners report washing their vehicle at commercial locations at higher rates than renters.

Next, those who report washing their vehicle at home were asked how many times per year they do so, with response options being "Less than once a year", "1-2 times per year", "3-4 times per year", "5-6 times per year", "7-12 times per year", "12+ times per year". These response rates can be seen in Table 16 and Figure 16. The most common response, at 27.3%, was 3-4 times per

year. Next, 23.5% report washing their vehicle at home 1-2 times per year, and 19.8% do so 5-6 times per year. Less commonly, 13.9% of those who wash their personal vehicle at home report doing so 7-12 times per year, 12.8% report doing so 12+ times per year, and 2.7% do so less than once per year. Hispanic participants reported washing vehicles 3-4 times per year at a lower rate than non-Latinos, 14.0% compared to 28.1% respectively. There are otherwise no demographic trends among frequency of home car washing.

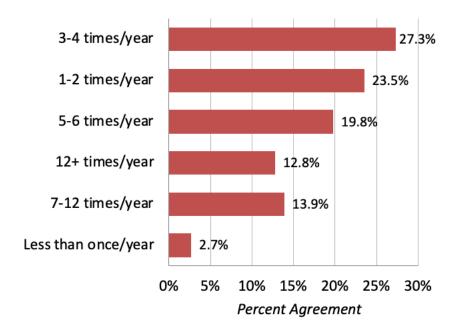
Table 16. Frequency of car washing at home by demographic group.

Demographic	Sub-category	Frequency of Car Washing at Home							
		Less than once a year	1-2 times per year	3-4 times per year	5-6 times per year	7-12 times per year	12+ times per year		
	All Respondents	2.7%	23.5%	27.3%	19.8%	13.9%	12.8%		
Gender	Male	4.0%	21.4%	24.6%	20.6%	13.3%	16.1%		
	Female	4.2%	25.7%	29.9%	16.2%	11.4%	12.6%		
Age	21 to 24	6.1%	31.8%	28.8%	10.6%	10.6%	12.1%		
	25 to 34	2.7%	20.0%	23.6%	20.0%	14.5%	19.1%		
	35 to 44	4.9%	14.8%	19.7%	26.2%	14.8%	19.7%		
	45 to 54	5.9%	29.4%	33.3%	13.7%	11.8%	5.9%		
	55 to 64	3.3%	23.3%	33.3%	13.3%	13.3%	13.3%		
	65 to 74	0.0%	30.0%	43.3%	13.3%	6.7%	6.7%		
	75 or older	0.0%	50.0%	25.0%	25.0%	0.0%	0.0%		
Locality	Alexandria	5.4%	23.2%	21.4%	10.7%	16.1%	23.2%		
	Arlington	4.8%	21.4%	33.3%	19.0%	4.8%	16.7%		
	Fairfax - Inclusive	4.7%	27.6%	22.4%	18.8%	11.8%	14.7%		
	Prince William - Inclusive	3.9%	24.7%	32.5%	14.3%	11.7%	13.0%		
	Leesburg/Loudon	1.4%	11.1%	30.6%	29.2%	18.1%	9.7%		
Ethnicity	Not Hispanic/Latino	4.0%	23.5%	28.1%	18.2%	12.8%	13.4%		
	Hispanic/Latino	4.7%	18.6%	14.0%	23.3%	11.6%	27.9%		
Years of	Less than 1 year	13.0%	21.7%	21.7%	4.3%	26.1%	13.0%		
Residence	1 to 3 years	4.1%	27.8%	26.8%	13.4%	9.3%	18.6%		
	4 to 9 years	2.8%	23.9%	26.6%	16.5%	11.0%	19.3%		
	10 to 19 years	4.2%	17.7%	24.0%	27.1%	18.8%	8.3%		
	20 or more years	3.3%	22.8%	30.4%	21.7%	8.7%	13.0%		
Home	Owned	3.7%	22.6%	26.9%	22.3%	11.3%	13.3%		
Ownership	Rented	4.6%	24.8%	26.6%	7.3%	16.5%	20.2%		
	Less than \$35,000	6.3%	37.5%	28.1%	3.1%	15.6%	9.4%		

Demographic	Sub-category	Frequency of Car Washing at Home						
		Less than once a year	1-2 times per year	3-4 times per year	5-6 times per year	7-12 times per year	12+ times per year	
Household Income	\$35,000 to \$49,999	3.1%	25.0%	25.0%	9.4%	18.8%	18.8%	
	\$50,000 to \$74,999	4.3%	25.7%	14.3%	22.9%	17.1%	15.7%	
	\$75,000 to \$99,999	2.3%	24.1%	19.5%	18.4%	16.1%	19.5%	
	\$100,000 to \$124,999	5.2%	13.8%	43.1%	19.0%	8.6%	10.3%	
	\$125,000 to \$149,999	3.6%	27.3%	29.1%	23.6%	3.6%	12.7%	
	\$150,000 to \$174,999	3.8%	7.7%	38.5%	19.2%	11.5%	19.2%	
	\$175,000 to \$199,999	10.5%	21.1%	21.1%	26.3%	15.8%	5.3%	
	\$200,000 or greater	2.6%	21.1%	31.6%	21.1%	7.9%	15.8%	

^{*} *Red font* indicates significant differences within a demographic subgroup.

Figure 16. Frequency of car washing at home.



2.3.7 Home Landscaping Water Conservation

Respondents were asked about their familiarity with and possession of various water conservation methods including rain barrels, rain gardens, and conservation landscaping. Results are summarized in Table 17 and displayed in Figure 17. Survey participants were given a definition of each conservation method and asked "Which of the following statements are true for you?" with response options "Yes", "No", and "Don't know" for the listed statements (using rain barrels as an example):

- I have a rain barrel.
- I am familiar with rain barrels.
- I don't have a rain barrel but I'm interested in getting one.

When asked about rain barrels, 25.0% report having one, 70.4% report being familiar with them, and 38.2% are interested in getting one. Regarding rain gardens, 21.6% have one, 43.8% are familiar with them and 33.3% are interested in getting one. Finally, when asked about their familiarity with conservation landscaping, 28.6% report having it, 50.8% report being familiar with it and 33.3% report being interested in installing it.

Table 17. Familiarity with home water conservation methods by demographic group.

Demographic	Sub-category	Have Rain Barrel	Familiar with Rain Barrel	Want a Rain Barrel	Have Rain Garden	Familiar with Rain Garden	Want a Rain Garden	Have Cons. Landsca pe	Familiar with Cons. Landscap e	Want Cons. Landsca pe
	All Respondents	25.0%	70.4%	38.2%	21.6%	43.8%	33.3%	28.6%	50.8%	33.3%
Gender	Male	22.6%	74.6%	42.3%	22.5%	48.5%	36.8%	33.1%	56.8%	34.6%
	Female	27.5%	66.0%	34.6%	20.9%	39.1%	30.2%	24.4%	45.1%	32.0%
Age	21 to 24	17.1%	48.7%	52.6%	17.5%	46.3%	30.8%	32.5%	51.2%	31.6%
	25 to 34	39.8%	62.1%	37.1%	32.3%	53.0%	40.4%	34.6%	49.5%	36.9%
	35 to 44	40.2%	70.9%	43.9%	35.1%	53.1%	37.6%	36.6%	58.0%	38.9%
	45 to 54	24.7%	75.7%	40.3%	16.9%	44.4%	32.9%	27.8%	55.6%	38.0%
	55 to 64	10.4%	79.7%	36.9%	7.5%	30.9%	33.8%	14.9%	37.3%	30.8%
	65 to 74	5.4%	74.1%	28.6%	12.3%	32.7%	23.6%	25.0%	51.9%	25.5%
	75 or older	**	82.4%	21.2%	3.1%	24.2%	15.2%	12.5%	45.5%	14.7%
Locality	Alexandria	12.3%	65.6%	39.1%	15.9%	50.0%	34.4%	12.3%	46.9%	32.8%
	Arlington	42.1%	80.4%	29.8%	33.3%	52.7%	29.1%	32.1%	52.7%	37.7%

Demographic	Sub-category	Have Rain Barrel	Familiar with Rain Barrel	Want a Rain Barrel	Have Rain Garden	Familiar with Rain Garden	Want a Rain Garden	Have Cons. Landsca pe	Familiar with Cons. Landscap e	Want Cons. Landsca pe
	Fairfax - Inclusive	16.8%	64.0%	42.0%	16.4%	39.1%	31.6%	27.0%	49.2%	30.9%
	Prince William - Inclusive	21.1%	70.2%	40.0%	15.6%	37.9%	31.3%	22.9%	41.5%	38.7%
	Leesburg/ Loudon	44.3%	80.2%	33.3%	35.6%	49.5%	40.7%	47.7%	65.6%	30.2%
Ethnicity	Not Hispanic/Lati no	24.6%	71.7%	37.3%	22.3%	43.3%	32.1%	29.9%	50.3%	32.2%
	Hispanic/Lati no	28.6%	59.2%	46.8%	14.9%	48.0%	43.8%	16.7%	54.9%	43.5%
Years of Residence	Less than 1 year	13.9%	54.3%	45.7%	8.8%	37.1%	37.1%	14.7%	40.0%	44.1%
	1 to 3 years	13.0%	62.3%	42.1%	13.6%	39.0%	33.3%	19.6%	40.2%	38.1%
	4 to 9 years	24.1%	67.3%	46.7%	20.7%	45.9%	38.3%	19.6%	56.8%	34.6%
	10 to 19 years	34.6%	73.8%	45.8%	26.4%	46.3%	39.6%	41.5%	54.2%	38.3%
	20 or more years	31.4%	81.6%	18.3%	28.5%	45.5%	22.1%	37.1%	54.9%	20.7%
Home	Owned	32.8%	75.7%	36.9%	26.8%	47.2%	33.2%	35.9%	57.2%	33.7%
Ownership	Rented	11.0%	62.0%	40.1%	10.8%	37.1%	33.9%	15.9%	40.1%	32.9%
Household Income	Less than \$35,000	14.5%	54.8%	36.1%	9.8%	36.1%	29.5%	16.1%	40.3%	30.0%
	\$35,000 to \$49,999	16.7%	67.9%	44.2%	15.1%	38.2%	35.3%	16.4%	37.7%	30.8%
	\$50,000 to \$74,999	16.1%	65.0%	38.1%	17.7%	36.1%	27.4%	23.8%	46.8%	27.9%
	\$75,000 to \$99,999	26.0%	68.0%	43.7%	19.6%	38.2%	33.3%	25.5%	45.6%	37.5%
	\$100,000 to \$124,999	36.2%	63.8%	38.6%	33.3%	52.9%	45.6%	38.2%	64.7%	42.9%
	\$125,000 to \$149,999	38.6%	81.8%	30.2%	35.6%	53.3%	25.0%	40.0%	62.2%	25.0%
	\$150,000 to \$174,999	33.3%	90.5%	30.0%	23.8%	57.1%	35.0%	52.4%	66.7%	21.1%
	\$175,000 to \$199,999	42.3%	85.2%	31.8%	40.0%	72.0%	36.4%	45.8%	73.1%	45.5%
	\$200,000 or greater	14.3%	88.6%	35.7%	11.9%	38.6%	31.0%	27.9%	45.2%	31.0%

^{*} *Red font* indicates significant differences within a demographic subgroup.

There were no significant differences in response rates regarding home water conservation methods from 2023 to 2024. These can be seen below in Table 18.

^{**} Insufficient data for between-group comparison

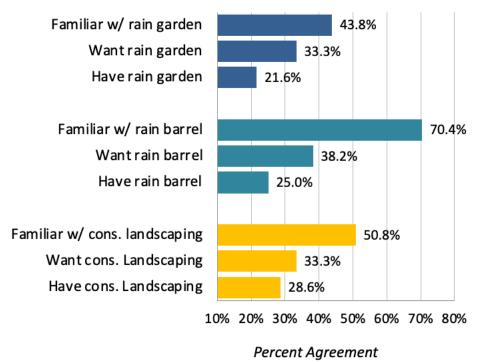
Table 18. Familiarity with home water conservation methods across years.

			Year o	f Survey			
Survey Question Response	2018	2019	2020	2021	2022	2023	2024
Have Rain Barrel	*	*	*	*	*	27.7%	25.0%
Familiar Rain Barrel	*	*	*	*	*	70.7%	70.4%
Want Rain Barrel	*	*	*	*	*	44.9%	38.2%
Have Rain Garden	*	*	*	*	*	25.5%	21.6%
Familiar Rain Garden	*	*	*	*	*	50.5%	43.8%
Want Rain Garden	*	*	*	*	*	41.6%	33.3%
Have Conservation Landscaping	*	*	*	*	*	37.1%	28.6%
Familiar Conservation Landscaping	*	*	*	*	*	59.1%	50.8%
Want Conservation Landscaping	*	*	*	*	*	42.0%	33.3%

^{*} Red font indicates that the value significantly differs from the current 2024 value. There are no significant differences from the 2024 value in this table.

^{*} Question did not appear on survey.





Men show greater familiarity with rain barrels and conservation landscaping as well as higher rates of currently having conservation landscaping, as shown in Table 17. Respondents aged 35 to 44 report the greatest frequency of having a rain barrel and having a rain garden.

Leesburg/Loudon residents reported the highest frequency of having a rain barrel, a rain garden, and conservation landscaping, compared to other localities. Additionally, they also exhibit the

highest rates of being familiar with conservation landscaping. Respondents who have lived in their homes for longer periods of time tended to report having rain barrels and conservation landscaping at higher rates than those who have lived in their residences for shorter periods of times. They also reported higher rates of being familiar with rain barrels. Home owners reported higher rates of having rain barrels, rain gardens, and conservation landscaping than renters. They also reported higher rates of familiarity with rain barrels and conservation landscaping. Finally, people with higher household incomes tended to report higher rates of familiarity with rain barrels.

2.3.8 Engagement in Water Quality Improvement Activities

Respondents were asked about their awareness of and engagement in community activities that promote better water quality in the past 12 months. Results are summarized in Table 19 and displayed in Figure 18. When asked about their familiarity with water quality activities, 25.9% report being aware of a water quality activity in the past 12 months. Respondents in Arlington reported the highest rates of awareness, as did home owners. Of those who were aware of an event in the past 12 months, 53.5% report participating in the event. Men reported higher rates of participation compared to women. People who have lived in their residence for only 1 to 3 years reported the lowest rates of participation.

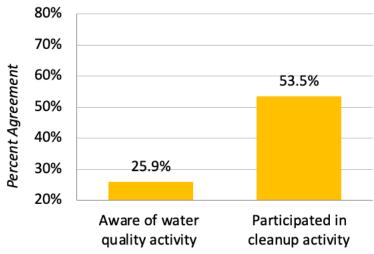
Table 19. Cleanup engagement behaviors by demographic group.

Demographic	Sub-category	Aware of Water Quality Activity in Last 12 Months	Participated in Cleanup Activity in Last 12 Months
	All Respondents	25.9%	53.5%
Gender	Male	27.0%	62.7%
	Female	24.9%	43.5%
Age	21 to 24	19.0%	62.5%
	25 to 34	36.8%	61.5%
	35 to 44	35.4%	65.0%
	45 to 54	18.9%	42.9%
	55 to 64	15.9%	45.5%
	65 to 74	15.3%	22.2%
	75 or older	22.2%	12.5%
Locality	Alexandria	21.5%	35.7%
	Arlington	40.7%	58.3%
	Fairfax - Inclusive	23.8%	38.6%
	Prince William - Inclusive	19.6%	68.4%
	Leesburg/Loudon	30.1%	71.4%
Ethnicity	Not Hispanic/Latino	26.0%	52.6%
	Hispanic/Latino	25.0%	61.5%
Years of Residence	Less than 1 year	19.4%	42.9%
	1 to 3 years	18.3%	25.0%
	4 to 9 years	26.1%	70.0%
	10 to 19 years	33.6%	59.5%
	20 or more years	27.1%	51.4%
Home Ownership	Owned	30.6%	56.8%
	Rented	17.1%	46.7%

Demographic	Sub-category	Aware of Water Quality Activity in Last 12 Months	Participated in Cleanup Activity in Last 12 Months
Household Income	Less than \$35,000	23.8%	26.7%
	\$35,000 to \$49,999	19.6%	63.6%
	\$50,000 to \$74,999	10.8%	57.1%
	\$75,000 to \$99,999	29.2%	45.2%
	\$100,000 to \$124,999	39.4%	50.0%
	\$125,000 to \$149,999	35.6%	81.3%
	\$150,000 to \$174,999	27.3%	33.3%
	\$175,000 to \$199,999	34.6%	77.8%
	\$200,000 or greater	13.3%	66.7%

^{*} *Red font* indicates significant differences within a demographic subgroup.

Figure 18. Cleanup activity engagement.



Response rates regarding cleanup engagement behaviors from years 2018-2024 can be seen below in Table 20. Respondents in 2018 and 2019 reported lower rates of participating in activities than 2024 respondents. Otherwise, there were no significant differences in previous years responses when compared to 2024.

Table 20. Cleanup engagement behaviors across years.

	Year of Survey									
Survey Question Response										
Heard about activities	24.6%	21.0%	25.2%	30.4%	24.4%	33.2%	25.9%			
Participated in activities	26.0%	29.5%	60.3%	53.9%	59.8%	68.5%	53.5%			

^{*} Red font indicates that the value significantly differs from the current 2024 value. There are no significant differences from the 2024 value in this table.

2.3.9 Roadway Materials

Four new questions were added to the 2024 survey instrument to measure residents' behaviors and perceptions related to roadway materials for icy conditions. The new questions are:

- During snowy and icy conditions, how often (if at all) do you (or a family member) apply deicer (e.g., salt) at your residence? [always or most of the time, frequently, sometimes, occasionally, rarely, never, don't know]
- [skipped if the "rarely" or "never" was given in the previous question] **Do you (or a family member) typically apply deicer (e.g., salt) at your residence before, during, or after a winter storm event?** [Select all that apply: Before, During. After Depends / varies too much to say, Other, Don't know]
- During snowy and icy conditions, how often (if at all) do you (or a family member) apply an abrasive for traction (e.g., sand) at your residence? [always or most of the time, frequently, sometimes, occasionally, rarely, never, don't know]
- In general, how would you rate the impact (if any) on each of the following from using salt for winter storm events? [5-point scale from "very positive" to "ery negative", and "don't know/not sure"]: Tap/Drinking water, local waterways, emergency vehicle safety, motorist safety, pedestrian safety, economic and civic activity.

Respondents varied in frequency of applying deicer at their residences, with about one third reporting "always or frequently", one-third reporting "Sometimes or occasionally" and one third reporting "rarely or never". Deicer use varies by location, with fewer respondents in Arlington and Leesburg/Loudon reporting the use of deicer "always or frequently".

Table 21. Frequency of applying a deicer at one's residence, by demographic group.

Demographic	Sub-category	Always or frequently	Sometimes or Occasionally	Rarely or never
	All Respondents	33.7%	37.2%	29.2%
Gender	Male	31.6%	38.9%	29.5%
	Female	35.7%	35.7%	28.6%
Age	21 to 24	45.0%	27.5%	27.5%
	25 to 34	46.6%	41.7%	11.7%
	35 to 44	34.9%	47.7%	17.4%
	45 to 54	31.5%	38.4%	30.1%
	55 to 64	20.3%	31.9%	47.8%
	65 to 74	20.3%	27.1%	52.5%
	75 or older	32.4%	26.5%	41.2%
Locality	Alexandria	34.9%	33.3%	31.7%
	Arlington	19.6%	44.6%	35.7%
	Fairfax - Inclusive	33.3%	38.3%	28.3%
	Prince William - Inclusive	46.3%	26.3%	27.4%
	Leesburg/Loudon	29.0%	44.1%	26.9%
Ethnicity	Not Hispanic/Latino	33.0%	37.1%	30.0%
	Hispanic/Latino	40.0%	38.0%	22.0%
Years of Residence	Less than 1 year	44.1%	38.2%	17.6%
	1 to 3 years	38.5%	29.8%	31.7%
	4 to 9 years	34.2%	39.6%	26.1%
	10 to 19 years	38.5%	38.5%	22.9%
	20 or more years	22.5%	39.5%	38.0%
Home Ownership	Owned	30.8%	39.3%	29.9%
	Rented	38.9%	33.5%	27.5%
Household Income	Less than \$35,000	43.1%	29.3%	27.6%
	\$35,000 to \$49,999	45.3%	26.4%	28.3%
	\$50,000 to \$74,999	32.3%	52.3%	15.4%
	\$75,000 to \$99,999	32.7%	34.6%	32.7%
	\$100,000 to \$124,999	22.9%	47.1%	30.0%
	\$125,000 to \$149,999	40.0%	35.6%	24.4%
	\$150,000 to \$174,999	14.3%	47.6%	38.1%
	\$175,000 to \$199,999	29.6%	33.3%	37.0%
	\$200,000 or greater	34.1%	27.3%	38.6%

^{*} Red font indicates significant differences within a demographic subgroup. Because the frequency categories are correlated (i.e., the sum to 100%), statistical tests were only run for the "Always or frequently" category.

Responses also varied in terms of when a deicer is used, if used at all. Among those reporting deicer use, approximately one third used them before and after a storm. Fewer (21.8%) use deicers during a storm, and 15.4% responded that it depends on the circumstances/it varies. Older adults are less likely than younger adults to use deicer before and during a storm. Further, fewer low-income respondents use deicer before or during a storm compared to middle- and middle-to-higher income respondents; however, the highest income respondents also report less frequent use before and during storms, relative to middle- and middle-to-higher income respondents.

Table 22. When respondents apply deicers, by demographic group.

Demographic	Sub-category	Before Storm	During Storm	After Storm	Depends
	All Respondents	31.2%	21.8%	31.6%	15.4%
Gender	Male	33.9%	23.8%	34.7%	13.7%
	Female	28.4%	20.0%	28.8%	17.2%
Age	21 to 24	45.2%	16.7%	28.6%	14.3%
	25 to 34	34.9%	30.2%	38.7%	20.8%
	35 to 44	33.3%	26.3%	40.4%	16.7%
	45 to 54	41.9%	32.4%	28.4%	13.5%
	55 to 64	17.4%	15.9%	20.3%	14.5%
	65 to 74	18.6%	1.7%	23.7%	15.3%
	75 or older	22.2%	11.1%	27.8%	2.8%
Locality	Alexandria	29.2%	20.0%	29.2%	20.0%
	Arlington	25.4%	25.4%	27.1%	11.9%
	Fairfax - Inclusive	33.0%	19.5%	28.6%	14.6%
	Prince William - Inclusive	41.2%	18.6%	34.0%	14.4%
	Leesburg/Loudon	22.3%	28.7%	39.4%	17.0%
Ethnicity	Not Hispanic/Latino	29.9%	21.4%	30.1%	16.3%
	Hispanic/Latino	42.3%	25.0%	44.2%	7.7%
Years of	Less than 1 year	25.0%	19.4%	22.2%	27.8%
Residence	1 to 3 years	33.9%	14.7%	25.7%	13.8%
	4 to 9 years	36.5%	23.5%	27.0%	18.3%

Demographic	Sub-category	Before Storm	During Storm	After Storm	Depends
	10 to 19 years	36.0%	31.5%	44.1%	13.5%
	20 or more years	21.7%	18.6%	32.6%	12.4%
Home	Owned	29.3%	24.8%	35.7%	14.5%
Ownership	Rented	35.4%	17.1%	23.4%	17.1%
Household Income	Less than \$35,000	23.8%	17.5%	19.0%	15.9%
	\$35,000 to \$49,999	41.1%	5.4%	25.0%	16.1%
	\$50,000 to \$74,999	41.5%	24.6%	49.2%	10.8%
	\$75,000 to \$99,999	25.5%	19.8%	35.8%	17.0%
	\$100,000 to \$124,999	26.8%	32.4%	35.2%	16.9%
	\$125,000 to \$149,999	44.4%	24.4%	35.6%	8.9%
	\$150,000 to \$174,999	27.3%	22.7%	22.7%	13.6%
	\$175,000 to \$199,999	29.6%	33.3%	29.6%	18.5%
	\$200,000 or greater	24.4%	22.2%	17.8%	20.0%

^{*} Red font indicates significant differences within a demographic subgroup.

The use of roadway abrasives is less common than salt use: 17.2% or respondents use abrasives "always or frequently", and slightly more than half use them "rarely or never". Older adults report using abrasives "always or frequently" less commonly than younger adults.

Table 23. Frequency of applying an abrasive at one's residence, by demographic group.

Demographic	Sub-category	Always or frequently	Sometimes or Occasionally	Rarely or never
	All Respondents	17.2%	27.7%	55.1%
Gender	Male	19.4%	27.0%	53.6%
	Female	14.7%	28.1%	57.1%
Age	21 to 24	18.4%	15.8%	65.8%
	25 to 34	24.7%	42.3%	33.0%
	35 to 44	28.7%	32.4%	38.9%
	45 to 54	10.3%	27.9%	61.8%
	55 to 64	10.3%	17.6%	72.1%

Demographic	Sub-category	Always or frequently	Sometimes or Occasionally	Rarely or never
	65 to 74	5.2%	19.0%	75.9%
	75 or older	6.1%	18.2%	75.8%
Locality	Alexandria	18.0%	21.3%	60.7%
	Arlington	17.3%	30.8%	51.9%
	Fairfax - Inclusive	14.7%	27.1%	58.2%
	Prince William - Inclusive	26.6%	13.8%	59.6%
	Leesburg/Loudon	11.8%	45.2%	43.0%
Ethnicity	Not Hispanic/Latino	17.3%	26.8%	55.8%
	Hispanic/Latino	16.3%	34.7%	49.0%
Years of Residence	Less than 1 year	18.2%	18.2%	63.6%
	1 to 3 years	15.8%	20.0%	64.2%
	4 to 9 years	19.4%	29.6%	50.9%
	10 to 19 years	24.3%	32.7%	43.0%
	20 or more years	10.2%	29.9%	59.8%
Home Ownership	Owned	18.4%	29.5%	52.1%
	Rented	14.5%	23.7%	61.8%
Household Income	Less than \$35,000	18.9%	22.6%	58.5%
	\$35,000 to \$49,999	18.8%	27.1%	54.2%
	\$50,000 to \$74,999	11.1%	28.6%	60.3%
	\$75,000 to \$99,999	15.7%	30.4%	53.9%
	\$100,000 to \$124,999	17.4%	34.8%	47.8%
	\$125,000 to \$149,999	25.6%	30.2%	44.2%
	\$150,000 to \$174,999	9.1%	27.3%	63.6%
	\$175,000 to \$199,999	29.6%	18.5%	51.9%
	\$200,000 or greater	14.0%	18.6%	67.4%

^{*} Red font indicates significant differences within a demographic subgroup. Because the frequency categories are correlated (i.e., the sum to 100%), statistical tests were only run for the "Always or frequently" category.

Finally, respondents were asked about their perceptions, positive and negative, of the impact of roadway salt use on varies factors. The majority of respondents feel that roadway salt use has a positive impact on emergency vehicle safety (61.8%), motorist safety (65.1%), and pedestrian safety (68.8%), as see in Table 24. Less than one third view the impact on tap/drinking water

(31.1%) and local waterways as positive (30.5%). Perceptions of the positive impact of salt use on tap water and local waterways varied by age and by tenure in one's residence.

Table 24. Perceived impact of roadway salting as "very positive" or "somewhat positive", by demographic group.

Demographic	Sub-category	Tap water	Local water- ways	Emerg. vehicles	Motorist safety	Ped. safety	Eco. and civic act.
	All Respondents	31.1%	30.5%	61.8%	65.1%	68.8%	45.5%
Gender	Male	31.4%	32.4%	63.9%	66.5%	69.6%	49.5%
	Female	31.0%	28.8%	59.9%	63.9%	68.2%	41.5%
Age	21 to 24	29.3%	28.1%	58.1%	53.1%	59.4%	28.1%
	25 to 34	53.4%	51.7%	73.6%	69.0%	72.1%	52.9%
	35 to 44	44.7%	42.6%	67.6%	65.0%	66.3%	56.4%
	45 to 54	23.0%	20.6%	64.7%	72.1%	80.9%	52.9%
	55 to 64	13.0%	17.7%	53.2%	62.3%	72.6%	37.7%
	65 to 74	10.2%	13.7%	47.1%	64.7%	60.8%	39.2%
	75 or older	11.4%	9.1%	50.0%	58.8%	57.6%	18.2%
Locality	Alexandria	25.0%	25.5%	57.9%	68.4%	66.7%	55.4%
	Arlington	39.7%	40.7%	74.5%	69.1%	70.9%	56.4%
	Fairfax - Inclusive	28.1%	25.0%	62.7%	63.9%	66.7%	38.0%
	Prince William - Inclusive	30.2%	26.3%	53.2%	64.6%	73.8%	48.1%
	Leesburg/Loudon	37.0%	41.4%	62.8%	63.2%	68.2%	43.5%
Ethnicity	Not Hispanic/Latino	29.7%	29.9%	61.3%	64.9%	69.2%	45.2%
	Hispanic/Latino	44.0%	35.7%	67.5%	67.5%	65.0%	48.7%
Years of	Less than 1 year	28.6%	40.0%	51.6%	51.6%	54.8%	45.2%
Residence	1 to 3 years	32.4%	23.9%	63.0%	66.3%	73.1%	43.0%
	4 to 9 years	33.9%	35.0%	62.2%	70.0%	71.4%	45.9%
	10 to 19 years	38.7%	40.4%	67.7%	70.1%	73.7%	58.2%
	20 or more years	21.7%	20.9%	58.3%	59.3%	62.5%	36.3%
Home	Owned	33.8%	31.8%	64.1%	66.2%	70.5%	44.5%
Ownership	Rented	25.9%	27.5%	57.2%	64.2%	65.8%	46.4%
Household Income	Less than \$35,000	27.9%	24.0%	46.0%	52.0%	54.9%	32.0%
	\$35,000 to \$49,999	20.4%	28.0%	56.0%	64.0%	69.4%	50.0%

Demographic	Sub-category	Tap water	Local water- ways	Emerg. vehicles	Motorist safety	Ped. safety	Eco. and civic act.
	\$50,000 to \$74,999	35.9%	29.6%	61.1%	72.7%	76.4%	56.4%
	\$75,000 to \$99,999	34.0%	35.6%	63.3%	66.3%	66.7%	43.3%
	\$100,000 to \$124,999	36.6%	31.7%	69.8%	64.5%	73.0%	46.8%
	\$125,000 to \$149,999	37.8%	40.9%	75.0%	74.4%	69.8%	53.5%
	\$150,000 to \$174,999	31.8%	22.2%	64.7%	64.7%	76.5%	52.9%
	\$175,000 to \$199,999	44.4%	44.0%	80.0%	80.0%	69.6%	62.5%
	\$200,000 or greater	11.1%	14.3%	47.6%	52.4%	69.0%	23.8%

^{*} *Red font* indicates significant differences within a demographic subgroup.

Respondents more frequently perceive the impact of salting on local waterways as negative, as seen in Table 25. Additionally, older adults more frequently perceive the impact of salt as on tap water and local waterways as negative, compared to other age groups.

Table 25. Perceived impact of roadway salting as "very negative" or "somewhat negative", by demographic group.

Demographic	Sub-category	Tap water	Local water- ways	Emerg. vehicles	Motorist safety	Ped. safety	Eco. and civic act.
	All Respondents	33.1%	41.3%	10.6%	12.2%	9.5%	10.2%
Gender	Male	32.2%	41.1%	10.2%	10.7%	7.9%	9.3%
	Female	33.5%	40.9%	10.6%	13.4%	10.6%	10.6%
Age	21 to 24	19.5%	40.6%	6.5%	18.8%	18.8%	15.6%
	25 to 34	16.5%	21.3%	8.0%	12.6%	8.1%	6.9%
	35 to 44	26.3%	24.8%	11.8%	16.0%	11.9%	10.9%
	45 to 54	40.5%	47.1%	8.8%	7.4%	5.9%	8.8%
	55 to 64	39.1%	59.7%	12.9%	11.5%	6.5%	11.5%
	65 to 74	59.3%	62.7%	15.7%	7.8%	9.8%	11.8%
	75 or older	48.6%	66.7%	8.8%	11.8%	9.1%	9.1%
Locality	Alexandria	32.8%	40.0%	10.5%	8.8%	10.5%	12.5%
	Arlington	36.2%	37.0%	5.5%	9.1%	10.9%	7.3%
	Fairfax - Inclusive	33.5%	47.5%	10.8%	12.3%	9.0%	8.9%

Demographic	Sub-category	Tap water	Local water- ways	Emerg. vehicles	Motorist safety	Ped. safety	Eco. and civic act.
	Prince William - Inclusive	32.3%	45.0%	16.5%	13.9%	8.8%	13.9%
	Leesburg/Loudon	31.5%	29.9%	8.1%	14.9%	9.4%	9.4%
Ethnicity	Not Hispanic/Latino	33.9%	42.6%	10.9%	13.0%	9.7%	10.9%
	Hispanic/Latino	26.0%	28.6%	7.5%	5.0%	7.5%	2.6%
Years of	Less than 1 year	22.9%	33.3%	16.1%	22.6%	16.1%	16.1%
Residence	1 to 3 years	26.9%	42.4%	9.8%	12.0%	7.5%	8.6%
	4 to 9 years	33.9%	36.0%	13.3%	15.0%	12.2%	9.2%
	10 to 19 years	28.8%	36.4%	7.1%	6.2%	8.1%	9.2%
	20 or more years	44.2%	51.3%	10.4%	12.4%	8.0%	11.5%
Home	Owned	34.7%	42.7%	9.9%	12.1%	9.2%	11.0%
Ownership	Rented	30.6%	39.9%	12.5%	12.6%	10.5%	9.3%
Household Income	Less than \$35,000	34.4%	48.0%	20.0%	22.0%	17.6%	20.0%
	\$35,000 to \$49,999	29.6%	34.0%	6.0%	10.0%	6.1%	4.0%
	\$50,000 to \$74,999	23.4%	25.9%	7.4%	7.3%	5.5%	3.6%
	\$75,000 to \$99,999	33.0%	40.0%	10.0%	12.4%	12.2%	11.1%
	\$100,000 to \$124,999	28.2%	33.3%	9.5%	8.1%	7.9%	11.3%
	\$125,000 to \$149,999	35.6%	38.6%	11.4%	9.3%	7.0%	7.0%
	\$150,000 to \$174,999	50.0%	66.7%	11.8%	17.6%	11.8%	17.6%
	\$175,000 to \$199,999	29.6%	32.0%	4.0%	12.0%	4.3%	8.3%
	\$200,000 or greater	48.9%	73.8%	14.3%	16.7%	9.5%	11.9%

2.4 Knowledge

2.4.3 Awareness of "Watersheds" and Household Hazardous Waste Disposal

Respondents were asked a series of questions in order to assess their knowledge about local water systems and stormwater drainage. Participants were asked if they were familiar with the term "watershed". Regardless of the response (yes or no), all respondents were then shown this definition of the term:

A watershed is an area of land that channels rainfall and snowmelt to creeks, streams, and rivers, and eventually to outflow points such as reservoirs, bays, and the ocean.

Next, participants were asked where they believe stormwater goes, given the option "a wastewater treatment facility", "the Potomac River or Chesapeake Bay", "All of the above", "None of the above", and "Other".

Of all respondents, 71.3% report that they are familiar with the term "watershed", as can be seen in Table 26 and Figure 19. Men are more likely to be familiar with the term (78.5%) compared to women (64.6%). Otherwise, there are no strong demographic trends amongst respondents.

Table 26. Awareness of watersheds and knowledge of stormwater drainage by demographic group.

				Storn	nwater goe	S		
Demographic	Sub-category	Know term "water shed"	WW Treat- ment	Potom. or Chespk.	All above	None	Other	Know HHW Droo- off
	All Respondents	71.3%	20.2%	31.5%	40.9%	7.0%	0.4%	60.1%
Gender	Male	78.5%	20.2%	33.1%	41.9%	4.8%	**	64.5%
	Female	64.6%	20.1%	30.1%	39.8%	9.2%	0.8%	56.2%
Age	21 to 24	75.0%	19.0%	35.7%	40.5%	4.8%	**	40.5%
	25 to 34	67.9%	27.4%	27.4%	37.7%	7.5%	**	60.4%
	35 to 44	71.4%	19.3%	28.1%	44.7%	7.9%	**	61.9%
	45 to 54	76.7%	25.7%	23.0%	50.0%	1.4%	**	62.2%
	55 to 64	66.2%	15.9%	31.9%	40.6%	11.6%	**	65.2%
	65 to 74	66.1%	13.8%	39.7%	36.2%	8.6%	1.7%	54.2%
	75 or older	83.3%	11.1%	52.8%	27.8%	5.6%	2.8%	72.2%
Locality	Alexandria	65.1%	18.5%	35.4%	36.9%	7.7%	1.5%	49.2%
	Arlington	82.8%	15.3%	32.2%	47.5%	5.1%	**	69.5%
	Fairfax - Inclusive	70.7%	22.3%	27.7%	44.0%	6.0%	**	58.7%
	Prince William - Inclusive	74.2%	22.7%	34.0%	35.1%	8.2%	**	58.8%
	Leesburg/Loudon	66.3%	18.1%	33.0%	39.4%	8.5%	1.1%	66.0%
Ethnicity	Not Hispanic/Latino	72.9%	19.7%	31.3%	41.6%	6.9%	0.4%	60.2%
	Hispanic/Latino	57.7%	25.0%	32.7%	34.6%	7.7%	**	59.6%
Years of Residence	Less than 1 year	69.4%	22.2%	36.1%	36.1%	5.6%	**	20.0%
	1 to 3 years	63.9%	22.9%	35.8%	33.0%	7.3%	0.9%	48.6%
	4 to 9 years	75.0%	20.0%	25.2%	47.0%	7.0%	0.9%	64.3%
	10 to 19 years	71.6%	22.5%	29.7%	41.4%	6.3%	**	64.0%

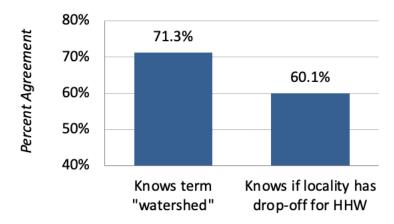
				Storm	nwater goe	S		
Demographic	Sub-category	Know term "water shed"	WW Treat- ment	Potom. or Chespk.	All above	None	Other	Know HHW Droo- off
	20 or more years	74.4%	15.6%	33.6%	43.0%	7.8%	**	73.6%
Home	Owned	77.7%	21.3%	32.9%	41.3%	4.5%	**	71.0%
Ownership	Rented	60.8%	18.3%	28.0%	42.9%	10.3%	0.6%	41.7%
Household	Less than \$35,000	54.8%	17.5%	25.4%	44.4%	11.1%	1.6%	32.3%
Income	\$35,000 to \$49,999	68.5%	23.2%	23.2%	44.6%	8.9%	**	46.4%
	\$50,000 to \$74,999	55.4%	15.6%	39.1%	40.6%	4.7%	**	63.1%
	\$75,000 to \$99,999	77.4%	29.2%	33.0%	32.1%	5.7%	**	58.5%
	\$100,000 to \$124,999	75.4%	15.5%	32.4%	46.5%	5.6%	**	69.0%
	\$125,000 to \$149,999	84.4%	13.3%	33.3%	51.1%	2.2%	**	73.3%
	\$150,000 to \$174,999	77.3%	31.8%	40.9%	18.2%	9.1%	**	77.3%
	\$175,000 to \$199,999	88.5%	22.2%	22.2%	33.3%	22.2%	**	70.4%
	\$200,000 or greater	73.3%	13.3%	33.3%	48.9%	2.2%	2.2%	73.3%

^{*} *Red font* indicates significant differences within a demographic subgroup.

As seen in Table 26, 61.1% of respondents report believing it goes to a wastewater treatment facility (the sum of "wastewater treatment facility", 20.2% and "all of the above", 40.9%) and 72.3% report believing it goes into the Chesapeake Bay or Potomac River (the sum of "the Potomac River or Chesapeake Bay", 31.5% and "all of the above", 40.9%). Finally, 7.0% report believing it does not go to any of the listed locations and 0.4% report believing it goes to another place. There are no demographic trends. There is a significant increase, however, in the percentage of respondents who believe that stormwater goes to a wastewater treatment facility and either the Potomac River or Chesapeake Bay, as seen in the table below across years.

^{**} Insufficient data for between-group comparison.







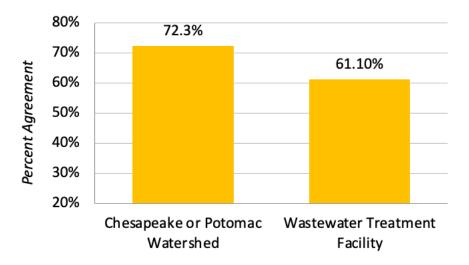


Table 27. Stormwater destination beliefs across years.

	Year of Survey								
Survey Questions Response	2016	2017	2018	2019	2020	2021	2022	2023	2024
"Yes" to Do you live in the Potomac River watershed?	43.0%	43.2%	37.2%	40.0%	44.4%	40.8%	36.6%	44.9%	38.9%
"A wastewater treatment facility" to [Where does] storm water eventually end up?	13.0%	14.2%	12.0%	14.8%	27.6%	28.8%	26.8%	45.6%	61.1%
"Potomac River or Chesapeake Bay" to [Where does] storm water eventually end up?	*	*	62.8%	68.4%	59.4%	60.0%	61.2%	61.6%	72.3%

^{*} Red font indicates that the value significantly differs from the current 2024 value.

Asterisks (*) indicate that the question did not appear in the survey that year.

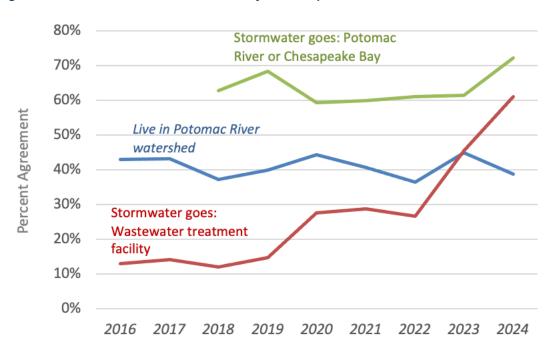


Figure 21. Storm water destination beliefs across years.

Participants were also asked whether they knew if their locality has a specific place for residents to drop off Household Hazardous Waste (HHW), with response options being "Yes, I know whether we have a location for drop-offs" and "No, I'm not sure whether we have a location for drop-offs"; refer to Table 26. When asked about HHW 60.1% of respondents report knowing if their locality has a specific drop off location for it, which can be seen in Table 26 and Figure 19.

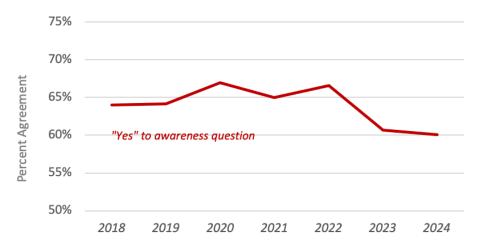
There were no significant differences in reports of being aware of an HHW drop-off facility in 2024 when compared to responses from surveys in 2018-2023. These rates can be seen below in Table 28.

Table 28. Awareness of HHW across years.

	Year of Survey								
Survey Question Response	2016	2017	2018	2019	2020	2021	2022	2023	2024
"Yes" to awareness question	*	*	64.0%	64.2%	67.0%	65.0%	66.6%	60.7%	60.1%

^{*} Red font indicates that the value significantly differs from the current 2024 value. Asterisks (*) indicate that the question did not appear in the survey that year.

Figure 22. Awareness of HHW across years.



2.4.4 Identifying the Local Watershed

Survey participants were asked "Do live in the..." and given a list of three watershed areas. Response options were "Yes", "No", and "Don't know" for the listed areas:

- Chesapeake Bay watershed?
- Potomac River watershed?
- Another watershed not listed?

For reference, a map of the Chesapeake Bay watershed and the Potomac River watershed can be seen below in Figure 24. As can be seen in Table 29 and Figure 23, 27.1% report that they live in the Chesapeake Bay watershed, 38.9% report that they live in the Potomac River watershed, and 7.5% report that they live in another watershed that was not listed in the survey. Men report higher rates of living in the Chesapeake Bay watershed or another watershed. Leesburg/Loudon

residents reported the Potomac River watershed as their local watershed at higher rates than residents of other localities. People who have lived in their residence for 10 to 19 years report the highest rates of living in the Chesapeake Bay watershed. Generally, people with higher incomes reported living in both the Chesapeake Bay watershed and Potomac River watershed at higher rates than those with lower incomes.

Table 29. Identifying the local watershed by demographic.

Demographic	Sub-category	Chesapeake Bay watershed	Potomac River watershed	Another watershed
	All Respondents	27.1%	38.9%	7.5%
Gender	Male	37.0%	43.3%	11.9%
	Female	17.8%	34.9%	3.4%
Age	21 to 24	34.2%	36.8%	5.7%
	25 to 34	23.5%	33.3%	11.1%
	35 to 44	33.9%	41.2%	11.5%
	45 to 54	23.6%	40.8%	5.6%
	55 to 64	22.7%	35.3%	4.5%
	65 to 74	28.6%	45.3%	2.1%
	75 or older	21.2%	42.9%	3.1%
Locality	Alexandria	29.7%	33.3%	4.8%
	Arlington	35.7%	36.2%	3.8%
	Fairfax - Inclusive	28.5%	34.5%	6.5%
	Prince William - Inclusive	22.8%	37.0%	14.1%
	Leesburg/Loudon	21.6%	54.9%	6.4%
Ethnicity	Not Hispanic/Latino	27.5%	38.7%	7.3%
	Hispanic/Latino	23.9%	40.4%	9.5%
Years of Residence	Less than 1 year	22.9%	31.4%	5.9%
	1 to 3 years	16.7%	35.6%	4.0%
	4 to 9 years	25.9%	38.4%	10.5%
	10 to 19 years	42.2%	36.5%	10.9%
	20 or more years	24.8%	46.0%	5.2%
Home Ownership	Owned	33.9%	40.4%	8.9%
	Rented	15.0%	35.5%	4.3%
Household Income	Less than \$35,000	11.7%	24.1%	3.5%
	\$35,000 to \$49,999	12.7%	31.5%	3.8%
	\$50,000 to \$74,999	19.4%	37.5%	3.4%

Demographic	Sub-category	Chesapeake Bay watershed	Potomac River watershed	Another watershed
	\$75,000 to \$99,999	33.0%	39.6%	8.2%
	\$100,000 to \$124,999	25.7%	36.2%	7.4%
	\$125,000 to \$149,999	31.0%	37.2%	9.8%
	\$150,000 to \$174,999	45.5%	66.7%	15.8%
	\$175,000 to \$199,999	60.0%	63.0%	20.0%
	\$200,000 or greater	34.9%	45.5%	9.5%

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 23. Local watershed identification.

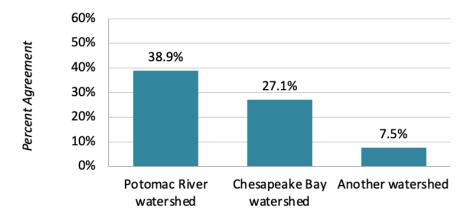




Figure 24. Map of Chesapeake Bay and Potomac River watersheds.¹

2.4.5 Identification of Pollution

Participants were provided with two images, as seen below (Figure 25), and asked if either photo contains a potential source of water pollution, with response options being "Yes", "No", "Not sure", and "Cannot see image". The results are summarized in Table 30 and displayed in Figure 26. When asked about the provided images, 80.8% report that yes, they would consider the images to be a potential source of water pollution. There were no demographic trends.

¹ Interstate Commission on the Potomac River Basin. (n.d.). *Potomac River Basin Atlas*. Potomac River Basin Atlas - Subwatersheds. https://www.potomacriver.org/Atlas-Maps/Subwatersheds/





2.4.6 Reporting Pollution and Barriers to Reporting Pollution

Participants were asked if they knew who to contact to report potential water pollution with the response options "I definitely know", "I think I know", "I don't think I know", and "I definitely don't know". They were also asked the likelihood that they would call officials to report potential pollution so it could be investigated with the response options being "I definitely would", "I probably would", "I'm equally likely to call and to not call", "I probably would not", and "I definitely would not". The responses are summarized in Table 30 and Figure 25.

Table 30. Water pollution knowledge and behaviors by demographic group.

Demographic	Sub-category	ID Water Pollution	Know Who to Contact	Would Call Officials
	All Respondents	80.8%	49.0%	66.6%
Gender	Male	81.8%	54.0%	68.3%
	Female	80.0%	44.4%	65.1%
Age	21 to 24	85.4%	45.2%	52.4%

Demographic	Sub-category	ID Water Pollution	Know Who to Contact	Would Call Officials
	All Respondents	80.8%	49.0%	66.6%
	25 to 34	81.1%	53.8%	65.7%
	35 to 44	83.3%	53.5%	67.3%
	45 to 54	86.3%	48.6%	68.9%
	55 to 64	73.5%	46.4%	60.9%
	65 to 74	76.8%	42.4%	71.2%
	75 or older	75.0%	41.7%	82.9%
Locality	Alexandria	79.0%	38.5%	66.2%
	Arlington	89.7%	57.6%	71.2%
	Fairfax - Inclusive	79.8%	46.5%	61.7%
	Prince William - Inclusive	79.4%	51.5%	75.3%
	Leesburg/Loudon	79.8%	53.2%	64.5%
Ethnicity	Not Hispanic/Latino	80.5%	48.4%	65.4%
	Hispanic/Latino	82.7%	53.8%	76.9%
Years of	Less than 1 year	80.0%	38.9%	69.4%
Residence	1 to 3 years	81.7%	37.6%	62.4%
	4 to 9 years	86.7%	55.7%	68.7%
	10 to 19 years	83.5%	53.2%	70.9%
	20 or more years	72.7%	51.9%	63.8%
Home Ownership	Owned	79.6%	54.7%	69.3%
Ср	Rented	83.1%	37.7%	60.0%
Household	Less than \$35,000	77.8%	41.3%	71.4%
Income	\$35,000 to \$49,999	71.4%	39.3%	62.5%
	\$50,000 to \$74,999	68.8%	52.3%	56.9%
	\$75,000 to \$99,999	81.7%	46.2%	62.9%
	\$100,000 to \$124,999	84.3%	59.2%	77.1%
	\$125,000 to \$149,999	90.9%	62.2%	71.1%
	\$150,000 to \$174,999	90.9%	40.9%	63.6%
	\$175,000 to \$199,999	96.3%	66.7%	76.9%
	\$200,000 or greater	81.8%	37.8%	62.2%

^{*} Red font indicates significant differences within a demographic subgroup

When asked about who to contact for reporting potential water pollution, 49.0% report knowing who to contact. Men (54.0%) reported higher rates of knowing who to contact in the case of suspected water pollution than women (44.4%). Of all respondents, 66.6% report that they would contact someone to report a potential source of water pollution. There were no demographic trends in responses to these questions.

Those who reported being equally likely to call and not to call and who reported that they would probably or definitely not call were asked what their primary reason is for not calling. These results are summarized in Table 31 and displayed in Figure 26. Response options given were "I'm too busy", "It's not my responsibility", "It's none of my business", "I prefer not to communicate with officials or authorities", and an option to write-in another reason not listed. Of these respondents, 25.3% report their reason for not calling being that they'd prefer not to communicate with officials or authorities. Additionally, 21.7% report being too busy, 20.5% report it being none of their business, and 16.3% report that it is not their responsibility. Men reported their reason being that it's not their responsibility at higher rates than women, at 23.1% and 10.3% respectively.

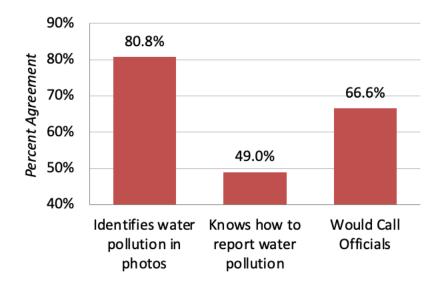
Table 31. Barriers to reporting pollution by demographic group.

Demographic	Sub-category	Too Busy	Not my Responsibil ity	None of my Business	Don't Want to Communicate with Authorities	Other
	All Respondents	21.7%	16.3%	20.5%	25.3%	16.3%
Gender	Male	20.5%	23.1%	25.6%	19.2%	11.5%
	Female	23.0%	10.3%	16.1%	29.9%	20.7%
Age	21 to 24	35.0%	30.0%	5.0%	30.0%	$0.0\%^{2}$
	25 to 34	27.8%	11.1%	19.4%	30.6%	11.1%
	35 to 44	27.0%	16.2%	29.7%	18.9%	8.1%
	45 to 54	17.4%	8.7%	26.1%	13.0%	34.8%
	55 to 64	18.5%	11.1%	7.4%	33.3%	29.6%
	65 to 74	0.0%2	29.4%	29.4%	23.5%	17.6%
	75 or older	0.0%2	16.7%	33.3%	33.3%	16.7%
Locality	Alexandria	9.1%	27.3%	18.2%	36.4%	9.1%
	Arlington	35.3%	11.8%	17.6%	29.4%	5.9%
	Fairfax - Inclusive	18.6%	14.3%	21.4%	22.9%	22.9%
	Prince William - Inclusive	20.8%	8.3%	20.8%	29.2%	20.8%
	Leesburg/Loudon	30.3%	21.2%	21.2%	18.2%	9.1%
Ethnicity	Not Hispanic/Latino	21.4%	15.6%	22.1%	24.7%	16.2%
	Hispanic/Latino	25.0%	25.0%	0.0%2	33.3%	16.7%

Demographic	Sub-category	Too Busy	Not my Responsibil ity	None of my Business	Don't Want to Communicate with Authorities	Other
Years of	Less than 1 year	18.2%	9.1%	27.3%	36.4%	9.1%
Residence	1 to 3 years	26.8%	14.6%	12.2%	29.3%	17.1%
	4 to 9 years	19.4%	16.7%	22.2%	33.3%	8.3%
	10 to 19 years	28.1%	15.6%	18.8%	18.8%	18.8%
	20 or more years	15.2%	19.6%	26.1%	17.4%	21.7%
Home	Owned	25.3%	21.1%	21.1%	17.9%	14.7%
Ownership	Rented	17.1%	8.6%	20.0%	35.7%	18.6%
Household	Less than \$35,000	16.7%	11.1%	16.7%	38.9%	16.7%
Income	\$35,000 to \$49,999	28.6%	23.8%	4.8%	38.1%	4.8%
	\$50,000 to \$74,999	10.7%	17.9%	17.9%	35.7%	17.9%
	\$75,000 to \$99,999	23.1%	15.4%	30.8%	25.6%	5.1%
	\$100,000 to \$124,999	12.5%	18.8%	31.3%	6.3%	31.3%
	\$125,000 to \$149,999	23.1%	15.4%	15.4%	23.1%	23.1%
	\$150,000 to \$174,999	25.0%	25.0%	25.0%	12.5%	12.5%
	\$175,000 to \$199,999	33.3%	0.0%2	50.0%	0.0%2	16.7%
	\$200,000 or greater	35.3%	11.8%	5.9%	11.8%	35.3%

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 25. Water pollution identification and knowledge.



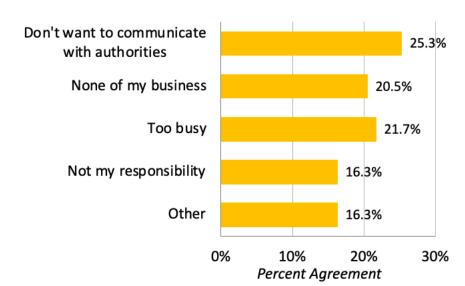


Figure 26. Barriers to reporting water pollution.

Response rates regarding water pollution knowledge from years 2018-2024 can be seen below in Table 32 and Figure 27. Notably, reports of definitely knowing or thinking they know who to contact about water pollution were higher in years 2021 and 2022 than in 2024. Additionally, respondents to surveys in 2018-2022 exhibit lower rates of indicating that they would "definitely" or "probably" report potential water pollution, compared to 2024 respondents.

Table 32. Water pollution knowledge across years.

	Year of Survey								
Survey Questions Response	2018	2019	2020	2021	2022	2023	2024		
"Yes", would consider pictures water pollution	78.0%	75.2%	79.6%	80.4%	80.8%	72.4%	80.8%		
"Definitely" or "think" I know who to contact about water pollution	51.6%	42.0%	52.6%	59.2%	58.8%	56.5%	49.0%		
"Definitely" or "probably" would contact about water pollution	41.6%	38.0%	44.0%	53.4%	52.4%	63.4%	66.6%		

^{*} *Red font* indicates that the value significantly differs from the current 2024 value.

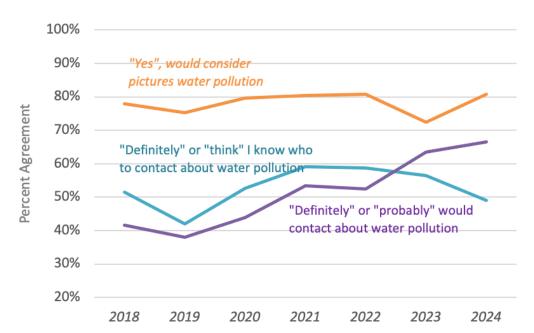


Figure 27. Water pollution knowledge across years.

Response rates of primary reasons for not calling to report water pollution in 2023 and 2024 can be seen below in Table 33. There were no significant differences in response rates between 2023 and 2024.

Table 33. Barriers to reporting water pollution across years.

	Year of Survey							
Survey Questions Response	2018	2019	2020	2021	2022	2023	2024	
Too busy	*	*	*	*	*	17.6%	21.7%	
Not my responsibility	*	*	*	*	*	17.6%	16.3%	
None of my business	*	*	*	*	*	23.1%	20.5%	
Prefer not to communicate with officials or authorities	*	*	*	*	*	31.5%	25.3%	
Other	*	*	*	*	*	10.2%	16.3%	

^{*} Red font indicates that the value significantly differs from the current 2024 value. Asterisks (*) indicate that the question did not appear in the survey that year.

2.5 Campaign Perceptions

2.5.3 Campaign Awareness

Survey participants were asked questions to better understand their level of awareness of water pollution campaigns; their responses are below in Table 34 and Figure 29. Respondents were provided with the logo depicted in Figure 28 and asked if they had seen the logo before. Of respondents, 54.2% report having previously seen the provided logo. Men reported having seen the

Figure 28. Logo for the 'Only Rain Down the Drain' Campaign.



logo at higher rates than women, at 61.1% compared to 47.1%. Generally, reported recognition of the logo decreases as age increases. Finally, residents of Arlington report having seen the logo at higher rates than residents of other localities at 70.7%. Residents of Prince William reported having seen the logo at lower rates than residents of other localities at 38.5%.

Table 34. Percentage of respondents who have seen campaigns by demographic group.

Demographic	Sub-category	Seen the Logo Previously	Seen Water Pollution Reduction Campaign
	All Respondents	54.2%	27.8%
Gender	Male	61.1%	35.9%
	Female	47.1%	20.0%
Age	21 to 24	73.8%	26.2%
	25 to 34	56.2%	35.8%
	35 to 44	56.4%	43.9%
	45 to 54	64.9%	20.3%
	55 to 64	41.2%	13.0%
	65 to 74	39.7%	18.6%
	75 or older	44.4%	13.9%
Locality	Alexandria	54.7%	26.2%
	Arlington	70.7%	40.7%
	Fairfax - Inclusive	58.2%	23.2%
	Prince William - Inclusive	38.5%	23.7%
	Leesburg/Loudon	51.6%	34.0%

Demographic	Sub-category	Seen the Logo Previously	Seen Water Pollution Reduction Campaign
Ethnicity	Not Hispanic/Latino	53.8%	28.1%
	Hispanic/Latino	57.1%	25.0%
Years of Residence	Less than 1 year	48.5%	16.7%
	1 to 3 years	47.2%	22.0%
	4 to 9 years	59.6%	28.7%
	10 to 19 years	59.6%	37.8%
	20 or more years	51.9%	26.4%
Home Ownership	Owned	55.9%	33.4%
	Rented	52.0%	19.4%
Household Income	Less than \$35,000	50.0%	22.2%
	\$35,000 to \$49,999	57.1%	17.9%
	\$50,000 to \$74,999	49.2%	18.5%
	\$75,000 to \$99,999	43.4%	26.4%
	\$100,000 to \$124,999	68.6%	38.0%
	\$125,000 to \$149,999	55.6%	42.2%
	\$150,000 to \$174,999	66.7%	36.4%
	\$175,000 to \$199,999	57.7%	48.1%
	\$200,000 or greater	56.8%	17.8%

^{*} Red font indicates significant differences within a demographic subgroup.

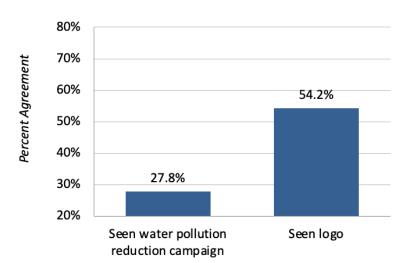


Figure 29. Water pollution reduction campaign awareness.

Reported recognition of the provided logo from years 2016-2024 can be seen below in Table 35. Reported familiarity with the campaign from years 2018-2024 can also be seen in this table. In

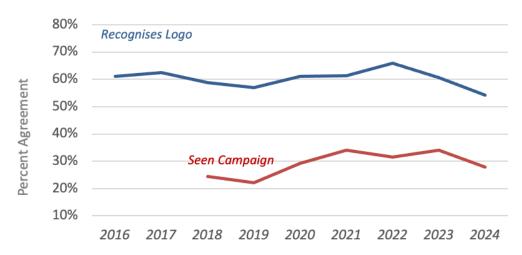
2022, reported recognition of the logo were significantly higher than in 2024. Otherwise, there were no significant differences in response rates between previous years and 2024.

Table 35. Logo and campaign recognition across years.

	Year of Survey								
Survey Question Response	2016	2017	2018	2019	2020	2021	2022	2023	2024
Recognizes Logo	61.2%	62.4%	58.8%	57.0%	61.0%	61.4%	65.8%	60.7%	54.2%
Seen Campaign	*	*	24.4%	22.2%	29.2%	34.0%	31.6%	34.1%	27.8%

^{*} Red font indicates that the value significantly differs from the current 2024 value. Asterisk (*) indicates that the survey question did not appear that year.

Figure 30. Logo and campaign recognition across years.



Additionally, as described previously, 25.9% report being aware of a water quality activity in the past 12 months. Lastly, respondents were asked if they have seen or received information about reducing water pollution from any source in the past 12 months, with 27.8% of respondents reporting yes, they have seen or received this kind of information. Men reported higher rates of seeing or receiving this information at higher rates than women, at 35.9% compared to 20.0%. Generally, reports of seeing or receiving this information decreased with age. Finally, owners reported seeing or receiving this information at a rate of 33.4% compared to 19.4% of renters, as can be seen in Table 34.

Survey participants were shown both the "Only Rain Down the Drain" and "Pollution Solutions" advertisements in a random order and asked questions about recognition and perceptions of both. Some participants report not being able to see one or both of the videos, in which case their data was excluded from analysis for these questions.

2.5.3.1 Only Rain Down the Drain (ORDD)

Participants were shown the advertisement "Only Rain Down the Drain" (ORDD) and asked a series of questions about it. First, participants were asked if they had seen the ad or a similar one on TV, Facebook, or Twitter and given the response options "Yes", "No", "Not sure", and "Video did not play". After seeing the ORDD advertisement, 19.2% of respondents report having seen the ad previously, as can be seen in Table 36 and Figure 31. Participants were then asked about their perceptions of the ad by listing a series of statements with the option to "Strongly disagree", "Disagree", "Neither disagree nor agree", "Agree", and "Strongly Agree". The statements were:

- I understand the information in the ad.
- The ad is relevant to me.
- I trust the information in the ad.
- The ad's message is important.
- The ad is persuasive.
- I think the ad would be effective.

In response to these statements, 83.3% report understanding the information in the ad, 78.8% report believing that the ad is relevant, 80.1% report trusting the information in the ad, 83.7% report thinking the information in the ad is important, 70.5% report believing the ad is persuasive, and 71.9% think the ad is effective. The ad perception results for both ads are shown in Figure 32.

Table 36. Perceptions of 'Only Rain Down the Drain' (ORDD) advertisement by demographics.

Demographic	Sub-category	Recog.	Underst.	Relevnt.	Trust	Import.	Persuas.	Effect.
	All Respondents	19.2%	83.3%	78.8%	80.1%	83.7%	70.5%	71.9%
Gender	Male	19.6%	83.4%	79.6%	82.3%	83.9%	70.5%	70.8%
	Female	19.0%	83.0%	78.2%	77.8%	83.3%	70.8%	73.3%
Age	21 to 24	24.3%	86.5%	80.6%	88.2%	84.8%	76.5%	73.5%
	25 to 34	27.7%	78.2%	75.5%	74.5%	80.6%	64.9%	70.2%

Demographic	Sub-category	Recog.	Underst.	Relevnt.	Trust	Import.	Persuas.	Effect.
	35 to 44	26.2%	79.2%	81.0%	80.6%	79.6%	67.3%	71.2%
	45 to 54	18.2%	85.1%	85.2%	82.0%	86.9%	72.1%	73.8%
	55 to 64	6.2%	92.3%	74.6%	79.0%	87.1%	75.4%	74.2%
	65 to 74	10.3%	81.0%	78.4%	82.4%	86.3%	78.4%	74.0%
	75 or older	8.8%	90.9%	75.8%	81.8%	87.5%	66.7%	66.7%
Locality	Alexandria	21.7%	80.0%	74.5%	76.4%	81.5%	68.5%	69.1%
	Arlington	20.0%	78.2%	84.6%	82.4%	76.9%	67.3%	65.4%
	Fairfax - Inclusive	20.0%	84.6%	79.2%	84.3%	86.7%	71.1%	70.3%
	Prince William - Inclusive	18.9%	84.1%	73.8%	73.2%	84.0%	69.5%	74.4%
	Leesburg/Loudon	15.9%	85.4%	82.1%	79.8%	82.9%	73.8%	78.6%
Ethnicity	Not Hispanic/Latino	19.1%	83.7%	77.6%	79.7%	83.1%	69.4%	70.8%
	Hispanic/Latino	20.4%	79.6%	89.1%	84.1%	88.6%	81.4%	81.8%
Years of	Less than 1 year	20.6%	76.5%	68.8%	90.3%	86.7%	74.2%	80.6%
Residence	1 to 3 years	13.3%	81.6%	83.3%	83.0%	86.4%	70.8%	75.3%
	4 to 9 years	20.0%	84.8%	77.2%	75.8%	80.8%	66.3%	67.7%
	10 to 19 years	26.9%	83.7%	77.2%	79.2%	83.0%	73.3%	70.3%
	20 or more years	16.5%	84.9%	80.7%	79.8%	83.9%	70.6%	72.0%
Home	Owned	19.9%	84.7%	81.0%	81.3%	83.9%	71.9%	72.5%
Ownership	Rented	16.8%	80.8%	75.4%	76.4%	82.1%	67.9%	70.2%
Household Income	Less than \$35,000	19.0%	77.2%	70.0%	72.9%	81.6%	63.3%	65.3%
	\$35,000 to \$49,999	21.2%	78.4%	68.8%	83.3%	78.7%	68.8%	77.1%
	\$50,000 to \$74,999	21.2%	78.8%	72.5%	78.4%	78.4%	64.7%	66.7%
	\$75,000 to \$99,999	13.7%	84.3%	81.4%	78.9%	81.7%	76.8%	72.3%
	\$100,000 to \$124,999	18.8%	78.6%	80.9%	79.1%	84.8%	76.1%	80.6%
	\$125,000 to \$149,999	33.3%	90.5%	87.8%	87.8%	90.2%	68.3%	78.0%
	\$150,000 to \$174,999	9.1%	90.9%	75.0%	80.0%	80.0%	65.0%	60.0%
	\$175,000 to \$199,999	22.2%	92.6%	92.3%	88.5%	92.3%	73.1%	69.2%
	\$200,000 or greater	18.2%	90.9%	83.3%	78.6%	90.5%	68.3%	66.7%

^{*} Red font indicates significant differences within a demographic subgroup.



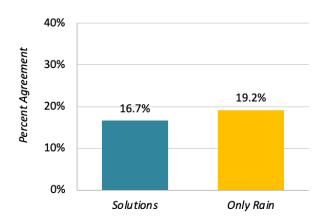
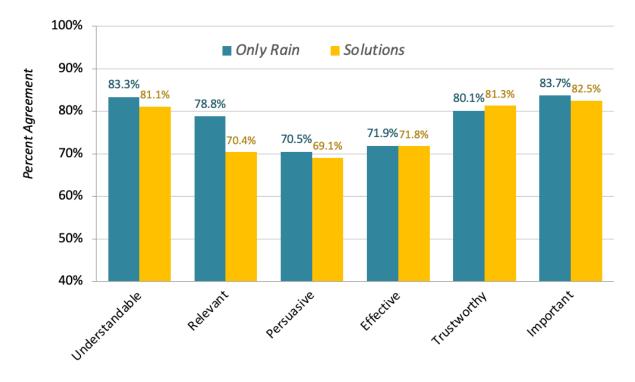


Figure 32. Perceptions of 'Only Rain Down the Drain' and 'Pollution Solutions' advertisement.



Rates of reported recognition of the ad "Only Rain Down the Drain" from 2016 to 2024 can be seen below in Table 39. Notably, respondents to the 2021 survey reported higher rates of recognition when compared to 2024. Additionally, in Table 38, rates of reported perception of

the ad in 2023 and 2024 can be seen. In 2023, the rate of seeing the ad as relevant were lower than in 2024. Otherwise, there were no significant differences in response rates regarding this ad.

Table 37. Recognition of 'Only Rain Down the Drain' across years.

Year of Survey									
Response to Survey Question	2016	2017	2018	2019	2020	2021	2022	2023	2024
Recognize "Only Rain"	15.6%	23.6%	14.8%	15.4%	22.0%	29.0%	27.8%	23.3%	19.2%

Table 38. Perceptions of 'Only Rain Down the Drain' across years.

	Year of Survey				
Response to Survey Question	2023	2024			
Understand	79.4%	83.3%			
Relevant	70.7%	78.8%			
Trust	78.9%	80.1%			
Important	84.2%	83.7%			
Persuasive	68.5%	70.5%			
Effective	73.0%	71.9%			

2.5.3.2 Pollution Solutions

Participants were shown the ad "Pollution Solutions" and asked a series of questions about it. First, participants were asked if they had seen the ad or a similar one on TV, Facebook, or Twitter and given the response options "Yes", "No", "Not sure", and "Video did not play". After seeing the 'Pollution Solutions' ad, 16.7% of respondents report having seen the ad previously, as shown in Table 39 and Figure 31. Generally, older people reported having seen the ad previously at lower rates. Participants were then asked about their perceptions of the ad by listing a series of statements with the option to "Strongly disagree", "Disagree", "Neither disagree nor agree", "Agree", and "Strongly Agree". The statements were:

- I understand the information in the ad.
- The ad is relevant to me.
- I trust the information in the ad.
- The ad's message is important.
- The ad is persuasive.

• I think the ad would be effective.

In response to these statements, 81.1% of respondents report understanding the ad, 70.4% report believing the ad is relevant, 81.3% report trusting the information in the ad, 82.5% report thinking the information in the ad is important, 69.1% report believing the ad is persuasive and 71.8% report thinking the ad is effective. The results of both ads are shown in Figure 32.

Because this campaign is new is 2024, there is recognition or perceptions data from previous years.

Table 39. Perceptions of 'Pollution Solutions' advertisement by demographic group.

	Sub-category	Recog.	Underst.	Relevnt.	Trust	Import.	Persuas.	Effect.
	All Respondents	16.7%	81.1%	70.4%	81.3%	82.5%	69.1%	71.8%
Gender	Male	18.5%	80.9%	73.2%	82.0%	85.7%	71.3%	74.1%
	Female	15.0%	81.6%	67.9%	80.9%	79.5%	67.1%	69.7%
Age	21 to 24	18.9%	83.8%	65.7%	87.9%	90.9%	72.7%	71.9%
_	25 to 34	23.8%	71.6%	67.0%	78.1%	73.2%	64.3%	64.3%
	35 to 44	25.9%	83.2%	67.6%	80.0%	79.0%	68.6%	72.4%
	45 to 54	18.6%	77.1%	76.9%	78.1%	84.4%	67.2%	74.6%
	55 to 64	6.0%	90.9%	76.9%	79.7%	87.5%	67.2%	73.4%
	65 to 74	5.3%	82.5%	76.5%	90.0%	90.0%	84.0%	80.0%
	75 or older	**	87.9%	59.4%	84.4%	87.5%	66.7%	71.9%
Locality	Alexandria	16.4%	73.8%	68.4%	71.9%	73.2%	63.2%	70.2%
	Arlington	23.6%	81.8%	78.4%	76.9%	80.8%	72.5%	70.6%
	Fairfax - Inclusive	16.4%	84.1%	73.7%	85.8%	86.5%	66.9%	71.0%
	Prince William - Inclusive	15.4%	81.3%	59.8%	77.1%	78.3%	72.3%	72.3%
	Leesburg/Loudo n	14.4%	79.8%	71.4%	85.5%	85.7%	72.6%	75.0%
Ethnicity	Not Hispanic/Latino	16.5%	81.6%	71.3%	81.4%	82.5%	68.8%	71.9%
	Hispanic/Latino	18.4%	77.6%	63.0%	80.4%	82.6%	71.7%	71.7%
Years of	Less than 1 year	18.8%	78.8%	54.8%	77.4%	80.6%	67.7%	60.0%
Residence	1 to 3 years	8.9%	74.3%	72.3%	77.4%	76.3%	64.5%	73.1%
	4 to 9 years	21.7%	84.8%	75.0%	86.6%	85.9%	70.7%	71.7%
	10 to 19 years	25.0%	82.2%	73.5%	80.4%	82.2%	67.6%	72.5%
	20 or more years	11.0%	83.3%	66.7%	81.8%	85.1%	73.1%	73.3%
Home	Owned	19.1%	84.2%	72.0%	84.5%	86.7%	73.2%	75.4%
Ownership	Rented	11.7%	75.3%	68.2%	75.0%	74.3%	62.2%	66.0%
Household Income	Less than \$35,000	12.1%	69.0%	61.2%	70.8%	70.8%	64.6%	68.8%

Sub-category	Recog.	Underst.	Relevnt.	Trust	Import.	Persuas.	Effect.
335,000 to 349,999	15.1%	83.0%	63.3%	77.6%	76.0%	64.0%	63.3%
550,000 to 574,999	15.5%	75.9%	62.5%	80.4%	76.8%	55.4%	69.6%
\$75,000 to \$99,999	16.8%	81.2%	70.7%	82.1%	82.3%	70.5%	72.6%
\$100,000 to \$124,999	21.7%	81.2%	64.7%	80.9%	85.1%	76.5%	73.5%
\$125,000 to \$149,999	30.2%	85.7%	90.7%	86.0%	90.7%	78.6%	86.0%
5150,000 to 5174,999	9.5%	81.0%	70.0%	84.2%	89.5%	78.9%	78.9%
\$175,000 to \$199,999	14.8%	92.3%	84.0%	92.0%	88.0%	76.0%	68.0%
\$200,000 or greater	9.1%	90.9%	80.5%	85.4%	92.7%	65.9%	68.3%

^{*} *Red font* indicates significant differences within a demographic subgroup.

2.5.4 Campaign Impact

Survey participants who reported recognizing one or both advertisements were asked a series of questions about the potential impact of the ad(s) on their behaviors.

2.5.4.1 Impact of advertisements on pet waste clean-up

Respondents were asked how certain behaviors have changed since they first saw the ad(s), if they had seen the advertisements prior to the current survey. The first set of questions asked about their current pet waste disposal behaviors, the results of which can be seen in Table 40 and Figure 33. Participants were provided the following statements with response options being "Yes", "No", or "Does not apply":

- I understand more about the impact of pet waste on water quality.
- I'd like to pick up pet waste more often, though I haven't made any changes yet.
- I now pick up pet waste more often.
- I was already doing what is recommended to reduce water pollution from pet waste.

Of those respondents who had seen the ad prior to completing the current survey, 82.9% report understanding more about pet waste, 70.3% report wanting to pick up pet waste more often despite not having made any changes yet, 73.3% report now picking pet waste up more often and

^{**} Insufficient data for comparison to other subgroups.

84.9% report already doing what is recommended. Non-Hispanic/Latino respondents report understanding more about pet waste at higher rates than Hispanic/Latino respondents, at 85.3% compared to 60.0%.

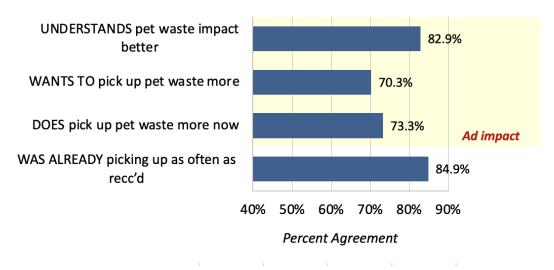
Table 40. Ad impact on pet waste clean-up behavior by demographic group among participants who had seen the advertisement prior to completing the current survey.

Demographic	Sub-category	Understands Pet Waste	Want to Pick Up More	More Pick-up Now	Pet Waste Already
	All Respondents	82.9%	70.3%	73.3%	84.9%
Gender	Male	87.3%	72.0%	80.0%	88.0%
	Female	78.0%	68.3%	65.0%	81.4%
Age	21 to 24	**	71.4%	83.3%	83.3%
	25 to 34	78.1%	81.5%	71.4%	80.6%
	35 to 44	78.4%	75.0%	66.7%	81.8%
	45 to 54	92.9%	50.0%	92.9%	92.9%
	55 to 64	71.4%	25.0%	50.0%	**
	65 to 74	**	100.0%	**	**
	75 or older	**	50.0%	0.0%	100.0%
Locality	Alexandria	81.3%	91.7%	76.9%	84.6%
	Arlington	80.0%	40.0%	78.6%	86.7%
	Fairfax - Inclusive	87.5%	75.0%	71.9%	84.8%
	Prince William - Inclusive	81.3%	80.0%	85.7%	78.6%
	Leesburg/Loudon	77.8%	64.7%	58.8%	88.9%
Ethnicity	Not Hispanic/Latino	85.3%	69.5%	76.8%	86.9%
	Hispanic/Latino	60.0%	77.8%	37.5%	66.7%
Years of Residence	Less than 1 year	77.8%	**	50.0%	83.3%
	1 to 3 years	75.0%	70.0%	80.0%	90.9%
	4 to 9 years	86.2%	75.0%	60.9%	72.0%
	10 to 19 years	84.8%	80.0%	80.6%	84.4%
	20 or more years	81.8%	40.0%	83.3%	**
Home Ownership	Owned	82.4%	66.2%	75.4%	87.7%
	Rented	80.8%	77.8%	76.2%	83.3%
Household Income	Less than \$35,000	84.6%	91.7%	53.8%	81.8%
	\$35,000 to \$49,999	83.3%	87.5%	88.9%	83.3%

Demographic	Sub-category	Understands Pet Waste	Want to Pick Up More	More Pick-up Now	Pet Waste Already
	\$50,000 to \$74,999	70.0%	62.5%	33.3%	55.6%
	\$75,000 to \$99,999	73.7%	60.0%	85.7%	71.4%
	\$100,000 to \$124,999	85.0%	57.9%	68.4%	94.7%
	\$125,000 to \$149,999	85.7%	61.5%	85.7%	**
	\$150,000 to \$174,999	**	66.7%	**	50.0%
	\$175,000 to \$199,999	**	83.3%	66.7%	**
	\$200,000 or greater	87.5%	85.7%	83.3%	**

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 33. Ad impact on pet waste behaviors.



2.5.4.2 Impact of advertisements on lawn/garden fertilization

Next, respondents were asked about their fertilizer behaviors. Participants were provided with the following statements with the response options being "Yes", "No", or "Does not apply":

- I understand more about the impact of fertilizer on water quality.
- I'd like to fertilize fewer time during the year.

^{**} Insufficient data for between-group comparison.

- I now plan to fertilize fewer times during the year.
- I was already doing what is recommended to reduce water pollution from fertilizer.

Of respondents who reported seeing the ad(s) previously, 81.6% report understanding more about the impact of fertilizer on water quality, 78.2% report wanted to fertilize fewer times despite not making any changes yet, 81.6% report now fertilizing less frequently and 78.1% report that they were already doing what is recommended as can be seen in Table 41 and Figure 34.

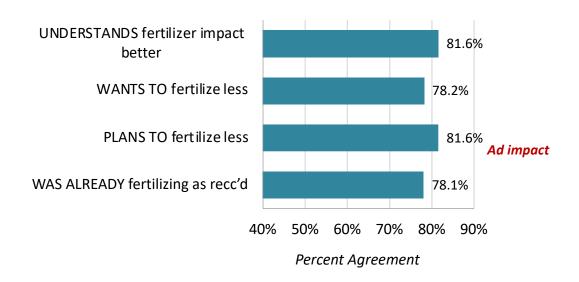
Table 41. Ad impact on fertilizing behavior by demographic group of those who had seen the advertisement prior to completing the survey.

Demographic	Sub-category	Understand Fertilizer	Want to Fertilizer Less	Fertilizes Less Now	Was Fertilizing Less Already
	All Respondents	81.6%	78.2%	81.6%	78.1%
Gender	Male	83.0%	85.1%	78.3%	77.4%
	Female	80.0%	70.0%	85.4%	79.1%
Age	21 to 24	**	66.7%	83.3%	83.3%
	25 to 34	93.8%	75.9%	82.1%	71.0%
	35 to 44	69.7%	75.0%	78.1%	85.7%
	45 to 54	85.7%	92.3%	92.3%	78.6%
	55 to 64	50.0%	75.0%	50.0%	80.0%
	65 to 74	**	**	**	75.0%
	75 or older	66.7%	100.0%	100.0%	0.0%
Locality	Alexandria	80.0%	90.9%	76.9%	84.6%
	Arlington	60.0%	76.9%	75.0%	93.3%
	Fairfax - Inclusive	82.9%	74.2%	83.9%	72.2%
	Prince William - Inclusive	86.7%	85.7%	92.3%	80.0%
	Leesburg/Loudon	94.4%	72.2%	77.8%	70.6%
Ethnicity	Not Hispanic/Latino	80.7%	78.2%	82.1%	79.1%
	Hispanic/Latino	90.0%	77.8%	77.8%	70.0%
Years of	Less than 1 year	85.7%	83.3%	83.3%	85.7%
Residence	1 to 3 years	83.3%	80.0%	**	83.3%
	4 to 9 years	88.5%	70.8%	70.8%	72.0%
	10 to 19 years	78.1%	80.0%	83.9%	80.6%
	20 or more years	76.2%	82.4%	81.3%	76.2%
	Owned	79.7%	75.0%	77.8%	76.8%

Demographic	Sub-category	Understand Fertilizer	Want to Fertilizer Less	Fertilizes Less Now	Was Fertilizing Less Already
Home Ownership	Rented	88.0%	89.5%	90.0%	79.2%
Household	Less than \$35,000	**	**	81.8%	81.8%
Income	\$35,000 to \$49,999	90.9%	80.0%	81.8%	66.7%
	\$50,000 to \$74,999	90.0%	77.8%	66.7%	77.8%
	\$75,000 to \$99,999	62.5%	50.0%	91.7%	66.7%
	\$100,000 to \$124,999	73.7%	66.7%	83.3%	84.2%
	\$125,000 to \$149,999	78.6%	84.6%	84.6%	85.7%
	\$150,000 to \$174,999	66.7%	66.7%	33.3%	**
	\$175,000 to \$199,999	**	**	80.0%	66.7%
	\$200,000 or greater	85.7%	**	**	85.7%

^{*} *Red font* indicates significant differences within a demographic subgroup.

Figure 34. Ad impact on fertilization behaviors.



2.5.4.3 Impact of advertisements on motor oil disposal

Finally, survey participants were asked about their behaviors regarding disposing of motor oil after watching the advertisements. Respondents were provided the following statements with the option to respond "Yes", "No", or "Does not apply":

^{**} Insufficient data for between-group comparison.

- I understand more about the impact of motor oil on water quality.
- I'd like to dispose of motor oil properly, though I haven't made any changes yet.
- I now properly dispose of motor oil.
- I was already doing what is recommended to reduce water pollution from motor oil.

Of the respondents, 87.8% report understanding more about the impact of motor oil on water quality, 73.3% report wanting to dispose of motor oil properly despite not making any changes yet, 80.9% report now properly disposing of motor oil and 87.8% of respondents were already doing what is recommended as shown in Table 42 and Figure 35. Respondents who have lived in their residence for 20 or more years report the lowest rates of wanting to dispose of motor oil properly despite not making any changes yet compared to respondents who have lived in their residences for fewer years.

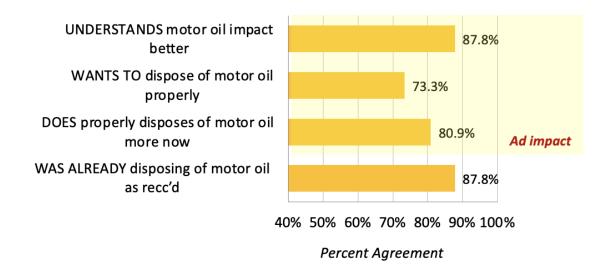
Table 42. Ad impact on motor oil (MO) disposal by demographic group among respondents who had seen the advertisement prior to completing the survey.

Demographic	Sub-category	MO Understand	Wants to Dispose Properly	Now Disposes Properly	Was Already Disposing Properly
	All Respondents	87.8%	73.3%	80.9%	87.8%
Gender	Male	88.9%	72.3%	80.0%	90.6%
	Female	86.4%	74.4%	82.1%	84.4%
Age	21 to 24	100.0%	83.3%	83.3%	100.0%
	25 to 34	86.7%	73.1%	85.7%	80.6%
	35 to 44	83.3%	82.9%	65.6%	86.1%
	45 to 54	92.9%	50.0%	92.3%	92.3%
	55 to 64	80.0%	33.3%	100.0%	100.0%
	65 to 74	100.0%	100.0%	100.0%	100.0%
	75 or older	100.0%	100.0%	100.0%	100.0%
Locality	Alexandria	92.9%	84.6%	93.3%	93.3%
	Arlington	92.9%	41.7%	66.7%	93.3%
	Fairfax - Inclusive	83.8%	72.4%	80.0%	88.2%
	Prince William - Inclusive	93.8%	80.0%	86.7%	87.5%
	Leesburg/Loudo n	82.4%	82.4%	76.5%	77.8%
Ethnicity	Not Hispanic/Latino	89.8%	74.0%	82.5%	89.8%
	Hispanic/Latino	70.0%	66.7%	66.7%	70.0%

Demographic	Sub-category	MO Understand	Wants to Dispose Properly	Now Disposes Properly	Was Already Disposing Properly	
Years of	Less than 1 year	100.0%	100.0%	66.7%	75.0%	
Residence	1 to 3 years	90.9%	66.7%	90.0%	100.0%	
	4 to 9 years	95.8%	72.7%	66.7%	76.9%	
	10 to 19 years	82.4%	87.9%	86.7%	91.2%	
	20 or more years	81.8%	44.4%	89.5%	94.7%	
Home	Owned	84.7%	71.2%	78.8%	87.1%	
Ownership	Rented	95.5%	76.5%	85.7%	91.7%	
Household Income	Less than \$35,000	90.9%	80.0%	80.0%	83.3%	
	\$35,000 to \$49,999	100.0%	77.8%	90.9%	100.0%	
	\$50,000 to \$74,999	88.9%	85.7%	75.0%	70.0%	
	\$75,000 to \$99,999	82.4%	71.4%	70.6%	83.3%	
	\$100,000 to \$124,999	88.9%	52.9%	93.8%	89.5%	
	\$125,000 to \$149,999	78.6%	71.4%	85.7%	100.0%	
	\$150,000 to \$174,999	66.7%	100.0%	33.3%	66.7%	
	\$175,000 to \$199,999	100.0%	83.3%	50.0%	80.0%	
	\$200,000 or greater	87.5%	83.3%	100.0%	100.0%	

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 35. Ad impact on motor oil behaviors.



2.5.4.4 Impact of ads across years

Reported impact of the ads on behaviors regarding pet waste, fertilizer, and motor oil in 2023 and 2024 can be seen below in Table 43. There were no significant differences between 2023 and 2024.

Table 43. Ad impact across years.

		Year of	Survey
Survey Quest	ions Response	2023	2024
	Understands	85.5%	82.9%
Pet Waste	Wants to change	77.6%	70.3%
Pet waste	Has picked up more	76.6%	73.3%
	Was already picking up	83.0%	84.9%
	Understands	85.0%	81.6%
Fertilizer	Wants to change	74.7%	78.2%
rertilizer	Plans on fertilizing less	76.3%	81.6%
	Was already fertilizing less	71.4%	78.1%
	Understands	84.4%	87.8%
Motor Oil	Wants to change	75.7%	73.3%
IVIOLOT OII	Now disposes of motor oil properly	79.3%	80.9%
	Was already disposing properly	82.0%	87.8%

^{*} *Red font* indicates that the value significantly differs from the current 2024 value.

2.5.5 Perceptions of the Campaign Sponsor (NVCWP)

Survey participants were asked about their perceptions of the campaign sponsor, the Northern Virginia Clean Water Partners, as perceptions of the campaign sponsor are known to impact consumer perceptions of the campaign. Table 44 and Figure 36 shows the percentage of respondents that indicate that they "Agree" or "Strongly Agree" with statements about NVCWP, on a 5-point scale of "Strongly Disagree", "Disagree", "Neither agree nor Disagree", "Agree" and "Strongly Agree". The statements were:

- I was familiar with the NVCWP before this survey
- I trust information from the NVCWP
- I would contact the NVCWP if I had a question or concern about water quality
- The NVCWP shares my values when it comes to water quality

Approximately one-third, 33.3%, indicate they are familiar with NVCWP. In addition, 71.2% of participants reported they trust information from NVCWP. Next, 69.7% of participants reported believing that they share values about water quality with NVCWP. Finally, 66.8% of respondents stated that they would contact NVCWP if they had questions about water with consistent results across subgroup demographics. Men report the greatest familiarity with NVCWP, at 39.4% compared to 27.4% among women. Generally, reported familiarity with NVCWP decreased as age increased.

Table 44. Perceptions of the campaign sponsor, NVCWP, by demographic group.

Demographic	Sub-category	Familiar with NVCWP	Trusts NVCWP	Share Values with NVCWP	Would Contact NVCWP
		Agree or	Agree or	Agree or	Agree or
		Strongly	Strongly	Strongly	Strongly
		Agree	Agree	Agree	Agree
	All Respondents	33.3%	71.2%	69.7%	66.8%
Gender	Male	39.4%	74.8%	73.5%	71.3%
	Female	27.4%	67.9%	66.1%	62.6%
Age	21 to 24	42.9%	76.9%	71.1%	60.5%
	25 to 34	41.9%	71.7%	68.4%	67.7%
	35 to 44	39.8%	70.5%	66.7%	70.8%
	45 to 54	36.5%	72.1%	70.6%	70.6%
	55 to 64	17.6%	67.2%	69.2%	58.5%
	65 to 74	15.5%	73.6%	73.6%	69.2%

Demographic	Sub-category	Familiar with NVCWP	Trusts NVCWP	Share Values with NVCWP	Would Contact NVCWP
		Agree or	Agree or	Agree or	Agree or
			Strongly	Strongly	Strongly
	75 or older		_	Agree 74.3%	Agree 62.9%
Locality	Alexandria	_		67.7%	61.9%
Locality	Arlington	37.9%	74.5%	72.7%	70.9%
	Fairfax - Inclusive	27.6%	75.4%	70.3%	65.5%
	Prince William - Inclusive	29.2%	60.2%	63.6%	64.0%
	Leesburg/Loudon	44.6%	72.7%	73.9%	73.0%
Ethnicity	Not Hispanic/Latino	33.0%	71.4%	68.8%	65.4%
	Hispanic/Latino	35.3%	69.4%	77.1%	79.2%
Years of Residence	Less than 1 year	27.8%	64.7%	70.6%	61.8%
Years of Residence	1 to 3 years	23.9%	69.3%	65.0%	67.3%
	4 to 9 years	38.9%	71.0%	73.1%	71.3%
	10 to 19 years	41.8%	81.0%	75.5%	71.0%
	20 or more years	With NVCWP NVCV Agree or Strongly Agree Strongly Agree Agree Agree 27.8% 67.6 35.4% 69.8 37.9% 74.5 27.6% 75.4 29.2% 60.2 44.6% 72.7 33.0% 71.4 35.3% 69.4 27.8% 64.7 23.9% 69.3 38.9% 71.0 41.8% 81.0 30.5% 66.4 36.0% 74.5 28.2% 66.0 27.0% 70.9 34.5% 68.6 37.5% 66.7 25.5% 66.3 40.0% 76.1 44.4% 84.4 27.3% 85.7 63.0% 76.0	66.4%	65.0%	60.0%
Home Ownership	Owned	36.0%	74.5%	72.6%	69.4%
	Rented	28.2%	66.0%	65.0%	61.5%
Household Income	Less than \$35,000	27.0%	70.9%	67.9%	62.5%
	\$35,000 to \$49,999	34.5%	68.6%	55.1%	58.8%
	\$50,000 to \$74,999	37.5%	66.7%	68.9%	63.9%
	\$75,000 to \$99,999	25.5%	66.3%	67.3%	64.4%
	\$100,000 to \$124,999	40.0%	76.1%	80.6%	76.1%
	\$125,000 to \$149,999	44.4%	84.4%	82.2%	84.4%
	\$150,000 to \$174,999	27.3%	85.7%	71.4%	71.4%
	\$175,000 to \$199,999	63.0%	76.0%	66.7%	72.0%
	\$200,000 or greater	15.9%	61.4%	65.9%	53.5%

^{*} Red font indicates significant differences within a demographic subgroup.

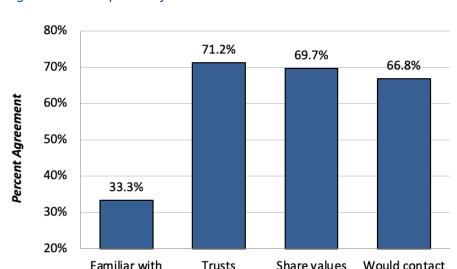


Figure 36. Perceptions of NVCWP.

Changes in perceptions of NVCWP across between 2023 and 2024 are shown in the table below. Familiarity with the organization decreased from 2023, from 42.2% to 33.3%. Trust, sentiment of shared values with NVCWP, and reported likelihood to contact NVCWP if needed remained the same.

Table 45. Perceptions of NVCWP across years.

	Survey Year						
	2023	2024					
Familiar with NVCWP	42.2%	33.3%					
Trusts NVCWP	73.5%	71.2%					
Share Values with NVCWP	74.5%	69.7%					
Would Contact NVCWP	70.9%	66.8%					

^{*} *Red font* indicates that the value significantly differs from the current 2024 value.

2.6 Message Sources

Survey participants were asked about their TV service provider and which channels they watch in order to get a better understanding of their sources of messaging. Provided options for TV service provider were "Verizon", "Comcast", "Cox", "Xfinity", "Do not have cable TV", "Do not watch TV", "I don't know", and the option to write-in another provider not listed. As shown in Table 46 and Figure 37, 40.8% of participants report using Verizon as their TV service

provider, 9.0 % report using Comcast, 11.8% report using Cox and 15.6% report using Xfinity. Additionally, 15.8 % report not having cable, 2.0% report not watching TV, 0.2% report using some other service not listed, and 4.8% of respondents report not knowing which TV service provider they use.

Women reported using Xfinity at a higher rate than men, at 19.2% compared to 12.1%. Reported Verizon use is highest amongst Leesburg/Loudon, Arlington, and Fairfax residents. Additionally, reported Cox use is higher in Fairfax and Alexandria. Reported use of Verizon as a TV service provider also tends to increases with age. Additionally, home owners reported using Verizon at a higher rate (48.9%) compared to renters (27.4%). Younger people report using Xfinity as a TV service provider at higher rates than older people. Renters also report using Xfinity at a rate of 24.6% compared to 10.0% of owners. Finally, renters report not having cable TV at higher rates than home owners, at 22.3% and 12.5% respectively.

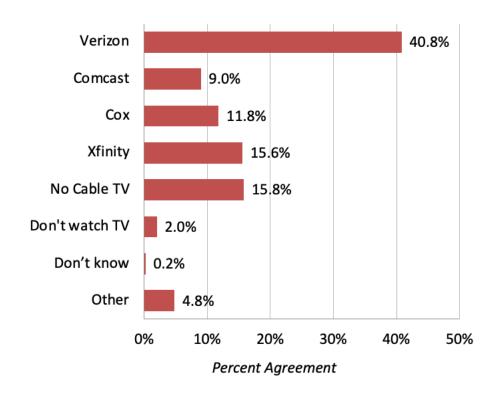
Table 46. TV service providers among respondents by demographic group.

Demographi c	Sub-category			Т	V Service	Provider			
		Verizon	Com- cast	Cox	Xfinity	No Cable TV	Don't watch TV	Don't know	Other
	All Respondents	40.8%	9.0%	11.8%	15.6%	15.8%	2.0%	0.2%	4.8%
Gender	Male	44.4%	7.7%	12.9%	12.1%	16.5%	1.2%	0.4%	4.8%
	Female	37.2%	10.4%	10.8%	19.2%	14.8%	2.8%	0.0%	4.8%
Age	21 to 24	42.9%	11.9%	16.7%	14.3%	11.9%	2.4%	0.0%	0.0%
	25 to 34	42.5%	6.6%	9.4%	19.8%	17.0%	1.9%	0.0%	2.8%
	35 to 44	43.0%	14.0%	13.2%	11.4%	14.0%	3.5%	0.0%	0.9%
	45 to 54	36.5%	10.8%	10.8%	14.9%	23.0%	0.0%	1.4%	2.7%
	55 to 64	36.2%	5.8%	5.8%	15.9%	15.9%	4.3%	0.0%	15.9%
	65 to 74	44.1%	0.0%	13.6%	15.3%	15.3%	0.0%	0.0%	11.9%
	75 or older	38.9%	13.9%	19.4%	19.4%	8.3%	0.0%	0.0%	0.0%
Locality	Alexandria	24.6%	15.4%	15.4%	24.6%	10.8%	1.5%	0.0%	7.7%
	Arlington	45.8%	11.9%	6.8%	23.7%	10.2%	0.0%	0.0%	1.7%
	Fairfax - Inclusive	42.7%	5.4%	20.5%	3.8%	21.6%	3.2%	0.5%	2.2%
	Prince William - Inclusive	36.1%	10.3%	1.0%	28.9%	13.4%	2.1%	0.0%	8.2%
	Leesburg/Loudo n	50.0%	8.5%	6.4%	13.8%	13.8%	1.1%	0.0%	6.4%
Ethnicity	Not Hispanic/Latino	41.1%	8.9%	11.6%	15.8%	15.4%	1.8%	0.2%	5.1%
	Hispanic/Latino	38.5%	9.6%	13.5%	13.5%	19.2%	3.8%	0.0%	1.9%
	Less than 1 year	13.9%	2.8%	16.7%	30.6%	25.0%	8.3%	0.0%	2.8%

Demographi c	Sub-category		TV Service Provider									
		Verizon	Com- cast	Cox	Xfinity	No Cable TV	Don't watch TV	Don't know	Other			
Years of	1 to 3 years	36.7%	5.5%	6.4%	22.9%	21.1%	2.8%	0.0%	4.6%			
Residence	4 to 9 years	44.3%	13.0%	13.9%	14.8%	12.2%	0.0%	0.0%	1.7%			
	10 to 19 years	45.0%	9.9%	10.8%	7.2%	18.0%	1.8%	0.9%	6.3%			
	20 or more years	45.0%	9.3%	14.0%	13.2%	10.1%	1.6%	0.0%	7.0%			
Home	Owned	48.9%	10.0%	12.2%	10.0%	12.5%	1.0%	0.3%	5.1%			
Ownership	Rented	27.4%	7.4%	10.9%	24.6%	22.3%	2.9%	0.0%	4.6%			
Household Income	Less than \$35,000	25.4%	9.5%	15.9%	17.5%	23.8%	4.8%	0.0%	3.2%			
	\$35,000 to \$49,999	30.4%	8.9%	8.9%	25.0%	17.9%	3.6%	0.0%	5.4%			
	\$50,000 to \$74,999	44.6%	7.7%	9.2%	10.8%	18.5%	3.1%	0.0%	6.2%			
	\$75,000 to \$99,999	42.5%	7.5%	13.2%	21.7%	10.4%	0.9%	0.9%	2.8%			
	\$100,000 to \$124,999	45.1%	14.1%	9.9%	14.1%	12.7%	0.0%	0.0%	4.2%			
	\$125,000 to \$149,999	42.2%	4.4%	20.0%	11.1%	15.6%	0.0%	0.0%	6.7%			
	\$150,000 to \$174,999	59.1%	4.5%	22.7%	4.5%	4.5%	4.5%	0.0%	0.0%			
	\$175,000 to \$199,999	55.6%	14.8%	3.7%	7.4%	14.8%	3.7%	0.0%	0.0%			
	\$200,000 or greater	40.0%	8.9%	4.4%	11.1%	22.2%	0.0%	0.0%	13.3%			

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 37. TV service providers.



TV channel options provided in the survey were "HLN TV", "Oxygen", "Toon", "ENT", "Animal Planet", "CNN", "ESPN", "History", "National Geographic", "Lifetime", "The CW", "Home and Garden", and "None of the above". When asked which TV channels they watched (see Table 47 and Figure 38), 45.8% of respondents report watching CNN, 40.6% report watching ESPN, 36.8% report watching National Geographic, 27.2% report watching Animal Planet, 21.8% report watching Lifetime and 21.0% report watching Home and Garden. Additionally, 17.0% report not watching any of the listed channels, 13.4% reporting watching The CW, 9.8% report watching Oxygen, 7.0% report watching HLN TV, 6.0% report watching Toon and 3.8% report watching ENT.

Men report watching CNN, ESPN, History Channel, and National Geographic at higher rates than women. Younger people tend to report watching Animal Planet at higher rates than older people. Residents of Leesburg/Loudon report watching CNN at higher rates than residents of other localities. Additionally, Prince William residents report watching Lifetime at the highest rates and Arlington residents report watching Home and Garden at the highest rates.

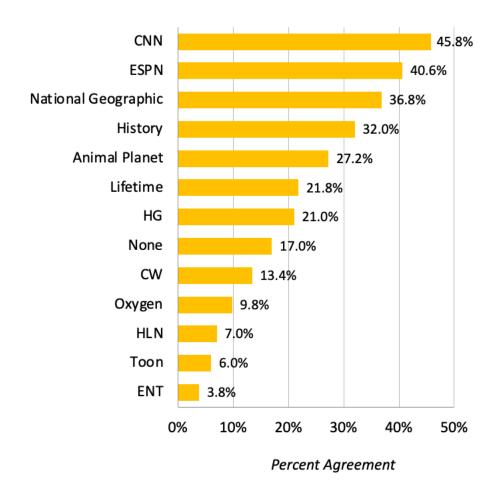
Table 47. TV channels that respondents report watching by demographic group.

Demographic	Sub-category		TV Channels Watched											
		HLN	Oxygen	Toon	ENT	AP	CNN	ESPN	History	National Geographic	Lifetime	CW	HG	None
	All Respondents	7.0%	9.8%	6.0%	3.8%	27.2%	45.8%	40.6%	32.0%	36.8%	21.8%	13.4%	21.0%	17.0%
Gender	Male	8.1%	7.3%	6.9%	4.0%	26.6%	50.4%	51.2%	39.1%	41.9%	19.4%	14.5%	20.6%	15.3%
	Female	6.0%	12.4%	5.2%	3.6%	28.0%	41.6%	30.0%	25.2%	32.0%	24.4%	12.4%	21.6%	18.4%
Age	21 to 24	2.4%	4.8%	11.9%	7.1%	23.8%	40.5%	45.2%	19.0%	33.3%	9.5%	9.5%	11.9%	21.4%
	25 to 34	7.5%	14.2%	7.5%	5.7%	38.7%	49.1%	46.2%	26.4%	42.5%	23.6%	10.4%	27.4%	13.2%
	35 to 44	12.3%	8.8%	6.1%	6.1%	30.7%	50.0%	43.9%	27.2%	36.0%	22.8%	14.9%	21.9%	14.9%
	45 to 54	9.5%	12.2%	12.2%	2.7%	33.8%	41.9%	44.6%	39.2%	35.1%	21.6%	21.6%	23.0%	18.9%
	55 to 64	2.9%	5.8%	0.0%	1.4%	18.8%	49.3%	34.8%	34.8%	31.9%	24.6%	11.6%	14.5%	20.3%
	65 to 74	3.4%	11.9%	1.7%	0.0%	11.9%	39.0%	32.2%	42.4%	35.6%	23.7%	10.2%	23.7%	13.6%
	75 or older	2.8%	5.6%	0.0%	0.0%	13.9%	41.7%	25.0%	41.7%	41.7%	19.4%	13.9%	13.9%	25.0%
Locality	Alexandria	4.6%	9.2%	4.6%	4.6%	30.8%	53.8%	50.8%	27.7%	40.0%	20.0%	9.2%	24.6%	15.4%
	Arlington	13.6%	10.2%	10.2%	0.0%	32.2%	47.5%	39.0%	35.6%	44.1%	18.6%	11.9%	30.5%	15.3%
	Fairfax - Inclusive	4.3%	7.0%	4.3%	3.8%	24.9%	41.1%	38.9%	33.0%	34.6%	20.5%	13.0%	14.1%	23.8%
	Prince William - Inclusive	9.3%	17.5%	8.2%	6.2%	24.7%	36.1%	38.1%	26.8%	32.0%	34.0%	17.5%	18.6%	14.4%
	Leesburg/Lou don	7.4%	7.4%	5.3%	3.2%	28.7%	58.5%	40.4%	36.2%	39.4%	14.9%	13.8%	28.7%	8.5%
Ethnicity	Not Hispanic/Lati no	7.4%	9.8%	5.8%	3.8%	27.5%	46.0%	40.4%	32.8%	36.2%	21.7%	14.1%	21.4%	17.2%
	Hispanic/Lati no	3.8%	9.6%	7.7%	3.8%	25.0%	44.2%	42.3%	25.0%	42.3%	23.1%	7.7%	17.3%	15.4%
Years of Residence	Less than 1 year	11.1%	11.1%	11.1%	2.8%	30.6%	30.6%	38.9%	27.8%	36.1%	16.7%	2.8%	11.1%	27.8%
	1 to 3 years	1.8%	13.8%	6.4%	0.9%	21.1%	41.3%	41.3%	27.5%	31.2%	18.3%	7.3%	14.7%	20.2%

Demographic	Sub-category		TV Channels Watched											
		HLN	Oxygen	Toon	ENT	AP	CNN	ESPN	History	National Geographic	Lifetime	CW	HG	None
	4 to 9 years	5.2%	9.6%	7.0%	6.1%	31.3%	49.6%	43.5%	34.8%	35.7%	22.6%	15.7%	19.1%	13.0%
	10 to 19 years	9.0%	7.2%	5.4%	4.5%	29.7%	47.7%	35.1%	33.3%	40.5%	23.4%	17.1%	27.0%	18.0%
	20 or more years	10.1%	8.5%	3.9%	3.9%	25.6%	48.8%	42.6%	33.3%	39.5%	24.0%	16.3%	25.6%	14.0%
Home	Owned	8.4%	8.7%	5.1%	4.5%	28.9%	50.5%	43.7%	33.4%	41.5%	21.5%	14.8%	23.8%	14.8%
Ownership	Rented	5.1%	12.0%	8.0%	2.3%	25.7%	40.0%	38.3%	31.4%	29.7%	22.3%	10.9%	17.1%	19.4%
Household Income	Less than \$35,000	7.9%	19.0%	11.1%	6.3%	27.0%	42.9%	30.2%	31.7%	34.9%	27.0%	14.3%	15.9%	23.8%
	\$35,000 to \$49,999	0.0%	5.4%	5.4%	0.0%	23.2%	30.4%	35.7%	25.0%	25.0%	17.9%	10.7%	16.1%	21.4%
	\$50,000 to \$74,999	4.6%	9.2%	6.2%	3.1%	20.0%	36.9%	41.5%	20.0%	26.2%	21.5%	12.3%	13.8%	20.0%
	\$75,000 to \$99,999	6.6%	12.3%	3.8%	2.8%	33.0%	48.1%	38.7%	31.1%	37.7%	20.8%	9.4%	22.6%	15.1%
	\$100,000 to \$124,999	11.3%	11.3%	7.0%	4.2%	31.0%	56.3%	42.3%	28.2%	40.8%	18.3%	16.9%	21.1%	9.9%
	\$125,000 to \$149,999	11.1%	2.2%	2.2%	0.0%	28.9%	40.0%	44.4%	42.2%	60.0%	33.3%	22.2%	24.4%	13.3%
	\$150,000 to \$174,999	9.1%	4.5%	0.0%	0.0%	27.3%	45.5%	50.0%	40.9%	54.5%	9.1%	9.1%	22.7%	13.6%
	\$175,000 to \$199,999	7.4%	7.4%	7.4%	14.8 %	29.6%	55.6%	40.7%	51.9%	25.9%	22.2%	22.2%	40.7%	18.5%
	\$200,000 or greater	6.7%	6.7%	8.9%	6.7%	20.0%	60.0%	53.3%	40.0%	35.6%	22.2%	8.9%	24.4%	17.8%

^{*} Red font indicates significant differences within a demographic subgroup.

Figure 38. TV channels watched.



3 APPENDIX

3.2 Survey Instrument

2024 Stormwater Survey

Survey Instrument

Programming instructions

- Programming instructions are in [SQUARE BRACKETS].
- Skip/branch logic is in [RED SQUARE BRACKETS].
- All items are single-select unless otherwise noted.
- Retain response option order unless noted.
- Retain grid item order unless noted.
- Allow respondents to go back/forward.
- Respondents may skip any question, but give one prompt if they move forward without a response. Terminate if a screener question is skipped.

Consent and screening

We're conducting this survey to understand opinions related to storm water. Everything you say will be anonymous. You'll watch a couple short videos, so please make sure your sound is on. The survey should take about 10 minutes.

Do you want to proceed? Yes No [END SURVEY]

Section	Construct	Q#	Question
Demograp hics			First, we'll ask a few questions about you.
			What is your gender identity?
			Male
			Female
			Non-binary/non-conforming
			Prefer not to answer
Demograp hics	Age	S2	Which of the following categories includes your age?
			Under 18 [END SURVEY]
			18 to 20 [END SURVEY]
			21 to 24
			25 to 34
			35 to 44
			45 to 54
			55 to 64
			65 to 74
			75 or older
Demograp hics	Residence Type	S3	Is your home?
	,,		Owned
			Rented
			Military housing
			Transitional housing
			Other (Please specify):
			None of the above [END SURVEY]
Demograp hics	VA Residency	S4	Do you live in the state of Virginia?
			Yes
			No [END SURVEY]
			NO [END SURVEY]

Demograp	NoVA	S5	Do you live in one of the following towns, cities, or counties? Please
hics	Residency		select only one location.
			Alexandria
			Arlington
			Fairfax County: Fairfax City
			Fairfax County: Herndon
			Fairfax County: Vienna
			Fairfax County, but not one of the cities/towns listed
			Falls Church
			Henrico County [END SURVEY]
			Loudoun County: Leesburg
			Loudoun County, but not Leesburg
			Prince William County: Dumfries
			Prince William County: Manassas
			Prince William County: Manassas Park
			Prince William County, but not one of the cities/towns listed
			Richmond [END SURVEY]
			Virginia Beach [END SURVEY]
			None of the above [END SURVEY]
Demograp	Occupation	S6	What is your occupation/sector of work?
hics			[RETAIN ORDER, DO NOT RANDOMIZE]
			a. Student only (no other occupation)
			b. Retired
			c. Currently unemployed
			d. Agriculture, forestry, fishing and hunting, and mining
			e. Construction
			f. Manufacturing
			g. Wholesale trade
			h. Retail trade
			i. Transportation and warehousing
			j. Utilities
			k. Information or information technology
			I. Finance and insurance,
			m. Real estate and/or rental and leasing
			n. Professional and/or scientific
			o. Administrative
			p. Waste management services
			q. Educational services
			r. Health care and/or social assistance
			s. Arts, entertainment, and recreation
			t. Accommodation/hospitality and food services
			u. Public administration
			v. Other services
			w. Other:

	T		
Demograp hics	HH Income	S7	What is your household's annual income?
TIICS			Loss than \$25,000
			Less than \$35,000 \$35,000 to \$49,999
			\$50,000 to \$74,999
			\$75,000 to \$99,999
			\$100,000 to \$124,999
			\$125,000 to \$149,999
			\$150,000 to \$174,999
			\$175,000 to \$199,999
			\$200,000 or greater
Demograp	Ethnicity	S8	Which of the following describes your ethnicity? (Please select all that
hics			apply)
			GPP-11
			African American/Black
			American Indian/Native Alaskan
			Asian
			Hispanic/Latino
			Native Hawaiian/Pacific Islander
			White/Caucasian
			Other:
Demograp	Language	S9	What is the main language spoken in your home?
hics			a. English
			b. Spanish
			c. Chinese
			d. Vietnamese
			e. Arabic
			f. Korean
			g. Tagalog (including Filipino)
			h. Urdu
			i. Amharic or Somali
			j. French (including Cajun)
			k. Persian (including Farsi, Dari)
			I. Other:
Demograp	Years in	Q1	How many years have you lived in your current residence?
hics	residence		
			Less than 1 year
			1 to 3 years
			4 to 9 years
			10 to 19 years
			20 or more years

Behavior	Lawn or garden at residence	Q2	Does your home have a lawn or garden, no matter how small? Yes No						
Behavior	Lawn care familiarity	Q3	[IF Q2 = YES] Are you familiar with how your garden or lawn is cared for (e.g., fertilizer use, mowing)? Yes No						
Behavior	Lawn care use	Q4	[IF Q2 = YES] Do you use a lawn care service at least once a year? Yes No						
Behavior	Vehicle owner	Q5	Do you own or lease a personal vehicle? Yes No						
Demograp hics	Own a dog	Q6	Is there one or more dogs in your home that you are at least partially responsible for? Yes						
Knowledge	Watershed	Q7	Are you familiar with the term "watershed"? Yes No [DISPLAY TEXT ON NEXT PAGE AFTER RESPONSE HAS BEEN ENTERED.] A watershed is an area of land that channels rainfall and snowmelt to creeks, streams, and rivers, and eventually to outflow points such as reservoirs, bays, and the ocean.						
Demograp hics	Reside within watershed	Q8	Do you live in the YES NO Don't Know Chesapeake Bay watershed? Potomac River watershed? Another watershed not listed?						

Perceptions	Storm water final destination	Q9	"Stormwater" is rainwater that flows into the street, along the gutter and into the storm drain. To the best of your knowledge, where does stormwater go? A wastewater treatment facility Potomac River and Chesapeake Bay All of the above None of the above Other:
Behavior	Dog walk cleanup frequency	Q10	[IF Q6= YES] When taking your dog(s) for a walk, how often do you pick up after your dog(s)? Always Usually Sometimes Rarely Never Not applicable/I don't take the dog(s) on walks
Behavior	Dog yard clean up frequency	Q11	[IF Q6 = YES AND Q2 = YES] How often do you (or someone else from your household) remove your dog's waste from your yard? Not applicable – dog not allowed to go in the home's yard Daily Weekly Monthly Less often than once a month Never Not sure

Belief	Reason for dog clean up	Q12	[IF Q10 = (Always, Usually, Sometimes, Rarely) AND Q11 = (Daily, Weekly, Monthly, Less often than once a month)] What is the most important reason to pick up after your dog(s)? (Please select only one) City/county ordinance Don't want to step in it It causes water pollution It is gross It's what good neighbors do Odor Other reason None/no reason to
Behavior	Grass clippings handling	Q13	[IF Q3 = YES] How are grass clippings from your lawn disposed of? Bagged and put in the regular trash Bagged and put in compost/recycling bags for pick up Left on the lawn/garden Put in a compost pile/bin Not sure Other Not applicable/don't have grass clippings
Behavior	Grass clippings on street handling	Q14	[IF Q3 = YES] After your grass has been mown, what is done if grass clippings end up in the street? They are left there. They are swept or blown back into the lawn. They are swept or blown into the storm drain Not applicable/don't have grass clippings Other: Not sure
Behavior	Lawn fertilization frequency	Q15	[IF Q3 = YES] Which of the following best describes how often your lawn is fertilized? 1 time a year 2 times a year 3 times a year 4+ times a year Only if/when if a soil test indicates the grass needs fertilizer Never Not sure

Knowledge	Rain barrel familiarity	Q16	A rain barrel is a barrel you put under your down water that you can use around your yard. Which statements are true for you?	•		
				YES	NO	
			I have a rain barrel.	1123	110	
			I am familiar with rain barrels.			
			I don't have a rain barrel but I'm interested in			
			getting one.			
Knowledge	Rain garden familiarity	Q17	A rain garden is a bowl-shaped garden area when soak into the ground. Which of the following state			
				YES	NO	
			I have a rain garden.			
			I am familiar with rain gardens.			
			I don't have a rain garden but I'm interested in			
			installing one.			
	familiarity		I have conservation landscaping in my yard. I am familiar with conservation landscaping. I don't have conservation landscaping but I'm interested in installing it.		YES	NO
Behavior	Vehicle oil handling	Q19	<pre>[IF Q5 = YES] When you need to change the oil in your car or tr with the old motor oil? I don't change the oil myself/I take it to a ga Take the old motor oil to a gas station or haz Store it in my garage Put it in the trash Dump it in the gutter or down the storm sew Dump it down the sink Dump it on the ground Other: [please specify]</pre>	rage/o zmat fa	il change	e service

Knowledge	HHW drop off knowledge	Q20	Do you know whether or not your locality has a specific place for residents to drop off household hazardous waste (HHW)? HHW includes items like automobile fluids, pesticides and herbicides, oil-based paint and paint thinners, etc. Yes, I know whether we have a location for drop-offs. No, I'm not sure whether we have a location for drop-offs.					
Behavior	Wash vehicle at home	Q21	<pre>[IF Q5 = YES] In the past year, where have you washed your personal vehic that apply. [MULTISELECT] At my home or someone else's home At a commercial car wash I haven't washed my vehicle Other: [please specify]</pre>	cle? Check all				
Behavior	Wash vehicle at home frequency	Q22	[IF Q21 = At my/someone else's home] How often do you typically wash your car/truck at home? Less than once a year 1- 2 times per year 3-4 times per year 5-6 times per year 7-12 times per year 12+ times per year					
Behavior	Wash vehicle method	Q23		ng apply? OT JRE				

Knowledge	Pollution identification	Q24	Looking at the picture below, would you consider either to be a potential source of water pollution? [MEDIA: SurveyImage_POLLUTION.png] Yes No Not sure Cannot see image
Knowledge	Pollution reporting knowledge	Q25	Do you feel that you know who to contact to report potential water pollution? I definitely know I think I know I don't think I know I definitely don't know
Behavior	Likelihood to report pollution	Q26	What is the likelihood that you would call county or town officials to report potential pollution so they could investigate the cause? I definitely would I probably would I'm equally likely to call and to not call I probably would NOT I definitely would NOT
Behavior	Reason for not reporting pollution	Q27	[IF Q26 = Equally likely, Probably not or Definitely not] What is the primary reason that you would not call county or town officials to report potential pollution? I'm too busy It's not my responsibility It's none of my business I prefer not to communicate with officials or authorities Other:
Behavior	Salt/abrasive	Q28	During snowy and icy conditions, how often (if at all) do you (or a family member) apply deicer (e.g., salt) at your residence? Always or most of the time Frequently Sometimes Occasionally Rarely Never Don't know

Behavior	Salt/abrasive	Q29	[SKIP IF Q28 = "R	ARELY"	OR "NEV	ER"]			
			Do you (or a fami residence before, (Select all that ap	during,					at your
			Before						
			During						
			After						
			Depends / v Other:			-			
			Don't know		[piease s	pecify			
Behavior	Salt/abrasive	Q30	During snowy and icy conditions, how often (if at all) do you (or a family member) apply an abrasive for traction (e.g., sand) at you residence?						-
			Always or m	nost of th	e time				
			Frequently	1030 01 01	ic time				
			Sometimes						
			Occasionally	y					
			Rarely Never						
			Don't know						
Perception	Salt/abrasive	Q31	In general, how would you rate the impact (if any) on each of the following from using salt for winter storm events? That is, for each item, please indicate if you feel that applying salt for winter storm events has a very positive, somewhat positive, somewhat negative, very negative, or little or no impact on that item. [RANDOMIZE]					each corm	
				Very	Some-	No or	Some-	Very	Don't
				positive	what positive	little impact	what negative	negative	know/ not sure
			Tap/Drinking						
			water Local						
			waterways						
			Emergency						
			vehicle safety						
			Motorist						
			safety Pedestrian						
			safety						
			Economic and						
			civic activity						

F_	I		
Sources	TV service	Q32	What TV service provider do you use?
	provider		[RANDOMIZE FIRST FOUR OPTIONS]
			Verizon
			Comcast
			Сох
			Xfinity
			Do not have cable TV
			Do not watch TV
			Other:
			I don't know
			1 don't know
Sources	TV channels	Q33	White of the following channels, if any, do you watch? [RANDOMIZE ALL
]	- V Gridiniteis	٩٥٥	BUT LAST]
			HLN TV
			Oxygen
			Toon
			ENT
			Animal Planet
			CNN
			ESPN
			History
			National Geographic
			Lifetime
			CW
			Home and Garden
			None of the above
Knowledge	Clean up	Q34	Thinking about the last 12 months, have you heard about any
	activity		opportunities to participate in a water quality activity, such as a stream
	awareness in		clean up, helping to install storm drain labels, etc.?
	past 12		,
	months		Yes
	months		No
			Not sure
Dobovica	Classic	025	[IF COAL VEC]
Behavior	Cleanup	Q35	[IF Q34 = YES]
	activity		Thinking about the last 12 months, have you <i>participated in</i> a water
	participation		quality activity, such as a stream clean up, helping to install storm drain
	in the past 12		labels, etc.?
	months		
			Yes
			No

Instruction			Please watch the video b about it. [VIDEO ORDER RANDOM Solutions""]			·		
Awareness	Ad familiarity	Q36	Before this survey, had yo or Twitter? Yes No Not sure Video did not play	ou seen tl	nis ad, or	a similar o	ne on TV	, Facebook,
Perception	Ad perceptions	Q37	[IF Q36 NOT = 'Video did Thinking of the ad video video video with the following disagree with the following disag	you just s	aw, indica		er you ag	ree or
				Stro ngly Disa gree	Disa gree	Neit her disag ree or agre e	Agr ee	Stro ngly Agr ee
			I understand the information in the ad. The ad is relevant to					
			me. I trust the information in the ad.					
			The ad's message is important. The ad is persuasive.					
			I think the ad would be effective.					
Instruction			Please watch the video b about it. [VIDEO ORDER COUNTER "Pollution Solutions"]			•		

		Yes No Not sure Video did not play					
Ad perceptions	Q39	Thinking of the ad video y	ou just sa			r you ag	ee or
			Stro ngly Disa gree	Disa gree	Neit her disag ree or agre e	Agr ee	Stro ngly Agr ee
		I understand the information in the ad.					
		The ad is relevant to me.					
		I trust the information in the ad.					
		The ad's message is important.					
		The ad is persuasive.					
		I think the ad would be effective.					
		'	Thinking of the ad video y disagree with the following of the ad video y disagree with the following of the ad video y disagree with the following of the ad. I understand the information in the ad. The ad is relevant to me. I trust the information in the ad. The ad's message is important. The ad is persuasive. I think the ad would	Thinking of the ad video you just sa disagree with the following statem Stro ngly Disa gree I understand the information in the ad. The ad is relevant to me. I trust the information in the ad. The ad's message is important. The ad is persuasive. I think the ad would	Thinking of the ad video you just saw, indicated disagree with the following statements about	Thinking of the ad video you just saw, indicate whether disagree with the following statements about it. Stro	Thinking of the ad video you just saw, indicate whether you agridisagree with the following statements about it. Stro

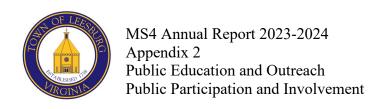
Behavior	Ad impact	Q40	[IF Q38 = YES OR Q36 = YES]			
			Thinking back to when you first saw the	e ad(s), pl	ease indi	cate if the
			following statements are true for you n			
			that apply.)			(00.000
			,			
						DOES NOT
				YES	NO	APPLY
			I understand more about the			
			impact of pet waste on water			
			quality.			
			l'd like to pick up pet waste more			
			often, though I haven't made any			
			changes yet.			
			I now pick up pet waste more			
			often.			
			I was already doing what is			
			recommended to reduce water			
			pollution from pet waste			
			poliution from per waste			
			IDA OF BREAK WEER OUTSTICK	DECDO	ICE 15=	
			[PAGE BREAK. KEEP QUESTION AND	RESPON	ISE LABE	
						DOES
						NOT
				YES	NO	APPLY
			I understand more about the impact			
			of fertilizer on water quality.			
			I'd <i>like to</i> fertilize fewer times			
			during the year.			
			I now plan to fertilize fewer times			
			during the year.			
			I was already doing what is			
			recommended to reduce water			
			pollution from fertilizer.			
				1		
			[PAGE BREAK. KEEP QUESTION AND	RESPON	ISF I ARF	IS ON
			SCREEN.]	INESI OIN	ISE EADE	25 011
			JCKLIN.]	1		DOEC
						DOES
				\ \v=c		NOT
				YES	NO	APPLY
			I understand more about the impact			
			of motor oil on water quality.			
			I'd like to dispose of motor oil			
			properly, though I haven't made any			
			changes yet.			
			I now properly dispose of motor oil.			
			I was already doing what is			
			recommended to reduce water			
			pollution.			

Awareness	Received info about water pollution	Q41	Have you seen or received information about reducing water pollution from any source in the past 12 months? Yes No Not sure
Awareness	Rain logo familiarity	Q42	Have you seen the logo below before? [MEDIA: SHOW SURVEYIMAGE_LOGO] Yes No Cannot see image

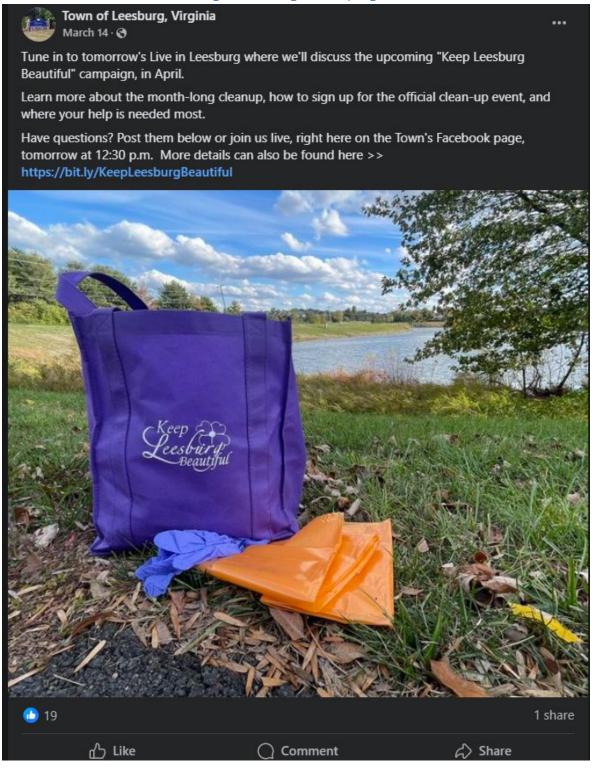
Perception s	Sponsor awareness and perceptions	Q43	[DISPLAY TEXT ON SEPAR The Northern Virginia Cle governments, drinking we that share the common g and safe by reducing the reaches local creeks and i reduce pollution. [PAGE BREAK.]	an Water ater and s oals to ke amount o	Partners sanitation eep North	authoritie ern Virgini n from sto	es, and bu a residen rmwater	nts healthy runoff that
			Indicate whether you agr about the Northern Virgin		-		_	ements
				Stro ngly Disa gree	Disa gree	Neit her disag ree or agre e	Agr ee	Stro ngly Agr ee
			I was familiar with the NVCWP before this survey. I trust information from the NVCWP.					
			I would contact the NVCWP if I had a question or concern about water quality. The NVCWP shares my values when it comes to water quality.					
					1	1	1	<u>, </u>

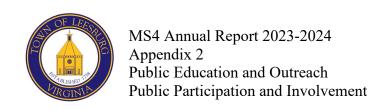
[FINAL PAGE]

Thank you for completing the survey! The survey was sponsored by the Northern Virginia Clean Water Partners. To learn about the Northern Virginia Clean Water Partners, visit onlyrain.org.

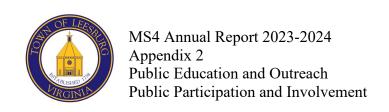


Media Materials: Illicit Discharges and Illegal Dumping











Tune in to tomorrow's "Live in Leesburg" where we'll discuss part two of the Town's Keep Leesburg Beautiful campaign...storm sewer inlet inventory!

The Town provides adult safety vests, maps, checklists, and storm drain decals with adhesive discs (pictured). Volunteers can replace missing or damaged decals while noting any inlets that are blocked or in need of repair.

Learn more when we go live this Friday at 12:30 p.m. Can't tune in but have questions? Post them below and we'll be sure to address them.



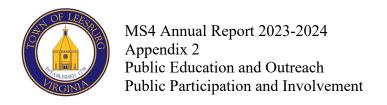


2 shares

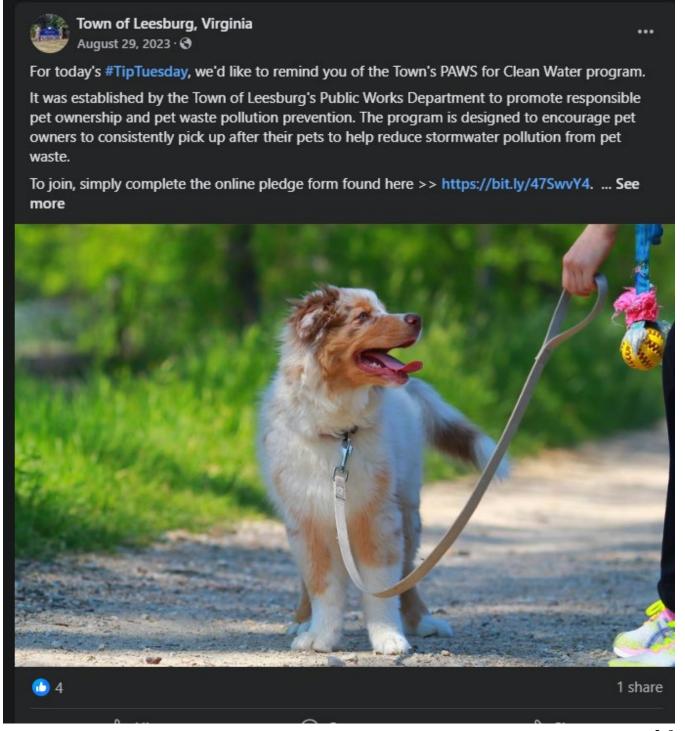


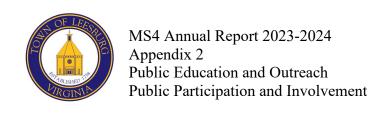




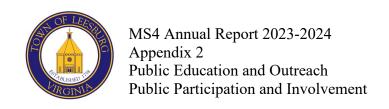


Media Materials: Bacteria











Town of Leesburg, Virginia March 14 · 😚

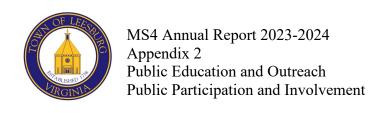
Tune in to tomorrow's Live in Leesburg where we'll discuss the upcoming "Keep Leesburg

Beautiful" campaign, in April.

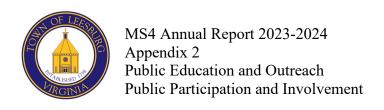
Learn more about the month-long cleanup, how to sign up for the official clean-up event, and where your help is needed most.

Have questions? Post them below or join us live, right here on the Town's Facebook page, tomorrow at 12:30 p.m. More details can also be found here >> https://bit.ly/KeepLeesburgBeautiful



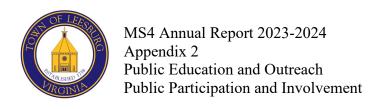


Appendix 2-B Public Involvement Activities and Outcomes



MCM 2 Program Matrix

Public Involvement Opportunity	Activity Description	Lead Department/Division	Number of Events/Locations	Number of Volunteers/Contacts	Notes
Restoration	Keep Leesburg Beautiful Clean Up Days	Department of Public Works & Capital Projects	Event days in April and June 2024	131	Increased from 126 in FY 22-23.
Educational Events	Town Flower and Garden Festival	Department of Public Works & Capital Projects	2 event days: 4/15-16/2023	8 staff volunteers	100 SWM Ed handouts given, 30 pet waste bag dispensers given.
	Only Rain Survey	Clean Water Partners-NVRC	*	*	See report in Appendix 2.
Disposal or Collection Events	Shred Event	Department of Public Works & Capital Projects	2 events	Approx. 500 cars participated	Report shows 14,220 lbs of materilas shredded.
Pollution Prevention	Public Pollution Reporting	Department of Public Works & Capital Projects		34 total contacts	10 of 34 led to work orders. All 10 work orders were completed.
	Storm Drain Marking	Department of Public Works & Capital Projects	No event days in 2024	NA	Town reviewing program as part of its PEOP update.



Shred Event



Contact Danielle Southerland

Name Town of Leesburg - Shred Event

Address 25 W. Market Street

Leesburg, VA 20176

Invoice 20646 5/31/2024

520 Evergreen Mill Road SE 520 Evergreen Mill Road SE Heritage High School Leesburg, VA 20175

 Date
 Ticket
 Description
 Quantity

 05/11/24
 21567
 14220 Weight
 14,220.00

15 Shred Event Hourly Rate 15.00

Rover Records Management hereby certifies that all materials received for confidential destruction throughout the preceeding schedule of services was confidentially handled, completely destroyed beyond recognition and recycled.

Invoice Number: 20646
Invoice Date: 5/31/2024

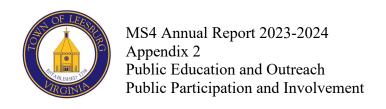
Rover Records Management



Rover Records Management 101 East Main St · Berryville, VA 22611

Phone: 703-348-6207 Fax: 571-402-4100

www.GoRover.com



Keep Leesburg Beautiful Events



Keep Leesburg Beautiful Volunteer Registration

Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Please provide the following information about you, your team, and your proposed Keep Leesburg Beautiful activity. We will have the materials needed (cleanup or storm drain marking/inventory) 3 business days prior to your scheduled activity. Materials can be picked up at Town Hall from 8:30-5:00 Monday through Friday. Once materials are ready for pickup we will send you an email to confirm.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name *
Aarav Reddy	Reddy
- · · · · · ·	Photo Months de
E-mail * aaravcg@gmail.com	Phone Number * 7039734881
Confirmation Emails will be sent to this Address	7037734001
Would you like to receive ongoing electronic communications about	t the Town's sustainability programs?*
Yes	
○ No	
Mailing Address*	
Street Address	
17674 Tobermory Pl	
Address Line 2	
City	State
Leesburg	VA
Zip Code	
20147	
Participant Information	
Number of Total Participants * 3	Number of Youth Sizes Needed *
Used for supplying Vests/Gloves	1 Used for the supplied Vests/Gloves
osed for supplying vests/dioves	osca for the supplied vests/ dioves
Planned Date of Activity*	Type of Activity*
07/13/2024	Litter/Trash Collection
Location 1*	
W&OD Trail (other than Plaza St)	
Location 2*	
Plaza Street (W&OD Trail Area)	

Location 3*

Crosstrail Blvd (Village at Leesburg)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location *

W&OD Trail (other than Plaza St)

Supply Pickup Date *

Supply Pickup Location *

07/12/2024

Town Hall (25 W Market St)



Keep Leesburg Beautiful Volunteer Registration

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Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Alvaro A Mejia	Any
E-mail*	Phone Number*
<u>aa8320758@gmail.com</u>	5714401393
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic communications about	t the Town's sustainability programs?*
Yes	. the form o decianability programs.
No	
Mailing Address*	
Street Address 61 Hancock PI NE	
Address Line 2	
City	State
Leesburg	VA
Zip Code	
20176	
Participant Information	
Number of Total Participants *	Number of Youth Sizes Needed *
1	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity *	Type of Activity*
06/28/2024	Litter/Trash Collection
Location 1*	
Route 15 Bypass (From Kohl's to Potomac Crossing)	
Location 2*	
Battlefield Pkwy & Woods Edge Rd (Edwards Landing Area)	
, , , , , , , , , , , , , , , , , , , ,	

Location 3*

Crosstrail Blvd (Village at Leesburg)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description
	Trash

Staff Review

Staff Approved Activity?*

Yes

Approved Location *

Route 15 Bypass (From Kohl's to Potomac Crossing)

Supply Pickup Date *

Supply Pickup Location *

06/28/2024

Town Hall (25 W Market St)



Keep Leesburg Beautiful Volunteer Registration

Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Please provide the following information about you, your team, and your proposed Keep Leesburg Beautiful activity. We will have the materials needed (cleanup or storm drain marking/inventory) 3 business days prior to your scheduled activity. Materials can be picked up at Town Hall from 8:30-5:00 Monday through Friday. Once materials are ready for pickup we will send you an email to confirm.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Berlin Cunningham	Swimkids swim school
E-mail*	Phone Number*
Berlin.Clemens@swimkids.us	7039627946
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic commun	ications about the Town's sustainability programs?*
Yes	
○ No	
Mailing Address*	
Street Address	
681 Potomac Station Dr	
Address Line 2	
City	State
Leesburg	VA
Zip Code	
20176	
Participant Information	
Number of Total Participants*	Number of Youth Sizes Needed*
10	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
04/06/2024	Litter/Trash Collection
Location 1*	
Edwards Ferry Rd (Costco - Woods near store)	
Location 2*	
Potomac Station Community (Various Areas)	

Brandon Park (Park Property)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

Edwards Ferry Rd (Costco - Woods near store)

Supply Pickup Date*

Supply Pickup Location*

04/05/2024



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information Name of Applicant* DeAnna Burke Email* ghone Number* ghurke@dbllawyers.com Confirmation Emails will be sent to this Address Would you like to receive ongoing electronic communications about the Town's sustainability programs?* Yes No Mailing Address* Street Address 211 Church Street \$\$ Address Line 2 Suite 100 City City City City City City City City		
E-mail* dburks@dbilawyers.com Confirmation Emails will be sent to this Address Would you like to receive ongoing electronic communications about the Town's sustainability programs?* Yes No Mailing Address* Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* 10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Would you like to receive ongoing electronic communications about the Town's sustainability programs?* 7037271552 **Nome's sustainability programs?* **Own's sustainability sustainability sustainability sustainabilit	Contact Information	
E-mail* dburks@dbilawyers.com Confirmation Emails will be sent to this Address Would you like to receive ongoing electronic communications about the Town's sustainability programs?* Yes No Mailing Address* Street Address Street	Name of Applicant*	Company, Organization, or Team Name*
### Confirmation Emails will be sent to this Address Would you like to receive ongoing electronic communications about the Town's sustainability programs?* Pres No Mailing Address* Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* Number of Total Participants outplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Would you like to receive ongoing electronic communications about the Town's sustainability programs?* Num's sustainability programs?* Num's sustainability programs?* Num's sustainability programs?* Number of Sustainab		
### Confirmation Emails will be sent to this Address Would you like to receive ongoing electronic communications about the Town's sustainability programs?* Pres No Mailing Address* Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* Number of Total Participants outplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Would you like to receive ongoing electronic communications about the Town's sustainability programs?* Num's sustainability programs?* Num's sustainability programs?* Num's sustainability programs?* Number of Sustainab	F-mail*	Phone Number*
Would you like to receive ongoing electronic communications about the Town's sustainability programs? Yes No Mailing Address* Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* 10 0 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2*		
No Mailing Address Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* 10 0 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Mailing Address* State VA State VA VA Litter/Trash Collection Location 2* Location 2* Mailing Address* State VA Litter/Trash Collection Location 2* Location 2	Confirmation Emails will be sent to this Address	
No Mailing Address Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* 10 0 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Mailing Address* State VA State VA VA Litter/Trash Collection Location 2* Location 2* Mailing Address* State VA Litter/Trash Collection Location 2* Location 2	Would you like to receive ongoing electronic communications about	the Town's sustainability programs?*
Mailing Address* Street Address 211 Church Street SE Address Line 2 Suite 100 City Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* 10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Number of Total Partiz St. Location 2* Number of Total Partiz Ollection		7. 0
Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* Number of Youth Sizes Needed* 10 0 Used for supplying Vests/Gloves Planned Date of Activity* Type of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Attence Address State VA Mumber of Youth Sizes Needed * 0 Used for Supplying Vests/Gloves Litter/Trash Collection	No	
Street Address 211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* Number of Youth Sizes Needed* 10 Used for supplying Vests/Gloves Planned Date of Activity* Type of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Assistate VA State VA Number of Youth Sizes Needed* 0 Used for the supplied Vests/Gloves Litter/Trash Collection		
211 Church Street SE Address Line 2 Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* Number of Youth Sizes Needed* 10 0 Used for supplying Vests/Gloves Used for the supplied Vests/Gloves Planned Date of Activity* Type of Activity* 04/12/2024 Litter/Trash Collection Location 1* W&OD Trail (other than Plaza St) Location 2*		
Suite 100 City State Leesburg VA Zip Code 20175 Participant Information Number of Total Participants* Number of Youth Sizes Needed* 10 0 Used for supplying Vests/Gloves Used for the supplied Vests/Gloves Planned Date of Activity* Type of Activity* 04/12/2024 Litter/Trash Collection Location 1* W&OD Trail (other than Plaza St) Location 2*		
City Leesburg Zip Code 20175 Participant Information Number of Total Participants* 10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* State VA Number of Youth Sizes Needed* 10 Used for supplying Vests/Gloves Litter/Trash Collection	Address Line 2	
Liesburg Zip Code 20175 Participant Information Number of Total Participants* 10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* VA Number of Youth Sizes Needed* 10 10 10 11 12 13 14 15 15 16 16 17 17 18 18 18 18 18 18 18 18	Suite 100	
Zip Code 20175 Participant Information Number of Total Participants* 10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Litter/Trash Collection Location 1* W&OD Trail (other than Plaza St) Location 2*		
Participant Information Number of Total Participants* 10 0 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Number of Youth Sizes Needed* 0 Used for the supplied Vests/Gloves Litter/Trash Collection		VA
Participant Information Number of Total Participants* 10		
Number of Total Participants* 10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Number of Youth Sizes Needed* 0 Used for the supplied Vests/Gloves Type of Activity* Litter/Trash Collection		
Number of Total Participants* 10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Number of Youth Sizes Needed* 0 Used for the supplied Vests/Gloves Type of Activity* Litter/Trash Collection	Participant Information	
10 Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Used for the supplied Vests/Gloves Type of Activity* Litter/Trash Collection	rancipant information	
Used for supplying Vests/Gloves Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Used for the supplied Vests/Gloves Type of Activity* Litter/Trash Collection		
Planned Date of Activity* 04/12/2024 Location 1* W&OD Trail (other than Plaza St) Location 2* Type of Activity* Litter/Trash Collection		
D4/12/2024 Litter/Trash Collection Location 1* W&OD Trail (other than Plaza St) Location 2*	osed for supplying vests/dioves	osed for the supplied vests/gloves
Location 1* W&OD Trail (other than Plaza St) Location 2*	Planned Date of Activity*	Type of Activity*
W&OD Trail (other than Plaza St) Location 2*	04/12/2024	Litter/Trash Collection
Location 2*	Location 1*	
	W&OD Trail (other than Plaza St)	
	Location 2*	

Catoctin Circle (Area behind Giant or Police Safety Center)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description
Around the office in Leesburg	

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

Fort Evans Rd (Btwn Market St & Heritage Way)

Supply Pickup Date*

Supply Pickup Location*

04/11/2024



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Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
George Brant	n/a
E	
E-mail* georgebrant19@gmail.com	Phone Number* 7048587561
Confirmation Emails will be sent to this Address	7046367301
Would you like to receive ongoing electronic communications about	the Town's sustainability programs?*
Yes	
○ No	
Mailing Address *	
Street Address 279 High Rail Terrace SE	
Address Line 2	
Address Line 2	
City	State
Leesburg	VA
Zip Code 20175	
20173	
Participant Information	
Number of Total Participants*	Number of Youth Sizes Needed*
1	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity* 04/07/2024	Type of Activity* Litter/Trash Collection
04/07/2024	Litter/Trasti Collection
Location 1*	
W&OD Trail (other than Plaza St)	
Location 2*	
Town Branch (W&OD Trail - Dry Mill Rd)	

Market Station

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

Market Station

Supply Pickup Date*

Supply Pickup Location*

04/05/2024



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
George Hobbs	PVI Panthers (Sophomore Class '26)
E-mail*	Phone Number*
sarafhobbs@yahoo.com	6178728169
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic commu	nications about the Town's sustainability programs?*
Yes	
○ No	
Mailing Address*	
Street Address	
40290 Iron Liege Court	
Address Line 2	
City	State
Leesburg	VA
Zip Code	
20176	
Participant Information	
Number of Total Participants*	Number of Youth Sizes Needed*
3	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
04/13/2024	Litter/Trash Collection
Location 1*	
Balls Bluff Elementary Entrance (school entrance, perime	eter)
Location 2*	
Town Branch (W&OD Trail - Dry Mill Rd)	

Catoctin Circle (Area behind Giant or Police Safety Center)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

Balls Bluff Elementary Entrance (school entrance, perimeter)

Supply Pickup Date*

Supply Pickup Location*

04/12/2024



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We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Jack Barnes	Loudoun United FC
E-mail*	Phone Number*
jbarnes@loudoununitedfc.com	913-704-9702
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic communications about	the Town's sustainability programs?*
Yes	, and control of the
⊚ No	
Mailing Address*	
Street Address	
42095 Loudoun United Dr	
Address Line 2	
City	State
Leesburg	Virginia
Zip Code 20175	
20173	
Participant Information	
Number of Total Participants*	Number of Youth Sizes Needed*
10	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
04/09/2024	Litter/Trash Collection
Location 1* Crosstrail Plyd (Village at Loosburg)	
Crosstrail Blvd (Village at Leesburg)	
Location 2*	
Crosstrail Blvd (Village at Leesburg)	

Crosstrail Blvd (Village at Leesburg)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

Crosstrail Blvd (Village at Leesburg)

Supply Pickup Date*

Supply Pickup Location*

04/08/2024



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

unough Phuay. Once materials are ready for pickup we will	Seria you arreman to commin.
Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Jack Barnes	Loudoun United FC
E-mail*	Phone Number*
jbarnes@loudoununitedfc.com	913-704-9702
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic commu	unications about the Town's sustainability programs?*
Yes	
○ No	
Mailing Address*	
Street Address	
42095 Loudoun United Dr	
Address Line 2	
City	State
Leesburg	Virginia
Zip Code	
20175	
Participant Information	
Number of Total Participants*	Number of Youth Sizes Needed *
8	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
04/03/2024	Landscaping/Beautification
Location 1*	
Crosstrail Blvd (Village at Leesburg)	
Location 2*	
Crosstrail Blvd (Village at Leesburg)	

Crosstrail Blvd (Village at Leesburg)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

Crosstrail Blvd (Village at Leesburg)

Supply Pickup Date*

Supply Pickup Location*

04/02/2024



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Jamie Cupolo	Team Drymill
E-mail*	Phone Number*
jamiecupolo@gmail.com	7037281939
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic communications about	the Town's sustainability programs?*
Yes	como cacamana, programo.
○ No	
Mailing Address*	
Street Address 714 Anne St. SW	
Address Line 2	
City Leesburg	State VA
Zip Code	VA
20175	
Participant Information	
Number of Total Participants *	Number of Youth Sizes Needed *
4 Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	The state of the s
Planned Date of Activity*	Type of Activity *
04/14/2024	Litter/Trash Collection
Location 1*	
Virginia Village Shopping Center (Area behind Shops)	
Location 2* We OD Trail (other than Plaza St)	
W&OD Trail (other than Plaza St)	

Town Branch (W&OD Trail - Dry Mill Rd)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location *

Virginia Village Shopping Center (Area behind Shops)

Supply Pickup Date *

Supply Pickup Location *

04/12/2024



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Kat	Keep leesburg beautiful
E-mail*	Phone Number*
Escarlenb@icloud.com	5715289554
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic communicate	tions about the Town's sustainability programs?*
○ Yes	
No	
Mailing Address*	
Street Address	
108 Fort Evans Rd SE	
Address Line 2	
F	
City	State
Leesburg	VA
Zip Code	
20175	
Participant Information	
Number of Total Participants *	Number of Youth Sizes Needed*
1	2
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
07/19/2024	Litter/Trash Collection
Location 1*	
Fort Evans Rd (Btwn Market St & Heritage Way) (Fort Evans R	Rd (Btwn Market St & Heritage Way))
Location 2*	
Edwards Ferry Rd (Costco - Woods near store) (Edwards Ferr	ry Rd (Costco - Woods near store))

Battlefield Pkwy & Woods Edge Rd (Edwards Landing Area) (Battlefield Pkwy & Woods Edge Rd (Edwards Landing Area))

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

If Not Approved, why not?*

No (No)

Tote and supplies will not be ready for pickup by 7/19. Please choose another day if possible.

Approved Location *

Fort Evans Rd (Btwn Market St & Heritage Way) (Fort Evans Rd (Btwn Market St & Heritage Way))

Supply Pickup Date* Supply Pickup Location*
07/25/2024 Town Hall (25 W Market St)



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name *
Laura Galvin	LCDS
E-mail * laura.galvin@lcds.org	Phone Number* 7037773841
Confirmation Emails will be sent to this Address	7037773041
Would you like to receive ongoing electronic communications about	the Town's sustainability programs?*
Yes	
○ No	
Mailing Address *	
Street Address 20600 Red Cedar Drive	
Address Line 2	
	Charles
City Leesburg	State VA
Zip Code	
20175	
Doublein and Information	
Participant Information	
Number of Total Participants *	Number of Youth Sizes Needed *
27	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity *
04/22/2024	Litter/Trash Collection
Location 1*	
W&OD Trail (other than Plaza St)	
Location 2*	
Brandon Park (Park Property)	

Town Branch (W&OD Trail - Dry Mill Rd)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description
Trailside Park	Trash

Staff Review

Staff Approved Activity?*

Yes

Approved Location *

W&OD Trail (other than Plaza St)

Supply Pickup Date *

Supply Pickup Location *

04/19/2024

Town Hall (25 W Market St) 8:30 AM to 5:00 PM M-F



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Leigh Faugust	Pack 311
E-mail*	Phone Number*
<u>lafaugust@gmail.com</u>	6178382691
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic communications about	t the Town's sustainability programs?*
○ Yes	
No	
Mailing Address*	
Street Address	
201 COUNTRY CLUB DR SW	
Address Line 2	
City	State
Leesburg	VA
Zip Code	
20175	
Participant Information	
Number of Total Participants*	Number of Youth Sizes Needed*
6	6
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
04/06/2024	Litter/Trash Collection
Location 1+	
Location 1* W&OD Trail (other than Plaza St)	
יישטט זומוו (טוופו נוומוו רומבמ אנ)	
Location 2*	
Virginia Village Shopping Center (Area behind Shops)	

Plaza Street (W&OD Trail Area)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

W&OD Trail (other than Plaza St)

Supply Pickup Date*

Supply Pickup Location*

04/06/2024

Raflo Park



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Lindsay Austin	Austin Family
E-mail*	Phone Number*
Lindsaygaustin@gmail.com	4802768995
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic communications about	the Town's sustainability programs?*
© Yes	
○ No	
Mailing Address*	
Street Address	
203	
Address Line 2	
Stoneledge PI NE	
City	State
Leesburg	VA
Zip Code	
20176	
Participant Information	
Number of Total Participants*	Number of Youth Sizes Needed*
3	2
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
04/06/2024	Litter/Trash Collection
Location 1*	
Huntmaster Terrace to Exeter Pond (Exeter)	
Location 2*	
Battlefield Pkwy & Woods Edge Rd (Edwards Landing Area)	

Edwards Ferry Rd (Costco - Woods near store)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description
Raflo park	Keep leesburg beautiful event

Staff Review

Staff Approved Activity?*

Yes

Approved Location*

Huntmaster Terrace to Exeter Pond (Exeter)

Supply Pickup Date* Supply Pickup Location*

04/06/2024 Raflo Park



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Lisa Hamaker	Town of Leesburg Utilities
E-mail*	Phone Number*
Ihamaker@leesburgva.gov	703-737-7130
Confirmation Emails will be sent to this Address	
Would you like to receive ongoing electronic communications about	the Town's sustainability programs?*
○ Yes ◎ No	
● NO	
Mailing Address*	
Street Address	
1385 Russel Branch Parkway	
Address Line 2	
City	State
Leesburg	VA
Zip Code	
20176	
Participant Information	
Number of Total Participants *	Number of Youth Sizes Needed*
10	0
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity*
04/17/2024	Litter/Trash Collection
Location 1*	
W&OD Trail (other than Plaza St)	
Location 2*	
W&OD Trail (other than Plaza St)	

W&OD Trail (other than Plaza St)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

	Location	Description
WO&D Trail between & Hill in front of Util	n Tuscarora Creek Park and Old Mill Boarding Kennel ities	Trash/Litter Pick-up

Staff Review

Staff Approved Activity?*

Yes

Approved Location *

W&OD Trail (other than Plaza St)

Supply Pickup Date *

Supply Pickup Location *

04/16/2024



Use this form to Apply to participate in efforts relating to the Keep Leesburg Beautiful program.

We appreciate your efforts to make Leesburg a cleaner and more attractive community. If you have any questions, contact the Public Works Department at Trash@LeesburgVA.Gov or 703-737-7069.

Here is a <u>list</u> of locations you can choose from.

Contact Information	
Name of Applicant*	Company, Organization, or Team Name*
Matthew Van Mater	NJHS
E-mail*	Phone Number*
matt.vanmaterjr@gmail.com	(571) 567-9937
Confirmation Emails will be sent to this Address	
Mandal and the Annual or annual or all advantages and a second	Atha Tarrella containa hilling ann ann an Ch
Would you like to receive ongoing electronic communications about Yes	the Town's sustainability programs?
No	
● NO	
Mailing Address*	
Street Address	
202 Catoctin Cir SW	
Address Line 2	
City	State
Leesburg	VA
Zip Code	
20175	
Participant Information	
Number of Total Portion and *	Number of Youth Sizes Needed *
Number of Total Participants * 10	5
Used for supplying Vests/Gloves	Used for the supplied Vests/Gloves
Planned Date of Activity*	Type of Activity *
06/19/2024	Litter/Trash Collection
Location 1*	
Davis Avenue (Dead End Near Food Lion)	
Location 2*	
Balls Bluff Elementary Entrance (school entrance, perimeter)	

Town Branch (W&OD Trail - Dry Mill Rd)

Suggest a Locaiton

Don't see a Location on our list that needs some attention? Enter it below and we'll consider adding it to next years list!

Location	Description	

Staff Review

Staff Approved Activity?*

Yes

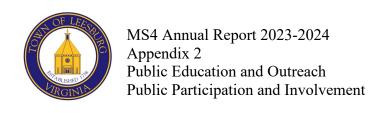
Approved Location *

Davis Avenue (Dead End Near Food Lion)

Supply Pickup Date *

Supply Pickup Location *

06/18/2024



Appendix 2-C Standard Operating Procedure Update

Public Education & Outreach Plan Public Participation Plan

Town of Leesburg

Stormwater Management / MS4 Permit Compliance





25 West Market Street Leesburg, VA 20176

February 15, 2024 Version 2024-1

Updated by:

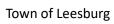


4229 Lafayette Center Drive, Suite 1850 Chantilly, Virginia 20151 703-870-7000 Task Number (2023-012 - T002)



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Public Education and Outreach Plan/Public Participation Opportunities Plan

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Appendice(s)

Appendix A – Town of Leesburg PEOP Documentation Form

Version 2024-1024-1 Page ii



Amendment Log

Date of Amendment: Insert Date Here

Individual(s) Completing Amendment: Insert Name(s) Here

Summary of Modifications:

Insert Summary Narrative here

Date of Amendment: Insert Date Here

Individual(s) Completing Amendment: Insert Name(s) Here

Summary of Modifications:

Insert Summary Narrative here

Date of Amendment: Insert Date Here

Individual(s) Completing Amendment: Insert Name(s) Here

Summary of Modifications:

Insert Summary Narrative here

Date of Amendment: Insert Date Here

Individual(s) Completing Amendment: Insert Name(s) Here

Summary of Modifications:

Insert Summary Narrative here

Additional copies of this page should be made and inserted as necessary to ensure all document revisions are recorded.



Signatory Authorizations

The Town's MS4 Program Plan contains authorization for the following positions to sign reports and other information requested by the State Water Control Board (SWCB) or the Department of Environmental Quality (DEQ):

- Insert positions here
- Insert positions here

Report Certification

As required by the MS4 General Permit, Part III. K. 4.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name:	Signatur	e:
Title:	Date:	



1.0 Background

The Town of Leesburg operates a Municipal Separate Storm Sewer System (MS4) that is regulated under the federal Clean Water Act and the Virginia State Water Control Law. The Virginia Department of Environmental Quality (DEQ) has issued the Town coverage under the Virginia Pollutant Discharge Elimination System (VPDES) General Permit for Discharges of Stormwater from Small MS4s (MS4 General Permit). Under the MS4 General Permit, the Town is required to develop and implement numerous Standard Operating Procedures (SOPs) for implementing its MS4 Program. These SOPs address specific compliance requirements in the MS4 General Permit's six (6) Minimum Control Measures (MCM):

- MCM 1 Public Education and Outreach
- MCM 2 Public Involvement and Participation
- MCM 3 Illicit Discharge Detection and Elimination
- MCM 4 Construction Site Stormwater Runoff and Erosion and Sediment Control
- MCM 5 Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands
- MCM 6 Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area

2.0 Operating Procedures Covered in this Document

This document serves a dual purpose as both the Town's Public Education and Outreach Plan (PEOP) under the requirements contained in the MS4 General Permit MCM 1 – Public Education and Outreach and the Town's Opportunities for Public Involvement Plan under MCM 2 – Public Involvement and Participation. The operational procedures in this SOP provide guidance and direction to Town employees, contractors, and other Town personnel regarding:

- Public Education and Outreach
 - The High-Priority Stormwater Issues Selected by the Town
 - The Importance of the High-Priority Stormwater Issues
 - Measures and Actions the Public Can Take to Minimize the Impact of High-Priority Stormwater Issues
 - Contact Information Where the Public Can Find Additional Information
 - The Strategies Selected by the Town for Delivery of Messages to the Target Audiences
 - The Anticipated Schedule for Message Delivery to the Public
- Opportunities for Public Involvement¹
 - The Activities Promoted by the Town for Public Involvement Aimed at Improving Water Quality and Supporting Local Restoration and Clean-Up Projects.

¹ Procedures for Receiving, Responding, and Documenting Public Reports and Comments are Found in the SOP for *Receiving, Responding, and Documenting Stormwater-Related Public Reports & Comments*



3.0 PEOP

3.1 MS4 General Permit Requirements

The [Town] shall implement a public education and outreach program designed to:

- (1) Increase the public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;
- (2) Increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and
- (3) Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.

The [Town] shall identify no fewer than three high-priority stormwater issues to meet the goal of educating the public in accordance with Part I E 1 a [of the MS4 General Permit]. High-priority issues may include the following examples: Chesapeake Bay nutrients, pet wastes, local receiving water impairments, TMDLs, high-quality receiving waters, litter control, BMP maintenance, anti-icing, and deicing agent application, planned green infrastructure redevelopment, planned ecosystem restoration projects, and illicit discharges from commercial sites.

The high-priority public education and outreach program, as a whole, shall:

- (1) Clearly identify the high-priority stormwater issues;
- (2) Explain the importance of the high-priority stormwater issues;
- (3) Include measures or actions the public can take to minimize the impact of the high-priority stormwater issues; and
- (4) Provide a contact and telephone number, website, or location where the public can find out more information.

The [Town] shall use two or more of the strategies listed in Table 1 per year to communicate to the target audience the high-priority stormwater issues identified in accordance with Part I E 1 b [of the MS4 General Permit], including how to reduce stormwater pollution.

Table 1. Strategies for Public Education and Outreach

Strategies	Examples	
	(Provided as Examples and Are Not Meant to be All Inclusive or Limiting)	
Traditional	Informational brochures, newsletters, fact sheets, utility bill inserts, or recreational	
written materials	guides for targeted groups of citizens	
Alternative materials	Bumper stickers, refrigerator magnets, t-shirts, or drink koozies	
Signage	Temporary or permanent signage in public places or facilities, vehicle signage, billboards, or storm drain stenciling	
Media materials	Information disseminated through electronic media, radio, televisions, movie theater, newspaper, or GIS story maps	



Public Education and Outreach Plan/Public Participation Opportunities Plan

Strategies	Examples
	(Provided as Examples and Are Not Meant to be All Inclusive or Limiting)
Speaking engagements	Presentations to school, church, industry, trade, special interest, or community groups
Curriculum materials	Materials developed for school-aged children, students at local colleges or universities, or extension classes offered to local citizens
Training materials	Materials developed to disseminate during workshops offered to local citizens, trade organization, or industrial officials
Public education activities	Booth at community fair, demonstration of stormwater control projects, presentation of stormwater materials to schools to meet applicable education Standards of Learning or curriculum requirements, or watershed walks
Public meetings	Public meetings on proposed community stormwater management retrofits, green infrastructure redevelopment, ecosystem restoration projects, TMDL development, climate change's effects on stormwater management, voluntary residential low impact development, or other stormwater issues

The [Town] may coordinate its public education and outreach efforts with other MS4 permittees; however, each permittee shall be individually responsible for meeting all of its state permit requirements.

The MS4 program plan shall include:

- (1) A list of the high-priority stormwater issues the permittee will communicate to the public as part of the public education and outreach program;
- (2) The rationale for selection of each high-priority stormwater issue and an explanation of how each education or outreach strategy is intended to have a positive impact on stormwater discharges;
- (3) Identification of the target audience to receive each high-priority stormwater message;
- (4) Nontraditional permittees may identify staff, students, members of the general public, and other users of facilities operated by the permittee as the target audience for education and outreach strategies;
- (5) Traditional permittees may identify staff and students as part of the target audience for education and outreach strategies; however, staff shall not be the majority of the target audience;
- (6) Staff training required in accordance with Part I E 6 d [of the MS4 General Permit] does not qualify as a strategy for public education and outreach;
- (7) The strategies from Table 1 of Part I E 1 d [of the MS4 General Permit] to be used to communicate each high-priority stormwater message; and
- (8) The anticipated time periods the messages will be communicated or made available to the public.

3.2 Town of Leesburg High-Priority Stormwater Issues

The Town has identified three high-priority stormwater issues. Table 2 lists these high-priority stormwater issues and includes the selection rationale and the target audiences for each.



Table 2. Town of Leesburg High Priority Stormwater Issues

Issue	Selection Rationale	Target Audience
Bacteria	Pet waste can contain harmful bacteria that can run off into streams when not properly disposed of. These harmful bacteria are detrimental to both human health and the health of the stream ecosystem. With pet owners responsible for thousands of dogs throughout the Town, the potential for pet waste pollution is significant. Three water bodies to which Town stormwater discharges - Sycolin Creek, Tuscarora Creek, and Goose Creek – have been identified in the 2022 Water Quality Report as having bacteria impairments. Public education can play a meaningful role in reducing bacteria pollution by educating owners about the human health and legal consequences of not picking up pet waste.	Pet Owners
Illicit Discharges and Illegal Dumping	Illicit discharges and illegal dumping can seriously impact local water quality resources. In addition to stormwater pollution, illegal dumping can also cause blockages in the system and lead to flooding. Field observations and resident complaints have identified illicit discharges of cooking oils at restaurants as well as other illicit discharges in residential communities. These discharges can be mitigated through education about the proper disposal methods of these contaminants and the legal consequences of noncompliance.	General Population/ Restaurants
Excessive Nutrients	Excessive nutrients entering waterways can cause harmful algal blooms, anoxic conditions, and death of aquatic organisms, including fish. The Town's stormwater discharges ultimately reach the Chesapeake Bay, which has nutrient (phosphorus and nitrogen) limitations based on EPA's Total Maximum Daily Load (TMDL) study for nutrients. Most residences in Leesburg are single-family houses or townhomes where the property owner or a landscape company may manage the lawn. Public education targeted at homeowners and landscaping companies can affect behavior in a way that will reduce the amount of nutrients entering local waterways and, eventually, the Chesapeake Bay from landscaping activities. Nutrient reductions will also be promoted through the Town's efforts to have pet owners clean up after their pets.	Single family/ townhome residents, HOAs, Landscaping companies, Pet owners

3.3 Message Delivery Mechanisms

The Town has numerous mechanisms in place to communicate with the public, including its residents, business owners, and target audiences. These methods are available to assist in delivering public education and outreach regarding each of the Town's high-priority stormwater. The Town's communication mechanisms include:

- Traditional written materials
- Alternate materials
- Signage
- Media materials
- Public education activities

These available mechanisms and their direct applicability to delivering the Town's PEOP are further explained in the following sections.



3.3.1 Traditional Written Materials

The Town has two methodologies for delivering messages to its citizenry, including the Town Newsletter and Direct Mailings.

Direct Mailings

The Town has the ability to send direct mailings to residents, business owners, and property owners in the Town. In addition to having access to property records and business licenses, the Department of Public Works (DPW) maintains a Community Outreach Master List comprised of contacts for the following communities:

- Homeowner Associations
- Condominium Associations
- Apartment Complexes
- Shopping Centers
- Assisted Living Facilities.

DPW can develop individualized lists based on location, type of business, organization, or other means to provide stormwater public education and outreach specific to the targeted audience.

3.3.2 Alternative Materials

Pet Waste Bag Dispensers

DPW currently has two versions of Pet Waste Bag Dispenser – Blue Dog Bone and Red Fire Hydrant - that the department gives away at public education and outreach events as a means of reinforcing the importance of pet owners cleaning up after their pet. The Pet Waste Bag Dispensers are also provided to pet owners who sign the Paws for Clean Water Pledge as part of the Town's stormwater public participation programming.

3.3.3 Signage

Pet Waste Signs

The Town has installed Pet Waste Signs at nine (9) Town parks, encouraging pet owners to dispose of pet waste properly. At eight of the nine Town parks, these signs are included at Town-installed Pet Waste Disposal Stations. Pet waste signs have been installed at the following locations:

- Brandon Park, 878 Harrison St. SE (39.105497, -77.561264)
- Carrvale Park, 919 Marshall St. NE (39.117759, -77.543649)
- Georgetown Park, 221 S. King St. (39.112845, -77.567471) Sign only
- Greenway Park, 102 Shadetree Way SW (39.092171, -77.588194)
- Leesburg Dog Park (Olde Izaak Walton Park), 850 Davis Ave. SE (39.101859, -77.567672)
- Raflo Park, 345 Harrison St. SE (39.108888, -77.563050)
- Rotary Park, 22 North St. NE (39.117304, -77.562044)
- Town Green, 25 W. Market St. (39.114514, -77.565691)
- Tuscarora Park, 425 Solitude Ct SE (39.094467, -77.542526)



The Parks and Recreation Department (PRD) is responsible for the maintenance and upkeep of the signs and pet waste stations. DPW is responsible for maintaining a GIS layer of all pet waste signs and station locations within Town parks.

3.3.4 Media Materials

Social Media

The Town, through its Public Information Office (PIO), maintains an active presence on various social media platforms, including:

- Facebook (https://www.facebook.com/LeesburgVirginia/?ref=embed_page)
- Instagram (https://www.instagram.com/p/C07Xb0oRza /)
- Nextdoor (https://nextdoor.com/agency-detail/va/leesburg/town-of-leesburg/)
- X (formerly Twitter) (https://twitter.com/i/flow/login?redirect-after-login=%2FTownofLeesburg)
- YouTube (https://www.youtube.com/@TownofLeesburgVirginia)

These social media platforms provide the Town with the ability to message the target audiences regarding high-priority stormwater issues. Social media accounts can be used to advertise stormwater public education and outreach events and public participation opportunities, such as upcoming speaking events or upcoming Town clean-ups. The PIO is responsible for posting materials while individual departments are responsible for providing the content.

Town Website

The Town maintains a website that contains information about Leesburg, including its stormwater management program. The key webpage regarding stormwater management is the DPW's Water Quality and Stormwater Management webpage found at https://www.leesburgva.gov/departments/public-works/water-quality-stormwater-management. This webpage includes information regarding the MS4 program, including the MS4 Permit, Program Plan, and Annual Reports, as well as providing additional links to other stormwater-related Town webpages. The PIO is responsible for uploading content on the website while DPW is responsible for ensuring the content is kept current and for responding to input received via the webpage.

Regional Outreach Participation

The Town is a partner in the Northern Virginia Clean Water Partners (NVCWP). The NVCWP 'Only Rain Down the Drain' regional stormwater education initiative is managed by Northern Virginia Regional Commission (NVRC). The campaign uses cable television and website advertisements, publications, and a website, onlyrain.org, to encourage the public to keep pollutants such as excess fertilizer and used motor oil from flowing into storm drains. The Only Rain Down the Drain Campaign relies primarily on media materials for message distribution – TV, radio, social media, and web pages. The DPW is responsible for maintaining the Town's inclusion in the partnership while the NVRC is responsible for the administration and implementation of the Clean Water Partners commitments.



3.3.5 Public Education Activities

Flower & Garden Festival

The Town holds its Flower and Garden Festival annually on the third week of April. The festival draws crowds from in and around Leesburg and hosts vendors associated with landscaping and gardening businesses.

DPW staffs a stormwater educational booth at the Flower & Garden Festival, which is held each spring. During the festival, stormwater educational materials, including information about stormwater pollution prevention, are handed out to attendees.

3.4 Message Library

DPW maintains a large library of historic stormwater issue messages developed throughout the history of the Town's PEOP. The messages that are available, and their format, as of January 1, 2024 are provided in (Table 3). DPW maintains the messages in an electronic format that is usable as is or can be modified to be more event specific depending upon the target audience. The message library will continue to expand as additional messages are created in the future.

Table 3. Town of Leesburg Stormwater Message Library Contents as of January 1, 2024

		High P	riority Stormwater I	ssue(s)
Message Name	Format	Bacteria	Illicit Discharges & Illegal Dumping	Excessive Nutrients
Pet Waste Bag Dispensers	Alternative		✓	
Automotive Services and Preventing Stormwater Pollution	Brochure			✓
Landscaping Responsibility – Preventing Stormwater Pollution	Brochure		✓	
Stormwater Pollution Prevention: Dumpsters and Loading Docks	Brochure		✓	√
Best Management Practices for Fat, Oil, and Grease (FOG)	Brochure		✓	
Stormwater Pollution Prevention Vehicle & Fueling Operations	Brochure		✓	
Painting Without Pollution	Brochure		✓	✓
Good Neighbors Preventing Stormwater Pollution: Good Cleaning Practices for Food & Restaurant Industries	Brochure		✓	
Snow and Ice Maintenance Tips for Residents	Brochure		✓	
Stormwater Pollution Prevention Focus: Business and Industry Illicit Discharge	Brochure		✓	
Spotting Illicit Discharge Activities	Brochure			✓
Fertilizer Isn't Good Fish Food	Digital	✓		✓
Psst! Did You Know It's Important to Scoop The Poop	Digital		✓	
I Don't Swim in Your Living Room	Digital		✓	
I Don't Throw Trash in Your Family Room	Digital	✓		✓
All the Cool People Pick Up After Their Pets	Digital			√
Living Green: A Citizen's Guide to Springtime Stormwater Pollution Prevention	Mailer	✓	✓	✓



		High P	riority Stormwater I	ssue(s)
Message Name	Format	Bacteria	Illicit Discharges & Illegal Dumping	Excessive Nutrients
Town of Leesburg MS4 Permit Requirements	PowerPoint			✓
and Activities	Presentation			
Town of Leesburg News Stormwater Pollution by Lawn Care	Press Release	✓		✓
Pet Waste Signs	Signs	✓	✓	✓
Water Quality & Stormwater Management	Webpage	✓	✓	✓
Additional Stormwater Information &	Webpage			√
Resources	Webpage			,
Fertilizing Safely and Responsibly	Webpage	✓		
PAWS for Clean Water	Webpage		✓	
Illicit Discharge Information & Reporting	Webpage	√	✓	✓
How You Can Help the Environment	Webpage			

The current list of available messages can be obtained from DPW.

3.5 PEOP Strategies to be Implemented

PEOP strategies are comprised of three parts as listed below:

- Message
- Delivery Method
- Schedule

Figure 1. Town of Leesburg PEOP Strategies Consist of Message, Delivery Method, and Schedule

To be effective, the PEOP strategies must be flexible and opportunistic in addressing the high-priority stormwater issue current to the situation or activity. Individual delivery methods and messages should be modified as necessary to provide the most effective outreach opportunity for the high priority stormwater issue. The Town will implement the following eight (8) strategies to meet the minimum public education and outreach requirements necessary to comply with the MS4 General Permit. The permit requires the permittee to annually utilize two (2) or more of the MS4 General Permit Strategies for each of the three (3) high priority stormwater issues. Individual messages can be selected or modified from those in the Message Library or created specifically for the individual event. New messages should be saved in the electronic version of the Message Library for future utilization. Individual events completed for Strategies 6, 7, and 9 should be documented using the Town of Leesburg MS4 PEOP Documentation Form (Appendix A).



3.5.1 Strategy 1. Distribute Public Education Materials Through the Town's Water Quality and Stormwater Webpage

Strategy: Distribute Public	Education M	ater	ials Throu	ıgh t	he T	own's W	/ater	· Qu	ality an	d Sto	ormwate	er							
Webpage								•	•										
High-Priority Stormwater Issue(s)	Bacteria		✓	Illic	it Dis	scharge	•	1	Excessi Nutrier		✓								
Implementation Year	FY24	✓	FY25		✓	FY26	✓	FY	27	✓	FY28	✓							
Implementation Quarter	Spring	✓	Summer		✓	Fall	✓	Wi	inter	✓									
Delivery Method	Media mater	ials																	
Responsible Party	DPW																		
Description	DPW will pro high-priority Access to me to other web individual do functional.	stori ssag pag	mwater issues not proves, includin	ues a vided ig the	nd h on t NVI	ow the p he webp RC Only F	ublic age it tain [can tself Dowl	address can be p	their provicain we	impacts. led via lir ebpage, o	nks or							
Recommended Library	Messages ma	ay ind	clude those	liste	ed in	Table 3 o	r any	oth	er appro	priat	e messag	ge							
Messages	provided all three high-priority stormwater issues are addressed.																		
Compliance	DPW will include a link to the Water Quality and Stormwater webpage in the																		
Documentation	MS4 annual	repo	rt.								MS4 annual report.								

3.5.2 Strategy 2. Provide Pet Waste Signs at the Town Parks

Strategy: Pet Waste Signs	at the Town F	arks	5									
High-Priority Stormwater Issue(s)	Bacteria		✓	Illic	it Dis	scharge			Excessi Nutrier	-	✓	
Implementation Year	FY24	✓	FY25		✓	FY26	✓	FY2	27	✓	FY28	✓
Implementation Quarter	Spring	✓	Summer		✓	Fall	✓	Wi	nter	✓		
Delivery Method	Signage											
Responsible Party	DPR/DPW											
Description	DPR will main the locations			_		•		PW v	will main	tain a	a GIS laye	r of
Recommended Library Messages	Pet Waste Sig	gns										
Compliance Documentation	DPW will incl the MS4 Ann			map	ident	ifying the	e loca	ation	of the P	et W	aste Sign	s in



3.5.3 Strategy 3. Use the Town's Social Media Platforms to Deliver Messages Regarding Pet Waste Cleanup

Strategy: Use the Town's S	ocial Media I	Platf	orms to D	elive	er M	essages	Reg	ardi	ng Pet	Wast	e Cleanı	η
High-Priority Stormwater Issue(s)	Bacteria		√	Illic	it Dis	scharge		Excessive Nutrients				
Implementation Year	FY24	✓	FY25		>	FY26	✓	FY:	27	✓	FY28	✓
Implementation Quarter	Spring	pring Summer 🗸 Fall Winter										
Delivery Method	Media mater	ials										
Responsible Party	DPW/PIO											
Description	DPW will pro cleaning up a the Town's so	after	pets. The P	IO w	ill pu	-	_			•		
Recommended Library Messages	Digital Messa "All the Cool	_				•	orta	nt to	Scoop	The P	oop" and	
Compliance Documentation	DPW will incl MS4 Annual			ne pu	ublisł	ned mess	age a	nd t	the date	publi	shed in t	he

3.5.4 Strategy 4. Use the Town's Social Media Platforms to Deliver Messages Regarding Illicit Discharges and Illegal Dumping

Strategy: Use the Town's Social Media Platforms to Deliver Messages Regarding Illicit Discharges												
and Illegal Dumping												
High-Priority Stormwater	Bacteria			Illic	it Die	scharge	V	/	Excessi	ive		
Issue(s)	Dacteria	Nutrients										
Implementation Year	FY24	724										
Implementation Quarter	Spring	pring Summer Fall 🗸 Winter										
Delivery Method	Media mater	ials										
Responsible Party	DPW/PIO											
Description	DPW will pro dumping. Th social media	e PIC	will publis		_	_	_		_		-	's
Recommended Library	Digital Messa	ages	– "I Don't S	wim	in Yo	ur Living	Roo	m" a	ınd "I Do	n't Tl	nrow Tras	sh
Messages	in Your Famil	y Ro	om"									
Compliance	DPW will include a copy of the published message and the date published in the											
Documentation	MS4 Annual	Repo	ort.									



3.5.5 Strategy 5. Use the Town's Social Media Platforms to Deliver Messages Regarding Fertilizer Application

Strategy: Use the Town's Social Media Platforms to Deliver Messages Regarding Fertilizer												
Application												
High-Priority Stormwater Issue(s)	Bacteria			Illic	it Dis	scharge			Excess Nutrie		✓	
Implementation Year	FY24	✓	FY25		✓	FY26	✓	FY	27	✓	FY28	✓
Implementation Quarter	Spring	✓	Summer			Fall		Wi	inter			
Delivery Method	Media mater	ials										
Responsible Party	DPW/PIO	DPW/PIO										
Description	DPW will pro fertilizer app the Town's so	licati	on. The PIC) will	pub	_	_				•	of
Recommended Library Messages	Digital Messa	age –	- "Fertilizer	Isn't	Goo	d Fish Fo	od"					
Compliance	DPW will include a copy of the published message and the date published in the											
Documentation	MS4 Annual	Repo	ort.									

3.5.6 Strategy 6. Provide Stormwater Outreach at the DPW Booth During the Annual Flower & Garden Festival

Strategy: Provide Stormwa	ater Outreach	at t	the DPW E	Boot	h Du	iring the	Anr	nual	Flowe	r & G	arden	
High-Priority Stormwater Issue(s)	Bacteria		✓	Illic	it Dis	scharge	~	/	Excess Nutrie	_	✓	
Implementation Year	FY24	✓	FY25		✓	FY26	✓	FY:	27	✓	FY28	✓
Implementation Quarter	Spring	✓	Summer			Fall		Wi	inter			
Delivery Method	Public Educa	ublic Education Activities										
Responsible Party	DPW											
Discussion	DPW will star available to or residents and will utilize th pet waste ba	discu d bus is op	ss the high	-prio ers ca	rity s an do	tormwat to help i	er iss educ	ues e st	and wh ormwat	at the er pol	Town lution. D	
Recommended Library Messages	DPW will pro as appropria or any other three high-pr	te. Av appr	vailable tak opriate me	eawa essag	ay mo	essages n ovided ta	nay ir ke-av	nclud way	de those messag	e liste es for	d in Table	3
Documentation	DPW will cor event.	nplet	te a Town o	f Lee	esbur	g MS4 PE	OP D	ocu)	mentat	ion Fo	rm for th	iis



3.5.7 Strategy 7. Utilize Pet Waste Bag Dispensers to Reinforce the Importance of Pet Waste Cleanup

Strategy: Utilize Pet Waste	Bag Dispens	ers	to Reinfor	ce th	ne In	nportan	ce of	Pet	Waste	Clea	nup			
High-Priority Stormwater Issue(s)	Bacteria		√	Illic	it Dis	scharge		Excessive Vutrients						
Implementation Year	FY24	✓	FY25		✓	FY26	✓	FY28	✓					
Implementation Quarter	Spring ✓ Summer ✓ Fall ✓ Winter ✓													
Delivery Method	Alternative Materials													
Responsible Party	DPW													
Description	DPW will pro importance f will be distril activities.	or pe	et owners t	o cle	an u _l	p after th	eir p	ets.	Pet Was	te Ba	g Dispens			
Recommended Library Messages	Pet Waste Ba	ag Dis	spensers											
Compliance Documentation	For PEOP and Public Participation events other than the PAWs for Clean Water Pledge program, DPW will complete a Town of Leesburg MS4 PEOP Documentation Form where alternative materials are distributed.										r			

3.5.8 Strategy 8. Partner With Other Northern Virginia Localities and Government Entities in the Regional Clean Water Partners' Only Rain Down the Drain Campaign

Strategy: Partner With Other Northern Virginia Localities and Government Entities in the Regional												
Clean Water Partners' Only	y Rain Down	the	Drain Cam	npaig	gn							
High-Priority Stormwater Issue(s)	Bacteria		√	Illic	it Dis	scharge	•	/	Excess Nutrie	_	✓	
Implementation Year	FY24	✓	FY25		✓	FY26	✓	FY	27	✓	FY28	✓
Implementation Quarter	Spring	>	Summer		>	Fall	✓	Wi	inter	✓		
Delivery Method	Media mater	ials										
Responsible Party	DPW/NVRC											
Description	DPW is responsive NVRC. NVRC information in https://www.Clean-Water-webpage on	is res regar nova Part	sponsible for ding the Claregion.org ners. DPW	or im ean ' g/408 will p	plem Wate 3 <u>/</u> provi	nenting thers Progra	ne Cle im, se to th	ean ee e Or	Waters I	Progra	am. For	
Recommended Library Messages	NVRC is respo	onsik	ole for the o	devel	opm	ent of all	mes	sage	s delive	red as	s part of	the
Compliance Documentation	DPW will incl											_



4.0 Additional Strategies Implemented Outside of the Eight (8) Required Strategies

For PEOP activities implemented that are outside of the eight (8) required strategies, the Town must complete a Town of Leesburg MS4 PEOP Documentation Form (Appendix A) for documenting the Town effort and reporting with the MS4 Annual Report.

4.1 Potential PEOP Additions

The Town is actively looking at ways to improve its public education and outreach program and is considering additional strategies for development during this permit cycle. The PEOP will be updated to include new opportunities as they are incorporated into the Town's outreach actions. The potential public education and outreach strategies under consideration include:

4.1.1 Potential Strategy 1: Stormwater-Specific Newsletter

Potential Strategy: Stormy	water-Specific Nev	wsletter							
High-Priority Stormwater Issue(s)	Bacteria	✓	Illicit Discharge	✓	Excessive Nutrients	✓			
Implementation Year	TBD								
Implementation Quarter	TBD								
Delivery Method	Traditional writter	n materials							
Responsible Party	DPW								
Description	educational mess	ages on sto opportunity	stormwater-speci ormwater pollution o to advertise storn	prevent	on. This news	sletter will			
Recommended Library Messages	To be developed								
Compliance Documentation	DPW will include a copy of the newsletter and the date mailed in the MS4 annua report.								

4.1.2 Potential Strategy 2: School Curriculum

Potential Strategy: School	Curriculum					
High-Priority Stormwater Issue(s)	Bacteria	√	Illicit Discharge	√	Excessive Nutrients	✓
Implementation Year	TBD					
Implementation Quarter	TBD					
Delivery Method	Curriculum mater	ials				
Responsible Party	DPW					
Description	DPW will develop the Virginia Stand		er educational mat arning.	erials and	d presentatior	ns to meet
Recommended Library Messages	To be developed					
Compliance Documentation			ducational curricul dance of each pres			



4.1.3 Potential Strategy 3: SWMF Owner and Operator Training

Potential Strategy: SWMF Owner and Operator Training						
High-Priority Stormwater Issue(s)	Bacteria		Illicit Discharge		Excessive Nutrients	
Implementation Year	TBD					
Implementation Quarter	TBD					
Delivery Method	Training materials					
Responsible Party	DPW					
Description	DPW may develop stormwater management facility maintenance educational materials to be used by stormwater management facility owners and operators.					
Recommended Library Messages	To be developed					
Compliance	DPW will include a copy of educational materials and the date and number of					
Documentation	operators/owners in attendance for each presentation in the MS4 annual report.					

4.1.4 Potential Strategy 4: New Pet Owner Kit

Potential Strategy: New Pet Owner Kit						
High-Priority Stormwater Issue(s)	Bacteria	√	Illicit Discharge		Excessive Nutrients	✓
Implementation Year	TBD					
Implementation Quarter	TBD					
Delivery Method	Alternative materials					
Responsible Party	DPW					
Description	DPW may consider stocking vet offices and animal shelters with new pet owner kits, which will include pet waste dispensers and educational pamphlets about the importance of picking up after your pet.					
Recommended Library	Pet Waste Bag Dispensers					
Messages	Psst! Did You Know It's Important to Scoop The Poop					
Compliance	DPW will include a list of the locations where pet kits are available across the					
Documentation	Town.					

4.1.5 Potential Strategy 5: Storm Drain Stenciling

Potential Strategy: Storm Drain Stenciling						
High-Priority Stormwater Issue(s)	Bacteria		Illicit Discharge	√	Excessive Nutrients	
Implementation Year	TBD					
Implementation Quarter	TBD					
Delivery Method	Signage					
Responsible Party	DPW					
Description	DPW will inventory the current storm drain markers and place storm drain markers on publicly visible storm drain inlets in conjunction with their everyday operations.					
Recommended Library Messages	N/A					
Compliance	DPW will include the number of storm drain markers on public stormwater					
Documentation	infrastructure in the MS4 annual report.					

5.0 Public Involvement and Participation

5.1 MS4 General Permit Requirements

The [Town] shall develop and implement procedures for the following:

- (1) The public to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution concerns;
- (2) The public to provide comments on the permittee's MS4 program plan;
- (3) Responding to public comments received on the MS4 program plan; and
- (4) Maintaining documentation of public comments received on the MS4 program and associated MS4 program plan and the permittee's response.
- b. No later than three months after this permit's effective date, the [Town] shall update and maintain the webpage dedicated to the MS4 program and stormwater pollution prevention. The following information shall be posted on this webpage:
- (1) The effective MS4 permit and coverage letter;
- (2) The most current MS4 program plan or location where the MS4 program plan can be obtained;
- (3) The annual report for each year of the term covered by this permit no later than 30 days after submittal to the department;
- (4) For permittees whose regulated MS4 is located partially or entirely in the Chesapeake Bay watershed, the most current Chesapeake Bay TMDL action plan or location where the Chesapeake Bay TMDL action plan can be obtained;

- (5) For permittees whose regulated MS4 is located partially or entirely in the Chesapeake Bay watershed, the Chesapeake Bay TMDL implementation annual status reports for each year of the term covered by this permit no later than 30 days after submittal to the department;
- (6) A mechanism for the public to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution concerns in accordance with Part I E 2 a (1) [of the MS4 General Permit]; and,
- (7) Methods for how the public can provide comments on the permittee's MS4 program plan in accordance with Part I E 2 a (2) [of the MS4 General Permit] and if applicable, the Chesapeake Bay TMDL action plan in accordance with Part II A 13 [of the MS4 General Permit].

[The Town] shall implement no fewer than four activities per year from two or more of the categories listed in Table 2 to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.

Table 4. Public Involvement Opportunities

Public Involvement Opportunities	Examples (Provided as Example and Are Not Meant to be All Inclusive or Limiting)
Monitoring	Establish or support citizen monitoring group
Restoration	Stream, watershed, shoreline, beach, or park clean-up day, adopt-a-waterway program, tree plantings, and riparian buffer plantings
Public education activities	Booth at community fair, demonstration of stormwater control projects, climate change's effects on stormwater management, presentation of stormwater materials to schools to meet applicable education Standards of Learning or curriculum requirements, or watershed walks
Public meetings	Public meetings on proposed community stormwater management retrofits, green infrastructure redevelopment, ecosystem restoration projects, TMDL development, voluntary residential low impact development, climate change's effects on stormwater management, or other stormwater issues
Disposal or collection events	Household hazardous chemicals collection, vehicle fluids collection
Pollution prevention	Adopt-a-storm drain program, implement a storm drain marking program, promote use of residential stormwater BMPs, implement pet waste stations in public areas, adopt-a-street program.

The [Town] may coordinate the public involvement opportunities listed in Table 2 with other MS4 permittees; however, each permittee shall be individually responsible for meeting all of the permit requirements.

The [Town] may include staff and students in public participation events; however, the activity cannot solely include or be limited to staff participants with stormwater, groundskeeping, and maintenance duties in order for an event to qualify as a public participation event.



Staff training required in accordance with Part I E 6 d [of the MS4 General Permit] does not qualify as a public participation event unless the training activity solicits participation from target audiences beyond staff or contractors with stormwater, groundskeeping, and maintenance duties.

The MS4 program plan shall include:

- (8) The webpage address where mechanisms for the public to report (i) potential illicit discharges, improper disposal, or spills to the MS4, (ii) complaints regarding land disturbing activities, or (iii) other potential stormwater pollution concerns;
- (9) The webpage address that contains the methods for how the public can provide input on the permittee's MS4 program; and
- (10)A description of the public involvement activities to be implemented by the permittee, the anticipated time period the activities will occur, and a metric for each activity to determine if the activity is beneficial to water quality. An example of metrics may include the weight of trash collected from a stream cleanup or the number of participants in a hazardous waste collection event.

5.2 Public Participation

The Town's website includes the Water Quality & Stormwater Management webpage, which is dedicated to the Town's MS4 Program and associated activities. The URL for this webpage is https://www.leesburgva.gov/departments/public-works/water-quality-stormwater-management.

The Water Quality & Stormwater Management webpage includes the following documents:

- The Town's current Notice of Coverage under the VPDES General Permit for Discharges of Stormwater from Small MS4s (Registration #VAR040059)
- A link to the MS4 General Permit on the Virginia Legislative Information Services Administrative Code webpage at URL https://law.lis.virginia.gov/admincode/title9/agency25/chapter890/.
- The MS4 Program Plan
- A copy of the most recent final Chesapeake Bay Action Plan
- Copies of TMDL Action Plans developed and implemented under the MS4 General Permit Local TMDL Special Condition
- Copies of MS4 Annual Reports submitted under the current MS4 General Permit Notice of Coverage
- Copies of Chesapeake Bay TMDL Implementation Annual Status Reports created under the current MS4
 General Permit Notice of Coverage

Unless required specifically as an MS4 General Permit condition, the documents placed on the Water Quality and Stormwater web page are final documents that have undergone internal and external review and obtained the necessary approvals prior to being posted on the web page.

The webpage also includes directions for the public regarding the following:

- Reporting of potential illicit discharges, improper material disposal or spills to the MS4, land disturbing activity complaints, and other stormwater pollution concerns, and
- Submission of comments regarding the Town's MS4 Program Plan.



The Town will utilize the Water Quality & Stormwater Management webpage as the means to solicit comments regarding its draft Chesapeake Bay TMDL Action Plan prior to submission to DEQ as required by the MS4 General Permit.

The Town will follow the latest version of the Town Standard Operating Procedures for Receiving, Responding, and Documenting Stormwater-Related Public Reports & Comments to receive, respond, and document community participation.

5.2.1 Water Quality & Stormwater Management Webpage Update Requirements

The following updates to the webpage must be made to remain in compliance with the MS4 General Permit:

- The webpage must be updated to include the required information no later than February 1, 2024.
- The MS4 Program Plan must be updated to meet the conditions of the 2023 MS4 General Permit by May 1, 2024. The updated MS4 Program Plan must be posted on the webpage no later than 30 days of it being updated (May 31, 2024).
- The MS4 Annual Report for the previous reporting cycle (July June) must be posted on the webpage no later than 30 days after its October 1 submittal to DEQ (Annually by October 31).
- The MS4 Annual Report for the previous reporting cycle (July June) must be posted on the webpage no later than 30 days after its October 1 submittal to DEQ (Annually by October 31).
- The Chesapeake Bay TMDL Action Plan must be posted on the webpage no later than 30 days after its October 31, 2024 submittal to DEQ (**November 30, 2024**).
- The Chesapeake Bay TMDL Implementation Status Report for the previous reporting cycle (July June) must be posted on the webpage no later than 30 days after its October 1 submittal to DEQ (Annually by October 31).

5.3 Public Involvement

The Town provides numerous Public Involvement opportunities that are reflective of the PEOP highpriority stormwater issues. These include:

- The Keep Leesburg Beautiful Campaign
- Pet Waste Stations at Town Parks
- Participation in the Flower & Garden Festival
- PAWS for Clean Water Promotional Pledge
- Loudoun County Household Hazardous Waste Collection Events

These public involvement opportunities are further described in the following sections.

5.3.1 Public Involvement Opportunity 1: Keep Leesburg Beautiful Campaign

Opportunity Type	Restoration – Clean Up Days
Schedule	Annually; Every Spring
Responsible Party	DPW
Effectiveness Evaluation	DPW will utilize data collected as part of the Keep Leesburg Beautiful campaign, including individual project reports, to estimate the number of participants and amount of litter collected.



Keep Leesburg Beautiful (KLB) is a town-wide litter minimization program undertaken by volunteers and administered by the DPW. Youth groups, community organizations, churches, businesses, homeowner associations, families, and individuals are encouraged to participate. KLB participation is promoted through the Town's webpage, social media, and quarterly newsletter (Figure 2). Additional information regarding the Keep Leesburg Beautiful event is available at https://www.leesburgva.gov/departments/public-works/keep-leesburg-beautiful.



Figure 2. Keep Leesburg Beautiful Promotion in the Spring 2023 Newsletter

KLB's largest event is a month-long opportunity each April for businesses, residents, and community groups to come together to make Leesburg a cleaner place. Since 2020, a Keep Leesburg Beautiful litter clean-up challenge has also been held in the fall to encourage residents to continue their community beautification and litter collection efforts throughout the year. Participants are encouraged to submit a Keep Leesburg Beautiful Project Report that details:

- The date and location of the activity
- The type of activity
- The number of participants
- The number of hours spent
- An estimate of the amount of trash collected (e.g., number of trash bags, size of clean-up area, etc.)

The Town will count each KLB Project Report as a separate Public Involvement opportunity in the MS4 Annual Report based on their implementation at separate locations and/or dates.

5.3.2 Public Involvement Opportunity 2: Pet Waste Stations

Opportunity Type	Pollution Prevention – Pet Waste Stations in Public Areas		
Schedule	Year-Round Year-Round		
Responsible Party	DPR		
Effectiveness	DPW will confirm the presence of each of the eight (8) Pet Waste Stations at the		
Evaluation	identified locations.		



The Town will provide public access to Pet Waste Stations at eight (8) town parks throughout the year (Figure 3). The Pet Waste Stations contain a message, pet waste bags, and a nearby trash can. The locations of these Pet Waste Stations are:

- Brandon Park, 878 Harrison St. SE (39.105497, -77.561264)
- Carrvale Park, 919 Marshall St. NE (39.117759, -77.543649)
- Greenway Park, 102 Shadetree Way SW (39.092171, -77.588194)
- Leesburg Dog Park (Olde Izaak Walton Park), 850 Davis Ave. SE (39.101859, -77.567672)
- Raflo Park, 345 Harrison St. SE (39.108888, -77.563050)
- Rotary Park, 22 North St. NE (39.117304, -77.562044)
- Town Green, 25 W. Market St. (39.114514, -77.565691)
- Tuscarora Park, 425 Solitude Ct SE (39.094467, -77.542526)



Figure 3. Town of Leesburg Pet Waste Station at the Entrance to the Leesburg Dog Park at Olde Izaak Walton Park

The Town will count each Pet Waste Station as a separate Public Involvement opportunity in the MS4 Annual Report based on their implementation at separate Town Parks.

5.3.3 Public Involvement Opportunity 3: Flower & Garden Festival

Opportunity Type	Public Education Activity – Booth at Community Festival		
Schedule	Annually; 3rd Weekend of April		
Responsible Party	DPW		
Effectiveness	DPW will provide an estimate of the number of festival attendees and the number and		
Evaluation	types of PEOP messages distributed in the MS4 Annual Report.		



The Flower & Garden Festival was founded in 1990 and has since blossomed into the premier festival in Leesburg, boasting an average of 30,000 visitors throughout the weekend. The Town of Leesburg produces the festival, with participation from many different departments including Parks and Recreation, Public Works, Leesburg Police, and Leesburg Utilities. DPW will have a booth at the festival to answer stormwater-related questions and discuss stormwater activities with the visitors. Concurrent with the public education activity, DPW will distribute PEOP materials and messages during the festival. The Town will count participation at the Flower & Garden Show as one Public Involvement opportunity in the MS4 Annual Report.

5.3.4 Public Involvement Opportunity 4: PAWS for Clean Water Promotional Pledge

Opportunity Type	Pollution Prevention – Promote the Use of Pet Waste BMPs
Schedule	Continuously
Responsible Party	DPW
Effectiveness Evaluation	Beginning with PY01, the Town will track the annual cumulative number of pet waste pledges submitted to the Town and will report both numbers in the MS4 Annual Report.

The PAWS for Clean Water is a promotional program directed toward pet owners that encourages them to clean up after their pets. Pet owners submit to the Town a signed pledge confirming that they will clean up after their pet. In return, the Town provides pet owners with promotional Pet Waste Bag Dispensers. The PAWS for Clean Water program is promoted through the Town webpage, social media, and other PEOP and Public Involvement activities.

The Town will count the Paws for Clean Water program as one Public Involvement opportunity in the MS4 Annual Report.

5.3.5 Public Involvement Opportunity 5: Loudoun County Household Hazardous Collection Events

Opportunity Type	Disposal or Collection Event – Household Hazardous Waste Collection Events
Schedule	Annually
Responsible Party	Loudoun County Department of Public Works
	The Town will provide the number of Household Hazardous Waste Collection Events
Effectiveness	held within the Town limits during the reporting period. The Town will provide
Evaluation	documentation of its promotion of the County Household Hazardous Waste Collection
	Events.

Loudoun County conducts Household Hazardous Waste (HHW) collection events from March through November to collect used and unwanted household hazardous materials such as gasoline and household chemicals, and the events are held at various locations throughout the county, including locations within the Town. Town residents are eligible to participate in the household hazardous waste collection events provided they provide proof of County residency. The Town will promote the County's Household Hazardous Waste Collection Program as part of the Town's Trash and Recycling Services outreach efforts.

The Town will count each Loudoun County Household Hazardous Waste Collection Event that occurs within the Town limits as a separate Public Involvement opportunity in the MS4 Annual Report.



Appendix A – Town of Leesburg PEOP Documentation Form

TOWN OF LEESBURG

Stormwater Public Education and Outreach Plan Documentation Form

The Town of Leesburg is required to implement a Public Education and Outreach Program to address the following high-priority stormwater issues:

- Bacteria Pollution
- Illicit Discharges and Illegal Dumping
- Excessive Nutrients

The Town must employ a minimum of two of each of the strategies in Table 1 annually to:

- Increase the public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;
- Increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and
- Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.

Table 5. Strategies for Public Education and Outreach Delivery

Messaging Strategy	Description
Traditional Written Materials	Informational brochures, newsletters, fact sheets, utility bill inserts, or recreational guides for targeted groups of citizens
Alternative Materials	Bumper stickers, refrigerator magnets, t-shirts, or drink koozies
Signage	Temporary or permanent signage in public places or facilities, vehicle signage, billboards, or storm drain stenciling
Media Materials	Information disseminated through electronic media, televisions, movie theater, newspaper, or GIS story maps
Speaking Engagements	Presentations to school, church, industry, trade, special interest, or community groups
Curriculum Materials	Materials developed for school-aged children, students at local colleges or universities, or extension classes offered to local citizens
Training Materials	Materials developed to disseminate during workshops offered to local citizens, trade organizations, or industrial officials
Public Education Activities	Booth at community fair, demonstration of stormwater control projects, presentation of stormwater materials to schools to meet applicable education Standards of Learning or curriculum requirements, or watershed walks
Public Meetings	Public meetings on proposed community stormwater management retrofits, green infrastructure redevelopment, ecosystem restoration projects, TMDL development, climate change's effects on stormwater management, voluntary residential low impact development, or other stormwater issues

The Town's Public Education and Outreach Plan (PEOP) identifies and describes numerous strategies that have been and will be implemented to comply with the MS4 General Permit. For the strategies that are not regularly reoccurring or continuous, specifically Strategies 6, 7, and 9, one of these Public Education and Outreach Documentation Forms should be completed.



Town of Leesburg Public Education and Outreach Plan/Public Participation Opportunities Plan

	Town of Leesburg MS4 PEOP Documenta	ition Form
Event Name		
Event Date	Estimated Nur Attendees	mber of
Host Organization		-
Event Description		
High-	Priority Stormwater Issue(s) Addressed (C	heck Applicable)
Bacteria	Illicit Discharge and Illegal Dumping	Excessive Nutrients
MS4 General Pern	nit Messaging Strategy / Delivery Method	Employed (Check Applicable)
Traditional Written Material	Public Education Activities	Media Materials
Alternative Materials	Speaking Engagements	Training Materials
Signage	Curriculum Materials	Public Meetings
	Messages Delivered	
Messages Utilized from Message Library (List)		
New Messages (List)		
	Town Participation	
List Town Staff (Include Department)		
	ent dates, audience, presentation titles, and sof presentations, etc.), must be kept on fil	









Town of Leesburg MS4 PEOP Documentation Form

Event Name: Click or tap here to enter text

Event Date: Click or tap here to enter text

Estimated Number of Attendees: Click or tap here to enter text

Host Organization: Click or tap here to enter text

Event Description: Click or tap here to enter text

High-Priority Stormwater Issue(s) Addressed (Check All That Apply)

- ✓ Bacteria
- ✓ Illicit Discharge and Illegal Dumping
- ✓ Excessive Nutrients

MS4 General Permit Messaging Strategy / Delivery Method Employed (Check All That Apply)

- ✓ Traditional Written Material
- ✓ Public Education Activities
- ✓ Media Materials
- ✓ Alternative Materials
- ✓ Speaking Engagements
- ✓ Training Materials
- ✓ Signage
- ✓ Curriculum Materials
- ✓ Public Meetings

Messages Delivered

Messages Utilized from Message Library (List): Click or tap here to enter text

New Messages (List): Click or tap here to enter text

Town Participation

List Town Staff (Include Department): Click or tap here to enter text

Documentation, such as event dates, audience, presentation titles, copies of the individual strategies (.pdf of publications, copies of presentations, etc.), must be kept on file in case of DEQ audit or inspection.