

APPENDIX A

MINIMUM CONTROL MEASURE 1

MS4 ANNUAL REPORT

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The City's Stormwater Program Plan consists of six major elements, referred to as "minimum control measures," or MCMs for short. Specific measures to implement the MCMs are called "best management practices," or BMPs. These BMPs are part of a comprehensive plan to reduce pollutants discharged from the City's storm drainage system. Did you know that most of Alexandria's streams exceed Virginia's water quality standards for fecal coliform and/or E. coli? Pet waste left of the ground, wildlife, leaking pipes and illicit connections may contribute to this impairment.

How can I get involved?

You can get involved by (1) learning how to keep our streams clean by preventing pollution (2) participating in City-sponsored public hearings and input sessions, and (3) volunteering for cleanup events. Sign up for Environmental **eNews** for volunteer opportunities and to learn more about Eco-City Alexandria initiatives.

www.eneews.alexandriava.gov

6 Minimum Control Measures of Stormwater Management Plan

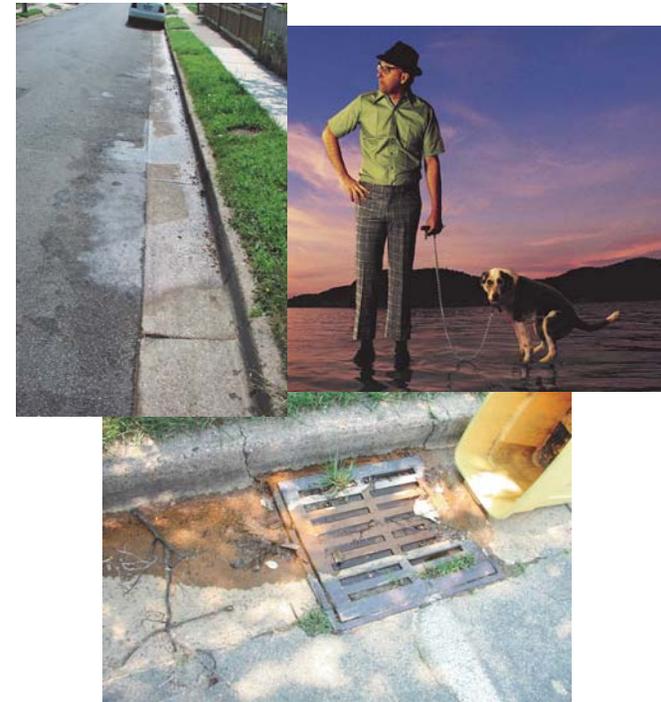
1. Public Education and Outreach
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5. Post-Construction Stormwater Management
6. Pollution Prevention and Good Housekeeping



Department of Transportation & Environmental Services
Office of Environmental Quality
301 King Street, Room 3000
Alexandria, VA 22314
Phone: 703-746-4071
Fax: 703-519-5941

www.alexandriava.gov/Environment

Every Day Activities Can Contribute to Stormwater Pollution



ECO-CITY  ALEXANDRIA

Stormwater Management Program Plan

The Stormwater Management Plan

Public Education and Outreach: The City engages in a range of public education and outreach activities to inform and further educate the public and businesses about the impacts of stormwater on local streams. A focus of this efforts providing information on steps that citizens can take to reduce or eliminate stormwater pollution.

Public Involvement and Participation: Public involvement and participation is an essential part of the City's Plan. The City provides annual updates to the Environmental Policy Commission and provides an electronic form on City's web site for citizens to report pollution problems.

Illicit Discharge Detection and Elimination: By law, only stormwater is allowed in the stormwater system. As part of its program, the City has mapped all stormwater outfalls and developed a program to identify and eliminate illegal connections to the system.

Construction Site Stormwater Runoff Control: The City administers a local Erosion and Sediment Control Program to reduce stormwater pollution from construction sites. The City also requires all developers to control construction site waste such as litter generated by job site workers and equipment waste materials such as used parts and oils.

Post-Construction Storm Water Management: The City's Chesapeake Bay

Preservation Ordinance reduces pollution from development. Examples of stormwater controls include vegetative buffers, sand filters, and bioretention filters. Low impact development (LID) and Environmental Site Design (ESD) are techniques to mimic natural site characteristics and reduce impervious surfaces.

Pollution Prevention and Good Housekeeping: The City is required to ensure that government operations are conducted in a manner that protects water quality. In addition to revising standard operating procedures, the City will develop Stormwater Pollution Prevention Plans for many City facilities.

Why manage stormwater?

According to the U.S. Environmental Protection Agency's 2004 National Water Quality Inventory, approximately 44% of surveyed U.S. rivers and streams are considered impaired because they do not meet basic water quality standards. In Alexandria, Four Mile Run, Hunting Creek/Cameron Run, and Holmes Run are considered impaired due to bacteria by the Virginia Department of Environmental Quality. A leading source of this impairment is polluted stormwater. This pollution come comes from different activities that are part of our daily routine. Almost every street, lawn, driveway, rooftop, and parking lot in Alexandria is connected to a storm drain. When it rains, the stormwater mixes with spilled motor oil, pet waste, pesticides, paint, grease, and litter. This polluted stormwater is discharged directly to our local streams, which eventually flow to the Potomac River and the Chesapeake Bay.



Storm drains are neighborhood entry points to the stormwater system.

What are NPDES requirements?

In response to the growing threat of stormwater pollution to water quality, Congress enacted the National Pollutant Discharge Elimination System (NPDES) under the federal Clean

Water Act. NPDES requires local governments to obtain a permit to discharge from the storm sewer system to Waters of the U.S. In Virginia, the Department of Conservation and Recreation is responsible for enforcing these NPDES requirements through the Virginia Stormwater Management Program. Under this program, each regulated government operating a municipal separate storm sewer (MS4) must develop an MS4 Stormwater Management Program Plan to control pollution to the "maximum extent practicable."



Underground pipes eventually discharge stormwater to a local stream. If the stormwater is polluted, our local streams are also polluted.



All streams in Alexandria drain to the Potomac River and the Chesapeake Bay. Each year, millions of dollars are spent to clean and restore the Bay.

El Plan de Dirección de Aguas de tormentas de la Ciudad consiste en seis elementos principales, referidos como "medidas de control mínimas," o MCMs para corto. Medidas específicas para poner en práctica el MCMs se llaman "las mejores prácticas de dirección". Durante el desarrollo del Plan, la Ciudad se empeño en una evaluación extensa de opciones de administracion de aguas de tormentas existentes, ordenanzas, y programando contra exigencias de cumplimientos de NPDES. La Ciudad tiene cinco años para poner en práctica su Plan.

¿Cómo puedo estar involucrar?

Usted puede involucrarse en estas maneras (1) aprender como mantener nuestros arroyos limpios con la previniendo la contaminación (2) participación en audiencias publicas patrocinadas por las ciudad (3) ofrecerse para uno de muchos acontecimientos de administración de Alexandria como el Día de Tierra de Alexandria. Para más información, póngase en contacto:

División de Alexandria de Calidad Ambiental
Departamento de Transporte y Servicios Ambientales (703) 838-4334

6 Medidas minimas de Control del Plan de administracion aguas de tormentas

1. Educación y alcance publico
2. Compromiso y Participación Pública
3. Descargas ilicitos y Eliminación
4. Control residuo de aguas de tormentas en la construccion
5. Administracion de aguas de tormentas post-construccion
6. Prevención de Contaminación y buen manejo de construccion



City of Alexandria Transportation & Environmental Services

Division of Environmental Quality

301 King Street

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Fax: 703-519-5941

<http://alexandriava.gov/tes/eq/overview.html>

Las actividades diarias pueden contribuir a la contaminación de aguas de tormentas



Programa de Administración de Aguas de tormentas

El Plan de Administración de aguas de tormentas

La Educación y el Alcance Público: La Ciudad va a tomar parte en actividades de educación y alcance público para educar al público y negocios sobre los impactos de aguas de tormentas sobre Arroyos locales. Un punto focal de esfuerzos de la Ciudad será proporcionar la información sobre pasos que los ciudadanos pueden tomar para reducir o eliminar la contaminación de aguas de tormentas.

Compromiso y Participación Pública: El compromiso y participación pública son una parte esencial del Plan de la Ciudad. La Ciudad proporcionará una actualización anual a la Comisión Ambiental de Política y realizará el website de la Ciudad para hacerlo más fácil para ciudadanos para reportar problemas de contaminación.

Descubrimiento de Descarga Ilícitos y Eliminación: Según la ley, sólo aguas de tormentas se permiten en el sistema de agua de tormentas. Como parte de su programa, la Ciudad va a planear un mapa de todos los desagües de aguas de tormentas y desarrollará un programa para identificar y eliminar uniones ilegales al sistema.

Control residuo de aguas de tormentas en la construcción: La Ciudad realizará su Programa de Control de Sedimento y Erosión existente para reducir la contaminación de aguas de tormentas en la construcción. La Ciudad ahora requerirá que todos los empresarios controlen la basura en la construcción como la basura generada por los trabajadores y basura de las maquinarias como partes usadas y aceites.

Administración de aguas de tormentas post-construcción: La Ciudad realizará su Ordenanza de Preservación de Bahía Chesapeake para

reducir la contaminación por desarrollo. Los ejemplos de control de aguas de tormentas incluyen estanques de aguas de tormentas, amortiguadores para la vegetación, filtros de arena, agrupar los desarrollos para retener espacio abierto, y estándares de diseño que promueven amortiguación de arroyos y reducen superficies impermeables.

Prevención de Contaminación y buen manejo de construcción: Se requieren que la Ciudad asegure que las operaciones de gobierno son conducidas en una manera que protege la calidad de agua. Además de la revisión de procedimientos estándar, la Ciudad desarrollará Proyectos de Prevención de Contaminación de Agua de tormentas para muchas instalaciones de Ciudad.

¿Por qué administrar aguas de tormentas?

Según a la Agencia del 1996 de Protección de Medio Ambiente estadounidense el Inventario de Calidad Nacional de Agua, aproximadamente el 40 % de cuerpos de aguas encustadas estadounidenses se consideran perjudicadas porque no llegan a alcanzar los estándares de calidad básicas de agua. En Alexandria, la Carrera de Cuatro millas (Four Mile Run), Cazando Carrera de Creek/Cameron (Hunting Creek/Cameron Run), y Carrera de Backlick (Backlick Run) es considerada perjudicada por el Departamento de Virginia de la Calidad Ambiental. Una fuente principal de este daño es la agua de tormentas contaminadas. ¿De dónde viene la contaminación? Esto viene de actividades diferentes que son la parte de nuestra vida diaria. Casi cada calle, césped, camino de entrada, azotea, y parqueo en Alexandria están relacionados con un desagüe tormentoso. Cuando llueve las aguas se mezclan con aceite derramado de motor, desechos de animales, pesticidas, pintura, grasa, y basura. Estas aguas contaminadas se descargan directamente a nuestros



Colector de fango son puntos de entrada de vecindad al sistema de agua de tormentas. ¿Dónde se va las aguas de tormentas?

arroyos locales, que finalmente fluyen al Río Potomac y la Bahía Chesapeake.

¿Cuáles son las exigencias de NPDES?

(NPDES) conforme al Acto federal Limpio de Agua. El NPDES requiere que administraciones locales urbanas obtengan un permiso para cualquier sistema de descarga de aguas negras en Aguas de los Estados Unidos. Una parte importante del programa de permisión es que cada gobierno regulado debe



Los tubos subterráneos finalmente descargan las aguas de tormentas a una corriente local. Si las aguas de tormentas están contaminadas, nuestras corrientes locales son también contaminadas.



Todas las corrientes en Alexandria drenan al Río Potomac y la Bahía Chesapeake. Millones de dólares son gastados cada año para limpiar fuentes evitables de la contaminación.

desarrollar un Programa de Dirección de Aguas de tormentas para controlar la contaminación "al grado máximo practicable." En Virginia, el Departamento de la Calidad Ambiental es responsable de hacer cumplir estas exigencias de NPDES.

As stormwater flows over driveways, lawns, and sidewalks, it picks up debris, chemicals, dirt, and other pollutants. Stormwater can flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water. Polluted runoff is the nation's greatest threat to clean water.



By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings, and automotive fluids off the ground and out of stormwater. Adopt these healthy household habits and help protect lakes, streams, rivers, wetlands, and coastal waters. Remember to share the habits with your neighbors!

Healthy Household Habits for Clean Water

Vehicle and Garage

- Use a commercial car wash or wash your car on a lawn or other unpaved surface to **minimize** the amount of dirty, soapy water flowing into the storm drain and eventually into your local waterbody.



- Check your car, boat, motorcycle, and other machinery and equipment for leaks and spills. Make repairs as soon as possible. Clean up **spilled fluids** with an absorbent material like kitty litter or sand, and don't rinse the spills into a nearby storm drain. Remember to properly dispose of the absorbent material.
- **Recycle** used oil and other automotive fluids at participating service stations. Don't dump these chemicals down the storm drain or dispose of them in your trash.

Lawn and Garden

- Use pesticides and fertilizers **sparingly**. When use is necessary, use these chemicals in the recommended amounts. Avoid application if the forecast calls for rain; otherwise, chemicals will be washed into your local stream.
- Select **native** plants and grasses that are drought- and pest-resistant. Native plants require less water, fertilizer, and pesticides.
- **Sweep up** yard debris, rather than hosing down areas. Compost or recycle yard waste when possible.

- Don't overwater your lawn. Water during the **cool** times of the day, and don't let water run off into the storm drain.
- Cover piles of dirt and mulch being used in landscaping projects to prevent these pollutants from blowing or washing off your yard and into local waterbodies. **Vegetate** bare spots in your yard to prevent soil erosion.

Home Repair and Improvement

- Before beginning an outdoor project, locate the nearest storm drains and **protect** them from debris and other materials.
- **Sweep up** and properly dispose of construction debris such as concrete and mortar.
- Use hazardous substances like paints, solvents, and cleaners in the **smallest amounts possible**, and follow the directions on the label. Clean up spills **immediately**, and dispose of the waste safely. Store substances properly to avoid leaks and spills.
- Purchase and use **nontoxic, biodegradable, recycled, and recyclable** products whenever possible.
- **Clean** paint brushes in a sink, not outdoors. Filter and reuse paint thinner when using oil-based paints. Properly dispose of excess paints through a household hazardous waste collection program, or donate unused paint to local organizations.
- **Reduce** the amount of paved area and increase the amount of vegetated area in your yard. Use native plants in your landscaping to reduce the need for watering during dry periods. Consider directing downspouts away from paved surfaces onto lawns and other measures to increase infiltration and reduce polluted runoff.



Pet Care

- When walking your pet, remember to **pick up** the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.

Swimming Pool and Spa

- **Drain** your swimming pool only when a test kit does not detect chlorine levels.
- Whenever possible, drain your pool or spa into the **sanitary** sewer system.
- Properly store pool and spa chemicals to **prevent** leaks and spills, preferably in a covered area to avoid exposure to stormwater.

Septic System Use and Maintenance

- Have your septic system **inspected** by a professional at least every 3 years, and have the septic tank **pumped** as necessary (usually every 3 to 5 years).
- Care for the septic system drainfield by **not** driving or parking vehicles on it. Plant only grass over and near the drainfield to avoid damage from roots.
- Flush responsibly. Flushing household chemicals like paint, pesticides, oil, and antifreeze can **destroy** the biological treatment taking place in the system. Other items, such as diapers, paper towels, and cat litter, can **clog** the septic system and potentially damage components.

Storm drains connect to waterbodies!

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301 King St. Room 3000

Transportation & Environmental Services

City of Alexandria, Virginia

www.epa.gov/nps

or

www.epa.gov/nps/stormwater

For more information, visit

Remember: Only rain down the drain!



Make your home

The

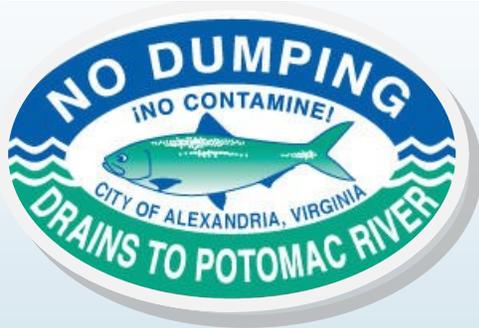
**SOLUTION
TO STORMWATER
POLLUTION!**

*A homeowner's guide to healthy
habits for clean water*



As part of the City of Alexandria's stormwater management program and on-going efforts to protect water resources consistent with the Eco-City Alexandria Environmental Action Plan (EAP), this brochure should remind businesses and individuals that storm drain inlets connect directly to our local streams and the Potomac River, as part of the Chesapeake Bay Watershed.

Residents can use the House Hazardous Waste site at 3224 Colvin Street. Businesses will need to make arrangements with a contractor. Visit www.alexandriava.gov/SolidWaste for more information.



REMEMBER:
**"Only Rain...
Down the Storm Drain."**

6 Things you can do to prevent water pollution

1. Never dump any wash-water into a storm drain or inlet
2. Bring wastewater to proper disposal facility or discharge to sanitary sewer
3. Secure chemicals, cleaners and paint during transport
4. Dispense away from storm drains or inlets and use tarps when working outside
5. Do not wash equipment outside, or to the storm drain
6. Call 911 if hazardous materials are spilled



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www.alexandriava.gov/Environment

ALTERNATIVES TO DUMPING WASTES



Pollution Prevention Ideas
For: Lawn Care,
Carpet Cleaning,
Duct Cleaning,
House Cleaning, and
Painting

Eco-CITY ALEXANDRIA

www.alexandriava.gov/Eco-City

Alternatives to Dumping Wastes to Prevent Water Pollution

Lawn Care

Most people like well-maintained, lush lawns, but fertilizers and pesticides contain chemicals that are harmful to the environment, wildlife and humans. Be careful not to spread on



sidewalks (or other hard surfaces), and don't apply right before a rain. The Chesapeake Bay is impaired for nutrients found in fertilizers and yard wastes. Pesticide runoff can contaminate drinking water supplies. Unused portions of fertilizer and pesticides should be properly disposed. Yard wastes (grass clippings and leaves) can be left in place or used as mulch.

Do not blow **grass clippings or leaves** into the street or gutter. They clog the drains, and impact dissolved oxygen and nutrient levels in waterways.



Carpet and Duct Cleaning

Carpets and ducts are cleaned in many homes and businesses to prolong the life of the carpet and performance of the HVAC. Unfortunately, these cleaners can damage the environment if they are dumped into a stream. Most carpet cleaners contain detergents and other potentially harmful chemicals. They can be toxic to aquatic life or promote rapid growth of aquatic vegetation, which has a negative impact on the environment. Never dispose of cleaning water by dumping down a storm drain. Always dispose of cleaning wastewater properly.



House and Office Cleaning

Some cleaning products and wastewater associated with cleaning operations contain chemicals that are harmful to the environment, wildlife and humans. Household and commercial kitchen appliances and other equipment should not be cleaned outside, where wash water may enter the storm drain system. Mop water and other wash water must be properly disposed of in a sink or tub that goes to



the sanitary sewer. Unused cleaning agents should not be disposed of in the trash, but should be disposed of properly. Non-toxic or less hazardous products should be considered for employee health and the health of our streams.

Painting

Paint and cleaning agents contain chemicals that are harmful to the environment. Follow some simple rules to prevent water pollution and protect water quality: Never clean painting equipment or dispose of unused paint in the street, the trash, or a storm drain; Use tarps to catch paint or cleaners when working outside; Secure paint and chemicals during transport to avoid spillage; Clean up outside spills immediately; Dispose of paint and waste properly.



Improper disposal or dumping of anything in a storm drain besides stormwater is illegal. City Code (Title 11, Ch. 13, Sec. 11-13-2) states that: *It shall be unlawful for any person to dump any waste on any property, in any waters or in any sanitary sewer or stormwater system, except as authorized by law or by applicable permit.*

If you dump waste products in a street grate, it **does not** go to a water treatment plant to be cleaned. Instead, the untreated waste is discharged directly into the environment and our local streams from a storm sewer outfall

Alexandria's S.T.O.P Program

Improper disposal of many common-place products can pollute our environment. The City of Alexandria has developed the **Stop Throwing Out Pollutants (S.T.O.P.)** program to prevent illegal dumping. City residents can take waste products to a site in Alexandria for environmentally-safe disposal by a licensed hazardous waste disposal firm. The site is located at **3600 Wheeler Avenue** and is open every Monday (except for holidays), from 10 a.m. until 6 p.m. Please bring products in the originally labeled containers only. Containers should be sealed and properly packaged for safe transportation. Proof of residency is required. Waste from Conditionally Exempt Small Quantity Generators will be accepted by appointment only. For more information, call the Office of Recycling at (703) 751-5872.

http://ci.alexandria.va.us/tes/sw/stop_pgm.html

6 Things you can do to prevent water pollution

1. Never dump any liquid waste products into a storm drain or street grate.
2. Take waste products to an appropriate disposal facility.
3. Secure chemicals or cleaners during transport to avoid spillage.
4. Dispense chemicals or cleaners over a protective surface and away from storm drains or water bodies.
5. Use tarps to catch waste and residue when working outside on vehicles or painting.
6. If a spill does occur, contact The City of Alexandria's Fire Department and notify them of the accident.



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<http://alexandriava.gov/tes/eq/overview.html>

Dispose of construction waste and industrial chemicals properly



Alternatives to Dumping Industrial Wastes

Illegal dumping onto any property, water, sanitary or storm sewer system is prohibited in the City of Alexandria (City Code Section 11-13-2). If you dump into a storm drain, gutter, or street grate, the waste product does not go to a water quality treatment plant to be cleaned. Instead, it is discharged into the City's streams and rivers, which eventually drain into the Chesapeake Bay.

Carpet Cleaner



Carpets are cleaned in many homes and businesses to prolong the life of the carpet. Unfortunately, carpet cleaners can damage the environment if they are dumped into a stream. Most carpet cleaners contain detergents and other potentially harmful chemicals. They can be toxic to aquatic life or promote rapid growth of aquatic vegetation, which has a negative impact on the environment. Never dispose of carpet cleaners by dumping them down a storm drain. Always take carpet cleaner waste to the City's waste disposal site at 3600 Wheeler Avenue.

Construction Waste Products

Construction waste can increase sedimentation in streams and reservoirs, making the water cloudy and filling in available drinking water capacity. Never dispose of excess concrete, cement, or mortar in a storm drain. Never wash cement troughs or truck tires directly into streams or storm sewer drains. Always follow proper Erosion and Sediment Control procedures.



Automobile Waste

Automobiles produce many different waste products, such as antifreeze, battery acid, gasoline, and used motor oil. These products can be harmful to the environment. Always take these waste products to a certified automobile shop for disposal, or to the City's waste disposal site at 3600 Wheeler Avenue.



The following items are accepted at 3600 Wheeler Avenue:

- Antifreeze
- Battery Acid
- Gasoline
- Motor Oil
- Auto Cleaning Products
- Car Batteries
- Oil-Based Paints
- Flammable Caulks & Adhesives
- Lacquers
- Spray Can Paint
- Varnishes
- Thinners
- Mineral Spirits
- Fire Extinguishers
- Household Cleaning Products
- Flammable Waxes & Abrasives
- Driveway Sealer
- Household Batteries
- Drain Cleaners
- Propane Tanks
- Pet Supplies
- Photographic Chemicals
- Developers
- Fixers
- Lawn Care Products
- Garden Products
- Herbicides
- Pesticides
- Ant Bait or Traps
- Rodent Control Products
- Insect Spray Cans
- Computers
- Televisions
- VCRs
- Printers
- Cellular phones
- Other type of electronics



PREVENT ILLEGAL DUMPING IN YOUR NEIGHBORHOOD:

- Create a sense of activity on the block so dumpers stay away.
- Keep an eye on vulnerable areas, such as dead-end streets, vacant lots, abandoned buildings and parking lots.
- Contact the City of Alexandria Police Department at 703.746.4444 to report areas vulnerable to illegal dumping.
- If you witness illegal dumping as it happens, please note the description of the vehicle, company name, and tag number if visible and call the Police.
- Talk to your neighbors and share information about how to effectively report illegal dumping (i.e., complete description of the person, vehicle, items dumped and other information).
- To report a location where illegal dumping has occurred, call the 24-hour **Nuisance Abatement Hotline at 703.836.0041**.

TRANSPORTATION & ENVIRONMENTAL SERVICES

Solid Waste Division
2900-B Business Center Dr.
Alexandria, VA 22314
703.746.4410

www.alexandriava.gov/SolidWaste

CODE ADMINISTRATION

Property Maintenance Division
301 King St., Suite 4200
Alexandria, VA 22314
703.746.4200

www.alexandriava.gov/Code

24-HOUR NUISANCE ABATEMENT HOTLINE: 703.836.0041

To report a hazardous material, spill/leak, environmental crime or illegal dumping in progress, call **911**.

For questions related to hazardous materials/storage regulations or to report hazardous material violations, call **703.746.4200 (business hours)** or **703.836.0041 (after business hours)**.

Rev. 01/2012



Trash and Illegal Dumping Information



Trash is not only harmful to the appearance of a community – it can also have lasting effects on quality of life and the environment. There is a growing trash problem in our alleys and other public areas. Increased incidents of illegal dumping in the community affects everyone in the City of Alexandria.



DEPARTMENT OF CODE ADMINISTRATION

Property Maintenance Division

The Department of Code Administration, Property Maintenance Division enforces the provisions of the Virginia Maintenance Code along with City ordinances for trash disposal and debris accumulation on private property.

Properties not maintained to the minimum requirements of the Virginia Maintenance Code are subject to receive orders of corrections and Violation Notices.

Failure to comply with a Notice of Violation may result in legal action against the owner of record or other responsible party. Legal action may result in either criminal or civil fines.

To report improperly discarded trash or an accumulation of trash and debris on private property, please call the Code Administration at 703.746.4200.

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES (T&ES)

Solid Waste Division

The Solid Waste Division provides refuse collection services to eligible residents once a week, Monday–Thursday, except for holiday pickup schedule adjustments.

A list of eligible and ineligible items for disposal, and proper preparation information, is located online at alexandriava.gov/SolidWaste or by calling 703.746.4410.

Household Hazardous Waste can be dropped off at 3224 Colvin Street on Mondays and Saturdays, 7:30 a.m. to 3:30 p.m.

Metal items can be scheduled for collection by calling 703.746.4410. Metal items are not collected from alleys. Some will require a nominal fee for disposal.

The City's annual Spring Clean Up is an opportunity for residents to set out unusable items not normally eligible for daily curbside refuse collection. Details are available at alexandriava.gov/SolidWaste.

HOW CAN YOU HELP?

- 1** Always dispose of waste in approved containers with secure lids, both on private property and in public areas.
- 2** Store reusable household materials in an enclosed structure, to avoid weather damage and the appearance of accumulated debris.
- 3** Consider donating or recycling unwanted, reusable items to local charities. To learn more, visit alexandriava.gov/SolidWaste.





Things you can do to reduce lawn care pollution

- ◆ Test your soil.
- ◆ Select fertilizers that have low or no phosphorus.
- ◆ Read and follow the instructions on the label.
- ◆ Ask your lawn care company to fertilize with care.
- ◆ Avoid spreading fertilizer on paved areas.
- ◆ Fertilize in the fall if at all!
- ◆ Don't fertilize right before large rain events

How do you test your soil?

Soil test kits can be picked up at your local Alexandria library or the Local Cooperative Extension office in Alexandria. Instructions on how to properly test your soil are included in the kit.

Contact Information:

Alexandria Local Cooperative Extension
Lee Center

1108 Jefferson Street
Alexandria, VA 22314

Office Phone: 703-519-3325

<http://offices.ext.vt.edu/view.cfm?webname=Alexandria>

For information on soil testing visit:

<http://www.ext.vt.edu/pubs/compost/452-129/452-129.html#toc>



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Fertilize in the Fall to watch your plants grow Tall

Wise Lawn Care Prevents Water Pollution



Over fertilizing pollutes water resources. Excess nutrients end up in our streams and create algal blooms that harm aquatic life by depleting oxygen levels.

Learn ways you can help prevent water pollution in this brochure

Environmentally Friendly Lawn Care

How Does Lawn Care Affect Water Quality?

Proper lawn care is an essential part of protecting our local water quality and the health of the Potomac River and the Chesapeake Bay. Fertilizers contain nutrients that, when over-applied, contribute to algae blooms and fish kills in the Chesapeake Bay and its tributaries.

Plants can only utilize a certain percentage of applied fertilizer, and the excess fertilizer washes away with the rain into neighborhood streams. Fertilizers contain nitrogen and phosphorus that end up feeding our streams in addition to our lawns and gardens. When streams have increased nutrient loadings, plants and algae grow above normal population levels, absorbing greater amounts of oxygen, and thus decreasing available oxygen for fish and other aquatic life.

To avoid the financial and environmental costs associated with water pollution related to over fertilization, there are several steps that Alexandria property owners can undertake.

What can you do to help?

The best way to prevent pollution is to become educated about fertilizer use and proper lawn care.

Here are some helpful ways to properly maintain your lawn in an environmentally friendly way.

- Test your soil
- Do not fertilize if it isn't necessary
- Select a fertilizer that has little or no phosphorous and approximately 60% of nitrogen in slow-release, water insoluble form
- Fertilize during the dry season
- Avoid spreading fertilizer onto paved areas
- Read instructions on how to properly apply the product; avoid over fertilizing
- Light watering of fertilizer will facilitate plant root absorption
- Ask your lawn care company to fertilize with care and use environmentally friendly products

Why should you test your soil?

Soil testing is great way to help clean up our local streams and have a great lawn. Soil tests are performed to evaluate the soil's nutrient potential and determine the most beneficial application rates of fertilizer and lime for optimum plant growth.

Virginia Tech has a soil-testing laboratory that performs tests for the public. The test results provide information on what kind and the amount of nutrients you should apply to your lawn.

Soil tests and recommendations provide valuable information for making sound economical and environmental land use decisions. Over fertilizing is costly and can damage the environment.



Tidal Potomac River PCB TMDL

Section 303(d) of the federal Clean Water Act (CWA) and EPA's implementing regulations direct each state to identify river or stream segments not meeting water quality standards (impairment listing)- known as water quality limited segments (WQLS). For each WQLS, the State is required to either establish a total maximum daily load (TMDL) or demonstrate that water quality standards are being met for a designated use.

TMDL for fish consumption:

The District of Columbia has listed all of the tidal Anacostia and Potomac rivers within District borders (5 segments) for protection of human health related to the consumption of fish and shellfish beneficial use, which is not supported due to elevated levels of PCBs in fish tissue.

The State of Maryland has listed the Potomac River Upper, Middle and Lower Tidal; and the tidal portion of the Anacostia River as impaired due to elevated levels of PCBs in fish tissue and other causes.

Virginia has 19 tidal embayments of the Potomac River listed for fish consumption use due to elevated levels of PCBs in fish tissue.

What is the City Doing?

Implementation of the TMDL is generally carried out through the City's Stormwater Program and MS4 (municipal separate storm sewer system) permit. The City performs the following in support of this effort:

- Standard contaminated land condition for development Special Use Permit's (SUPs) requiring screening for PCBs as part of the site characterization
- Assess municipal properties for sources of PCBs and assign any "high risk" facilities that currently store, or have transferred, transported or disposed of PCBs in a manner that would expose it to precipitation
- Characterize stormwater runoff from "high risk" properties
- Dry weather outfall screening
- Cleanup of the Hume-VEPCO Power Substation

MORE INFORMATION

Virginia Department of Environmental Quality
<http://www.deq.state.va.us/fishtissue/pcbstrategy.html>

VDH Fish Consumption Advisories
<http://www.vdh.state.va.us/epidemiology/dee/publichealthtoxicology/advisories/>

Department of Transportation & Environmental Services
Office of Environmental Quality
www.alexandriava.gov/Environment

PCBs

(Polychlorinated Biphenyls)

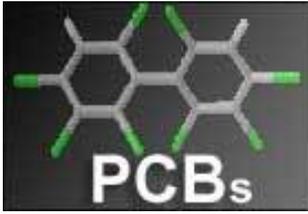


Tidal Portions of the Potomac River



ECO-CITY ALEXANDRIA

What are PCBs?



PCBs are a class of man-made compounds first manufactured in 1929 and used for a variety of industrial applications; including coolants and lubricants in electrical equipment. Other applications included dust control, pesticides, fire retardants, paints and coatings, printing inks, caulking, and wood treatment. There are no natural sources of PCBs.

New production was banned in 1979 under the Toxic Substances Control Act (TSCA) due to concerns about possible harmful human health effects, although their use in existing equipment was allowed to continue.

Although their current commercial use is restricted in the U.S., they continue to be a common environmental contaminant because they don't break down easily.

Release of PCBs

Prior to their regulation, PCBs were released into the atmosphere, water, and land through sewers, smokestacks, stormwater runoff, spills, and direct application to the environment.

Large volumes have been introduced to the environment through the burning of PCB-containing products, vaporization from PCB-containing coatings and materials, releases into sewers and streams, improper disposal of PCB-containing equipment in non-secure landfill sites and municipal disposal facilities, and by other routes (such as ocean dumping) (ATSDR, 2001).

Current Possible Sources

Sites that were previously contaminated may emit and re-deposit PCBs to the environment via volatilization. In water, PCBs may be re-suspended with sediments in the water column.

Some manufacturing processes may inadvertently generate PCBs. These include production of chlorinated solvents, paints, printing inks, agricultural chemicals, plastics, and detergent bars.

Based on the current regulation, the current primary "new" sources are limited to outdated or illegal landfills and scrap yards and leaks or explosions of electrical equipment and other equipment (such as locomotive transformers) that may still contain PCBs (ATSDR, 2001).

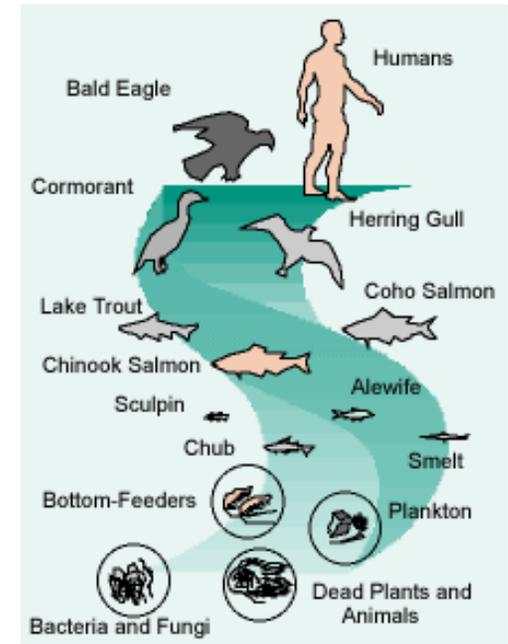


Source: Chesapeake Bay Program

What Happens in the Environment?

In surface waters, PCBs are more likely to adsorb to particles in sediments, like organic matter, clay, and micro-particles that may be suspended or have settled out. They can remain buried in sediments for a long time and be slowly released into the water and evaporate into air.

PCBs tend to build up in living organisms both by uptake from the environment over time (bioaccumulation) and along the food chain (biomagnification). PCBs remain stored in fatty tissues much more than in muscles or other body parts.



Source: Wisconsin Dept. of Natural Resources

Pet waste is a significant source of fecal bacteria in Alexandria. When pet waste is left on lawns or on streets and not properly disposed of, it can wash into nearby streams or be carried by runoff into storm drains.

These storm drains do not connect to treatment facilities. Instead, they drain directly into our streams, the Potomac River and eventually into the Chesapeake Bay.



Pet owners must collect their animal's waste so it does not wash into drains or streams

5 Things you can do to reduce pet waste pollution

- 1. Always clean up after your pet**
- 2. Never dispose of pet waste in a storm drain**
- 3. Pick up and bag waste, place it in the trash**
- 4. Flush pet waste down the toilet (but not kitty litter or debris)**
- 5. Encourage other pet owners to be responsible**



City of Alexandria
Transportation and Environmental Services
Office of Environmental Quality
301 King Street
City Hall, Room 3000
Alexandria, VA 22314
Ph: 703-746-4065
Fax: 703-519-5941

<http://alexandriava.gov/Environment>

When Nature Calls, Please Pick Up... After Your Pet!



Pet Waste Disposal, Water Quality and Your Health

Are You Risking Your Health?

When pet waste is left on the ground or disposed of improperly, water quality suffers and your health may be at risk also.

Children playing outside are at the highest risk of infection from bacteria and parasites found in pet waste. Flies may also spread diseases found in pet waste. Some of these bacteria and parasites include:

Campylobacteriosis – a bacterial infection carried by dogs and cats that frequently causes diarrhea in humans.

Salmonellosis – the most common bacterial infection transmitted to humans by other animals. Symptoms include fever, muscle aches, headache, vomiting, and diarrhea.

Toxocariasis – roundworms usually transmitted from dogs to humans, often without noticeable symptoms, but may cause vision loss, a rash, fever, or cough.

Toxoplasmosis – a parasite carried by cats that can cause birth defects if a woman becomes infected during pregnancy that can also be a problem for people with depressed immune systems.

Are you polluting our waters?

Did you know that most of Alexandria's streams exceed Virginia's water quality standards for fecal coliform and/or E. coli bacteria?

Escherichia coli (*E. coli*) bacteria is present in the intestinal tracts of all warm-blooded animals and is an indicator that other pathogens may be present. For recreational waters, fecal coliform was the primary bacteria indicator until relatively recently, when EPA began recommending *E. coli* and enterococci as better indicators of health risk from water contact. Virginia has incorporated *E. coli* in the state water quality standards and monitors accordingly.

The nutrients and organic matter in pet waste can also cause significant water quality degradation. Excess nutrients can cause algae blooms that block sunlight and kill underwater vegetation. Decaying pet waste uses up dissolved oxygen in the water that fish, vegetation and other aquatic species rely on to live. All streams in Alexandria drain to the Potomac River and Chesapeake Bay. By picking up after our pets, Alexandria can make a real contribution to improving our local water quality and the health of the Chesapeake Bay.

Simple Ways to Love Your Pet and the Environment!

Always clean up after your pet. Failure to do so on public property is subject to a \$100 fine (City Code §5-7-46).

Proper ways of disposing pet waste include:

Bagging and placing pet waste in the trash

Never dispose of pet waste in a storm drain. These drains lead directly to local waterways.

Encourage other pet owners to be responsible. It is an important part of the responsibility of owning a pet. We all suffer the consequences of ignoring irresponsible pet owners.

The City has several managed dog exercise areas. Please contact the Alexandria Department of Recreation, Parks and Cultural Activities at (703) 838-4343 or visit <http://alexandriava.gov/recreation/info/default.aspx?id=12284#dog>

Jeremy Hassan

From: Alexandria eNews <eNews_1GIV@enews.alexandriava.gov>
Sent: Thursday, September 12, 2013 9:36 AM
To: eNews Subscribers
Subject: Volunteer for the 28th International Coastal Cleanup - Saturday, September 21

[Volunteer for the 28th International Coastal Cleanup](#)

Saturday, September 21, 10 am – 12 noon
Oronoco Bay Park, 100 Madison Street

Are you interested in volunteering in the Ocean Conservancy's 28th Annual International Coastal Cleanup this weekend? This cleanup has been coordinated by Clean Virginia Waterways for the last 18 years, and is also sponsored by City's Department of Transportation and Environmental Services (T&ES), Office of Environmental Quality (OEQ). This annual statewide event helps clean our waterways and collect valuable data about trash and litter. We will be cleaning Oronoco Bay Park – rain or shine.

- Oronoco Bay Park is located at 100 Madison Street. Volunteers will meet at the end of Madison Street near the Rowing Clubhouse.
- What to wear? Volunteers should wear shoes and clothes that they do not mind getting dirty; trash bags and gloves will be provided.

Volunteers should RSVP by September 19th to jeremy.hassan@alexandriava.gov. Registration will also occur at the end of Madison Street on Saturday morning.

For more information visit: alexandriava.gov/Environment.

You are receiving this e-mail message because you are subscribed to one or more of the following groups in the City of Alexandria's free eNews service:
Environmental News, All T&ES General Information

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Jeremy Hassan

From: Alexandria eNews <eNews_1H11@enews.alexandriava.gov>
Sent: Monday, October 21, 2013 10:47 AM
To: eNews Subscribers
Subject: Eco-City Alexandria Get Involved!

Four Mile Run Park Cleanup – Saturday, October 26 **Holmes Run Fall Cleanup – Saturday, October 26**

[Volunteer for the Four Mile Run and Monticello Park Cleanup](#)

Saturday, October 26, 8 am – 12 pm
Four Mile Run Park, 4131 Mount Vernon Ave.

Volunteer to cleanup Four Mile Run and Monticello Park Saturday, October 26. The City's Department of Transportation and Environmental Services (T&ES), [Office of Environmental Quality](#) (OEQ), in partnership with [Clean Virginia Waterways](#) is hosting this annual cleanup. This statewide event helps clean our waterways and collect valuable data about trash and litter.

Volunteers will meet at the Four Mile Run Community Center, located at 4109 Mount Vernon Avenue. This year's cleanup is being sponsored by the local Mom's Organic Market, whom will be providing a post-cleanup lunch at the adjacent Mount Vernon Alexandria store.

[Volunteer for the 2013 Holmes Run Fall Cleanup](#)

Saturday, October 26, 10 am – 1 pm
Holmes Run Park, 301 N. Pickett St.

Volunteer to cleanup Holmes Run Saturday, October 26. Volunteers will meet at Beatley Bridge in Holmes Run Park, located at the intersection of North Pickett Street and Holmes Run Parkway. Garbage bags will be provided. Please bring your own work gloves, boots, and other gear that might help during the cleanup.

You are receiving this e-mail message because you are subscribed to one or more of the following groups in the City of Alexandria's free eNews service:
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Jeremy Hassan

From: Alexandria eNews <eNews_1HEU@enews.alexandriava.gov>
Sent: Thursday, November 14, 2013 2:00 PM
To: eNews Subscribers
Subject: Celebrate America Recycles Day on Friday, November 15

Celebrate America Recycles Day on Friday, November 15

Public Space Recycling & Resource Recovery Stations Available at Farmer's Markets

For Immediate Release: November 14, 2013

The City of Alexandria's Department of Transportation and Environmental Services (T&ES), Solid Waste Division encourages Alexandrians to join thousands of Americans in recognizing America Recycles Day on Friday, November 15. As part of the Eco-City Alexandria initiative and the Environmental Action Plan, the City continues to focus on increasing the residential and commercial rates of recycling, conserving natural resources and encouraging cost-effective waste disposal options.

Alexandria's current recycling rate is 48 percent, as recognized by the City's Locality Recycling Rate Report for Calendar Year 2012, and reported to the Virginia Department of Environmental Quality. Each week, the average Alexandria home recycles almost 20 pounds of paper, bottles, and cans.

There are two new ways to participate in America Recycles Day in Alexandria:

- Use the new recycling containers located along King Street.
- Visit the new Resource Recovery Stations currently located at Alexandria's Farmers' Markets.

City staff members will be available at the Resource Recovery Stations, located in Farmers' Markets, to explain how to compost food and yard waste in your home, and to accept your household items for composting. Compost tubs will be available for purchase (\$5 each). The tubs have a lid, handle, and are small enough to transport your composted materials to the Resource Recovery Stations.

For more information about America Recycles Day or T&ES' recycling programs visit: alexandriava.gov/Recycling.

You are receiving this e-mail message because you are subscribed to one or more of the following groups in the City of Alexandria's free eNews service:
Environmental News, Recycling and Solid Waste Updates, General City News Releases

Click here to change your eNews subscription choices: <http://enews.alexandriava.gov/mygroups.php>
Click here to remove your eNews account altogether: <http://enews.alexandriava.gov/userpage.php>

Jeremy Hassan

From: Alexandria eNews <eNews_1KF2@enews.alexandriava.gov>
Sent: Friday, March 28, 2014 3:13 PM
To: eNews Subscribers
Subject: Eco-City Alexandria Get Involved!



- **26th Annual Potomac Watershed Clean Up – Saturday, April 5**
- **Environmental Policy Commission Public Meeting – Monday, April 7**
- **Alexandria Earth Day – Saturday, April 26**
- **Build Your Own Rain Barrel Workshop – Saturday, May 3**

Volunteer for the 26th Annual Potomac Watershed Cleanup

Saturday, April 5 from 9 – 11 a.m.

The City's Department of Transportation and Environmental Services (T&ES), [Office of Environmental Quality](#) (OEQ) and [Solid Waste Division](#), in conjunction with the Alice Ferguson Foundation, will host two sites in Four Mile Run Park as part of this year's [Annual Potomac River Watershed Cleanup](#). Families, community groups, students, retirees, and thousands of other concerned residents and citizens will hit the shorelines, neighborhood parks, community streets, and schoolyards around the region to clean local streams located in the Potomac River Watershed. The Alice Ferguson Foundation created the watershed-wide cleanup in 1989, since then over 5 million pounds of trash has been collected.

The City is hosting two sites in Four Mile Run Park

- [End of 3700 Commonwealth Avenue](#)
- [Mt. Vernon Avenue](#) (on the right before crossing Four Mile Run)

Please RSVP to Jeremy Hassan at jeremy.hassan@alexandriava.gov.

Visit the [Potomac River Watershed Cleanup website](#) for more sites in Alexandria and the region.

[Environmental Policy Commission Public Meeting on Stormwater Public Education and Outreach Program](#)

Monday, April 7 from 7:30 – 9:00 p.m.

City Hall, 301 King Street, Sister Cities Room 1101

The City invites the public to provide input regarding the City's Stormwater Public Education and Outreach Program. This meeting will focus on water quality pollutants, outreach, and identification of appropriate target audiences for the City's outreach efforts. The City's Municipal Separate Stormwater System (MS4) Permit requires resident input in developing a comprehensive plan, feedback and input received at this meeting will be used to develop updates to the Stormwater Public Education and Outreach Plan.

For more information or questions regarding the upcoming meeting, please contact the [Office of Environmental Quality](#) at 703.746.4065.

[Alexandria Earth Day Saturday, April 26](#)

Saturday, April 26 from 10 a.m. – 2:00 p.m.

Ben Brenman Park, 4800 Brenman Park Drive

Mark your calendar for Alexandria's annual Earth Day 2014! The event will include educational exhibits and demonstrations, hands-on activities for children, a tree sale, and more!

To learn more about Earth Day visit <http://www.alexandriava.gov/EarthDay>.

[Build Your Own Rain Barrel Workshop – Register Now!](#)

Saturday, May 3 from 9 – 11 a.m.

Nannie J. Lee Recreation Center, 1108 Jefferson Street

Are you interested in living green and protecting the Chesapeake Bay? The City of Alexandria's Department of Transportation and Environmental Services (T&ES), [Office of Environmental Quality](#), in partnership with other agencies working as the [Northern Virginia Rain Barrel Program](#) partners, invites residents to learn about water quality issues and build a rain barrel to take home after the workshop.

Classes fill up fast and registration is required, visit [Northern Virginia Rain Barrel Program website](#) for more information.

You are receiving this e-mail message because you are subscribed to one or more of the following groups in the City of Alexandria's free eNews service:

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Jeremy Hassan

From: Alexandria eNews <eNews_1KHQ@enews.alexandriava.gov>
Sent: Tuesday, April 01, 2014 10:01 AM
To: eNews Subscribers
Subject: Solid Waste & Recycling Announcements

Solid Waste & Recycling Announcements

- 2014 Spring Clean Up Schedule
- Mulch Delivery Information
- Yard Waste Program – New Preparation Guidelines
- Earth Day – Saturday, April 26
- New Public Recycling Containers
- Composting & Food Waste

More Information:

- [Department of Transportation & Environmental Services \(T&ES\), Solid Waste Division](#)
- [Eco-City Alexandria Initiative](#)

2014 Spring Clean Up Schedule – In Progress

Residents that receive City refuse collection services are eligible to receive Spring Clean Up pick up on a Saturday in March or April. Residents are encouraged to clear out household clutter and place unwanted bulky trash and metal items at the curb on your neighborhood collection date. The City is divided into four collection areas and each area is assigned a specific Saturday. Metals and electronics should be separated from other collection items, as they will be picked up during a separate collection. To view a map of your neighborhood collection date visit: alexandriava.gov/SolidWaste.

Area 3 – Saturday, April 5
Area 4 – Saturday, April 12

Mulch Delivery – Place Orders Now

Orders can now be placed for delivery of mulch throughout April and May. Delivery dates and times are limited, and appointments are on a first come first served basis. Remember, mulch is free to residents and available for pick up from 7 a.m. – 3:30 p.m., Monday - Saturday, located at 4215 Eisenhower Ave. There is a \$50 delivery charge for a half truck load (3 CY) and full load (6 CY). For more information visit: alexandriava.gov/YardWaste.

Yard Waste Program – New Preparation Guidelines

Starting Monday, May 5, residents that receive City refuse collection services should separate yard waste from regular trash for special collection. This material will be collected on your regular collection day. Yard waste includes sticks, twigs, grass, leaves, and dead plants. Yard waste should be placed next to your trash container in a reusable container or paper yard waste bag for special collection. For more information visit: alexandriava.gov/YardWaste.

Earth Day – Saturday, April 26

Celebrate Earth Day on Saturday, April 26 at Ben Brenman Park, 4800 Brenman Park Drive, from 10 a.m. – 2

p.m. The event will include educational exhibits, demonstrations, hands-on activities for children, a tree sale, and more. For more information visit: alexandriava.gov/EarthDay.

New Public Space Recycling Containers

Have you noticed the bright blue recycling containers placed next to public trash cans in the commercial districts along Mt. Vernon Ave. and King Street? More than eighty new recycling containers have been placed in public spaces, including parks, recreation fields, and other high-traffic pedestrian areas. Remember to recycle wherever you are, even when you're on the go! For more information visit: alexandriava.gov/Recycling.

Composting & Food Waste

Are you taking part in the Solid Waste Division's food waste program? T&ES now has Resource Recovery Stations, located at the City's Farmers' Markets (Old Town, Del Ray) to collect food waste. More than 270 people have participated in the food waste program over the last several months. Participants drop off items weekly, over eight tons of waste has been collected, to be composted to make a natural fertilizer. To learn more about composting visit: alexandriava.gov/YardWaste.

You are receiving this e-mail message because you are subscribed to one or more of the following groups in the City of Alexandria's free eNews service:
Recycling and Solid Waste Updates

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Click here to remove your eNews account altogether: <http://enews.alexandriava.gov/userpage.php>

Jeremy Hassan

From: Alexandria eNews <eNews_1KSS@enews.alexandriava.gov>
Sent: Thursday, April 17, 2014 3:13 PM
To: eNews Subscribers
Subject: Eco-City Alexandria Get Involved!

ECO-CITY ALEXANDRIA

- **Alexandria Earth Day – Saturday, April 26**
- **Build Your Own Rain Barrel Workshop – Saturday, May 3**

[Alexandria Earth Day Saturday, April 26](#)

Saturday, April 26 from 10 a.m. – 2:00 p.m.
Ben Brenman Park, 4800 Brenman Park Drive

[Alexandria's Earth Day](#) celebration is coming up this spring, and you're invited! The event will include educational exhibits and demonstrations, hands-on activities for children, a tree sale, and more! We'd like you to join us in taking part--whether you attend in person on April 26th or not--in one or more of the following three ways. All entries received before April 25th will be entered into a drawing for environmentally-related prizes at Ben Brenman Park on Earth Day!

- **Share a photo** about sustainability practices and challenges, what being an Alexandria Eco-Citizen means to you, or that celebrates the environment. Click [here](#) for details on how to submit photos.
- **Take a (very!) short quiz online** on basic environmental sustainability issues, and what's happening in Alexandria. Click [here](#) to take the Earth Day Quiz.
- **Estimate your personal greenhouse gas emissions using an online calculator**, and learn how you can reduce them. We suggest using the [Environmental Protection Agency's Household Carbon Footprint Calculator](#).

Email your results or a copy of your completed emissions inventory, as well as your name and address, to Khoa Tran at khoadinh.tran@alexandriava.gov in order to be entered into the drawing. To learn more about Earth Day visit <http://www.alexandriava.gov/EarthDay>.

Join your friends and neighbors in making Alexandria an [Eco-City!](#)

[Build Your Own Rain Barrel Workshop – Register Now!](#)

Saturday, May 3 from 9 – 11 a.m.
Nannie J. Lee Recreation Center, 1108 Jefferson Street

Are you interested in living green and protecting the Chesapeake Bay? The City of Alexandria's Department of Transportation and Environmental Services (T&ES), [Office of Environmental Quality](#), in partnership with other agencies working as the [Northern Virginia Rain Barrel Program](#) partners, invites residents to learn about water quality issues and build a rain barrel to take home after the workshop.

Classes fill up fast and registration is required, visit [Northern Virginia Rain Barrel Program website](#) for more information.

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Jeremy Hassan

From: Alexandria eNews <eNews_1LAI@enews.alexandriava.gov>
Sent: Friday, May 09, 2014 4:11 PM
To: eNews Subscribers
Subject: Eco-City Alexandria Get Involved!



[Volunteer for the 2014 Holmes Run Fall Cleanup](#)

Saturday, May 10, 10 am – 1 pm
Holmes Run Park, 301 N. Pickett St.

Volunteer to cleanup Holmes Run Saturday, May 10. Volunteers will meet at Beatley Bridge in Holmes Run Park, located at the intersection of North Pickett Street and Holmes Run Parkway. Garbage bags will be provided. Please bring your own work gloves, boots, and other gear that might help during the cleanup. Rain date is Saturday, May 17.

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Northern Virginia Clean Water Partners

2014 Summary

WORKING TOGETHER FOR HEALTHY STREAMS AND RIVERS

Polluted stormwater runoff is the number one cause of poor water quality in streams and rivers in Northern Virginia. As stormwater runs off city streets, suburban yards and parking lots, it picks up pesticides and fertilizer from lawns, bacteria from pet waste, as well as petroleum and oil from driveways and parking lots. Don't forget about the sediment from construction sites or the litter and cigarette butts from the sidewalk.

To reduce the impacts of stormwater pollution, the Northern Virginia Clean Water Partners aims to change human behaviors in our cities and neighborhoods through a public awareness and education campaign.

The Northern Virginia Clean Water Partners is comprised of a multi-disciplined group of local governments, drinking water and sanitation authorities, and individual businesses working together to address the common issues surrounding pollution prevention, stormwater management, and source water protection. "Only Rain Down the Storm Drain" is the motto of the partnership.

The primary goal of the partnership is to reduce stormwater-related pollution from entering local waterways.

To meet this goal, the Partners work together to:

-  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; and
-  Pilot new cost-effective opportunities for public outreach and education.

Members include stormwater program managers, Municipal Separate Storm Sewer System (MS4) Permit managers, communication directors, public information officers, water quality compliance specialists, and environmental planners.

Membership is voluntary and each member pays annual dues to fund the program. The partnership provides a cost-effective means to meet mandatory state and federal stormwater requirements. By working together the partners are able to leverage their available funds to develop and place bilingual educational products with common

messages and themes, thereby extending their individual reach.

Regional Stormwater Education Campaign

The Annual Regional Stormwater Education Campaign was initiated in 2003 to assist localities in leveraging funds to achieve common goals regarding stormwater education and outreach and promote consistent messages for high priority water quality issues.

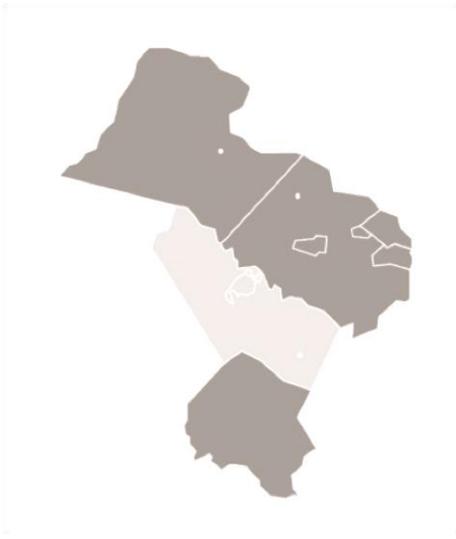
The 2014 campaign satisfied MS4 (Municipal Separate Storm Sewer System) Phase I and Phase II permit requirements for stormwater education and documenting changes in behavior.

For more information visit www.onlyrain.org



About the Partnership

The Northern Virginia Clean Water Partners is open to any water and sewer district, municipal government agency or school system in and around Northern Virginia.



2014 Northern Virginia Clean Water Partners

Fairfax County | Arlington County | Loudoun County | Stafford County | Fairfax Water | City of Alexandria | Loudoun Water | City of Fairfax | Town of Herndon | City of Falls Church | Town of Leesburg | Town of Vienna | Town of Dumfries | Doody Calls | Northern Virginia Regional Commission | Virginia Coastal Zone Management Program | George Mason University | Fairfax County Public Schools | Arlington County Public Schools | Northern Virginia Community College



2014 Campaign Overview

In 2014, the Northern Virginia Clean Water Partners used television, print, internet advertising and the Only Rain Down the Storm Drain website to distribute messages linked to specific stormwater problems, such as proper pet waste disposal, over fertilization of lawns and gardens and proper disposal of motor oil. In addition to the multi-channel media campaign, educational events hosted throughout the Northern Virginia region also raised awareness and encouraged positive behavior change in residents. The television and internet ads featured the well known national symbol of non-point source pollution; the rubber ducky.



Throughout the campaign year, the Partners made the following efforts to educate the public and promote awareness of stormwater pollution:

- From January 2014 through July 2014, four Public Service Announcements featuring messages on the importance of picking up pet waste and general household stormwater pollution reduction measures aired on twelve popular cable TV channels, including three Spanish speaking channels a total of 3,502 times.



2014 Accomplishments

- The campaign also featured banner ads on the Xfinity.com website that promote the same messages as the cable TV ads.
- The internet banner ads resulted in over 300 click thrus to the www.onlyrain.org website.



- Conducted an online poll survey of 500 Northern Virginia residents to determine the effectiveness of the ads, to reveal any changes in behavior, and to aid in directing the future efforts of the campaign.



- Distributed 10,000 pet waste bag dispensers at various community events to promote awareness of proper disposal of pet waste.
- Renovated and updated the Northern Virginia Clean Water Partners website. ▶

3,193,924	Total household television impressions*
527,863	Total internet banner ad impressions*
10,000	Dog waste bag dispensers distributed at community events
3,502	Number of times the ads aired on television from January – July 2014
300	Visits to the www.onlyrain.org website
500	Online Annual Survey Responses

**Impressions are the number of times an ad appeared on a single television or computer screen.*





Main cause of water pollution...

For the fourth year in a row, the majority of survey respondents stated fertilizers and pesticides as the number one cause of pollution in local streams, the Potomac River and Chesapeake Bay.



Where stormwater goes...

Over 90 percent of Northern Virginia residents surveyed stated that stormwater goes to the Potomac River, the Chesapeake Bay, or to local streams and rivers.



93%

Stated the actions of individuals are important in protecting water quality in local streams, the Potomac River, and the Chesapeake Bay is important.



70%

Would be more likely to take actions to reduce the amounts of pollutants they personally put into storm drains, after learning that polluted water runoff is the number one cause of local water pollution.



95%

Believe it is important for local governments to spend more money on protecting water quality.

Annual Survey Highlights

To assist in determining the effectiveness of the campaign at increasing awareness and changing behaviors, after each campaign year, the Partners conduct an online annual survey of 500 Northern Virginia residents.

Findings in the 2014 survey include:

-  15 percent of the respondents recalled hearing or seeing advertisements on the internet or on TV about reducing water pollution.
-  Of those who recalled the ads, seven percent state they now pick up their pet waste more often, seven percent state that they are more careful with motor oil, and 18 percent state they fertilize fewer times per year.
-  The number of respondents choosing runoff from streets and parking lots as the number one source of pollution has remained steady over the past four years.
-  42 percent of respondents knew they live in the Potomac River watershed, up from 38 percent in 2011.
-  Interestingly, 81 percent of people surveyed reported that they always pick up after their pet, as compared with 30 percent in previous surveys.
-  When shown the Only Rain Down the Storm Drain logo, over half of the respondents recognized the logo.
-  86 percent of respondents were familiar with rain barrels, and 66 percent stated they already have a rain barrel or are interested in getting one.
-  36 percent of respondents were familiar with rain gardens, with 62 percent already having a rain garden or interested in installing one.
-  More than half of the respondents (54%) prefer to receive information from online sources. Newspaper (19%) and television (17%) were the next two preferred information sources.

Understanding Behaviors

In addition to capturing responses to questions regarding the effectiveness of the campaign, this year's survey honed in on the current behaviors of Northern Virginia residents as they relate to pet waste management, lawn care, and motor oil disposal. Responses to these questions support the development of future messages and targeted promotion.

The most important reason dog owners are motivated to pick up their pet's waste is because "It's what good neighbors do". The number of respondents choosing "It causes water pollution" as the most important reason to pick up has risen from 13 percent in 2011 to 20 percent in 2014.

A third of the lawn and garden owners fertilize their lawns two or more times per year; an equal number never fertilize their lawns. Among those who fertilize once a year, 13 percent fertilize in the spring and only eight percent fertilize in the fall. This suggests that there is room to educate more residents of Northern Virginia that fertilizing in the fall is better for local waterways than fertilizing in the spring.

About half of the respondents reported using an herbicide to treat weeds in their lawn or garden.

To better understand behavior related to the application of fertilizer, three new questions about fertilizer were added to the 2013 survey. Among those who fertilize their lawn, 69 percent have never had or were not sure if their soil had been tested for fertility or pH and four-in-ten reported using a slow release N fertilizer. When asked where they get information to decide when and how much fertilizer to apply the top three most commonly selected responses were "Follow directions on the bag" (52%), followed by "Lawn service conducts the applications" (31%), and then "Eyeball it based on size of lawn" (7%).

The majority of respondents take their vehicle to a service station to change their oil (85%) or take used oil to a gas station or hazmat facility for recycling (10%). Only two percent of Northern Virginians reported storing used motor oil in their garage, placing it in the trash or dumping it down the storm drain.

Only Rain Down the Drain

www.onlyrain.org

2014 Northern Virginia Clean Water Partners

Fairfax County | Arlington County | Loudoun County | Stafford County | Fairfax Water |
City of Alexandria | Loudoun Water | City of Fairfax |
Town of Herndon | City of Falls Church | Town of Leesburg | Town of Vienna |
Town of Dumfries | Doody Calls | Northern Virginia Regional Commission | George Mason
University | Virginia Coastal Zone Management Program | Northern Virginia Community College |
Fairfax County Public Schools | Arlington County Public Schools

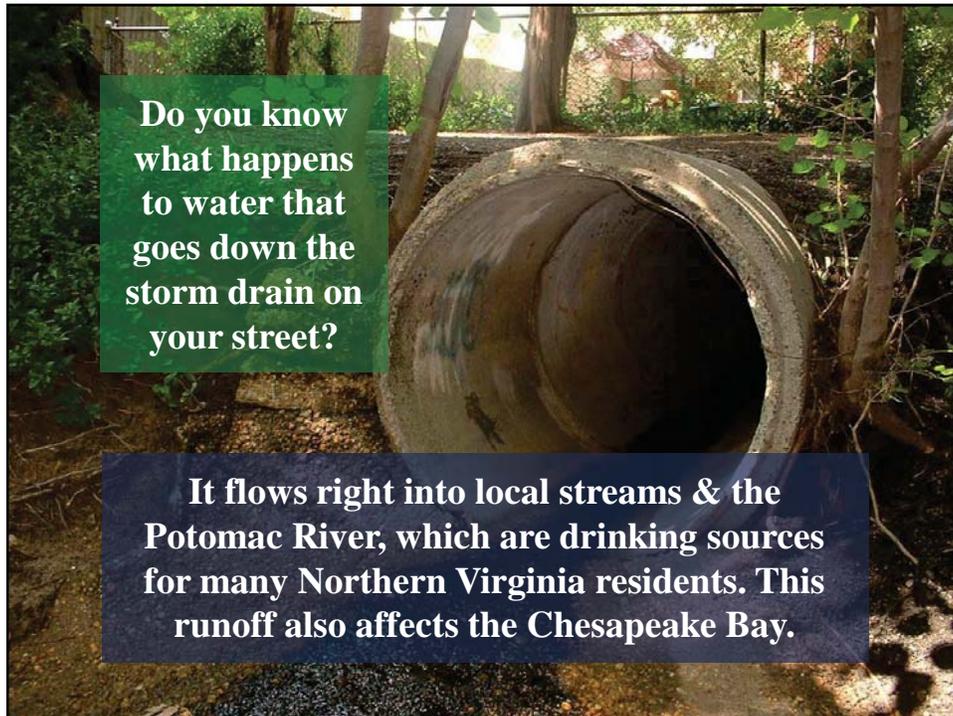


Summary prepared by NVRC on behalf of the Partners

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Fairfax, VA 22031
cmiles@novaregion.org



Channel 69 & 70 Public Service Announcement Slides



Help Prevent Water Pollution



- Properly dispose of used motor oil & hazardous household waste (paint, batteries, cleaners, etc.) through the City's S.T.O.P. program
- Avoid excess fertilizer or pesticide use, especially when rain is predicted
- Wash your car at a commercial car wash
- Sweep up dirt, grass clippings & yard waste instead of washing them down the driveway & into the gutter
- Always pick up pet waste!

For more information, call 703.746.4065
or visit alexandriava.gov/Environment



City of Alexandria, Virginia

301 King Street, Alexandria, VA 22314 ~ 703.746.4800



Boards & Commissions Meeting Schedule

well as construction debris, from contaminating the City's streams. Controlling sediment and debris at construction sites has many benefits in addition to avoiding environmental degradation. These benefits include reducing mud and litter in the street and reduction of sediment and debris in storm sewers.

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Stormwater Management

Municipal Separate Storm Sewer System (MS4) Stormwater Program Plan

Under the Virginia Stormwater Management Program (VSMP) permit regulations, the City is required to control stormwater pollution to the maximum extent practicable and to develop a pollution prevention plan – known as a Municipal Separate Storm Sewer System (MS4) Program Plan. The City's initial plan was developed in 2003, was revised in 2008 and revised again in 2014 to reflect changes to the City's latest state permit. The permit contains Six Minimum Control Measures (MCMs) listed below. The City has developed appropriate and effective Best Management Practices (BMPs) to control stormwater pollution to the maximum extent practicable. The [MS4 Program Plan](#) contains the BMPs that address the MCMs, which are discussed in some detail here.

MS4 Annual Report for 2012-2013

Also under the Virginia Stormwater Management Program (VSMP) permit regulations, the City is required to submit an annual report to the Virginia Department of Environmental Quality (DEQ). The report provides details of the BMPs the City performs as part of the MS4 Program Plan to meet or exceed the control measures (MCMs) of the MS4 Phase II General Permit. The reporting period covered by this year's annual report is from July 1, 2012 to June 30, 2013.

[Alexandria MS4 Annual Report Main Body](#)
[Alexandria MS4 Annual Report AppendixA](#)
[Alexandria MS4 Annual Report AppendixB](#)
[Alexandria MS4 Annual Report AppendixC](#)
[Alexandria MS4 Annual Report AppendixE](#)
[Alexandria MS4 Annual Report AppendixF](#)
[Alexandria MS4 Annual Report AppendixG](#)

Public Education and Outreach

The City of Alexandria strives to educate and inform the public on the importance of our local waterways, watersheds, and stormwater related issues through brochures, televised messages, and signs.

The City has put together several brochures designed to educate the public on the various ways they can help reduce the impact of pollutants to local streams and waterways.

Scrolling text messages aired on the City's government access channel (Comcast Cable channel 70) provide the public with useful tips and key actions that will help reduce the impact of pollutants and protect local waterways.

Signs have been placed throughout the City along roadways at major stream crossings to inform the public on the names of local streams and their associated watershed. Additional signs placed in public parks adjacent to City streams encourage "no dumping" of litter and debris. The City also hopes to bring attention to the Spanish speaking community on the importance of our local streams and how they can be protected. Bilingual "No Dumping" signs have been placed in various areas of the City to educate both the English and Spanish speaking public that it is not acceptable to dump litter, debris, or wastes into the local streams.

A similar bilingual message is included on [Storm Drain Markers](#) placed on inlets and storm drains throughout the City to prevent the dumping of trash, oil, dog waste, etc into the drain.

City staff is also available for presentations and other educational outreach opportunities for school age children and/or adults. If you are interested in stormwater education and outreach opportunities call 703.746.4127.



Public Involvement and Participation

You can make a difference in the condition of local streams and waterways by reducing pollution, getting involved in local events and organizations, and reporting pollution problems or concerns. Most stormwater flows into our streams with little or no treatment to remove pollutants. Therefore, prevention of pollution is critical to the improvement of water quality in our streams. There are simple steps you can take around your home or business that will have a positive impact on the health of the waterways in Alexandria.

Your involvement is the key to a successful stormwater management program. There are many ways citizens can get involved:

- [Four Mile Run Restoration Project](#)
- [Household Hazardous Waste and Electronics Recycling](#)
- Stream Cleanups (Sign up for [Environmental News](#) for the latest events)
- Participate in [Earth Day](#)

Environmental Quality

Page updated Jun 26, 2014 3:40 PM

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The Office of Environmental Quality (OEQ) administers the City's air, water, and noise improvement programs, which help preserve and protect the environment and public health and welfare. [More...](#)

Stay informed with eNews! - Receive information about programs, special events, community meetings, current Eco-City Alexandria events, and more. [Subscribe to eNews](#) category T&ES Environmental News.

Upcoming Events

- Environmental Policy Comm - Work Session**
Mon Aug 11, 2014 7:30 PM - 9:00 PM
Scheduled Work Session.
Location: City Hall, Room 2000, 301 King St.
Contact: Khoa Tran, 703.746.4066
- Volunteer to Clean Up Four Mile Run Park**
Sun Sep 7, 2014 10:00 AM - 12:00 PM
Volunteer to participate in the Ocean Conservancy's 29th Annual International Coastal Cleanup; which has been coordinated by Clean Virginia Waterways (CVW) for the last 19 years. Come join others for this annual statewide event to clean our waterways & collect valuable data about trash & litter in our waterways. We will be cleaning Four Mile Run Park ...
Location: Mt. Vernon Ave at Four Mile Run
Contact: Rod Simmons, Rod.Simmons@alexandriava.gov
- Volunteer to Clean Up FMR / Hume Springs Park**
Sun Sep 7, 2014 1:00 PM - 3:00 PM
Volunteer to participate in the Ocean Conservancy's 29th Annual International Coastal Cleanup, which has been coordinated by Clean Virginia Waterways (CVW) for the last 19 years. Come join others for this annual statewide event to clean our waterways & collect valuable data about trash & litter in our waterways. We will be cleaning Four Mile Run Park ...
Location: Hume Springs Park
Contact: Rod Simmons, Rod.Simmons@alexandriava.gov
- Volunteer to Clean Up the Potomac River Waterfront**
Sat Sep 20, 2014 9:00 AM - 11:00 AM
Volunteer to participate in the Ocean Conservancy's 29th Annual International Coastal Cleanup; which has been coordinated by Clean Virginia Waterways (CVW) for the last 19 years. Come join others for this annual statewide event to clean our waterways & collect valuable data about trash & litter in our waterways. We will be cleaning Oronoco Bay Park ...
Location: Oronoco Bay Park, 100 Madison St.
Contact: Jeremy Hassan, jeremy.hassan@alexandriava.gov, 703.746.4127

 [Import or Subscribe?](#) • [Import these events](#) • [Subscribe with Outlook, Apple iCal, etc.](#) • [Subscribe: iCal Feed](#) • [Subscribe with Google Calendar](#)

What is New?

- Virginia Stormwater Management Program (VSMP) and Construction General Permits**
In accordance with the new Virginia Stormwater Management Program (VSMP) Regulations, effective on July 1, 2014, the City of Alexandria will administer construction general permits for discharges of stormwater from local construction activities. For more information on how to obtain a construction general permit, please see [Memo to Industry 08-14](#), visit the [Water Quality Regulations and Permitting webpage](#) or contact the Stormwater and Sanitary Sewer Infrastructure Division at 703-746-4014.
- Green Sidewalks - BMP Design Guidelines**

QUICK LINKS

- Environmental Quality
- Air Quality
- Noise Control
- Contaminated Lands
- Watershed Management
- GenOn Power Plant
- News & Events
- Forms & Publications
- Related Links
- Environmental Policy Commission
- Transportation & Environmental Services
- Eco-City Alexandria
- Eco-City Alexandria Challenge
- Green Building Resource Center
- CRS and National Flood Insurance Program
- Stormwater Infiltration and Inflow Program

HOW DO I...

- Find neighborhood parks?
- Start a small business?
- Learn about new development?
- Pay my taxes or parking citation?
- Report fraud, waste and abuse?
- Speak at a City Council meeting?
- Apply for a marriage license?
- Find information for retired City employees?
- Get information about permits?
- Search property and sales data?

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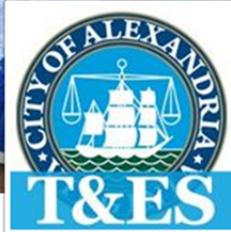
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Transportation & Environmental Services, City of Alexandria, Virginia

Government Organization

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187 likes
6 visits

ABOUT >

This is an official Facebook page for the City of Alexandria government (www.alexandriava.gov). We encourage comments, but we may remove personal attacks,...

READ MORE

<http://alexandriava.gov/TES>

PHOTOS >



Transportation & Environmental Services, City of Alexandria, Virginia shared a link.
August 5 · Edited

FYI:: City Begins Nighttime Street Resurfacing

Work continues on the Fiscal Year 2015 Asphalt Resurfacing Program, which began on July 14th. To date a total of 8 streets on the resurfacing list have been completed.

In an effort to minimi... See More



Maintenance Division