

Appendix D5 – Management Programs (Public Education)

Date	Group	Event	Location	Hours	Number Reached	Category
FY25	Facebook	Post and Events	Harford County	Countless	Countless	Misc.
FY25	Watershed Stewards and Outreach Partners	Monthly Bulletin	Email	Countless	50	Misc.
FY25	Public	Pollution Hotspot Inspections	Harford County	65	65 Businesses	Misc.
Memorial Day 2024 through Labor Day 2025	Public	Summer Adventure	Harford County	Countless	Countless	Public Outreach Events
10/30/2024	Fallston MS	Construction Field Walk	Fallston MS/HS	4	50	School Activities
10/31/2024	Fallston MS	Construction Field Walk	Fallston MS/HS	2	30	School Activities
11/13/2024	Fallston MS	Construction Field Walk	Fallston MS/HS	4	50	School Activities
11/14/2024	Fallston MS	Construction Field Walk	Fallston MS/HS	2	30	School Activities
4/12/2025	Public	Chosen CDC Community Garden	Aberdeen	5	25	Public Outreach Events
4/13/2025	Public	Environmental Advisory Board	Harford County	2	12	Misc.
4/18/2025	Public	Harford County Arbor Day	Chapel Road Park, Havre de Grace	3	150	Public Outreach Events
4/19/2025	Public	Earth Day	Aberdeen	8	125	Public Outreach Events
5/14/2025	Swan Creek School	Stream Naming	Swan Creek Elementary	10	30	School Activities
5/28/2025	Fallston CAB	CAB Meeting	Chenowith Center	2	20	Misc.
6/7/2025	Public	Wade In	Anita C. Leight Estuary Center	5		Public Outreach Events
6/17/2025	Public	Summer Kick Off Block Party	Edgewood Elementary School	3	200	Public Outreach Events
7/20/2024 - 7/27/2024	Public	Harford County Farm Fair	Harford County Equestrian Center	Countless	Countless	Public Outreach Events

Harford Streams Summer Adventure 2024

Watershed Protection and Restoration continued our “Harford Streams Summer Adventure” program for 2024, to raise awareness and support for protecting Harford County’s waterways and to encourage residents to explore the natural beauty of the County’s streams. Registered participants were invited to take selfies and write a short comment about something they did, learned, or observed at designated stream locations and upload them using an online survey.

This year, 478 adventurers qualified for a free T-shirt, and 30 furry friends qualified for a bandana.

Those who visited at least 11 locations qualified for a drawing to win their choice of a live animal encounter and campfire with smores for 12 at Eden Mill Nature Center OR a family membership to Ladew Gardens. The Elliott family of Bel Air were the winners, and they chose the family membership to Ladew Gardens as their prize.

The grand prize drawing choices were a 3-night stay at serene camping with creek views OR a kayak trip for 12 at Anita C. Leight Estuary Center for visitors who visited at least 15 locations. The winner was the Alvira family, also from Bel Air, and they chose the 3-night stay at serene camping with creek views.

Website

A web page was created at bit.ly/HSSummerAdventure for the program which included links for:

- Online Survey for uploading photos
- Interactive Dashboard for viewing photos
- Interactive Web Map for viewing locations
- Frequently Asked Questions
- Comments/Questions
- Drawing prizes

Apps

An online [survey](#) was created for uploading photos, entering locations and describing actions.

An online dashboard was created for [viewing photos](#).

An online web map was created for [viewing locations](#).

Advertising

Flyers, palm cards, or banners were distributed to numerous locations throughout the county or displayed on or through their social media. Locations included Harford County Libraries, Harford County Public Schools, various Harford County Government Organizations or Agencies, and various businesses.

On May 24, 2024, Harford County issued a Press Release laying out the details of the Summer Adventure program

Results

Harford Streams Summer Adventure 2024.

*Only one entry per Families/Groups is used for the drawings.

Number of *Families/Groups	192
Number of T-Shirts Earned (7 site visits or more)	478
Number of Dog Bandanas Earned (7 site visits or more)	30
Number of Water Bottles Earned (25 site visits or more)	70
Number of *Families/Groups Entered into the Drawing for 11 site visits or more	48
Number of *Families/Groups Entered into the Drawing for 15 site visits or more	32
Number of *Families/Groups Who Visited 25 locations or more	23

Locations

Waterway	Groups Visited	Waterway	Groups Visited
Alice & William Longley Park	69	Jerusalem Mill Village	90
Anita C. Leight Estuary Center	90	Little Gunpowder Falls Trail from Bel Air Rd	66
Benjamin's Bridge Canoe/Kayak Launch	77	Mariner Point Park	89
Concord Point Lighthouse	99	North Park Loop Trail (Joe K's trail)	75
Conowingo Dam	74	Rockfield Park	83
Dublin Dell Park	77	Rocks State Park - Wilson's Picnic Area	58
Eden Mill Nature Center	79	Susquehanna State Park - Quaker Bottom Rd	63
Forest Greens Park	48	Choose your own Waterway #1	107
Forest Hill Recreation Complex	69	Choose your own Waterway #2	68
Foster Branch Stream Restoration	50	Choose your own Waterway #3	43
Friends Community Park (Not Pond)	59	Choose your own Waterway #4	34
Guyton Rd Parking Lot (Hillbilly Beach)	59	Choose your own Waterway #5	30
Harford Glen Environmental Education Center	60		

This year's drawing winners:

The Elliott family chose a family membership to Ladew Gardens.



The Alvira family chose a 3-night stay at serene camping with creek views.



On September 26, 2024, County Executive, Bob Cassilly offered his thanks and congratulations.

On September 26, 2024, Harford County issued a Press Release congratulating the winners from the drawings.



Photo caption: Harford County Executive Bob Cassilly, center, and Laura Coste from the Harford County Watershed Protection & Restoration Office, left center, congratulate this year's Harford Streams Summer Adventure prize winners. Alberto and Lilibet Alvira of Bel Air, left, and the Elliott family of Bel Air—parents, Bethany and Brad, and their children Nolan, Flynn, and Rosie.



ROBERT G. CASSILLY

Harford County Executive

FOR IMMEDIATE RELEASE

May 24, 2024

For more information, contact:

Joe Cluster, Chief of Executive Staff
410-638-4118
jcluster@harfordcountymd.gov

Picture Yourself in Harford Streams Summer Adventure: Visit Harford Streams, Send in Selfies, Win Prizes

BEL AIR, Md., (May 24, 2024) - This summer, explore the natural beauty of Harford County streams, take selfies at your favorite locations, and win prizes in the Harford Streams Summer Adventure. This award-winning program from the Harford County Department of Public Works' Office of Watershed Protection and Restoration raises awareness and support for protecting natural resources by encouraging visitors to scenic local waterways.

County residents and non-residents of all ages along with your furry friends are welcome to join in the program which runs from Memorial Day through Labor Day.

“Some of my fondest childhood memories are of time spent on Harford’s waterways, like canoeing Deer Creek,” County Executive Bob Cassilly said. “I encourage participation in the 2024 Harford Streams Summer Adventure to raise awareness of the need to protect Harford’s many treasured waterways for generations to come.”

No registration, simply choose places to visit from the list of Harford stream locations or pick one of your own. Use the Harford Streams’ online app to send in selfies from seven different locations to earn a free Harford Streams Summer Adventure T-shirt. Participating furry friends will receive a dog bandanna. New this year, visit all 20 locations plus 5 of your own to receive a bonus prize.

Visit 11 locations for a chance to win your choice of a live animal encounter and campfire with smores for 12 at Eden Mill Nature Center or a family membership to Ladew Gardens. Visit 15 locations for a chance to win a 3 night stay at serene camping with creek views or a kayak trip for 12 at Anita C. Leight Estuary Center.

Visit the county website today at bit.ly/HSSummerAdventure or scan the QR code to view/ download a complete list of Harford stream locations with helpful information and an interactive map, then start uploading selfies with a stream in the background to earn your T-shirt/ bandana, bonus prize, and to qualify for a chance at larger prizes.

Share your adventures on social media using the hashtag #HarfordStreams and follow the fun on Facebook at Harford Streams.

Free T-shirt and dog bandana for Harford Streams Summer Adventure participants who visit seven different stream locations provided with up to 5 of your own.

 Like us on Facebook <https://www.facebook.com/HarfordCountyMD> | 

 Follow us on Twitter [@HarfordCountyMD](https://twitter.com/HarfordCountyMD)

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2024

Harford Streams SUMMER ADVENTURE



VISIT HARFORD
STREAMS



TAKE
SELFIES



WIN PRIZES!



 **FUN FOR ALL AGES!**
MEMORIAL DAY THROUGH LABOR DAY

Visit
7 Locations

To receive a FREE Summer Adventure T-shirt (and dog bandana)

11 Locations

To enter a drawing for your choice of a campfire & animal encounter at Eden Mill **OR** a family membership to Ladew Gardens

15 Locations

To enter a drawing for your choice of
a kayak trip for 12 at Anita C. Leight Estuary Center
OR a 3-night stay at Serene Camping

BONUS PRIZE - visit all 20 locations PLUS 5 of your own

No registration required!

1. Visit Harford County streams below
2. Take a selfie with a stream in the background
3. Upload your photos by Labor Day to bit.ly/HSSummerAdventure



Scan me
for more info

Summer Adventure locations:

Alice & William Longley Park
Anita C. Leight Estuary Center
Benjamin's Bridge Canoe/Kayak Launch
Concord Point Lighthouse
Conowingo Dam
Dublin Dell Park
Eden Mill Nature Center
Forest Greens Park
Forest Hill Recreation Complex
Foster Branch Stream Restoration
Friends Community Park (the stream, not the pond)
Guyton Road Parking Lot (Hillbilly Beach)
Harford Glen Environmental Education Center
Jerusalem Mill Village
Little Gunpowder Falls Trail from Bel Air Road
Mariner Point Park
North Park Loop Trail (Joe K's trail)
Rockfield Park
Rocks State Park (Wilson's picnic area)
Susquehanna State Park - Quaker Bottom Road

Or choose up to 5 locations of your own!

Questions? 410.638.3217 x2448



HARFORD COUNTY

PUBLIC WORKS

Bob Cassilly, County Executive
Joseph Siemek, Director

Follow us & check
out your selfies!



Harford Streams

2024

Harford Streams SUMMER ADVENTURE

 **FUN FOR ALL AGES! MEMORIAL DAY TO LABOR DAY**



Visit

7 Locations

To receive a FREE Summer Adventure T-shirt (and dog bandana)

11 Locations

To enter a drawing for your choice of a family membership to Ladew Gardens OR a campfire & animal encounter at Eden Mill

15 Locations

To enter a drawing for your choice of a 3-night stay at Serene Camping OR a kayak trip for 12 at Anita C. Leight Estuary Center

BONUS PRIZE - visit all 20 locations PLUS 5 of your own

1 Visit Harford County streams

2 Take a selfie with a stream in the background

3 Upload your photos to bit.ly/HSSummerAdventure

Scan me
for more info:



Follow us & check out your selfies!

 Harford Streams



Questions?

410.638.3217 x2448

Bob Cassilly, County Executive
Joseph Siemek, Director



ROBERT G. CASSILLY

Harford County Executive

FOR IMMEDIATE RELEASE

September 26, 2024

For more information, contact:

Matt Button
Public Information Officer
410-638-3538
mbbutton@harfordcountymd.gov

Harford Streams Summer Adventure 2024 Prize Winners Announced

BEL AIR, Md. (Sept. 26, 2024) - The ninth annual Harford Streams Summer Adventure had another successful year with 478 adventurers qualifying for a free T-shirt and 30 furry friends qualifying for a bandana. The popular initiative helps to raise awareness and support for protecting Harford County's natural waterways.

Developed by Harford County government's Watershed Protection and Restoration Office, this award-winning program encourages citizens of all ages to take selfies at various locations and write a brief comment about their experiences to earn T-shirts and be eligible for other prizes. An online survey allowed participants to easily upload photos and submit their comments.

This year's grand prize drawing choices for participants who visited at least 15 locations were a three-night stay at serene camping with creek views or a kayak trip for 12 at Anita C. Leight Estuary Center. The grand prize winner was the Alvira family from Bel Air, who chose the three-night stay at serene camping with creek views.

Those who visited at least 11 locations qualified for a drawing to win their choice of a live animal encounter and campfire with smores for 12 at Eden Mill Nature Center or a family membership to Ladew Gardens. This year's winners were the Elliott family of Bel Air who chose the family membership to Ladew Gardens as their prize.

"I would like to congratulate this year's prize winners and extend thanks to the hundreds of participants who ventured out to explore the many outdoor places throughout our beautiful county," County Executive Bob Cassilly said. "This program continues to help build support for protecting Harford County's treasured waterways."



Photo caption: Harford County Executive Bob Cassilly, center, and Laura Coste from the Harford County Watershed Protection & Restoration Office, left center, congratulate this year's Harford Streams Summer Adventure prize winners. Alberto and Lilibet Alvira of Bel Air, left, and the Elliott family of Bel Air—parents, Bethany and Brad, and their children Nolan, Flynn, and Rosie.

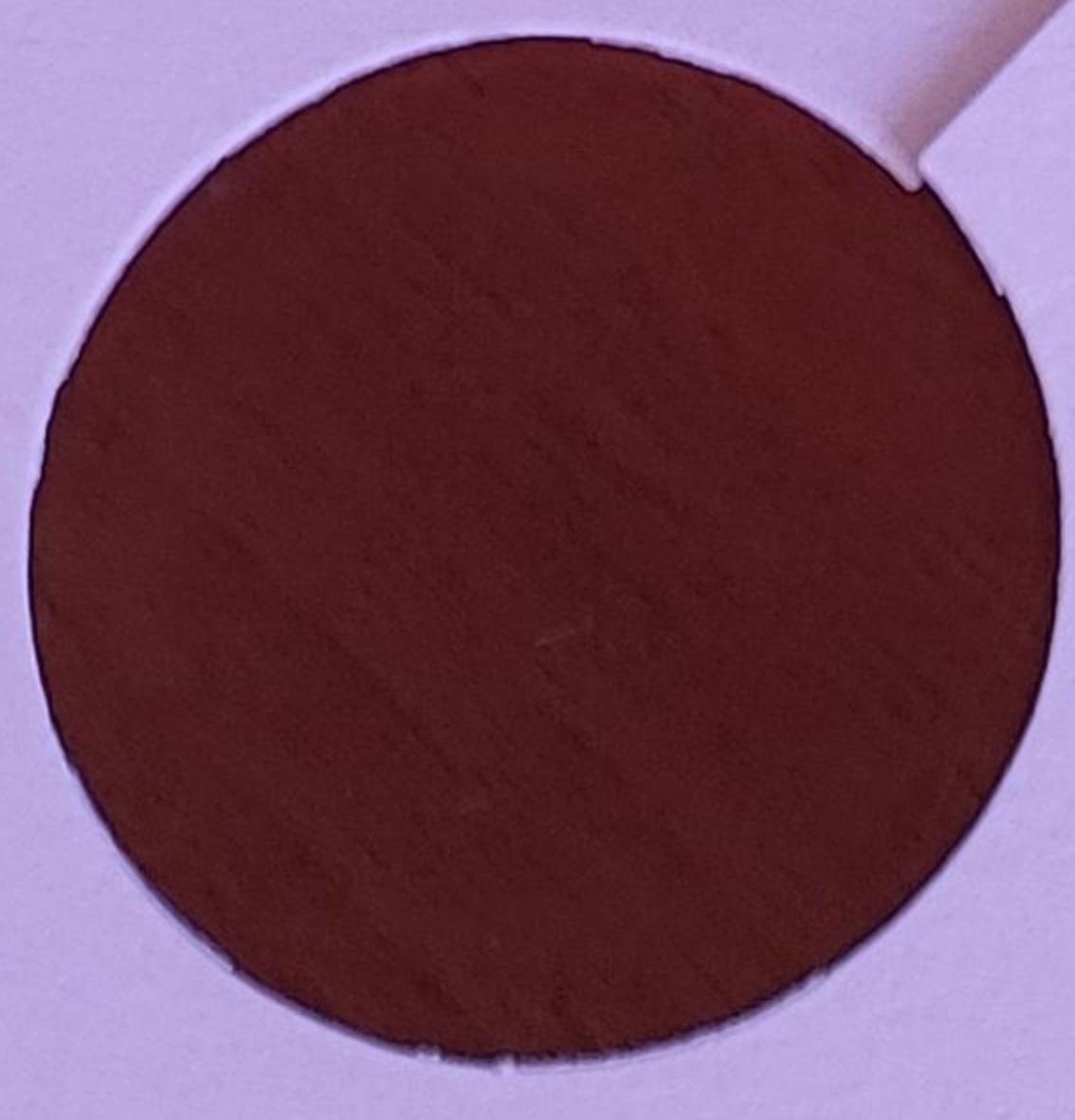
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-  Follow us on Twitter [@HarfordCountyMD](https://twitter.com/HarfordCountyMD)

Harford County Celebrates 250 Years ~ 1773-2023

410.638.3350 | 410.879.2000 | 220 South Main Street, Bel Air, Maryland 21014 | www.harfordcountymd.gov

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Watershed Protection & Restoration



HARFORD
STREAMS
Green Choices. Healthy Streams.



HARFORD COUNTY
Robert G. Cassilly, County Executive





Harford Streams

Watershed Protection and Restoration





WSA

HARFORD COUNTY

**HARFORD
STREAMS**
Green
Choices.
Healthy
Streams.

HARFORD COUNTY
Robert G. Cawley, County Executive

UNIVERSITY OF
MARYLAND
EXTENSION

Sea Grant
MARYLAND





Alpha Kappa Alpha Sorority, Incorporated®
Xi Delta Omega Chapter



Help us revitalize the community garden and create a beautiful, sustainable space for everyone to enjoy.

GARDEN OPENING

Join Enhance Our Environment
in partnership with
CHOSEN Development CDC



12 April 2025



10 am - 12 pm



100 E. Bel Air Ave.
Aberdeen, MD 21001



For more information:
akaxidetlaomega@gmail.com

Deidre Sumpter, President
Abigail Roddie-Hamlin, Vice President

Angela M. Armstead-Foye, Chairman
Kim L. Davis, Co-Chairman

Chosen CDC Community Garden Opening



Harford County Arbor Day











WSA
Warford Stream Watershed Stewards Academy
Class 2022 - 03



Earth Day

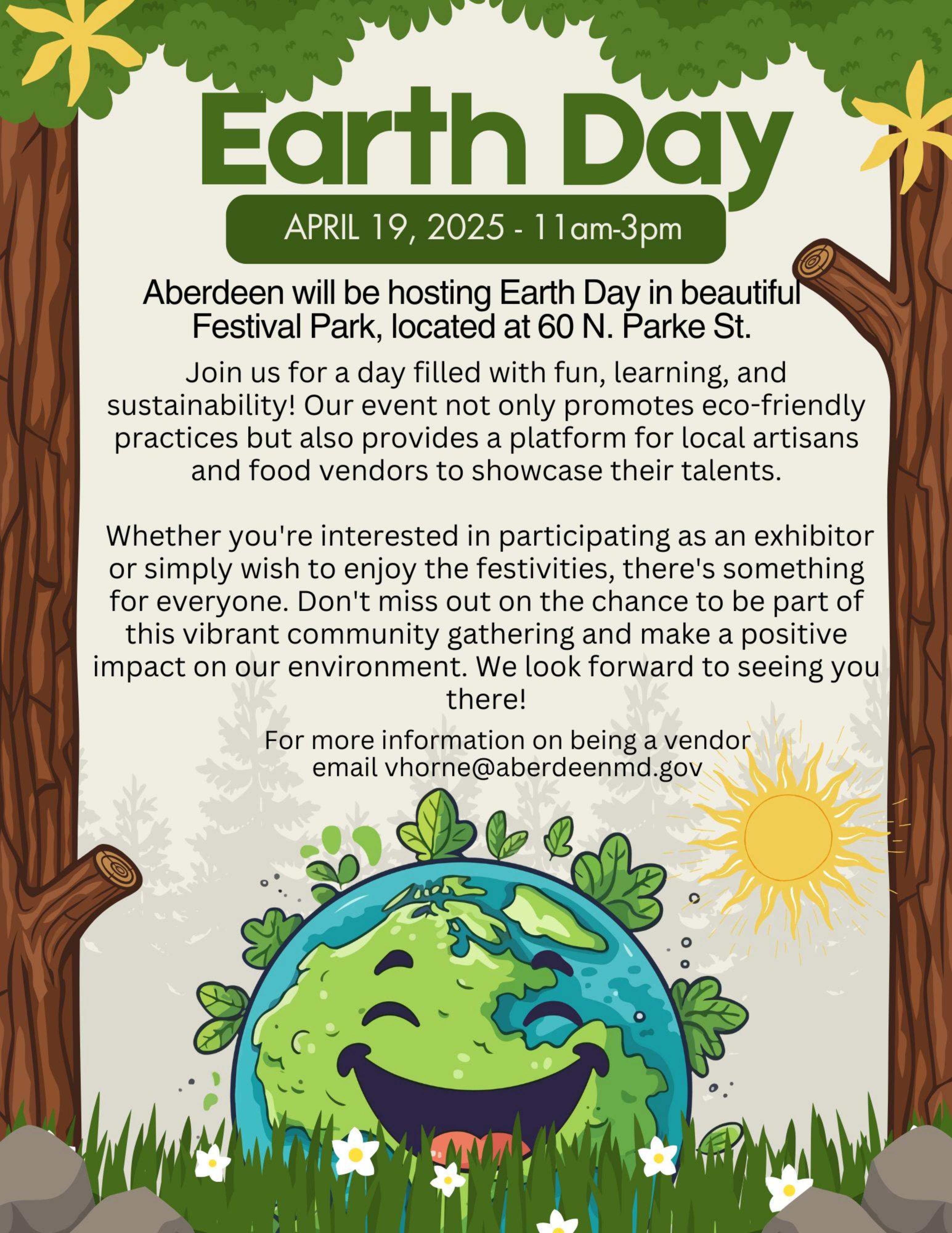
APRIL 19, 2025 - 11am-3pm

Aberdeen will be hosting Earth Day in beautiful Festival Park, located at 60 N. Parke St.

Join us for a day filled with fun, learning, and sustainability! Our event not only promotes eco-friendly practices but also provides a platform for local artisans and food vendors to showcase their talents.

Whether you're interested in participating as an exhibitor or simply wish to enjoy the festivities, there's something for everyone. Don't miss out on the chance to be part of this vibrant community gathering and make a positive impact on our environment. We look forward to seeing you there!

For more information on being a vendor
email vhorne@aberdeenmd.gov





Ecoscapes, LLC

An Environmental-Composting
Landscaping and Horticulture Service
434-254-1111

TO PLANT A
GARDEN
IS TO BELIEVE IN
tomorrow

WSA
Water, Soil, Air
Conservation
Association

Angie

BE
FRIENDLY

Wade into Summer Festival

Games!

Exhibitors!

Canoeing!

Live Animals!

Food!

And More!

Sat. June 7th from 1 pm to 4 pm

Free Admission!



Anita C. Leight Wade In







Summer Kick Off Block Party



EDGWOOD
ELEMENTARY SCHOOL



Fallston Middle School Science Students Construction Walk





Harford Streams - Green Choices. Healthy Streams.

2.3K followers • 33 following



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[Edit](#)

[Advertise](#)

Followers 1

Lifetime

2,297

Age & gender 1

30%

20%

10%

0%

18-24

25-34

35-44

45-54

55-64

65+

Women
73.8%

Men
26.2%



Date	Total Reach	Organic	Paid
1-Jul	271	271	0
2-Jul	413	413	0
3-Jul	134	134	0
4-Jul	412	412	0
5-Jul	134	134	0
6-Jul	134	134	0
7-Jul	134	134	0
8-Jul	302	302	0
9-Jul	134	134	0
10-Jul	68	68	0
11-Jul	134	134	0
12-Jul	302	302	0
13-Jul	134	134	0
14-Jul	134	134	0
15-Jul	591	591	0
16-Jul	134	134	0
17-Jul	92	92	0
18-Jul	134	134	0
19-Jul	228	228	0
20-Jul	134	134	0
21-Jul	134	134	0
22-Jul	265	265	0
23-Jul	697	697	0
24-Jul	83	83	0
25-Jul	134	134	0
26-Jul	706	706	0
27-Jul	134	134	0
28-Jul	134	134	0
29-Jul	233	233	0
30-Jul	134	134	0
31-Jul	96	96	0
1-Aug	134	134	0
2-Aug	228	228	0
3-Aug	134	134	0
4-Aug	134	134	0
5-Aug	155	155	0
6-Aug	134	134	0
7-Aug	74	74	0
8-Aug	134	134	0
9-Aug	276	276	0
10-Aug	134	134	0
11-Aug	134	134	0
12-Aug	940	940	0
13-Aug	134	134	0
14-Aug	152	152	0
15-Aug	134	134	0
16-Aug	361	361	0
17-Aug	134	134	0
18-Aug	134	134	0
19-Aug	671	671	0
20-Aug	134	134	0
21-Aug	91	91	0
22-Aug	134	134	0
23-Aug	469	469	0
24-Aug	134	134	0
25-Aug	134	134	0
26-Aug	136	136	0
27-Aug	134	134	0
28-Aug	78	78	0
29-Aug	134	134	0
30-Aug	264	264	0
31-Aug	134	134	0
1-Sep	134	134	0
2-Sep	134	134	0
3-Sep	155	155	0
4-Sep	134	134	0
5-Sep	73	73	0
6-Sep	651	651	0
7-Sep	134	134	0
8-Sep	134	134	0
9-Sep	134	134	0
10-Sep	147	147	0
11-Sep	134	134	0
12-Sep	1823	1823	0
13-Sep	134	134	0
14-Sep	134	134	0
15-Sep	134	134	0
16-Sep	134	134	0
17-Sep	185	185	0
18-Sep	63	63	0
19-Sep	134	134	0
20-Sep	49	49	0
21-Sep	134	134	0
22-Sep	134	134	0
23-Sep	109	109	0
24-Sep	134	134	0
25-Sep	134	134	0
26-Sep	156	156	0
27-Sep	62	62	0
28-Sep	134	134	0
29-Sep	134	134	0
30-Sep	164	164	0
19259			

Date	Total Reach	Organic	Paid
1-Oct	179	179	0
2-Oct	61	61	0
3-Oct	953	953	0
4-Oct	6237	6237	0
5-Oct	814	814	0
6-Oct	473	473	0
7-Oct	493	493	0
8-Oct	174	174	0
9-Oct	38	38	0
10-Oct	94	94	0
11-Oct	71	71	0
12-Oct	41	41	0
13-Oct	96	96	0
14-Oct	292	292	0
15-Oct	180	180	0
16-Oct	82	82	0
17-Oct	139	139	0
18-Oct	55	55	0
19-Oct	32	32	0
20-Oct	38	38	0
21-Oct	178	178	0
22-Oct	152	152	0
23-Oct	44	44	0
24-Oct	105	105	0
25-Oct	896	896	0
26-Oct	162	162	0
27-Oct	98	98	0
28-Oct	392	392	0
29-Oct	64	64	0
30-Oct	86	86	0
31-Oct	52	52	0
1-Nov	49	49	0
2-Nov	22	22	0
3-Nov	27	27	0
4-Nov	579	579	0
5-Nov	134	134	0
6-Nov	33	33	0
7-Nov	112	112	0
8-Nov	21	21	0
9-Nov	16	16	0
10-Nov	22	22	0
11-Nov	23	23	0
12-Nov	78	78	0
13-Nov	99	99	0
14-Nov	347	347	0
15-Nov	135	135	0
16-Nov	42	42	0
17-Nov	24	24	0
18-Nov	149	149	0
19-Nov	79	79	0
20-Nov	73	73	0
21-Nov	129	129	0
22-Nov	109	109	0
23-Nov	70	70	0
24-Nov	59	59	0
25-Nov	281	281	0
26-Nov	78	78	0
27-Nov	63	63	0
28-Nov	67	67	0
29-Nov	21	21	0
30-Nov	17	17	0
1-Dec	12	12	0
2-Dec	52	52	0
3-Dec	164	164	0
4-Dec	154	154	0
5-Dec	160	160	0
6-Dec	81	81	0
7-Dec	43	43	0
8-Dec	15	15	0
9-Dec	139	139	0
10-Dec	59	59	0
11-Dec	11	11	0
12-Dec	56	56	0
13-Dec	70	70	0
14-Dec	72	72	0
15-Dec	85	85	0
16-Dec	37	37	0
17-Dec	145	145	0
18-Dec	97	97	0
19-Dec	40	40	0
20-Dec	86	86	0
21-Dec	43	43	0
22-Dec	30	30	0
23-Dec	8	8	0
24-Dec	10	10	0
25-Dec	49	49	0
26-Dec	23	23	0
27-Dec	86	86	0
28-Dec	31	31	0
29-Dec	17	17	0
30-Dec	49	49	0
31-Dec	23	23	0
17676			

Date	Total Reach	Organic	Paid
1-Jan	58	58	0
2-Jan	35	35	0
3-Jan	35	35	0
4-Jan	9	9	0
5-Jan	15	15	0
6-Jan	119	119	0
7-Jan	21	21	0
8-Jan	87	87	0
9-Jan	23	23	0
10-Jan	62	62	0
11-Jan	36	36	0
12-Jan	17	17	0
13-Jan	74	74	0
14-Jan	28	28	0
15-Jan	85	85	0
16-Jan	35	35	0
17-Jan	64	64	0
18-Jan	29	29	0
19-Jan	17	17	0
20-Jan	15	15	0
21-Jan	82	82	0
22-Jan	45	45	0
23-Jan	62	62	0
24-Jan	58	58	0
25-Jan	11	11	0
26-Jan	4	4	0
27-Jan	40	40	0
28-Jan	36	36	0
29-Jan	174	174	0
30-Jan	145	145	0
31-Jan	45	45	0
1-Feb	25	25	0
2-Feb	22	22	0
3-Feb	14	14	0
4-Feb	134	134	0
5-Feb	28	28	0
6-Feb	127	127	0
7-Feb	23	23	0
8-Feb	46	46	0
9-Feb	12	12	0
10-Feb	72	72	0
11-Feb	108	108	0
12-Feb	177	177	0
13-Feb	82	82	0
14-Feb	27	27	0
15-Feb	12	12	0
16-Feb	31	31	0
17-Feb	42	42	0
18-Feb	43	43	0
19-Feb	16	16	0
20-Feb	82	82	0
21-Feb	203	203	0
22-Feb	47	47	0
23-Feb	34	34	0
24-Feb	31	31	0
25-Feb	73	73	0
26-Feb	18	18	0
27-Feb	171	171	0
28-Feb	118	118	0
1-Mar	191	191	0
2-Mar	48	48	0
3-Mar	19	19	0
4-Mar	154	154	0
5-Mar	113	113	0
6-Mar	129	129	0
7-Mar	194	194	0
8-Mar	64	64	0
9-Mar	43	43	0
10-Mar	103	103	0
11-Mar	64	64	0
12-Mar	20	20	0
13-Mar	97	97	0
14-Mar	24	24	0
15-Mar	10	10	0
16-Mar	24	24	0
17-Mar	214	214	0
18-Mar	84	84	0
19-Mar	129	129	0
20-Mar	42	42	0
21-Mar	122	122	0
22-Mar	52	52	0
23-Mar	26	26	0
24-Mar	133	133	0
25-Mar	31	31	0
26-Mar	38	38	0
27-Mar	43	43	0
28-Mar	35	35	0
29-Mar	20	20	0
30-Mar	17	17	0
31-Mar	231	231	0
5898			

Date	Total Reach	Organic	Paid
1-Apr	175	175	0
2-Apr	37	37	0
3-Apr	102	102	0
4-Apr	492	492	0
5-Apr	34	34	0
6-Apr	32	32	0
7-Apr	120	120	0
8-Apr	32	32	0
9-Apr	22	22	0
10-Apr	93	93	0
11-Apr	60	60	0
12-Apr	28	28	0
13-Apr	34	34	0
14-Apr	29	29	0
15-Apr	28	28	0
16-Apr	19	19	0
17-Apr	46	46	0
18-Apr	39	39	0
19-Apr	15	15	0
20-Apr	46	46	0
21-Apr	33	33	0
22-Apr	87	87	0
23-Apr	82	82	0
24-Apr	114	114	0
25-Apr	79	79	0
26-Apr	27	27	0
27-Apr	75	75	0
28-Apr	135	135	0
29-Apr	39	39	0
30-Apr	26	26	0
1-May	99	99	0
2-May	116	116	0
3-May	25	25	0
4-May	16	16	0
5-May	10	10	0
6-May	140	140	0
7-May	55	55	

Post Message	Post Time	Type	Total Impressions	Organic Impressions
* Shout out to some of our Summer Adventure participants that explored one of our favorite locations - Forest Greens Park! * Happy Exploring! 😊 Harford County Government	7/1/2024 19:01	Videos	271	271
NEW this year! Visit all 20 Summer Adventure locations provided plus 5 of your own to earn this bonus prize..... 🎉 a 22oz Thor Copper Vacuum Insulated Bottle in your choice of navy or light blue! 🎉 Everyone is eligible, even county employees and family members. Prizes will be distributed at the County and colors will be distributed on a first come first serve basis!	7/2/2024 9:00	Photos	413	413
Happy Exploring this holiday weekend! 😊 Harford County Government				
☀️ Happy 4th of July from your friends at Harford Streams!☀️ We hope everyone has a safe and happy weekend! 😊 Harford County Government Photo source: https://www.istockphoto.com/vector/happy-4th-of-july-independence-day-usa-handwritten-phrase-with-stars-and-firework-gm1250088434-364491554	7/4/2024 7:00	Photos	142	142
* Shout out to some of our Summer Adventure participants that explored one of our favorite locations - Conowingo Dam! * Happy Exploring! 😊 Harford County Government	7/8/2024 7:00	Videos	302	302
A historic milestone was reached on June 23, when the first swimming event since the 1980s took place in Baltimore Harbor! 😊 Harford County Government	7/10/2024 9:00	Links	68	68
* Looking for a great Summer Adventure location to explore this weekend?! * Look no further than Jerusalem Mill Village! 😊 Harford County Government	7/12/2024 11:00	Videos	302	302

UPDATE: Everything is working properly now. We're sorry for the inconvenience. Summer Adventure 2024 We are currently experiencing technical issues with our application. Please continue your Summer Adventures. You can still access the locations web map and the locations PDF. You do not need to be at the location to upload your selfies. You can do that at any time from your phone or computer. We will update you as soon as we resolve the issue. Thank you for your patience. Harford County Government	7/15/2024 4:38	Text	224	224
* Shout out to some of our Summer Adventure participants that explored one of our favorite locations - Mariner Point Park! * Happy Exploring! 😊 Harford County Government	7/15/2024 19:00	Videos	367	367
How do scientists use monitoring and modeling tools to paint a picture of the Chesapeake Bay? 😊 Check out this great video to learn! 😊	7/17/2024 9:00	Links	92	92
Harford County Government				
* Looking for a great Summer Adventure location to explore this weekend?! * Look no further than Benjamin's Bridge Canoe/Kayak Launch! 😊 Harford County Government	7/19/2024 11:00	Videos	228	228
😊 We hope everyone is having a great time at the Harford County Farm Fair! 😊 Be sure to come learn about Summer Adventure and the Watershed Stewards Academy! Monday, July 22 thru Friday, July 26 - 5 - 7 PM Saturday, July 27 - 2 - 6 PM	7/22/2024 6:20	Photos	265	265
Harford County Government				
😊 Huge shout out to -Jennifer.e.ro- for being the first explorers to visit 25 Summer Adventure locations! AND being the first to earn this year's water bottle bonus prize! Congratulations! 😊 Harford County Government	7/23/2024 9:18	Videos	697	697
😊 Many native flowers, and about 30% of U.S. crops, rely on native bees like the sweat bee for pollination! 😊 Sweat bees are some of the only bees that can buzz-pollinate! 😊 Many flowering plants require buzz pollination to release pollen for reproduction, which means that insects like the sweat bee are critical for their survival. 😊 With all of their unique traits and behaviors, sweat bees play a critical role in the health of the Chesapeake Bay watershed!	7/24/2024 11:00	Links	83	83
Harford County Government				
Shout out to these Summer Adventure participants that have been visiting our beautiful waterways to cool off this warm July! 😊 Harford County Government	7/26/2024 9:01	Videos	265	265
Applications for the upcoming WSA class are due Sunday, July 28th.	7/26/2024 11:41	Videos	81	81

☀️Shout out to these Summer Adventure participants that visited some of our favorite locations last week!☀️ Keep it up! 😊 Harford County Government	7/29/2024 7:00	Videos	233	233
Happy National Moth Week! 🦋 Harford County Government	7/31/2024 9:10	Photos	96	96
☀️ Looking for a great Summer Adventure location to explore this weekend?!☀️ Look no further than Harford Glen Environmental Education Center! 😊 Harford County Government	8/2/2024 9:00	Videos	228	228
☀️Shout out to these Summer Adventure participants that visited some of our favorite locations last week!☀️ Keep it up! 😊 Harford County Government	8/5/2024 9:00	Videos	155	155
✿ Check out these great tips and tricks for August gardening! ✿ Harford County Government	8/7/2024 11:00	Links	74	74
☀️Happy Friday!☀️ 🕒 Looking for something fun to do this weekend? Join these Summer Adventure friends and visit Alice and William Longley Park! 🏠 Harford County Government	8/9/2024 7:00	Photos	276	276
☀️Shout out to these Summer Adventure participants that visited some of our favorite locations last weekend!☀️ Keep it up! 😊 Harford County Government	8/12/2024 9:01	Videos	940	940
✿ Visit the Anita C Leight Estuary Center and see if you can spot any of these important creatures! ✿ Harford County Government	8/14/2024 7:00	Photos	152	152
☀️Happy Friday!☀️ 🕒 Looking for something fun to do this weekend? Join these Summer Adventure friends and visit Forest Hill Recreation Complex! 🏠 Harford County Government	8/16/2024 11:00	Photos	361	361
☀️Shout out to these Summer Adventure participants that visited some of our favorite locations last week!☀️ Keep it up! 😊 Harford County Government	8/19/2024 7:00	Videos	671	671
Ever heard of the Bloodroot plant? ✿ Native to the Chesapeake Bay watershed, this plant blooms from March to April ✿ Inside of the bloodroot is a reddish-orange sap that indigenous communities in eastern North America have used as a natural dye for clothing and baskets, as well as face paint! ✿ As a native plant, bloodroot is often preferred by local pollinators and has deeper roots soaking up more runoff, which keeps our waterways clean! Harford County Government	8/21/2024 9:00	Links	91	91
☀️Happy Friday!☀️ 🕒 Looking for something fun to do this weekend? Join these Summer Adventure friends and visit the Foster Branch Stream Restoration! 🏠 Harford County Government	8/23/2024 11:00	Photos	384	384
	8/23/2024 11:52	Photos	85	85

<p>🐶 Happy National Dog Day! 🐶</p> <p>Shout out to all of our furry friends that have participated in Summer Adventure this year! 😊</p> <p>Harford County Government</p>	8/26/2024 7:00	Videos	136	136
<p>Harford County Government is seeking qualified, experienced candidates to join the Watershed Protection and Restoration Office within the Department of Public Works.</p> <p>See the link for more information and to apply!</p> <p>Harford County Government</p>	8/28/2024 11:00	Links	78	78
<p>*Happy Friday!*</p> <p>👉 Looking for something fun to do this weekend? Join these Summer Adventure friends and visit the Friend's Community Park (Not Pond)! 🌸</p> <p>Harford County Government</p>	8/30/2024 9:00	Photos	264	264
<p>🌟 Summer Adventure 2024 is officially over! Shout out to these Summer Adventure participants that explored some of our favorite locations this Labor Day Weekend! 🌟</p> <p>Harford County Government</p>	9/3/2024 6:50	Videos	155	155
<p>🍂 The end of summer does not mean the end of colorful landscapes! Check out these natives that provide us with beautiful fall colors! 🍂</p> <p>🍂 Aster 🍂 Boltonia 🍂 "Flowering" cabbage and kale 🍂 Goldenrod 🍂 Joe Pye weed</p> <p>Harford County Government</p>	9/5/2024 11:00	Links	73	73
<p>👉 Congratulations to @bethany.ann.ellio! 🎉</p> <p>Winners of the 2024 Summer Adventure family membership to Ladew Gardens!</p> <p>Check out this video of some of the places they explored this summer!</p> <p>Harford County Government</p>	9/6/2024 13:13	Videos	236	236
<p>👉 Congratulations to @kadhij! 🎉</p> <p>Winners of the 2024 Summer Adventure 3-night stay at serene camping with creek views!</p> <p>Check out this video of some of the places they explored this summer!</p> <p>Harford County Government</p>	9/6/2024 13:31	Videos	415	415

<p>🍂 Fall is right around the corner! 🍂</p> <p>Fall is a good time to enhance your garden's potential and protect the habitat of native species. Check out these great fall landscaping tips!</p> <p>https://www.harfordcountymd.gov/3425/Fall</p> <p>Harford County Government</p>	9/10/2024 6:37	Photos	147	147
<p>🦋 It is time for the Monarchs' Fall Migration! 🦋</p> <p>Every year during the Fall Migration (September - November), these butterflies fly in masses from northern climates, through the Chesapeake Bay watershed, to Mexico for the winter!</p> <p>Learn more about this amazing one to three thousand mile migration:</p> <p>https://monarchwatch.org/migration/</p> <p>Harford County Government</p>	9/12/2024 11:00	Photos	1823	1823
<p>↳ Have you spotted a Ruby-throated hummingbird (<i>Archilochus colubris</i>)? ↳</p> <p>↳ These natives are iridescent green with white bellies!</p> <p>↳ Their name refers to the brilliant reddish-orange coloring on the throat of males during the breeding season!</p> <p>↳ These natives can be found in open woodlands, forest edges, meadows, grasslands, and in suburban parks, gardens, and backyards!</p> <p>↳ Ruby-throated hummingbirds are naturally attracted to red and orange tubular-shaped flowers such as bee balm, cardinal flower, jewelweed, trumpet creeper, trumpet honeysuckle, and red buckeye!</p> <p>This native will be traveling to Mexico and Central America for the winter so keep your eyes peeled before they take off!</p> <p>Harford County Government</p> <p>https://dnr.maryland.gov/wildlife/Pages/plants_wildlife/Ruby-throated_Hummingbird.aspx#:~:text=In%20Maryland%2C%20ruby%2Dthroated%20hummingbirds,nest%20and%20raise%20the%20young.</p>	9/17/2024 7:00	Photos	185	185
<p>♻️ It is National Pollution Prevention Week! ♻️</p> <p>Let's keep working together toward P2!</p> <p>Harford County Government</p> <p>National Drug Take Back Day on Saturday October 26, 2024, is a safe, responsible way to remove expired, unwanted, or unused medicines, especially controlled substances, from your possession or home. See the flyer below for more information.</p>	9/18/2024 13:13	Photos	63	63
<p>📅 March your calendars! 📅</p> <p>Harford County Government</p>	9/23/2024 6:15	Photos	109	109
<p>🍂 Happy Fall! 🍂</p> <p>Fall is officially here and the color change is creeping across the state! Keep your eyes peeled as the first hints of fall reach Harford County soon!</p> <p>Harford County Government</p>	9/26/2024 9:55	Photos	156	156

Everyone knows the Black-eyed susan (Rudbeckia hirta), Maryland's native flower! ☀️ But did you know that it blooms from June - October? That's right, there is still time to see this favorite native in action! Harford County Government Learn more about the Black-eyed susan here: Congrats to our Summer Adventure 2024 Prize Winners! 🎉 And thank you to everyone who participated this year!	9/27/2024 11:00	Links	62	62
It's that time of year - time to drain your swimming pool! 🎉 There are thousands of pools in Maryland which contribute to water pollution each year, so it is important to understand how to drain your pool while protecting the environment! If you're a pool owner, be sure to read Maryland Dept. Of The Environment Swimming Pool Owner Guidance! https://mde.maryland.gov/programs/permits/WaterManagementPermits/Documents/GDP%20-Swimming%20Pools/MD_Swimming_Pool_Guidance.pdf Harford County Government	9/30/2024 6:03	Photos	164	164
📍 The Fallston Middle and High Schools Stream Restoration project is set to begin in-stream construction in mid-October! 🚧 📍 The purpose of this project is to improve water quality and stream health by stabilizing eroding stream banks and reconnecting the stream to its floodplain! 📍 The design is intended to improve 🌿 🚧 🌿 aquatic habitat 🌿 🚧 🌿 and reduce the amount of sediment and nutrients that enter Elbow Brook and ultimately the Chesapeake Bay! For more information on this project, visit: https://bit.ly/FallstonSchoolsStreamRestoration Harford County Government	10/1/2024 7:00	Photos	108	108
Wow 🎉 We love our native great blue herons, the largest herons in North America! Harford County Government	10/3/2024 11:00	Photos	5670	5670
⚠️ Did you know that sailors in the 1600s detailed the challenges of navigating mountains of oyster reefs during Chesapeake Bay explorations?! ⚠️ ⚠️ It's true! Oysters used to flourish in abundance in Bay waters and they are the bedrock of the Chesapeake Bay! Oysters provide critical habitat for hundreds of species and have the miraculous ability to filter water and improve Bay health just by existing. Read this article to learn more about the benefits of Oyster restoration! 🐚 Harford County Government	10/7/2024 7:50	Photos	157	157
Happy Indigenous Peoples' Day! Let's recognize the contributions of the traditional owners of the Chesapeake Bay lands. Explore this map to learn more! https://experience.arcgis.com/experience/f81faecc67a744358440b6685a28fde0/page/Indigenous-Lands/?fbclid=IwY2xjawF5-ApleHRuA2FlbQlxMAABHfYiDeGBEOht4FmbwvIMRv9Qy0PJ8GPkpZLocYTBhkF4eNYigXH7qREQcA_aem_Dl5hn32iKWFOVcCgQrjloA Chesapeake Bay Foundation Harford County Government	10/10/2024 11:00	Links	60	60
	10/14/2024 7:00	Photos	293	293

Beavers are a very important keystone species in the Chesapeake Bay watershed! 🐸 Learn more at this Leave it to Beavers program!	10/17/2024 11:00	Photos	106	106
https://www.facebook.com/HarfordCountyPR/posts/pfbid06has7Z4hEJVgfyhpCZh883N856e3b4WCM1vgBfhdTSYKcyTPku25gRBGe7EHA8zNI	10/21/2024 6:41	Photos	139	139
Harford County residents can drop off their expired and unwanted medications for safe disposal at five convenient locations on Saturday, October 26, 2024! This helps ensure that the medications won't fall into the wrong hands or harm the environment!	10/22/2024 7:00	Photos	92	92
Harford County Government				
♣ Did you know that fall is the best time of year to plant trees? ♣ It's true! ♣ Cooler temperatures ♫ + ♦ Fall rain ♦ = Established tree roots! Planting in the fall also gives trees an extra growing season before the stress of summer!	10/24/2024 11:00	Links	77	77
Harford County Government				
♣ Join the Maryland Tree Steward certification program and lead tree planting projects, assess potential tree planting sites, and care for existing tree canopy! ♣ Harford County Government	10/25/2024 6:20	Text	66	66
Make sure you enter your submission by Sunday evening. The drawing is on Monday. Good Luck! Hello Summer Adventure Friends! Please click on the following link, https://www.harfordcountymd.gov/FormCenter/Public-Works-6/Harford-Streams-Summer-Adventure-2024-Fe-485 and answer all the questions for a chance to win the awesome prize pack. Submissions must be received by midnight on November 3, 2024. The drawing will be held November 4, 2024 and announced here, Good Luck and thank you so much for supporting our program! ☺ Harford County Government	10/25/2024 12:05	Photos	657	657
In honor of Halloween later this week, let's learn about the spookiest dragonfly native to Maryland: 🦋 the Halloween pennant (<i>Celithemis eponina</i>) 🦋! 🦋 This native's wings are entirely orange-yellow in color with dark brown bands. 🦋 The Halloween pennant breeds at ponds and lakes with emergent vegetation, which they often perch on. 🦋 This native dragonfly can be spotted all throughout eastern North America!	10/28/2024 11:00	Photos	81	81
Harford County Government https://www.marylandbiodiversity.com/species/715				

🎃👻 Happy Halloween from your friends at Harford Streams! 🎃👻	10/31/2024 7:00	Photos	52	52
Harford County Government Photo Source: https://www.pinterest.com/pin/91690542405634397/				
♻️ Be sure to join in the fun of this America Recycles Day event! Promote and celebrate recycling in Harford County! ♻️	11/4/2024 5:58	Photos	65	65
Harford County Government				
🎉 Congratulations to the winner of our Summer Adventure Prize Pack - Kaitlyn Royston! 🎉	11/4/2024 11:11	Photos	347	347
Harford County Government				
November is Native American Heritage Month! This month, let's learn more about the Native American History in the Chesapeake Bay region: https://www.cbf.org/events/webinars/american-indian-tribes-of-virginia-and-the-chesapeake-bay.html?fbclid=IwY2xjawGVs2FleHRuA2FlbQlxMAABHRRb9h7DG-aaNZq1KG91882NDFLqs1SOlhZiq1CtYYCw2Ev8tlwqNvsJA_aem_l8mrsqLP4cgMosriholzxw	11/7/2024 11:00	Photos	86	86
Harford County Government				
Have you ever spotted an Eastern whip-poor-will?	11/12/2024 7:00	Links	39	39
👉 It is quite difficult considering this nocturnal bird spends its days sleeping on logs and branches near the forest floor and is perfectly camouflaged by its mottled brown and gray colors!				
👉 But by night, the bird comes alive! Right around dusk the bird's whip-poor-will call can be heard echoing across the forest!				
👉 When not singing, the whip-poor-will spends its night foraging for food. The bird eats insects only, especially flying insects like moths, beetles and mosquitoes!				
Harford County Government				
🎃 Check out these great ideas for recycling your pumpkins this year! 🎃	11/14/2024 11:00	Photos	98	98
Harford County Government				
Great to see these students exploring the existing degraded stream and newly restored channels at Fallston Middle and High School! A great firsthand experience of how these improvements will enhance the stream's health!	11/14/2024 12:06	Photos	253	253
♻️ Don't forget about this great America Recycles Day event! ♻️	11/15/2024 9:00	Photos	63	63
Harford County Government				
Harford County Government	11/18/2024 5:04	Photos	100	100
👉 Consider keeping your leaves on your lawn this fall! 🍂	11/19/2024 7:00	Photos	55	55
Harford County Government				
Come join us!				
Harford County Government is seeking qualified, experienced candidates to join the Watershed Protection and Restoration Office within the Department of Public Works.	11/21/2024 7:00	Links	128	128
Applications close on December 4th!				
Harford County Government				

Brook trout—a colorful fish native to the eastern U.S.—faces severe threats throughout the Chesapeake Bay watershed such as pollution, deforestation and climate change. But in the headwaters of the Potomac River, the species is seeing a resurgence! 🐟	11/21/2024 11:00	Links	52	52
Harford County Government				
Check out all of the benefits from 🌲 leaving the leaves 🍂!	11/25/2024 5:08	Photos	139	139
Harford County Government	11/25/2024 7:00	Photos	116	116
Harford County Government	11/28/2024 9:00	Photos	52	52
⚠ Happy National Christmas Light Day! ⚠				
If you have broken or unused string lights be sure to dispose of them responsibly!	12/2/2024 5:49	Videos	80	80
Harford County Government				
Check out the amazing stream restoration and stormwater project under construction at Fallston Middle and High Schools!	12/3/2024 13:18	Photos	135	135
There is still time! Apply now! Applications close on December 11th!	12/4/2024 11:45	Links	53	53
Take a Break, Don't Rake!	12/5/2024 12:00	Photos	111	111
Harford County Government				
Winter weather is here so let's remember to Salt Smart this year! Too much salt can contaminate drinking water, endanger wildlife, and increase soil erosion!	12/9/2024 7:00	Photos	100	100
Harford County Government				
Mulch while you mow!	12/12/2024 11:00	Photos	106	106
Harford County Government				
⚠ Did you know that before being cut, real Christmas trees absorb air pollutants and remove carbon dioxide and emit fresh oxygen? These trees are important to water quality, stabilize soil and reduce erosion, reducing polluted runoff by filtering and absorbing pollutants that would otherwise flow into local rivers and streams! ⚠ 🎄	12/17/2024 7:00	Links	92	92
Harford County Government				
○ 🌟 Tomorrow is the winter solstice, when the path of the sun is the farthest south in the sky! Tomorrow the sun will travel its shortest path all year, making it the shortest day and longest night! 🌟 ○	12/20/2024 11:00	Photos	114	114
Harford County Government				
Happy Holidays from your friends at Harford Streams!	12/25/2024 7:00	Photos	69	69
Harford County Government				
⚠ What a great use of our Christmas trees! ⚠	12/27/2024 11:00	Photos	94	94
Harford County Government				
Can you name the 7 habitats found in the Chesapeake Bay watershed?				
There are...				
⚠ Forests ⚠				
⚠ Streams and Rivers ⚠				
⚠ Shallow Waters ⚠				
⚠ Beaches and Tidal Flats ⚠				
⚠ Aquatic Reefs ⚠				
⚠ Wetlands ⚠				
⚠ Open Waters ⚠	12/30/2024 11:00	Links	57	57
Harford County Government				

✿ Happy New Year! ✿ Harford County Government	1/1/2025 9:00	Photos	65	65
♻ Check out this great way to recycle leftover holiday cards! ♻ Harford County Government	1/6/2025 7:11	Photos	98	98
✿ Did you know that in the Chesapeake Bay watershed, the Cardinal is the state bird of both Virginia and West Virginia? ✿ ✿ The northern cardinal is a small, red songbird that lives in gardens, backyards and wooded areas throughout the Chesapeake Bay watershed! ✿ Male cardinals are brilliant red with a black face, while females are brownish-gray with a reddish crest, wings and tail. ✿ These birds are named after Catholic cardinals, who wear bright red robes!	1/8/2025 11:00	Links	73	73
Check out this link to learn more about cardinals and hear their calls! Harford County Government				
Still not sure what resolution to make for the New Year? Check out these great ideas! Harford County Government	1/10/2025 9:00	Photos	58	58
✿ Be sure to look outside tonight for the first full moon of the year! ✿ Harford County Government	1/13/2025 6:18	Photos	61	61
Let's remember the importance of these winter habitats for our native birds!	1/15/2025 9:00	Photos	92	92
✿ Have you ever wondered what the difference is between frogs and toads? ✿ Maybe you've heard the saying "all toads are frogs, but not all frogs are toads" ✿ Skin Moisture - Frogs have thin skin and a layer of mucus making them feel slimy, while toads have dry, thick skin ✿ Toads are often found in dryer terrestrial habitats than frogs because their thicker skin helps to retain water While there are some differences, both amphibians are indicator species, which means that their health reflects their habitats' health! Harford County Government	1/17/2025 11:00	Links	68	68
The Chesapeake has many diverse natural and historic sites! ○ No matter the designation, there's plenty of places to get outside in watershed ○ Check out this link to learn about the differences between National Parks, National Monuments, National Historic Sites, National Historical Parks, National Memorials, National Battlefields, National Trails, National Forests, National Marine Sanctuaries, and National Wildlife Refuges! Harford County Government	1/21/2025 9:00	Links	67	67

<p>With the snow on the ground, now is a great time to look for wildlife tracks while enjoying the outdoors! 🐾</p> <p>Check out this guide that can help distinguish between the tracks of a:</p> <ul style="list-style-type: none"> Red Fox Raccoon Opossum Cottontail Rabbit Beaver Turkey <p>And more!</p> <p>Harford County Government</p>	1/23/2025 11:00	Links	89	89
<p>Have you heard of the Golden-winged warbler? 🎶</p> <p>This is a gray bird with vibrant yellow flashes</p> <p>It can be found in the Chesapeake Bay region as it migrates between breeding grounds in the northern U.S. and overwintering grounds in Central and South America</p> <p>This species thrives in areas that have a mix of open ground, shrubs and young trees</p> <p>However, this type of habitat is frequently disrupted by development, logging and invasive plant species</p> <p>Because of threats, golden-winged warblers numbers have declined nearly 70% in the past 50 years!</p> <p>Across the country, conservationists are focused on preserving the golden-winged warbler's habitat! Learn more by reading this article!</p> <p>Harford County Government</p>	1/28/2025 9:00	Links	49	49
<p>We are working hard to enhance local water quality!</p> <p>Recycling steel cans reduces carbon dioxide emissions by 80% compared to making steel from raw materials! 🌎</p> <p>Harford County Government</p>	1/29/2025 15:40	Photos	229	229
<p>Woody plants are essential for wildlife. In the winter, evergreen plants can provide much-needed shelter and food for local animals! 🌲</p> <p>Consider adding Inkberry (<i>Ilex glabra</i>) to your backyard landscape to provide for local wildlife!</p> <p>This short-statured shrub typically grows 5-8 feet tall</p> <p>In the winter, it sports dark black berries that take a few freezes and thaws before they become palatable to birds!</p> <p>Harford County Government https://news.maryland.gov/dnr/2020/01/01/winter-greens-for-wildlife/</p>	1/30/2025 11:00	Photos	57	57
<p>The barn owl (<i>Tyto alba</i>) is a medium-sized raptor with a large, heart-shaped face found throughout the Chesapeake region! 🦉</p> <p>Barn owls hunt at night and eat mostly small mammals like voles, rats, rabbits and shrews</p> <p>The barn owl's ability to hunt by sound is one of the most accurate of any animal!</p> <p>Barn owls can fly almost silently!</p> <p>Barn owls communicate through chirps, snores, hissing and a distinctive gargling scream - they do not hoot!</p> <p>Harford County Government</p>	2/4/2025 9:00	Photos	140	140
	2/6/2025 11:00	Links	81	81

<p>Woody plants are essential for wildlife. In the winter, evergreen plants can provide much-needed shelter and food for local animals! 🌲</p> <p>Consider adding American Holly (<i>Ilex opaca</i>) to your backyard landscape to provide for local wildlife !</p> <ul style="list-style-type: none"> American holly sports spiny, evergreen leaves and can reach heights up to 30 feet In the winter, female plants can be seen with bright red berries that take a couple of freezes to become palatable to passing birds! The dense foliage is often a great roost site for birds in winter, particularly when snow covers it! 	2/11/2025 9:00	Photos	91	91
<p>Harford County Government https://news.maryland.gov/dnr/2020/01/01/winter-greens-for-wildlife/</p>				
<p>Be sure to check out Harford County Office of Recycling for the best recycling info Valentines Day and every day! 🌻</p>	2/13/2025 11:00	Photos	114	114
<p>Harford County Government</p>				
<p>If you've ever heard pecking on trees and seen a flash of red, chances are you spotted the red-bellied woodpecker foraging for its next meal! 🐦</p> <p>Unlike its name suggests, this bird's body is mostly pale white, with a black-and-white patterned back and red flashes only visible on the head and neck</p> <p>Unlike many other bird species in the watershed, red-bellied woodpeckers are not migratory!</p> <p>These birds prepare for winter by drilling into tree bark, extracting seeds and nuts and then storing them inside crevices to eat later in the season!</p>	2/18/2025 9:00	Links	55	55
<p>Harford County Government</p>				
<p>Check out this post to find out where birds that leave Maryland for the winter go!</p>	2/20/2025 11:00	Photos	59	59
<p>Harford County Government</p>				
<p>Check out our stormwater project at Mariner Point Park!</p>	2/21/2025 6:06	Photos	177	177
<p>Harford County Government</p>				
<p>Save the Date! 🌻</p>	2/25/2025 9:00	Photos	77	77
<p>Harford County Government</p>				
<p>Picking up after our 🐶 pets 🐶 is so important for 💧 water quality 💧 and public health!</p>	2/27/2025 9:00	Photos	270	270
<p>Thanks for the reminder Maryland Dept. Of The Environment !</p>				
<p>Harford County Government</p>				
<p>Check out our 🏫 Church Creek Elementary School Restoration Project 🏫 webpage for more ⓘ information ⓘ !</p> <p>https://www.harfordcountymd.gov/3472/Church-Creek-Elementary-School-Restoration</p>	3/4/2025 7:00	Photos	145	145
<p>Harford County Government</p>				
<p>March Mulch Madness Starts Today!</p>	3/5/2025 12:29	Photos	98	98
<p>Wetlands have so many benefits! Including:</p> <ul style="list-style-type: none"> Flood protection Water quality improvement Wildlife habitat Erosion control Recreation Biodiversity 	3/6/2025 11:00	Links	103	103
<p>Harford County Government</p>				

The Harford County Office of Recycling Compost Bin and Rain Barrel Sale has begun! Did you know that by harvesting rain water you can: <ul style="list-style-type: none">◆ Reduce erosion, flooding, and stormwater runoff◆ Help protect our local waterways◆ Improve your soil's pH balance◆ Lower your water bill	3/7/2025 6:30	Photos	159	159
Harford County Government ✿ Check out these great March Gardening Tips and Tasks! ✿	3/10/2025 13:27	Photos	117	117
Planting a native garden is important to support local biodiversity, provide food, shelter, and nutrients for pollinators and other wildlife, and so much more!				
Harford County Government ✿ The eastern monarch butterfly population nearly doubled!✿ ✿ As pollinators, monarch butterflies contribute to healthy ecosystems across North America. ✿ Every year, monarch butterflies make an extraordinary journey: at summer's end, they migrate from southern Canada and the northern United States to mountain forests in Mexico, with some traveling nearly 3,000 miles. After winter, these same butterflies fly an additional 600 miles north to the United States!	3/13/2025 7:00	Links	68	68
Harford County Government ✿ 🌻 Spring is almost here - consider planting a native garden! The landscape outside our homes has the potential to improve water quality, provide habitat for wildlife and even help combat climate change! 🌻 🌻	3/17/2025 6:14	Links	92	92
Harford County Government Come out on Saturday, April 5th to help protect our trees and preserve the forest ecosystem!	3/17/2025 6:47	Photos	128	128
Harford County Government ✿ Happy first day of spring!✿ Check out these spring actions you can take to develop a thriving native landscape: <ul style="list-style-type: none">✿ Educate yourself on common invasive plants in the area and remove any invasive species you currently have planted in your garden✿ Develop a plan for incorporating native plants into your landscape✿ Replace invasive species with native alternatives!	3/19/2025 7:00	Photos	108	108
https://www.harfordcountymd.gov/3410/Spring				
Harford County Government				

<p>Did you know that English ivy is an invasive plant that can unfortunately be found all through the Chesapeake Bay watershed?! 🌿</p> <p>Its vibrant green coloring and ability to grow quickly in various environmental conditions make it an appealing choice for homeowners but this plant can...</p> <ul style="list-style-type: none"> Damage and kill shrubs and trees Crowd out native plants Spread out of control and be difficult and costly to remove Be toxic to wildlife <p>Try planting native Alumroot, Golden ragwort, or Virginia creeper instead!</p> <p>Harford County Government</p>	3/21/2025 11:00	Links	94	94
<p>Mark your calendars for this great Earth Day Celebration! 🌎</p> <p>Harford County Government</p> <p>Did you know that trees store and filter over half of the US water supply?! Check out this great video and initiative to help ensure a cleaner, more reliable water supply for everyone!</p> <p>Harford County Government</p>	3/24/2025 7:26	Photos	85	85
<p>This week we celebrated World Water Day but it is important to always remember that we all need clean water for our survival! 💧</p> <p>Let's acknowledge the importance of water in supporting 🌱 ecosystems, as a critical component for sustaining 🌱 all living organisms 🌱 and as a necessity for:</p> <ul style="list-style-type: none"> Agriculture Food production Human health Sanitation <p>Harford County Government</p>	3/26/2025 9:00	Videos	48	48
<p>Check out this great volunteer opportunity THIS Saturday!</p> <p>Invasive vines can outcompete native plants for resources, smother trees, and weight native trees down, making them more susceptible to breaking or falling! 🌿</p> <p>Congratulations to the newest class of Watershed Stewards! 🎉</p> <p>We are so glad to have 11 more community members and leaders that are dedicated to improving the health of local streams!</p> <p>Check out this great new native tree planting! 🌳</p> <p>Harford County Government</p>	3/28/2025 7:00	Links	50	50
<p>The Chesapeake Watershed is starting to experience these first signs of Spring!</p> <ul style="list-style-type: none"> The Tundra Swans begin to leave the area and migrate back to the arctic tundra Ospreys migrate back to the region! The fragrant skunk cabbage emerges The spring peeper frog is one of the first to call and breed during the spring! Shad return to the Chesapeake Bay to spawn An unwelcome signs of spring in the Bay and its rivers is the return of algae blooms, which can block sunlight from reaching underwater bay grasses that are just starting to grow! <p>Harford County Government</p>	3/31/2025 6:17	Photos	123	123
	3/31/2025 7:00	Photos	126	126
	4/1/2025 9:00	Photos	131	131
	4/3/2025 11:00	Links	64	64

We are hiring! Come join us! ☺ Harford County Government	4/4/2025 6:25	Links	197	197
✿ If you've been looking for a way to help the Chesapeake Bay, planting native plants in your yard is a great way to make a difference! ✿ Harford County Government	4/7/2025 7:15	Links	94	94
Did you order a rain barrel or compost bin from Harford County Office of Recycling !? Don't forget! Pick up is this Saturday, April 12th from 9:00 AM - 2:00 PM at Harford Mulch and Compost Facility ! ◆ Harford Streams is asking you to PLEASE CONSIDER certifying your rain barrel installation using the form on our website! By self-reporting your rain barrel installation, you will help meet the goals of Harford County's Stormwater Management Program! ◆	4/10/2025 11:00	Links	99	99
Harford County Government				
✿ Earth Day is right around the corner, mark your calendars!!✿ Harford County Government	4/15/2025 7:00	Text	54	54
✿ The Virginia spring beauty (Claytonia virginica) is one of the first wildflowers to bloom in the Chesapeake region! ✿ ✿ This plant that begins to bloom in late February, grows 3-6 inches tall, and consists of five white petals with fine pink stripes! ✿ The spring beauty's real attraction comes from the nectar that brings many pollinators to visit! ✿ The Virginia spring beauty produces a generous amount of nectar that attracts over 20 different species of native bees and insects! ✿ This plant has also been known to be a food source by Native Americans, containing vitamins A and C!	4/17/2025 11:00	Links	69	69
Harford County Government				
✿ Today we celebrate the anniversary of the modern environmental movement. Follow along with us here at Harford Streams to learn about how you can improve your local environment every day!✿ Harford County Government	4/22/2025 7:00	Photos	77	77
✿ Join us!✿	4/23/2025 13:04	Photos	60	60
This Saturday there will be a safe collection of unused or expired medications so they may be disposed of without harm to the environment! Harford County Government	4/24/2025 11:00	Photos	86	86
A huge shout-out to these volunteers! Harford County Government	4/28/2025 5:24	Photos	118	118
✿ Spotted Lanternflies Are Hatching in Maryland! Keep your eyes peeled and report if you see them!✿ ✿ These invasives are harmful to: ✿ Forests ✿ Crops ✿ Other natural ecosystems!	5/1/2025 11:00	Photos	98	98
Harford County Government				
Be sure to tune in to this great informational session tomorrow night! Harford County Government	5/6/2025 6:00	Photos	125	125

⦿ Get ready! Summer Adventure is coming soon! ⦿				
For those who have participated in this program with us in the past - we are gearing up for another great year! Don't forget the program runs from Memorial Day through Labor Day!	5/7/2025 9:00	Links	104	104
Interested in learning more? Visit our website!				
Harford County Government				
Shout out to all of our great Master Watershed Stewards! 🎉				
Looking to get involved like Angela? Visit our website for more information! https://www.harfordcountymd.gov/2459/Watershed-Stewards-Academy	5/8/2025 11:00	Photos	102	102
Harford County Government				
⦿ Check out this great post about live stakes! 🎉				
Live stakes are important tools for planting riparian areas along our stream restorations like our project at Fallston Middle School and High Schools! https://www.harfordcountymd.gov/3014/Fallston-Middle-and-High-School-Stream-R	5/13/2025 11:00	Photos	80	80
Harford County Government				
📸 Following up with our live stakes post, check out these great landscaping photos from Fallston Middle and High Schools Stream Restoration!				
📸 https://www.harfordcountymd.gov/3014/Fallston-Middle-and-High-School-Stream-R	5/13/2025 11:30	Photos	276	276
Harford County Government				
Great news! 😊				
💧 This is a great area to visit for fun this summer and to connect families to one of our greatest natural resources! Patterned after the Chesapeake Bay watershed, the plaza is built around a hands-on water feature and includes educational and interactive panels. This area provides information and fun facts about the Chesapeake Bay Watershed and conservation practices! 💧	5/15/2025 9:00	Photos	139	139
Harford County Government				
⦿ We can't wait to see everyone start their Summer Adventure this Memorial Day weekend! 😊	5/20/2025 10:58	Photos	276	276
There is a lot of marine life in the rivers of the Chesapeake Bay! If you're lucky you might catch a glimpse of: 📸 River otters ⦿ Rays 📸 Beavers 📸 Dolphins				
But check out this article to check out the much more unusual 📸 humpback whale 🎯 breaching the surface of the Potomac River!	5/22/2025 11:00	Links	239	239
Harford County Government				
⦿ A huge shout out to all of our Summer Adventure participants that kicked off the program by visiting some great locations this weekend! 😊 Visit bit.ly/HSSummerAdventure to join the fun!	5/27/2025 7:30	Videos	1150	1150
Harford County Government				

<p>Harford Streams Summer Adventure seeks to raise awareness and support for protecting and restoring our precious natural resources by encouraging residents to visit scenic waterways throughout Harford County!</p> <p>This summer, explore the natural beauty of Harford County streams, take selfies at your favorite locations, and win prizes! 📸📸</p> <p>Start your adventure today at bit.ly/HSSummerAdventure.</p>				
Harford County Government				
<p>Looking for a fun Summer Adventure location to explore this weekend? 🌞</p> <p>Check out the Concord Point Lighthouse! Happy Exploring! 🌟</p> <p>Visit bit.ly/HSSummerAdventure to join the fun!</p>	5/30/2025 7:30	Videos	127	127
Harford County Government				
<p>Join The Harford County Running Club and Harford County Watershed Stewards Academy for a 5K Plog at Palmer State Park on Sunday, June 8th at 4pm!</p> <p>This event is great for your exercise and for the environment! 🌱🏃‍♀️</p>	6/2/2025 9:02	Photos	268	268
Harford County Government				
<p>A huge shout out these Summer Adventure participants that visited some great locations over the weekend! 🌟</p> <p>Visit bit.ly/HSSummerAdventure to join the fun!</p>	6/2/2025 12:39	Videos	142	142
Harford County Government				
<p>Looking for a fun Summer Adventure location to explore this weekend? 🌞</p> <p>Check out the Ma and Pa Heritage Trail at Liriodendron Mansion! Happy Exploring! 🌟</p> <p>Visit bit.ly/HSSummerAdventure to join the fun!</p>	6/6/2025 9:00	Videos	667	667
Harford County Government				
Nice job Emma!	6/9/2025 5:24	Photos	165	165
Harford County Government				
<p>A huge shout out these Summer Adventure participants that visited some great locations over the weekend! 🌟</p> <p>Visit bit.ly/HSSummerAdventure to join the fun!</p>	6/9/2025 11:01	Videos	111	111
Harford County Government				
Nice job ladies!	6/11/2025 6:02	Photos	118	118
Harford County Government				
<p>Happy Chesapeake Bay Awareness Week! 🌈</p> <p>This year's theme is "Bay in Your Backyard" which encourages all of us to celebrate the waters we see and use every day, while learning more about how our local rivers and streams play a significant role in keeping the Chesapeake Bay healthy! 🏠</p> <p>Learn more about Chesapeake Bay Awareness Week and events at the link below! Consider celebrating by participating in Harford County's Summer Adventure program! bit.ly/HSSummerAdventure</p>	6/11/2025 7:00	Links	84	84
Harford County Government				
<p>Looking for a fun Summer Adventure location to explore this weekend? 🌞</p> <p>Check out the Mary E. Ristau District Court Rain Garden! Happy Exploring! 🌟</p> <p>Visit bit.ly/HSSummerAdventure to join the fun!</p>	6/13/2025 11:00	Videos	121	121
Harford County Government				

Did you know that Summer Adventure is celebrating its 1 0th anniversary this year?! 🎉 Come celebrate with us by participating in this years program! Visit bit.ly/HSSummerAdventure to join the fun! Harford County Government	6/16/2025 8:00	Videos	500	500
Tomorrow kicks off the official start of summer! 😊				
☀️ 🌸 Summer is a great time to admire beautiful flowers as they bloom throughout the season and observe the birds and butterflies they attract 🌸 ☀️	6/19/2025 11:00	Links	68	68
Follow the link to learn how to make the best of your summer native landscaping! Harford County Government				
☀️ A huge shout out these Summer Adventure participants that visited some great locations over the weekend! 🌟	6/23/2025 11:01	Videos	94	94
Visit bit.ly/HSSummerAdventure to join the fun! Harford County Government				
🦋 🌸 Pollinator week 🐝 🌸 might be over but it's never too late to visit pollinator gardens throughout the County! Learn more about how these beautiful habitats of native plants provide nectar and pollen to support 🐝 bees, 🌸 butterflies, and beneficial 🐾 insects!	6/24/2025 7:11	Text		
Harford County Government				
The trout lily 🐝 bee 🐝 is a mining bee native to much of the northeastern United States that collects pollen and nectar from the trout lily flower 🌸 ! 🐝 The trout lily flower is the main source of sustenance for the bee! 🌸 The trout lily flower blooms from March to May. 🐝 Because trout lily bees are a mining species, they do not have a queen bee or a colony to serve, and they live to reproduce and pollinate the trout lily flower! 🌸 The trout lily flower is an excellent native option for gardens that take minimal care. All you have to do is sit back and watch your beautiful flowers attract the rare trout lily bee!	6/25/2025 11:01	Links	76	76
Harford County Government				
Great work Watershed Stewards! 🌟 Always 🚶 stepping up 🚶 to help improve our 🌸 local waterways 🌸 ! Interested in 🌟 learning 🌟 more about the program? Visit: https://www.harfordcountymd.gov/2459/Watershed-Stewards-Academy	6/27/2025 6:35	Photos	155	155
Harford County Government				
Looking for a fun Summer Adventure location to explore this weekend? 🌟 🌟 Check out the The Promenade in Havre De Grace (Boardwalk)! Happy Exploring! 🌟 Visit bit.ly/HSSummerAdventure to join the fun! Harford County Government	6/27/2025 7:01	Videos	121	121
🌟 A huge shout out these Summer Adventure participants that visited some great locations over the weekend! 🌟 Visit bit.ly/HSSummerAdventure to join the fun! Harford County Government	6/30/2025 9:00	Videos	86	86
		Total	32867	32867

Harford County Department of Parks & Recreation

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RECREATION DIVISION ANNUAL REPORT								
Area Reporting:	Anita C. Leight Estuary Center				Reporting Period: 7/1/24-6/30/25			
NATURE CENTER COUNCIL ACTIVITIES, SPECIAL EVENTS & MEETINGS								
Registration 1376		Participants 3140		Volunteers 195		Volunteer Hrs 858		Cost \$18,887.00
FACILITY USE TIMES								
Indoor			Number of Times Used 34	County Income \$410.00				

Harford County Department of Parks & Recreation

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ANNUAL REPORT				
Area Reporting:		Anita C. Leight Estuary Center	Reporting Period: 7/1/24-6/30/25	
NATURE CENTER COUNCIL ACTIVITIES, SPECIAL EVENTS & MEETINGS				
Activity	Registration	Participants (est.)	Vols	Vol Hrs
EVENTS				
Halloween	0	850	39	117
World Wetlands Day	0	228	18	54
Wade into Summer Festival	0	192	25	100
Chesapeake Explorers Picnic	100	0	6	18
PROGRAMMING				
Arts & Crafts	20	0	0	0
Camp	25	0	13	59
Canoe & Kayak	66	0	6	21
Environmental	945	0	12	56.5
Field Trips	168	0	4	14.5
Historic	0	0	0	0
Outreach	0	1870	34	87
Research & Monitoring	52	0	26	67
MEETINGS				
OPCA Board Meeting			12	264
VOLUNTEER HOURS (non-programming)				
VOLUNTEER TRAININGS				
TOTAL NATURE CENTER COUNCIL	1376	3140	195	858

Harford County Department of Parks and Recreation

Page 1

RECREATION DIVISION ANNUAL REPORT								
Area Reporting: Eden Mill Park				Reporting Period: 7/1/2024 - 6/30/2025				
NATURE CENTER COUNCIL ACTIVITIES, SPECIAL EVENTS & MEETINGS								
Registration 4804		Participants 2221		Volunteers 707		Volunteer Hrs 5985.5		Cost \$76,302.36
FACILITY USE TIMES								
			Number of Times Used	County Income				
			Indoor 473	\$0.00				
			Outdoor 101	\$0.00				

Harford County Department of Parks & Recreation

ANNUAL REPORT					Page 2
Area Reporting:		Reporting Period: 7/1/2024 - 6/30/2025			
NATURE CENTER COUNCIL ACTIVITIES, SPECIAL EVENTS & MEETINGS					
Activity		Registration	Participants (est.)	Vols	Vol Hrs
EVENTS					
whiteford fire department		325	1		5
Darlington fire department		298	1		5
fall fest		1498	68		345
National Trails Day		10	1		3
Spoom Day 1		25	2		16
SPOOM Day 2		25	2		16
Volunteer Appreciation		40	45		90
Bull Roast	310		25		175
PROGRAMMING					
Arts & Crafts					
Camp	571		99		496.5
Canoe & Kayak	297		139		404
Environmental	706		28		48
Field Trips	2176				
Historic	35		2		6
Outreach	330		2		4
Research & Monitoring	115		7		21
MEETINGS	199		127		176
VOLUNTEER HOURS					
(non-programming)			145		4112
VOLUNTEER TRAININGS	65		13		63
TOTAL NATURE CENTER COUNCIL	4804	2221	707		5985.5

HOUSEHOLD HAZARDOUS WASTE DAY 2024



Tuesday, August 6

8 a.m. - 12 p.m.

Harford Waste Disposal Center

Mulch & Compost Facility | 3139 Scarboro Road, Street

HARFORD COUNTY RESIDENTS ONLY

For a list of acceptable items visit: www.harfordcountymd.gov/HHW



HOUSEHOLD HAZARDOUS WASTE DAY 2024



Saturday, November 2
8 a.m. - 12 p.m.

Harford Waste Disposal Center
Mulch & Compost Facility | 3139 Scarboro Road, Street

HARFORD COUNTY RESIDENTS ONLY

For a list of acceptable items visit: www.harfordcountymd.gov/HHW

FREE on site document shredding available! Limit four boxes per vehicle.



HARFORD COUNTY
Bob Cassilly, County Executive



f @HarfordCountyRecycling
410.638.3417
harfordrecycles@menv.com

HOUSEHOLD HAZARDOUS WASTE DAY 2025



Tuesday, February 4

8 a.m. - 12 p.m.

Harford Waste Disposal Center

Mulch & Compost Facility | 3139 Scarboro Road, Street

HARFORD COUNTY RESIDENTS ONLY

For a list of acceptable items visit: www.harfordcountymd.gov/HHW



HOUSEHOLD HAZARDOUS WASTE DAY 2025



Saturday, May 10
8 a.m. - 12 p.m.

Harford Waste Disposal Center

Mulch & Compost Facility | 3139 Scarboro Road, Street

HARFORD COUNTY RESIDENTS ONLY

For a list of acceptable items visit: www.harfordcountymd.gov/HHW

FREE on site document shredding available! Limit four boxes per vehicle.



**Maryland
ENVIRONMENTAL
SERVICE**



HARFORD COUNTY

Bob Cassilly, County Executive

 [@HarfordCountyRecycling](https://www.facebook.com/HarfordCountyRecycling)
410.638.3417
harfordrecycles@menv.com

Harford County Office of Recycling Outreach Log FY 2025				
Name	Date	Number of Participants	Contact	Program Type
MAEOE Green Leader Meeting	7.8.24	20	Mary Westerfelt	Public Outreach
Mason Dixon Country	7.11.24	62	Kelly Rose	Public Outreach
BioDevco Tour	7.12.24	35	Andrew Cassilly	Tour-HWDC
Harford County Farm Fair	7.20.24	2000	Alice Archer	Public Outreach
Harford County Farm Fair	7.21.24	2000	Alice Archer	Public Outreach
Harford County Farm Fair	7.22.24	2000	Alice Archer	Public Outreach
Harford County Farm Fair	7.23.24	2000	Alice Archer	Public Outreach
Harford County Farm Fair	7.24.24	2000	Alice Archer	Public Outreach
Harford County Farm Fair	7.25.24	2000	Alice Archer	Public Outreach
Harford County Farm Fair	7.26.24	2000	Alice Archer	Public Outreach
Harford County Farm Fair	7.27.24	2000	Alice Archer	Public Outreach
Harford Glenn Environmental Center	8.8.24	5	Howard Eakes	Public Outreach
Whiteford Library	8.19.24	100	Wendy Doring	Public Outreach
Master Gardener Monthly Meeting	9.5.24	62	Joyce Brownign	Public Outreach
Harford County Equine Roundtable	10.22.24	30	Kim Doran	Public Outreach
MAEOE Committee Meeting	10.29.24	35	Mary Westerfelt	Public Outreach
Eden Mill Fall Festival	11.2.24	1500	Ronnie Greavey	Public Outreach
Master Gardener Monthly Meeting	11.7.24	80	Joyce Browning	Public Outreach
MAEOE Committee Meeting	11.13.24	35	Mary Westerfelt	Public Outreach
America Recycles Day Event- Ag Center	11.16.24	500	Wendy Doring	Public Outreach
Mason Dixon Business Association	11.20.24	100	Wendy Doring	Public Outreach
Homeschool Presentation- Havre de Grace Library	11.22.24	50	Wendy Doring	Public Outreach
Havre de Grace Oyster Festival	11.23.24	500	Wendy Doring	Public Outreach
Churchcreek Elementary School	12.3.24	500	Kristen Neal	Public Outreach
Harford County 4-H Santa Breakfast	12.7.24	500	Wendy Doring	Public Outreach
University of Maryland MG Meeting	1.2.25	100	Isabella Mooney	Public Outreach
Dublin Elementary School Green School Prep	1.7.25	5	Diane Thompson	School Presentations
Facility Tour	1.17.25	2	Isabella Mooney	Tour- HWDC
University of Maryland MG Meeting	2.6.25	100	Isabella Mooney	Public Outreach
Agronomy Meeting- University of MD AG	2.18.25	200	Andy Kness	Public Outreach
North Bend Elementary School	2.26.25	200	Greg Lane	Public Outreach
Bel Air Middle School Ecology Club	2.27.25	75	Erin Baker	Public Outreach
NEWDA Spring Social Media Training	2.28.25	30	Diana Reigart	Public Outreach
University of Maryland MG Meeting	3.6.25	100	Isabella Mooney	Public Outreach
Havre de Grace Green Team	3.12.25	100	Danielle Green	Public Outreach
Harford County Environmental Advisory Board	3.18.25	20	Jeff Schoenberger	Public Outreach
Compost Bin and Rain Barrel Pickup	4.12.25	135	Wendy Doring	Public Outreach
Hickory Elementary School Second Grade	4.23.25	200	Angela Foye	Public Outreach
Earth Day Celebration Poplar Grove	4.26.25	800	Wendy Doring	Public Outreach
CAB Advisory Board	5.15.25	100	Wendy Doring	Public Outreach
Chesapeake Festival Havre de Grace Green Team	5.17.25	800	Wendy Doring	Public Outreach
NEWDA Trash and Recycling Legislative Review	5.21.25	20	Wendy Doring	Public Outreach
MRN Conference	6.9.25	200	Peter Houstle	Public Outreach
			Number of Events	Number of Participants
Public Outreach			40	23,259
School Presentations			1	5
HWDC Tour			2	37
Total			42	23,301
Number of Social Media Posts			880	
Advertising			4	

WSA Summary 2025

Program Background

Harford Streams Watershed Stewards Academy (WSA) is administered through a partnership between the Harford County Watershed Protection and Restoration Program, University of Maryland Sea Grant Extension, and Harford Community College. The WSA is a train-the-trainer program where steward candidates attend approximately 50 hours of classroom and hands-on-training (including over 12 hours spent in the field during field trips), install a class project, and complete a small-group or individual capstone project. By completing the course requirements, stewards become urban stormwater management resources for their communities, capable of providing accurate educational information as well as implementing small scale stormwater management and/or water quality projects.

The course is comprised of classroom training that covers: stormwater management history and regulations; soils; native plants and plant selection; stormwater site assessment and planning; small scale Best Management Practice (i.e. rain barrels, downspout disconnects, and rain gardens) implementation; BMP maintenance and maintenance plan development; grant and other funding resources; and social marketing. The course is taught by county staff, University of Maryland Sea Grant Extension Watershed Restoration Specialists, and local experts.

After completing the course and their capstone project, stewards are expected to complete 5 hours of continuing education and 15 hours of volunteer work by the end of the next year (i.e. stewards that completed the course in Spring 2018 had until December 31, 2019 to complete the required hours). Following the first year, stewards are expected to continue to engage in stormwater issues and volunteer in their community by completing a combination of 20 hours of continuing education and volunteer time to maintain their “Master Steward” designation.

Harford Streams Watershed Stewards Academy is the 5th WSA that the University of Maryland Sea Grant Extension has established with partners throughout Maryland. The program is based on a model developed by Anne Arundel Watershed Stewards Academy, which is an independent program that was established in 2009. Although Harford County’s program is newer, this training program has a history of success in other Maryland localities and regions.

The 2017-2018 Harford Watershed Stewards Academy successfully graduated nine stewards, who installed and have maintained one class project and completed 2 capstone projects. The 2019-2020 class successfully graduated seven stewards, although the completion of the course was delayed due to COVID-19. Their class project, a rain garden, was installed in fall 2021. The second class of stewards also completed 2 capstone projects, with one currently being finalized. The 2021-2022 class enrolled 9 steward candidates and has completed one of three capstone projects, with delays due to staffing disruptions and the COVID-19 pandemic. The 2024-2025 (fourth) class enrolled and graduated 11 Master Watershed Stewards, and seven Capstone projects are on track to be completed by the deadline of December 31, 2025. The program overall has trained 42 Master Watershed Stewards, 27 of whom remained active in fiscal year 2025.

2017 - 2018 Class Project & Capstone Project Summary

Class Project

This class project was installed on May 12, 2018 at Tollgate Park. The 32-square-foot rain garden treats runoff from an approximately 200-square-foot concession stand roof. The rain garden took approximately 6 hours to install. Since completing the initial project installation, the stewards have maintained the rain garden. As of October 30, 2020, the stewards have spent approximately 43 hours on garden maintenance.

Capstone Projects

- *Project 1: Floating Wetland Installation at Ladew Topiary Garden* - The design consisted of five 4.5' x 4' modular floating wetlands capable of holding 18 native plants that were placed in a former quarry pond. Stewards have spent 19 hours on project maintenance since its installation.
- *Project 2: Pollinator Garden in Havre de Grace* - The project, which took 14 hours to install between site prep and final planting, will treat 264 square feet of impervious surface from the roof as well as some sheet flow from the nearby street. Stewards have spent 31 hours on project maintenance to date.
- *Project 3: Harford County Weed Warriors* - The stewards partnered with Anita C. Leight Estuary Center and Eden Mill Nature Center to deliver educational information. The stewards spent approximately 10 volunteer hours on the project.

2019 - 2020 Class Project & Capstone Project Summary

The steward candidates participated in the class project site selection and project development. Two potential sites were visited and evaluated for BMP implementation. The site evaluation process included identifying impervious surfaces that could be better treated, measuring slopes, and looking for constraints such as existing infrastructure. While COVID-19 restrictions delayed implementation of this project until fall 2021, the stewards created an approximately 100-square-foot rain garden, treating 600 square feet of roof runoff from an adjacent pavilion at the Churchville Recreation Center. Two of the steward capstone projects have been completed with another conservation landscaping planned at Mariner Point Park in spring 2023.

Capstone Projects

- *Project 1: Conservation Landscaping at Churchville Rec Center* - One steward completed their capstone project in fall 2020. Fifteen native plants were added to an area in front of the new Churchville Rec center building in an area that experiences substantial runoff. Due to COVID-19 restrictions, the project was smaller than initially planned and was completed individually by the steward.
- *Project 2: Conservation Landscaping at Hickory Elementary School* - Another pair of stewards completed their capstone in spring 2021. A 100-square-foot garden was installed at Hickory Elementary School and 23 native plants were planted.
- *Project 3: Conservation Landscaping at Mariner Point Park* – In process. Permission has been granted by Mariner Point Park management to improve the welcome median strip plantings by removing overgrown and invasive vegetation and replacing these with native plants to support pollinators. Installation is planned for Spring 2024.

2021 - 2022 Class Project & Capstone Project Summary

Beginning in September 2021 with 9 steward candidates, the third WSA class installed a rain garden at Mariner Point Park for their class project. The rain garden is 80 square feet and treats runoff from 625 square feet of impervious surface. Additionally, the class planted 120 square feet of conservation

landscaping. In all, 59 native plants were planted in both the rain garden and conservation landscaping. All nine steward candidates as well as 11 volunteers participated in the installation of the garden.

Capstone Projects

- *Project 1: Floating Treatment Wetlands at Havre de Grace Lock House* - The design consisted of four 4.5' x 4' and two 4' diameter modular floating wetlands capable of holding a total of 106 native plants that were placed in the historic lock house (turning basin) pond. There were 15 stewards and volunteers on-hand for the capstone installation.
- *Project 2: Rain Barrels & Conservation Landscaping at Christ Church* – Phase 1: In June of 2024, the Harford County Watershed Protection and Restoration Office was able to support the construction of a stabilization wall at the base of the conservation landscape site at Christ Presbyterian Church, Rock Spring Parish in Forest Hill. The team of three Watershed Stewards successfully obtained a Community Engagement and Restoration Grant through the Chesapeake Bay Trust for \$5,000 to fund phases two and three of the project. The Stewards installed three rain barrels, removed invasive vegetation in the garden space and replaced those plants with native species. Approximately 150 plants were installed. This was completed in two main events, one organized around Earth Day in April 2025, and the second in the fall of 2025. The Earth Day event engaged the Church's congregation in an educational session about native plants and proper installation and maintenance of rain barrels.
- *Project 3: Conservation Landscaping at Bosely Conservancy* – The conservation landscape at Bosely Conservancy was installed on June 6, 2023, marking the completion of capstone projects for three Stewards from the 2021-22 class. Having initially purchased plant plugs in early spring, the Stewards engaged students in North Harford High School's Agriculture and Natural Resources magnet program to up-pot the plants and care for them until they were ready to be planted in June. Additionally, one student was mentored by the three Stewards to complete her Supervised Agriculture Experience requirement for the program, and she maintained the garden with their guidance throughout the summer into the fall.

2024 - 2025 Class Project & Capstone Project Summary

The fourth Harford Streams WSA Class installed a 112.5 square foot rain garden at the new Izaak Walton League (IWL) facility in Edgewood, which is the future headquarters of the Harford County IWL chapter, for their Class Project. The rain garden treats one quarter of the runoff from the “pole barn,” which is 1,000 square feet of the 4,000 square foot building. 158 plants were installed by the class participants and the project was completed on March 29, 2025.

Capstone Projects

- *Project 1: HarCo Plog* – One Steward worked with a local running club to host a combination jogging and trash pickup event, “Plogging,” along Harford County trails and roads near Palmer State Park. The event engaged 16 participants and the group removed four 30-gallon bags of trash.
- *Project 2: Pollinator Garden at Hickory Elementary* – Three Stewards worked with the administration at Hickory Elementary School in Bel Air to install an approximate 180 square-foot pollinator garden and conservation landscape. Over 45 plants were installed in the garden space by the school’s second grade class.
- *Project 3: Stormdrain Stenciling* – One Steward created a manual on how to get permission for and carry out stormdrain stenciling on County roads to alert community members that the

drainage leads to the Chesapeake Bay. 10 storm drains were stenciled in the Laurel Valley neighborhood of Harford County.

- *Project 4: Deer Creek Buffer at Eden Mill Nature Center* – Two Stewards worked with the trail maintenance team at Eden Mill Nature Center to move a section of trail impacted by erosion along Deer Creek and expand the riparian buffer accordingly. 21 trees were planted in a 600-square foot area.
- *Project 5: (In process at the time of this report) Bynum Run Residential Education* – One Steward developed an informational workshop series for her community on landscaping practices to enhance watershed health on the stream running through the community, Bynum Run. She received community input on workshop topics through a Facebook Group survey and designed the educational workshops around the community preferences.
- *Project 6: (In process at the time of this report) Downtown Bel Air Gardens* – Two Stewards are working to update and develop educational signage for the pollinator garden beds and rain garden adjacent to the County office buildings at 212 South Bond Street in Bel Air. Applications to the Harford Land Trust/UMD Master Gardener Pollinator Garden Trail have also been submitted to include these gardens as stops on the Trail.
- *Project 7: (In process at the time of this report) Watershed Education for Boys & Girls Club* – One Steward has planned a watershed education lesson for the Boys and Girls Club of Harford County and is coordinating with the group's leadership to deliver the lesson in the fall or winter of 2025.

Ongoing and Other Activities

The Master Watershed Stewards of Harford County have continued ongoing activity through regular Quarterly Meetings which provide continuing education and training opportunities both internal and external, introduce Stewards to new and relevant resources and programs (e.g. how to contribute data to MyCoast Maryland), and provide a platform for camaraderie building among the group. Maintenance of existing class projects and capstone projects is monitored and managed through online sign up sheets and regular updates at Quarterly Meetings.

Attending public events to promote the work of the Watershed Protection and Restoration office continues to be a large part of the workload of the Harford Stewards. They work to engage and inform the public about the Harford Streams Summer Adventure program as well as the importance of healthy watersheds at public events such as the Harford Farm Fair and the Wade-In at the Anita C. Leight Estuary Center.

Future Activities

With the 2025 graduates and long-time engagement of prior WSA classes, the program has recently initiated the formation of two Steward-led committees. The committees provide leadership opportunities for Master Watershed Stewards and increase the capacity of the program to provide ongoing and up-to-date programming. The Education Committee is focusing on updating educational information provided at public events, updating promotional materials, and developing engaging activities for the broad audiences reached at these events. The Maintenance Committee is focusing on customizing inspection checklists for each of the four class projects (rain garden) installations to ensure proper function and managing the support for these inspections provided by the Master Watershed Stewards. Each of these Committees has had one meeting as of October 2025, and are planning activities for 2026.

Class of 2025 and Staff



**Class of
2022**

Congratulations Master Watershed Stewards



Class of 2020



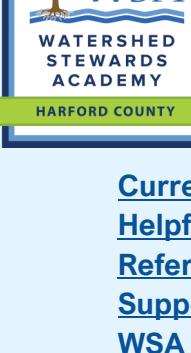


Class of 2018

Date	Activity	Name	Hours	Adults	Youth	Comments
07/03/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	0	0	0	Planning meeting
07/03/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	2	0	0	Planning meeting
07/10/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	0	0	0	Planning meeting
07/10/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	2	0	0	Planning meeting
07/12/2024	Maintenance	Churchville Recreation Center Pavillon - Rain Garden	6	0	0	repaired connection to downspout
07/13/2024	Outreach Effort	West View Shores	8	5	0	possible BMP projects thru out community in collaboration with Cecil County Watershed Stewarts
07/13/2024	Continuing Education	BMA refresher in Cecil County and West View site assessment practice	7			
07/13/2024	Continuing Education	West View Shores	8			
07/17/2024	Outreach Effort	Christ Church Vestry Meeting	6	8	0	
07/17/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	0	10	0	Vestry grant proposal
07/17/2024	Continuing Education	Regenerative landscaping webinar	2			
07/17/2024	Networking Event	Quarterly Meeting	2			
07/18/2024	Maintenance	Eden Mill Park	6	5	0	18Jul24 Eden Mill 7:30-12:00 4.5 +1=5.5
07/25/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	2	0	0	Team planning meeting
07/31/2024	Continuing Education	CBF's School Leaders Explore Sustainability Program 2024	72			
08/02/2024	Maintenance	Churchville Recreation Center Pavillon - Rain Garden	1	0	0	Cleaned gutters for pavillon, weeded the rain garden
08/03/2024	Continuing Education	Mennonite Central Committee Sustainable Landscape tour & Nature Fest Akron PA	2			
08/04/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	0	0	0	Planning meeting
08/11/2024	Outreach Effort	Christ Church Vestry Meeting	6	8	0	
08/16/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	0	0	0	Chesapeake Bay Trust Grant application review
08/27/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	0	0	0	Proposal
08/30/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	0	0	0	Planning
09/06/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	15	0	0	Drafting/submitting final CBT grant proposal
09/19/2024	Continuing Education	Harford County Watershed Steward Quarterly Meeting	2			
09/30/2024	Continuing Education	Outdoors MD Documentaries=2hrs 30Sep2 Migration birds face dangers from development Learning to live with beavers Tracking monarch migration Tracking Bird Migration Insect infestation-cicadas 17 years Protecting the Gunpowder River	2			
10/01/2024	Continuing Education	Webinars: Plants for Pollinators: Getting Reliably Safe Plants with Sharon Selvaggio May 28, 2024	2			
10/02/2024	Continuing Education	TINY FORESTS, BIG RESULTS? WITH JOE CHAMBERS AND ANDREW PUTNAM FEB. 27, 2024 1:26 min 2Oct24	2			
10/03/2024	Continuing Education	Biological Control of Invasive Plants Using Insects by Ellen Lake (7/2023) 1:11 3Oct24	1			
10/03/2024	Continuing Education	Invader Detectives by Damien Ossi and Megan Carr (11/28/2023) 1:25 3Oct24	2			
10/04/2024	Continuing Education	Native Keystone Plants for Wildlife - Doug Tallamy 1:16 4Oct24	1			
10/04/2024	Continuing Education	Are Alien Plants Bad with Douglas Tallamy 54:31 4Oct24	1			
10/05/2024	Continuing Education	Using Informed Plant Selection to Restore Pollinators and Songbirds in Human-Dominated Landscapes 1:05 5Oct24	1			

10/05/2024	Continuing Education	Toward Improving Pollinator Habitat: Reconstructing prairies with high for density 52:51. 5Oct24	1			
10/08/2024	Continuing Education	Wooly Adelgid on Hemlock Systems 57 8Oct24	1			
10/09/2024	Continuing Education	Hemlock Woolly Adelgid Update: Management Recommendations and Silvicultural Tactics 57.24 9Oct24	1			
10/17/2024	Continuing Education	Quarterly Meeting virtual	2			
10/19/2024	Continuing Education	Chesapeake Watershed Forum - Climate Change & Mental Health	2			
10/23/2024	Maintenance	At Large	4	15	25	23Jul24 Farm Fair WSA 5-8 3hrs +1
10/24/2024	Maintenance	Churchville-Level Building Conservation Landscape	2	1	0	4Oct24 WSA invasive removal/ weeded raingarden by Level Athletic building 3:45-5:30=1.45
11/07/2024	Maintenance	Bosely Conservancy	2	0	0	
11/20/2024	Planning & Meetings	At Large	1	0	0	One hour
11/20/2024	Planning & Meetings	At Large	1	0	0	WSA capstone project planning
11/20/2024	Planning & Meetings	At Large	1	0	0	Planning for Capstone Project
11/20/2024	Planning & Meetings	At Large	1	0	0	
12/03/2024	Planning & Meetings	At Large	1	0	0	WSA Capstone project planning for Eden Mill Nature Center
12/14/2024	Planning & Meetings	Todd Lakes Pond #1	1	1	0	capstone project planning
12/18/2024	Planning & Meetings	Christ Church Rock Spring Conservation Landscape	2	3	0	Planning meeting with CBT
01/01/2025	Continuing Education	Harford County Watershed Stewards Quarterly Meetings	3			
01/27/2025	Continuing Education	WSA Quarterly Meeting....collaboration with Daniel and Stephanie to prepare for Jan 30 meeting	1			
01/30/2025	Continuing Education	Harford WSA Quarterly Meetings	3			
01/30/2025	Continuing Education	Harford WSA Quarterly Meeting	1			
02/03/2025	Planning & Meetings	Palmer State Park	14	0	0	
03/07/2025	Maintenance	Churchville Recreation Center Pavillon - Rain Garden	3	0	0	
03/07/2025	Maintenance	Churchville Recreation Center Pavillon - Rain Garden	1	0	0	Maintenance
03/24/2025	Continuing Education	Woods In Your Backyard Online Course + Site Assessments & Assignments	8			
03/25/2025	Installation (Lead)	Christ Church Rock Spring Conservation Landscape	5	1	0	Clearing section of invasive plants in preparation for rain barrel installation
03/29/2025	Installation (Lead)	Welzenbauch- IWLA	12	0	0	
03/29/2025	Installation (Support)	Izaak Walton League - Harford County Chapter	8	20	0	
03/29/2025	Installation (Support)	Izaak Walton League - Harford County Chapter	6	0	0	
03/29/2025	Installation (Support)	Izaak Walton League - Harford County Chapter	7	10	0	
04/05/2025	Outreach Effort	Alpha Kappa Alpha Sorority, Inc. Xi Delta Omega monthly meeting	6	48	0	
04/07/2025	Maintenance	Churchville-Level Building Conservation Landscape	3	3	0	7Apr25 2.5 hr: Weeded rain garden in front of Churchville Rec Center
04/08/2025	Continuing Education	8Apr25 2 hr: EGC Professional landscape architect Grace Fielder discussed her approach to landscaping with a sympathetic relationship between manmade and natural elements	2			
04/10/2025	Maintenance	Churchville-Level Building Conservation Landscape	2	3	0	10Apr25 1.5 hr: Weeded rain garden in front of Churchville Rec Center
04/12/2025	Outreach Effort	CHOSEN CDC Community Garden Opener	5	23	2	
04/19/2025	Outreach Effort	Aberdeen Earth Day	8	50	75	
04/19/2025	Maintenance	Izaak Walton League - Harford County Chapter	1	0	0	Watered/inspected rain garden
04/20/2025	Installation (Lead)	Christ Church Rock Spring Conservation Landscape	8	0	0	Leveling ground, adding gravel base in prep for rain barrel installation

04/21/2025	Maintenance	Izaak Walton League - Harford County Chapter	2	0	0	Checked the health of plants/trees, watered
04/24/2025	Continuing Education	24Apr25 WSA meeting 2.0	2			
04/24/2025	Continuing Education	WSA Quarterly Meeting	2			
04/24/2025	Continuing Education	WSA Quarterly Meeting	2			
04/24/2025	Continuing Education	WSA Quarterly Meeting	2			
04/24/2025	Networking Event	WSA Quarterly meeting	2			
04/25/2025	Networking Event	Teachers for Environmental Literacy Leader (TELL) Network	48			
04/26/2025	Networking Event	Earth Day Kayak Clean Up	5			
04/27/2025	Outreach Effort	Christ Church Rock Spring Earth Day Celebration	8	30	1	
04/27/2025	Installation (Lead)	Christ Church Rock Spring Conservation Landscape	7	30	6	Rain barrel platform installation (4/26), Rain barrel installation (4/27)
04/28/2025	Continuing Education	28Apr25 5.5 DNR Training	6			
04/30/2025	Maintenance	Churchville-Level Building Conservation Landscape	2	3	0	30Apr25 Weeded rain garden in front of Churchville Rec Center 2.0
05/01/2025	Maintenance	Churchville-Level Building Conservation Landscape	2	3	0	1May25 Weeded/planted rain garden in front of Churchville Rec Center 2.0
05/03/2025	Maintenance	Churchville Recreation Center Pavillon - Rain Garden	1	0	0	
05/06/2025	Maintenance	Tollgate Park	1	0	0	Inspected and pulled weeds at rain garden.
05/06/2025	Maintenance	Mariner's Point Park Rain Garden	1	0	0	Inspected, pruned, removed invasives at rain garden.
05/06/2025	Continuing Education	Waters of The Untied States Listening Session for Local Governments	3			
05/10/2025	Installation (Lead)	Eden Mill Park	3	0	0	
05/10/2025	Networking Event	Northern Map Turtle Clean UP	4			
05/12/2025	Maintenance	Swan Creek School	7	0	0	
05/15/2025	Installation	Hickory Elementary	50			
05/21/2025	Continuing Education	Urban Stormwater Management - Andrew Lazur	2			
05/27/2025	Maintenance	Churchville-Level Building Conservation Landscape	2	3	0	27May25 Weeded/planted rain garden in front of Churchville Rec Center 2.0
06/02/2025	Maintenance	Churchville-Level Building Conservation Landscape	1	3	0	2Jun25 Weeded/planted rain garden in front of Churchville Rec Center 1.0
06/03/2025	Maintenance	Izaak Walton League - Harford County Chapter	2	6	0	landscaping extension to raingarden
06/03/2025	Maintenance	Izaak Walton League - Harford County Chapter	2	6	0	
06/03/2025	Maintenance	Izaak Walton League - Harford County Chapter	3	0	0	Added mulch and revised border depth of rain garden.
06/05/2025	Maintenance	Churchville-Level Building Conservation Landscape	1	3	0	5Jun25 Weeded/planted rain garden in front of Churchville Rec Center 1.0
06/06/2025	Installation (Support)	Christ Church Rock Spring Conservation Landscape	25	30	0	
06/07/2025	Outreach Effort	Anita C. Leight Annual Wade In Festival	3	100	100	
06/07/2025	Outreach Effort	Annual Wade In Festival at Anita C. Leight Estuary Center	3	50	30	
06/07/2025	Installation (Lead)	Christ Church Rock Spring Conservation Landscape	9	30	0	Conservation landscape planting, mulching, invasive plant removal
06/08/2025	Maintenance	Christ Church Rock Spring Conservation Landscape	8	0	0	Water plants Rain barrel maintenance
06/08/2025	Maintenance	Palmer State Park	2	15	1	
06/09/2025	Maintenance	Churchville-Level Building Conservation Landscape	2	3	0	9Jun25 Weeded/planted rain garden in front of Churchville Rec Center 2.0
06/17/2025	Maintenance	Tollgate Park	2	0	0	joined group who were cleaning up garden after MG recommendation. I was preparing labels which continued at home.
06/22/2025	Maintenance	Izaak Walton League - Harford County Chapter	1	0	0	Watered/inspected rain garden
06/30/2025	Maintenance	Churchville-Level Building Conservation Landscape	3	3	0	30Jun25 Weeded/planted rain garden in front of Churchville Rec Center 2.5
Totals	106		516	532	240	



Bulletin - November 2025

Master Watershed Stewards

- [Current Watershed Stewards](#)
- [Helpful Links](#)
- [Reference Documents](#)
- [Support Professionals](#)
- [WSA Reporting System](#)

- * Service (15 hours/year)
- * Continuing Education (5 hours/year)
- * Quarterly Meetings (2 per/year)

NEXT WSA MEETING

Tuesday, November 18
6:00 – 8:00 PM
McFaul Activity Center - Room #5

Rain Garden Maintenance!

We still need someone to sign up for Tollgate and Mariner in November!

1. **Sign up below** for a spot at any rain garden you choose.
2. **Submit** your hours into the [WSA Reporting System](#).
3. **Upload** your photos and comments to [Current Stewards FB Group](#).

[Tollgate Rain Garden Maintenance Sign Up Link](#)
[Churchville Rain Garden Maintenance Sign Up Link](#)
[Mariner Rain Garden Maintenance Sign Up Link](#)

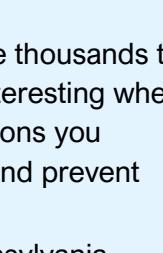
Want to share something? Contact [Laura Coste](#), to have it added to the bulletin!

Service Hours & Project Opportunities

♦ **WSA Committees** - You're welcome to join more than 1!

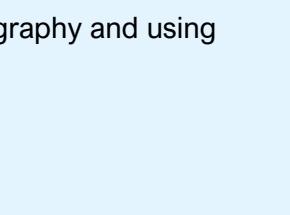
Education Committee

Danny Imwold and Deb Stewart are serving as co-chairs of the Education Committee. The committee recently held its first meeting and is actively planning future community outreach and educational initiatives. If you're interested in joining this committee, contact [Deb Stewart](#).



Maintenance Committee

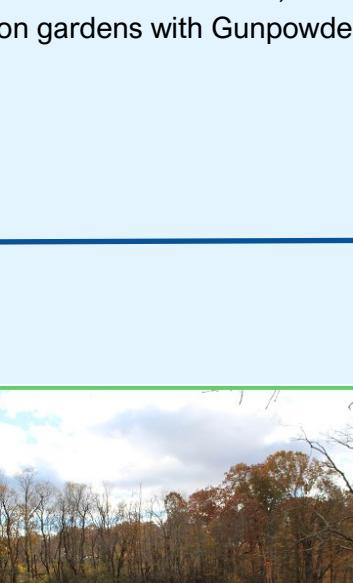
George Wiggins and Katie Bagri are chairs for the maintenance committee. The committee held its first meeting and will be coordinating the ongoing maintenance of the four class projects. To join this committee, please contact [George Wiggins](#).



Continuing Education Opportunities

♦ [A Sea Change – Free Environmental Film Screening](#)

Join the HdG Green Team to watch and briefly discuss the documentary A Sea Change – “A life-long sportsman and retired educator, Sven Huseby considers himself a well-informed environmentalist. But he is caught by surprise when he reads about the effect of excess carbon dioxide on the ocean in Elizabeth Kolbert’s New Yorker article, “The Darkening Sea.” Sven embarks on a mission to learn more, wrestling with the possibility that his five-year-old grandson Elias will inherit an ocean bereft of the fish which have meant so much to their family. Sven uncovers research on the world’s acidifying seas and its dramatic implications for our culture and economy.”



When: Wednesday, November 5, 7 - 8:30pm

Where: 121 N. Union Avenue, Havre De Grace

FREE

♦ [Mosquitoes: More than Monsters?](#)

Ben Burgunder loves mosquitoes. Ironic, considering that his job involves killing them by the thousands to reduce the risk of West Nile virus! This presentation will cover the good, the bad, and the interesting when it comes to these pesky and deadly creatures. There will be time for all of the mosquito questions you are itching to ask! Ben will also share tips to reduce mosquito numbers around your home and prevent mosquito bites.

Originally from Baltimore County, Ben Burgunder works as a public health specialist in Pennsylvania, searching for and eliminating the mosquitoes that spread West Nile virus. He earned a Master of Science in Entomology at the University of Maryland, College Park. His research there focused on West Nile virus surveillance in Chicago, a viral hotspot. Ben is also passionate about insect photography and using iNaturalist to learn more about the natural world.

When: Thursday, November 6, 7 - 8pm

Virtual

FREE

♦ [Address Stormwater in Your Backyard with Conservation Gardens](#)

The landscape choices we make in our backyards and neighborhoods directly affect the health of our local waterways and the Chesapeake Bay. Learn how you can grow clean water in your backyard by creating conservation gardens!

These gardens, which feature beautiful native plants, also filter stormwater runoff, improve water drainage issues, and provide pollinator habitat. In this webinar, we will share examples of local homeowners, businesses, and faith-based organizations that have implemented conservation gardens with Gunpowder Valley Conservancy.

When: Thursday, November 6, 5:30 - 7pm

Virtual

FREE

Other Items of Interest

♦ [Eden Mill Fall Fest](#)

Join in on the second Saturday in November each year and enjoy the beauty of the park and all it has to offer. Witness pumpkins fly through the air as they are chucked from a trebuchet! Free admission along with lots of free activities. Visit the nature center, historic grist mill museum, and educational garden area, all while playing the Passport Scavenger Hunt.



Other activities include educational displays by local organizations; crafts with Eden Mill’s Master Gardeners; tattoos; a gourd hunt; corn grinding; live animals; games and prizes.

When: Saturday, November 8, 11am-3pm

Where: 1617 Eden Mill Road, Pylesville

FREE

♦ [18th Century Brewing Workshop](#)

An Immersive History Experience with Michael Carver. This in-person event will be held on the lawn behind the historic Lee Mansion. Lunch is included and will be prepared in our 1830’s kitchen over a hearth fire.

Learn the art of brewing as it was done centuries ago.

When: Saturday, November 8, 10am - 4pm

Where: 2807 Jerusalem Road, Kingsville

COST: \$81.88

♦ [Fall time Dog Walk for Adults](#)

Time to get you and your pup out to Eden Mill for fun in the fall! Please bring a friendly furry friend who will do well in a group setting with other dogs! Be prepared to walk on the trails through various terrain.

When: Saturday, November 15, 9:30 - 10:30am

Where: 1617 Eden Mill Road, Pylesville

FREE

Ages 18 and up

Pre-registration is required.

Registration ends November 14th at 4 pm.

♦ [Small Business Saturday](#)

On the Saturday after Thanksgiving, immerse yourself in the vibrant tapestry of our community. From quaint boutiques brimming with handcrafted treasures to cozy cafes serving up locally sourced delights, Harford County offers a shopping experience unlike any other.

By choosing to support our independent shops and small businesses, you’re not just finding one-of-a-kind gifts; you’re investing in the dreams of your neighbors, fostering local job growth, and strengthening the very fabric of our community. Explore our historic Main Streets, uncover hidden gems, and experience the warm, personalized service that makes Harford County truly special. Make this Small Business Saturday a memorable day, where every purchase tells a story and every dollar stays local.

When: Saturday, November 29

Where: Harford County

Funding Opportunities

Chesapeake Bay Trust - Community Engagement and Restoration Mini Grant

Funds activities such as tree plantings, rain gardens, stream cleanups, and storm drain stenciling. To see a longer list of potential projects, read the full Request for Proposals (RFP).

Please note the RFP is updated every year.

Deadline: Rolling basis. Requests are accepted on an on-going basis until funds are fully expended for the fiscal year

Up to \$5,000

Chesapeake Bay Trust - Urban Trees Mini Grant

Funds activities such as small tree planting projects in qualified urban underserved areas.

To determine eligibility view the orange areas in the [online map](#).

Deadline: Rolling basis. Requests are accepted on an on-going basis

until funds are fully expended for the fiscal year

Up to \$10,000

Chesapeake Bay Trust

Empowering people. Restoring nature.

Other Chesapeake Bay Trust Grants and Opportunities

Grantee Resources for Applying and Managing Awards

[How to Apply for a Chesapeake Bay Trust Grant](#) [video](#)

[How to Manage a Chesapeake Bay Trust Award](#) [video](#)

[How to Manage Your Chesapeake Bay Trust Award During COVID-19](#) [video](#)

Employment Opportunities

[Project Manager, Site Design Civil Engineer, 3D CAD Drafter](#) | CityScape Engineering

[Biological Technician](#) | Smithsonian Environmental Research Center

[Development, Marketing & Communications Intern](#) | Chesapeake Bay Trust

[Coastal Resource Scientist I](#) | Oyster Recovery Partnership

[Arborist/Restoration Ecologist](#) | Biohabitats

[Water Resources Engineer – Stream Restoration Specialist](#) | Biohabitats

[Tree Operations Crew Member](#) | Casey Trees

[Finance Officer](#) | Maryland Forestry Foundation

[Director of Development](#) | Interfaith Partners for the Chesapeake

[Environmental Scientist Position](#) | Maryland Coastal Bays Program

[Planning Specialist III \(Watershed Planner\)](#) | Montgomery County Government

[Grant Manager](#) | Rock Creek Conservancy

[Assistant Gardener](#) | Historic Annapolis

[Science Communication Internship \(Social Media\)](#) | Smithsonian Environmental Research Center

“If every day were Earth Day, we wouldn’t be in the mess we’re in.”

—Neil deGrasse Tyson

National Drug Take Back Day Results for Harford County

Event Date	Location	Pounds Collected
24-Aug-24	Edgewood Boys and Girls Club	60
26-Oct-24	220 S. Main	294
	Bel Air PD	155
	Havre de Grace PD	112
	Wegmans	238
	MSP- Bel Air	39
26-Apr-25	220 S. Main	835
	Bel Air PD	210
	Havre de Grace PD	304
	Wegmans	474
	MSP- Bel Air	150
	TOTAL	2871

PRESCRIPTION DRUG TAKE BACK DAY

IN HARFORD COUNTY

DROP OFF YOUR UNUSED AND EXPIRED MEDICINES

Saturday, August 24, 2024
10 a.m. - 2 p.m.

Edgewood Recreation & Community Center Parking Lot
1980 Brookside Drive, Edgewood



*Clean out
your medicine
cabinet!*



Presented in partnership:



Information: 410.638.3333 or
odcp@harfordcountymd.gov

Harford County Housing and Community Services
Office of Drug Control Policy

www.harfordcountymd.gov/services 410.638.3333

NATIONAL DRUG ENFORCEMENT AGENCY

PRESCRIPTION DRUG TAKE BACK DAY

IN HARFORD COUNTY

Saturday, October 26, 2024
10 a.m. - 2 p.m.



*Clean out
your medicine
cabinet!*



**Information: 410.638.3333 or
odcp@harfordcountymd.gov**



Sheriff Jeffrey R. Gahler



Wegmans
21 Wegmans Boulevard,
Abingdon, MD 21009



BOB CASSILLY
Harford County Executive

Office of Drug Control Policy

Harford County Department of Housing and Community Services
www.harfordcountymd.gov/services 410.638.3333

**5 DROP-OFF
LOCATIONS
FOR UNUSED
AND EXPIRED
MEDICINES**

**Parking Lot of the
County Office Building**

220 S. Main Street,
Bel Air, MD 21014
(corner of Business Rt 1
and Main Street)

**Bel Air Police
Department**

39 N. Hickory Avenue,
Bel Air, MD 21014

**Havre de Grace
Police Department**

715 Pennington Avenue,
Havre de Grace, MD 21078

Maryland State Police

1401 Bel Air Road
Bel Air, MD 21014

NATIONAL DRUG ENFORCEMENT AGENCY

PRESCRIPTION DRUG TAKE BACK DAY

IN HARFORD COUNTY

Saturday, April 26, 2025
10 a.m. - 2 p.m.



*Clean out
your medicine
cabinet!*



Information: 410.638.3333 or
odcp@harfordcountymd.gov



Sheriff Jeffrey R. Gahler



Maryland State Police
1401 Bel Air Road
Bel Air, MD 21014

Wegmans
21 Wegmans Boulevard,
Abingdon, MD 21009



BOB CASSILLY

Harford County Executive

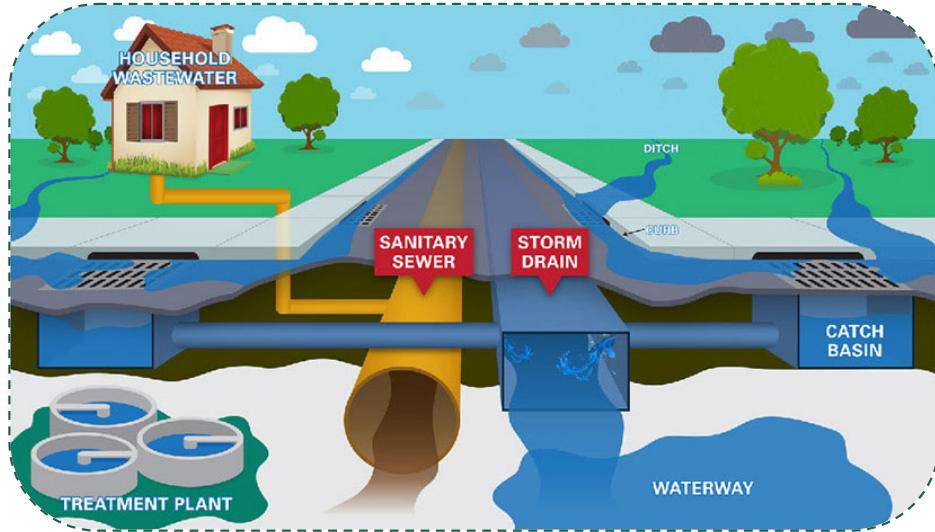
Office of Drug Control Policy

Harford County Department of Housing and Community Services
www.harfordcountymd.gov/services 410.638.3333



Harford County Stormwater Pollution Prevention

MS4 ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM



What is an MS4 Permit?

The Federal Clean Water Act (CWA) specifies stormwater runoff as a point source pollutant that must be regulated. The CWA requires a National Pollution Discharge Elimination System (NPDES) permit for all point source discharge. The specific NPDES permit that states, counties, and towns must abide by is called the Municipal Separate Storm Sewer System, or MS4. Where this permit is applicable, stormwater drainage systems are separate from sanitary sewer systems. Harford County is required to implement an Illicit Discharge Detection and Elimination (IDDE) Program to ensure that all discharges to and from the storm drain system are composed entirely of uncontaminated stormwater. Contaminated discharges must be eliminated. Harford County's IDDE Program is administered by Harford County Department of Public Works, Office of Watershed Protection and Restoration. For more information, visit Harford County's website at <https://www.harfordcountymd.gov/1841/Harford-Streams>.

What is an illicit discharge?

An illicit discharge is the discharge of pollutants into the storm sewer system via overland flow, direct dumping, or illicit connections. Illicit connections are pipes or other direct connections that illegally or unknowingly release pollutants into a storm sewer system or directly into a body of water.

Sanitary Sewer System

The sanitary sewer system is comprised of a series of drains and pipes that lead from toilets, sinks, dishwaters, and washing machines in houses and businesses to the local Wastewater Treatment Plant where the wastewater is treated before being discharged into a natural water body.

Storm Drain System

In Harford County, the storm drain systems are not connected to the sanitary sewer system. When it rains, a portion of the rainwater or stormwater flows over the land into the storm drain and discharges directly to our streams, rivers, and ultimately the Chesapeake Bay. Stormwater drainage systems can exist in the form of underground pipes or swales and ditches along the roadside that divert water to streams and rivers. These drainage systems are meant to carry only unpolluted stormwater. As the stormwater travels over land, it encounters and picks up many substances and pollutants that it carries with it downstream. These pollutants may have a significant impact to the water quality of streams, rivers and the Chesapeake Bay. This pollution can cause flooding, clogging, property damage, and endangerment to aquatic life, recreation, and drinking water. Therefore, it's very important that we allow **"only rain down the drain."**

Stormwater Pollutant Examples

✓ Motor Oil	✓ Paint	✓ Pet Waste	✓ Construction Debris
✓ Oil Filters	✓ Solvent	✓ Yard Waste	✓ Transmission Fluid
✓ Antifreeze	✓ Degreaser	✓ Dirt and Gravel	✓ Fertilizer
✓ Pesticides	✓ Detergent	✓ Trash	✓ Cooking Grease



Please report any illicit discharges to Harford County DPW at 410.638.3400 at any time of day.





GREASE WASTE MANAGEMENT

Proper grease and food management disposal can play a very important role in reducing the stormwater pollutants entering the storm drain system and polluting waterways. It is important that good housekeeping practices for kitchen grease disposal are used. If not properly disposed of, oil and grease can end up in streams. Waste grease and oil collected in containers requires proper training of employees, good housekeeping practices, and sanitary containment of fats, oils, and greases.



Pollution Prevention Techniques for Solid and Grease Waste Management

- ✓ Recycle oil and grease. Never pour oil or grease into sinks, floor drains, or onto a parking lot or street.
- ✓ Never dump grease down a storm drain. Do not put liquid or grease in trash containers.
- ✓ Designate an area for waste collection away from storm drains and ensure the area is located on a concrete or impervious surface. Design the waste handling area to contain spills and prevent contact with stormwater.
- ✓ Keep the waste collection area clean, dry, and free of debris. Sweep the area regularly. If any leaks or spills are detected, clean with dry practices.
- ✓ If feasible, it is recommended to keep grease bins covered and contained. Store under roof or cover and ensure they have working lids. Ensure lids fit securely, are watertight, and are closed at all times.
- ✓ Have a grease trap or interceptor installed. Keep grease interceptor maintained to prevent sewer overflows or backups and keep records of grease waste hauling.
- ✓ Inspect and clean grease traps and bins regularly and have them regularly serviced and pumped or removed of grease by a licensed hauler. Call collector for service if container capacity is reached.
- ✓ Keep grease storage containers clean and wiped off to prevent accumulation of grime. Spot clean and schedule routine clean ups around oil and grease containers with scraping, dry absorbents, and sweeping. Wipe the outside of grease containers frequently. Never hose down the containers.
- ✓ Post signs to remind employees of good housekeeping practices and proper use.
- ✓ Provide sturdy, lidded containers for oil transport from kitchen to outside receptacles or bring oil and grease containment bins inside. Prevent grease from dripping or overflowing when transferring and emptying containers.



Harford County Stormwater Pollution Prevention



VEHICLE FUELING

Spills at vehicle fueling operations have the potential to directly contribute oil, grease, and gasoline to stormwater, and can be a significant source of toxic metals and petroleum hydrocarbons. Delivery of pollutants to the storm drain can be sharply reduced by well-designed fueling areas and improved operational procedures.



Signs for Spill Prevention



Cleaning with Dry Methods

Pollution Prevention Techniques for Vehicle Fueling Operations

- ✓ Maintain an updated spill prevention and response plan on the premises of all fueling facilities and make sure each staff member knows where to find it and how to implement it.
- ✓ Cover fueling stations with a canopy or roof to prevent direct contact with rainfall.
- ✓ Design fueling pads for large mobile equipment to prevent the run-on of stormwater and collect any runoff in a dead-end sump. If the area is asphalt, ensure it is sealed with an impervious sealant. The concrete pad should extend the full length that the hose and nozzle assembly can be pulled plus an additional foot.
- ✓ Retrofit underground storage tanks with spill containment and overfill prevention systems.
- ✓ Clean fuel-dispensing areas with dry cleanup methods. Never wash down areas before dry clean up has been done. Ensure that wash water is collected and disposed of in the sanitary sewer system. Don't allow any discharge of clean up liquids to storm drains.
- ✓ Post signs instructing customers not to over-fill or overtop tanks. This will prevent fuel spills and leaks.



Harford County Stormwater Pollution Prevention



VEHICLE FUELING



Spill Kit



Containment Berm

Pollution Prevention Techniques for Vehicle Fueling Operations

- ✓ Keep emergency spill kit cleanup materials on the premises to promptly clean up spills. Ensure staff is educated on proper clean up techniques.
- ✓ Locate storm drain inlets away from the immediate vicinity of the fueling area and direct downspouts draining the roof cover to prevent discharge across the fueling area.
- ✓ Protect above ground fuel tanks using a containment berm with an impervious floor of concrete. The containment berm should have enough capacity to contain 110% of the total tank volume.
- ✓ Fuel dispensing areas should be graded with a slope that prevents ponding and separated from the rest of the site by berms, dikes, or other grade breaks that prevent run-on of urban runoff.
- ✓ Use fuel-dispensing nozzles with automatic shutoffs if allowed.



Harford County Stormwater Pollution Prevention



VEHICLE MAINTENANCE & REPAIR

Vehicle maintenance and repair operations can impact water quality by exposing toxins in solvents, waste oil, antifreeze, and other fluids to stormwater. Often, vehicles that are wrecked or awaiting repair can be stormwater hotspots if leaking fluids are exposed. The EPA states, "Used oil from one oil change can contaminate 1 million gallons of fresh water."



Secondary Containment



Used Liquid Collection Under Cover

Pollution Prevention Techniques for Vehicle Maintenance and Repair

- ✓ Collect and store all used antifreeze, oil, grease, oil filters, cleaning solutions, solvents, batteries, hydraulic and transmission fluids for recycling or proper offsite disposal. Ensure waste containers are in good condition.
- ✓ Conduct all vehicle and equipment repairs indoor or under a cover (if done outdoors).
- ✓ Designate a specific location for outdoor maintenance activities to prevent stormwater and groundwater pollution. The area should be paved, away from storm drains, and have stormwater containment measures.
- ✓ Seal service bay concrete floors with an impervious material to allow cleanup without using solvents. Use drip pans and dry absorbent to eliminate the need for wastewater collection and disposal systems.
- ✓ Do not discharge maintenance and service-related fluids and service bay floor washwater into subsurface disposal systems such as septic systems, dry wells, seepage pits and drainage holes or into storm drains or areas where it can seep into groundwater. Do not discharge service-related fluids onsite. This is prohibited.
- ✓ Store cracked batteries in a covered secondary containment area until they can be disposed of properly.
- ✓ Store materials and waste off the ground and away from places where they will be exposed to rainwater

****Hazmat Emergency Number: 410-638-3529****



Harford County
Office of Watershed Protection and Restoration
212 South Bond Street
Bel Air, Maryland 21014



Please report any illicit discharges to Harford County DPW at 410.638.3400 at any time of day. For more information, email Danielle Hankins at dhankins@harfordcountymd.gov or call her at 410-638-3217.

Harford County Stormwater Pollution Prevention



VEHICLE MAINTENANCE & REPAIR



Drip Pan



Dry Absorbents

Pollution Prevention Techniques for Vehicle Maintenance and Repair

- ✓ Avoid hosing down work areas. Instead, clean with dry methods like shop vacuums. Do not vacuum flammable liquids. Sweep or vacuum work area daily. Keep spill clean-up kits readily accessible at all work areas.
- ✓ Clean all spills immediately using dry cleaning techniques and absorbents such as sand, cat litter, rags, or oil dry. Sweep and properly dispose of dry material. Use drain mats to cover drains in the event of a spill. Immediately report any spills which have entered the storm drain system to Harford County DPW.
- ✓ Inspect the condition of all vehicles and equipment stored outdoors frequently. Capture and clean up any leaks.
- ✓ Use a tarp, ground cloth, or drip pans beneath vehicles or equipment being repaired outdoors to capture all spills.
- ✓ Wash parts in a self-contained solvent sink rather than outdoors.
- ✓ Conduct regular training for staff on good housekeeping practices
- ✓ Perform vehicle painting only in approved enclosed areas with vacuum hoods and filters

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Office of Watershed Protection and Restoration
212 South Bond Street
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OUTDOOR WASHING

Outdoor washing of vehicles, equipment, buildings, roadways, and parking lots can cause stormwater pollution. Wash water may contain chlorine, salts, sediments, phosphorous, metals, soaps, oil and grease, and other pollutants that can degrade water quality. Dirty wash water that is not properly managed can lead to water contamination in streams, rivers, and groundwater.



Outdoor Wash Water Discharge to Storm Drain

Pollution Prevention Techniques for Outdoor Washing and Cleaning

- ✓ Perform all washing operations indoors if possible.
- ✓ Ideally, all vehicles and equipment should be washed at commercial car washes or indoor facilities that are specially designed for washing operations and that recycle, treat, or convey wash water to the sanitary sewer system.
- ✓ If outdoor washing is necessary, contain, control, and capture all outdoor wash water. Utilize oil separators and ensure that wash water is directed toward the sanitary sewer system and that it never discharges into the street, gutter, or storm drain.
- ✓ Use biodegradable, phosphate-free, water-based soaps. Do not use solvents. Avoid using cleaning products that contain hazardous substances such as hydrofluoric acid, sodium hydroxide, bleach, muriatic acid, etc.
- ✓ Minimize water use. Utilize flow-restricted nozzles that automatically turn off when left unattended. Use a spray nozzle or bucket when possible to conserve water and minimize wash water.
- ✓ If pressure washing to clean surfaces such as equipment, parking lots, sidewalks, or buildings, collect the wash water and debris and properly dispose of each in the sanitary sewer system and garbage. Pressure washing and capture can reduce the amount of pollutants that may end up in waterways during a heavy rain event.





OUTDOOR WASHING



Containment System



Wash Water Drainage Prevention

Pollution Prevention Techniques for Outdoor Washing and Cleaning

- ✓ Outdoor vehicle washing requires a permit from MDE. Maryland General Permit No. 21-VW for the Discharge of Exterior Vehicle Wash water to Groundwater from Commercial and Business-Related Vehicle Washing Operations must be obtained prior to outdoor washing. For more information, visit the website below.
<https://mde.maryland.gov/programs/water/wwp/pages/16-vw.aspx>
- ✓ An outdoor washing operation should take place in a designated wash area on a paved impervious surface such as concrete and on wash pad that has a containment system to contain the wash water. The area should be sloped so that wash water is collected and discharged to the sanitary sewer system, holding tank, or dead-end sump pump and away from the storm drain system.
- ✓ Utilize temporary berms, storm drain covers, drain plugs, or other containment systems. Do not discharge wash water into subsurface disposal systems such as septic systems, dry wells or seepage pits.
- ✓ Label storm drains with "No Dumping, Drains to Chesapeake Bay" signs to prevent wash water drainage to inlets.
- ✓ Avoid engine and undercarriage washing which produces high pollutant concentrations. Do this indoors.
- ✓ Train employees on proper techniques to confine washing operations and prevent pollution.



Harford County Stormwater Pollution Prevention



SOLID WASTE MANAGEMENT

Proper waste management and disposal can play a very important role in reducing the amount of litter and pollutants entering the storm drain system and polluting waterways. Dumpsters and solid waste disposal can contribute to water pollution when leakage occurs with emptying, when drain plugs or lids are open, or if the bottom is damaged or rusted.



Uncovered Dumpster



Leaks and Spills

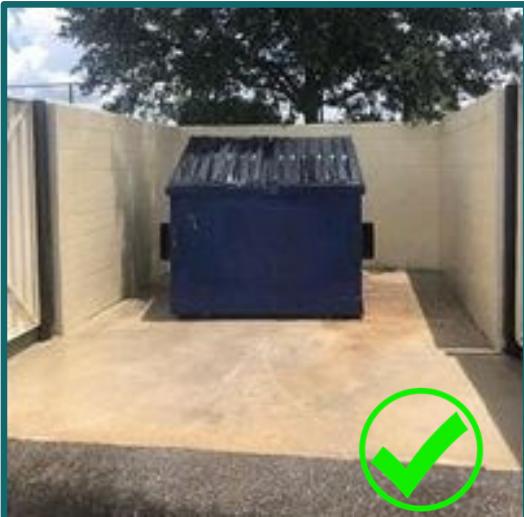
Pollution Prevention Techniques for Solid Waste Management

- ✓ Keep dumpsters under cover or ensure they have working lids. Ensure container lids fit securely, are watertight, and are closed at all times. Open lids allow contact with storm water which dissolves and transports pollutants into the storm water system.
- ✓ Walk the site and inspect dumpsters, trash cans, and trash compactors for leakage. Ensure dumpsters and waste containers are in good condition with no holes or accumulation of grime
- ✓ Trash containers should be leak free. If any leaks are found, take action to prevent and contain further leakage. Call your trash hauler to replace any dumpsters that are damaged or leak.
- ✓ Dispose of all unwanted toxic materials like cleaners, solvents and detergents through a hazardous waste hauler.
- ✓ Minimize storage of scrap metal by disposing of it periodically. Cover any trash stockpiles with impervious cover to prevent release of pollutants.
- ✓ Ensure all garbage is bagged and placed securely inside dumpsters with lids and doors closed. If roll off dumpsters are used for waste material, they should be covered with a tarp.





SOLID WASTE MANAGEMENT



Clean Concrete Dumpster Pad



Covered Dumpsters in Clean Area

Pollution Prevention Techniques for Solid Waste Management

- ✓ Designate an area for trash collection away from storm drains and on a concrete or impervious surface. Design waste handling areas to contain spills and prevent contact with stormwater.
- ✓ Post signs to remind employees of good housekeeping practices and proper use.
- ✓ Keep the trash collection area clean, dry, and free of debris. Sweep the area regularly. Collect trash and litter before it can be washed into the storm drain system. If any leaks or spills are detected, clean with dry practices.
- ✓ Schedule pickups with solid waste contractors frequently and don't allow overflow.
- ✓ Ensure dumpsters are disconnected from storm drain systems by keeping dumpsters and runoff from away from any inlets or storm drain systems.
- ✓ Minimize the amount of liquid disposed in dumpsters. Do not fill with large amounts of liquid waste. Do not hose out a dumpster to clean it unless flow is sure to be captured and directed to a sanitary sewer system.





LOADING & UNLOADING

Materials spilled or leaked during loading and unloading can either be carried away in stormwater runoff or washed off when the area is cleaned. As a result, many different pollutants can be introduced to the storm drain system, including sediment, nutrients, trash, organic material and trace metals. The risk of stormwater pollution is greatest for operations that transfer high volumes of material or liquids or unload potentially hazardous material. Special attention should be paid to the loading and offloading of bulk materials.



Trash and Debris



Open Trench Drain

Pollution Prevention Techniques for Loading and Unloading Areas

- ✓ Avoid loading and unloading materials in the rain.
- ✓ Inspect the integrity of all containers before loading/unloading.
- ✓ Train all employees, especially forklift operators, on good housekeeping practices and post signs.
- ✓ Design liquid storage areas with impervious surfaces and secondary containment.
- ✓ Cover adjacent storm drains during loading and unloading operations to keep debris out.
- ✓ Sweep loading/unloading area surfaces frequently to remove material and debris. Don't wash by hosing the area down. Collect trash and litter before it can be washed into the storm drain system.



Harford County Stormwater Pollution Prevention



LOADING & UNLOADING



Loading Dock Seal



Spill Containment

Pollution Prevention Techniques for Loading and Unloading Areas

- ✓ Cover loading/unloading areas with a canopy or roof if possible and surround the loading/unloading areas with berms or grading to prevent contact with or pooling of stormwater.
- ✓ Place drip pans at locations where leaks or spills may occur and always use pans when making and breaking connections.
- ✓ Position roof downspouts to direct stormwater away from loading/unloading areas and preferably into stormwater best management practices such as bioretention areas.
- ✓ Use seals, overhangs, or door skirts on docks and terminals to prevent contact with rainwater.
- ✓ Ensure that a trained employee is always present to handle and cleanup spills and have an Emergency Spill Cleanup Plan prepared for the facility.
- ✓ Pave the loading/unloading area with concrete rather than asphalt.





PARKING LOTS AND VEHICLE STORAGE

Parking lots and vehicle storage areas can introduce sediment, metals, oil and grease, and trash into stormwater runoff. Simple good housekeeping practices including pavement sweeping, litter control, spill prevention and proper clean up, and stormwater treatment practices can minimize pollutant export from these hotspots. The largest, most heavily used parking lots with vehicles in the poorest conditions have the highest potential for pollution.



Oil Spill



Trash and Debris

Pollution Prevention Techniques for Parking Lots and Vehicle Storage Areas

- ✓ Post signs to control litter and prevent patrons from changing automobile fluids in the parking lot.
- ✓ Do not store wrecked vehicles on lots unless runoff containment and treatment are provided. Place large drip pans under wrecked cars until all fluids are drained; do not allow drip pans to overflow
- ✓ Walk the property monthly to find and fix leaks and to clear any debris from storm drains.
- ✓ Inspect storm drain catch basins twice a year and remove accumulated sediments as needed.
- ✓ Direct runoff water to bioretention areas, vegetated swales, or sand filters (BMPs).
- ✓ Do not allow rooftop gutter drains to discharge to paved surfaces.
- ✓ Monitor parked vehicles and equipment and place drip pans under leaks to collect fluids for proper disposal into labeled sealed containers.

****Hazmat Emergency Number: 410-638-3529****



Harford County Stormwater Pollution Prevention



PARKING LOTS AND VEHICLE STORAGE



Emergency Spill Kit



Sweeper Truck

Pollution Prevention Techniques for Parking Lots and Vehicle Storage Areas

- ✓ Vacuum or sweep parking lot monthly.
- ✓ Stabilize unpaved lots.
- ✓ Train employees on spill prevention and good housekeeping practices.
- ✓ Pick up litter, cigarette butts, and packaging waste daily and provide trash receptacles to discourage littering.
- ✓ Stencil or mark storm drain inlets with "No Dumping, Drains to Chesapeake Bay" message.
- ✓ Have an emergency spill kit on hand.
- ✓ Properly clean up any spills by:
 - Using dry methods such as cat litter, sand, rags, or oil dry
 - Using drain mats to cover drains in the event of a spill
 - Promptly and properly dispose of collected fluids into secondary containment vessels
 - **Immediately report any spills which have entered the street, gutter, or storm drain system to Harford County HAZMAT 410-638-3529**



Harford County Stormwater Pollution Prevention



OUTDOOR STORAGE

Protecting outdoor storage areas is a simple and effective pollution prevention practice for many commercial, industrial, municipal and transport related operations. The goal for outdoor storage pollution prevention is to prevent contact between stormwater runoff (rainfall) and outdoor materials in order to prevent runoff contamination. Unprotected outdoor storage areas can generate a wide range of stormwater pollutants, such as sediment, nutrients, toxic materials, and oil and grease.



Uncovered
Outdoor
Storage



Pollution Prevention Techniques for Protecting Outdoor Storage Areas

- ✓ If possible, store all materials inside. If this is not feasible, all outside storage areas should be covered with a roof and enclosed to prevent storm water contact. Utilize secondary containment measures.
- ✓ Keep an up-to-date inventory of materials stored outdoors and try to minimize them. Label all waste containers.
- ✓ Train employees on proper material storage and proper techniques for spill containment and cleanup.
- ✓ Cover and contain stockpiles of raw materials to prevent stormwater from running into the covered piles. Covers must be in place at all times when work with the stockpile is not occurring.



Harford County Stormwater Pollution Prevention



OUTDOOR STORAGE



**Covered Secondary
Containment**



**Covered Raw Material
Stockpile**

Pollution Prevention Techniques for Protecting Outdoor Storage Areas

- ✓ Ensure all outdoor storage containers have lids and that they are kept closed. Keep materials and waste off the ground, under roof, and away from places with exposure to precipitation. Consider storing materials on pallets to elevate them. If a roof is not possible, cover the materials securely with an impervious material.
- ✓ Store liquids in covered labeled containers. Barrels and containers with any amount of hazardous material such as oil, chemicals, batteries or paint must be properly labeled, placed in secure containers, and stored in a covered area.
- ✓ Inspect outdoor storage containers regularly to ensure that they are in good condition. Perform inspections by walking the site to look for materials stored outside on a temporary or permanent basis that are exposed to rainfall and amend any issues found.
- ✓ Position roof downspouts to direct stormwater away from loading and unloading areas. Prevent runoff from reaching storm drain inlets. Ensure there are no streak or stain lines on the way to the storm drain. If these are found, resolve the issue.
- ✓ Keep storage areas clean and dry. Minimize trash. Keep lids on trash/recycling cans, bins, and other outdoor containers. Collect all trash, litter, or debris before it can be washed into the storm drain system.

