



## MS4 DEPARTMENT MONTHLY REPORT

February 25, 2023 – March 31, 2023

### NOTEWORTHY ITEMS

- ❖ Performed rain garden and pollinator pot planning to prepare for spring planting.
  - Inspected rain gardens and pollinator pots to assess needs for upcoming plantings, restoration, and maintenance.
  - Finalized 2023 plan and contract with Land Studies to include new plant plugs.
  - Purchased soil to replenish pots as needed.
  - Scheduled replanting sessions of pollinator pots with Lemoyne volunteer and garden expert Donna Royal.



- ❖ Routine storm drain inspections found sinkhole next to drain #799 on 12<sup>th</sup> St. Maintenance Staff filled and repaired hole.



- ❖ Reviewed drafts of Lemoyne Borough's Comprehensive Recreation, Parks, and Open Space Plan and researched accuracy; consulted with staff members, Council members, committee members, and other professionals to discuss drafts and potential revision requirements.



## MS4 DEPARTMENT MONTHLY REPORT

- ❖ Reviewed specifications for upcoming MS4 improvements for 3<sup>rd</sup> St and 9<sup>th</sup> St projects prior to releasing for bid requests. These projects will add additional storm drains and underground infrastructure to reduce flooding, erosion, and issues caused by stormwater in these areas.
- ❖ Continued advanced preparation for 2023 Walnut St / Unnamed Tributary Stormwater Project.
  - Along with Borough Engineer and Maintenance Superintendent, hosted meeting with affected homeowners where easement is required.
    - Reviewed scope of work and planned next steps of project and legal process.
    - Explained process and future impacts to property owners unable to attend who requested more information.
  - This project is designed to reduce the volume, velocity, and pollutant load (including nitrogen, phosphorous, & sediment) of stormwater that flows into our tributaries and the Susquehanna River, and it will allow us to meet 2023 permit requirements for Lemoyne Borough's MS4 Pollutant Reduction Plan, approved by the PA DEP.
- ❖ Inspected storm drain on 400 block of S. 3<sup>rd</sup> St. during heavy rainfall.
  - Inspections showed trail of chemical residue running down the driveway, streaming to the curb, and flowing from the curb line onto the sidewalk and directly into the storm drain.
  - The trail of black liquid leading to the affected storm drain and the puddles of liquid along the curb, thick accumulation next to the storm drain, and visible inside the storm drain displayed a distinct oily sheen and rainbow color, indicating the presence of hydrocarbons.
  - Met with manager of facility during inspection and detailed the violations – pointed to visible trail of black, oily liquid trailing from business directly into storm drain and that business must cease and desist all activities leading to illicit discharge into storm drain.
  - Educated available staff members that this is considered Illicit Discharge and is a violation of EPA and DEP regulations as well as Lemoyne Stormwater Ordinance.
  - Explained the damage these pollutants cause in storm drains and infrastructure and the potential to poison stormwater leading directly to Susquehanna River.
  - Sent Notice of Violation letter with documented case history evidence and request for corrective action plan with compliance date to both local business and parent company.



## MS4 DEPARTMENT MONTHLY REPORT

- ❖ Follow up inspections on Outfall Pipe 008 located off Bottleneck. Many inspections showed clear water draining out of outfall pipe in all weather conditions. However, a few days showed evidence of illicit discharge in upstream storm drains.
  - 03/07/23 showed cloudy running water with high velocity outfall and no visible suds or bubbles on rocks or near outfall area.
  - 03/27/23 showed areas of bubbly and light foamy stormwater runoff during moderate rain event. No foam or suds on rocks adjacent to outfall.
  - 03/30/23 showed very heavy opaque foam and suds with bubbling during moderate stormwater outfall; no visible suds or foam on adjacent rocks.



- ❖ Investigated unpermitted dig of stormwater infrastructure on 100 block of Market St.
  - Consulted with multiple departments and staff members to ensure accurate information and cohesive process for resident.
  - Found large excavation in progress upon arrival at site.
  - Educated resident regarding process of necessary permits and drawn plans that require Borough approval prior to beginning excavation.
  - Resident immediately filed appropriate permits with plans with Borough, which were later approved by Codes Enforcement and Borough Engineer.



## MS4 DEPARTMENT MONTHLY REPORT

- ❖ Contacted several nearby municipalities to conduct interviews with staff members regarding housing and care of chickens in urban areas for upcoming public meeting. Only a few municipalities have returned my call thus far. Will share feedback when more municipalities respond!



- ❖ MS4 staff performed heavy duty cleaning of clogged storm drain, inlet, and vegetated swale at 5th St & Washington Terrace by shoveling out and clearing leaves, debris, severely compacted dirt, and some eroded bank.

Before



After



- ❖ After heavy winds & rains, removed leaves from Woodside Park and cleared leaves, debris, and trash from tributary and stormwater inlet and outlet running through park.





## MS4 DEPARTMENT MONTHLY REPORT

- ❖ This month brought several days of heavy rainfall, with some storms accompanied by blustery winds and some bringing snow and sleet.
  - Prior to weather events, inspected and prepped drains in anticipation of heavy precipitation.
  - Cleared trash, debris, pine needles, leaves, and skid stones out of storm drains, inlets, rain gardens, and swales prior to, during, and after storms throughout month to prevent localized flooding and reduce pollution in storm drains.



- ❖ Met with National Fish and Wildlife Foundation Field Liason.
  - Discussed upcoming grant opportunities and requirements for Chesapeake Bay Stewardship Fund Small Watershed Grants – a program through the partnership of the EPA and the federal-state Chesapeake Bay Program partnership.
  - Brainstormed ideas about how we can plan future Lemoynes projects to become more competitive as applicants, i.e. with habitat restoration and conservation priorities.



- ❖ **ARBOR DAY FESTIVAL** – Memorial Park event Saturday, 4/29/23, 10 am – 2 pm
  - Educational outreach event for children and adults including demonstrations, live animals, art projects, crafts, giveaways, and hands-on STEM activities.
  - Learn about the importance of native trees and plants in providing clean water, mitigating stormwater pollution, and balancing the ecosystem.
  - Our vendors will show you how to help our birds, pollinator insects, and wildlife at home through fun activities.



## MS4 DEPARTMENT MONTHLY REPORT

- ❖ Please email Kasha Griva [kgriva@lemoynepa.com](mailto:kgriva@lemoynepa.com) or 717-317-1412 if you would like to participate in our event, volunteer, sponsor, host a table or educational activity, or refer another organization!
  - Created new flier to be sent out to local schools for to advertise event; gained necessary approvals from school district administrators; send flier to Dauphin County Library for bulk printing at a significant savings.
  - Ongoing communications with approved and potential vendors and sponsors, local and national organizations, participants, staff, etc. to facilitate event.

**We look forward to seeing you at the festival!** Here are some of the organizations joining our Festival:

### PRESENTATIONS:

- ✓ **Fairhaven Healing – 10:00 am:** “Saving the Monarchs” – presenting how to restore local Monarch population
- ✓ **DCNR Environmental Educators – 11:00 am:** demonstrating PA native owls that depend on our trees; will have owl mounts (taxidermy), wings, etc.
- ✓ **Hershey Zoo – 12:00 pm:** demonstrating live PA native animals that depend on our trees
- ✓ **Whitaker Center** – providing hands-on watershed activity & display of Pennsylvania butterflies and moths as well as take home materials

### SPONSORS:

- ✓ **Highland Gardens & John Leverentz** – donating gift card for Trees or Shrubs at Highland Gardens
- ✓ **Karns Foods** – donating paper bags for participants and gift card w/ gift basket as prize
- ✓ **HAAS Printing & AIMSights/ Marsha Everton** – donating custom professional coloring books
- ✓ **Oak Tree Comics** – donating tree-themed educational coloring pages for coloring book, custom bookmarks, and a copy of their book *Do You Speak Tree?*
- ✓ **Boscov’s of Camp Hill** – donating packets of sunflower seeds to give to participants and table sign
- ✓ **Fairhaven Healing** – donating packets of milkweed and giveaways for participants
- ✓ **PASA Sustainable Agriculture** – donating vouchers for free native trees
- ✓ **Members 1<sup>st</sup>** – promotional table with art activity painting flowerpots & event-themed prize

### COMMUNITY PARTNERS:

- ✓ **Fredricksen Library** – informational table displaying library books/ offering library services; hands on activities: 1. composting bin with worms and 2. digging bed w/ dirt, seeds, shovels, vegetables, etc.
- ✓ **PASA Sustainable Agriculture** – educational table; providing voucher for free trees & hands on Urban Forest Model table



## MS4 DEPARTMENT MONTHLY REPORT

- ✓ **PA Rural Water** – Augmented Reality Sand Table – show our local topography and teach about our watershed through sand play
- ✓ **Penn State Master Watershed Stewards** – educational table with hands on activities, including: 1. Stream in a Bucket and 2. Watershed Table
- ✓ **Penn State Master Gardeners** - educational activity and resources on native trees and plants, rain gardens, pollinator-friendly gardens, pollinators, etc.
- ✓ **PA American Water Environmental Educators** – hands on Watershed experiments & giveaways; WaterMobile onsite
- ✓ **DCNR Bureau of Forestry**– Cumberland County Forester will host educational table with take home materials.
- ✓ **Move Past Plastic** – educational table showing how plastics impact stormwater runoff, our watershed, and highlight proper recycling
- ✓ **Conodoguinet Creek Watershed Association** – informational table and kids’ activity
- ✓ **West Shore Historical Society** – informational table with photos of historic local flooding and kids’ coloring activities
- ✓ **Recycle Bicycle** – free minor bike repairs, teaching bike/ helmet safety & how to ride bikes, bike donations
- ✓ **Lemoynne Borough Comprehensive Recreation, Parks, & Open Space Plan** – educational table demonstrating new plans for our parks
- ✓ **Lemoynne Borough MS4 Department** – educational table – watersheds/rain gardens/native plants/runoff
- ✓ **Lemoynne Borough Shade Tree Commission** – educational table – native trees, gift card prizes, etc.
- ✓ **Rock-It Pizza & Subs** – food truck

