

#### **Unpaved Road Maintenance**

#### Introduction

### **Environmental impacts of road runoff**

- direct abrasion with fish & other aquatic life
- increased turbidity
- sediment carries road salts, metals, etc
- changes channel composition

- loss of habitat
- invertebrates
- fish spawning
- increased nutrients and algae growth
- filling in and eutrophication of lakes & wetlands
- decreased Dissolved Oxygen



### **Unpaved Road Maintenance**

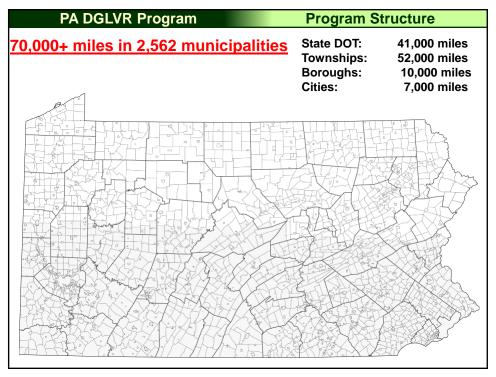
### Introduction

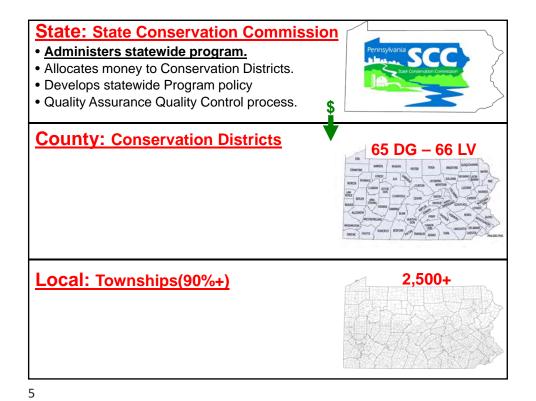
#### **Economic impacts of road runoff**

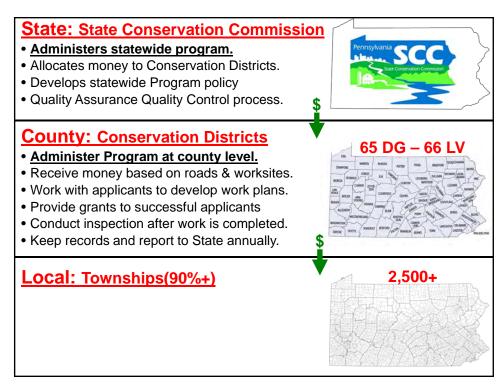
- purchased material is washing away
- washouts
- maintenance activity is required to fix erosion
- Money
- reduces life evelor surface
- Time
- reduces life-cycle: surface needs to be replaced sooner
- Public Safety



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#### **State:** State Conservation Commission • Administers statewide program. • Allocates money to Conservation Districts. Develops statewide Program policy Quality Assurance Quality Control process. **County: Conservation Districts** 65 DG - 66 LV · Administer Program at county level. • Receive money based on roads & worksites. • Work with applicants to develop work plans. Provide grants to successful applicants Conduct inspection after work is completed. • Keep records and report to State annually. Local: Townships(90%+) 2,500+ • Boroughs, cities, and state agencies also eligible • Must be "ESM Certified" within last 5 years. • Apply to Conservation District for funding. • Enter into contract with Conservation District. • Complete project work or hire sub-contractors.

#### **PA DGLVR Program**

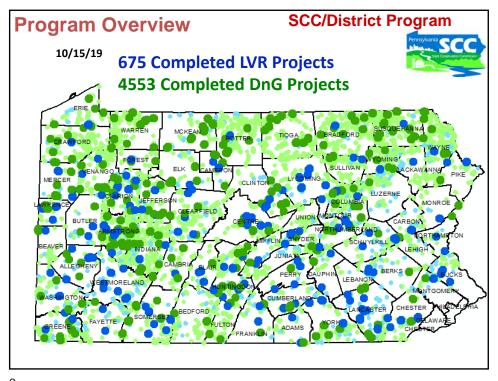
#### **Program Structure**

# Why PA Department of Agriculture and County Conservation Districts?



- Experience with soils, erosion control, water quality
- Local knowledge and connections
- Standalone Program to keep environmental focus



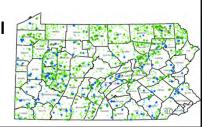


#### PA DGLVR Program

**Program Status and Future** 

#### **Program Spending, 1997 to 2019**

- \$141 Million+ spent on completed sites
- \$52 Million+ in-kind on those projects
- \$36 Million+ committed to active sites
- Annual Allocation remains at:
  - \$20M: municipal Dirt and Gravel
  - \$8M: municipal paved LVR
  - \$7M: DCNR Dirt and Gravel



## Dirt, Gravel, and Low-Volume Road Maintenance Program

#### **Project Summary**

County: McKean

Applicant: Keating Township

Prj Type: Dirt and Gravel

D&G Funds: \$13,300.59

In-Kind Funds: \$4,918.00

Total Prj Value: \$18,218.59

Rd Name: <u>Prospect Hollow</u> Status: <u>complete</u>

#### **Brief Project Description**:

- Severely entrenched road with a poor clay base

- Undersized stream crossing

- Add geotextile woven fabric

- Raise road profile 12" with crushed shale stone to achieve sheet flow in some areas
- Added 2 new crosspipes
- Replace stream crossings with larger bankfull pipe

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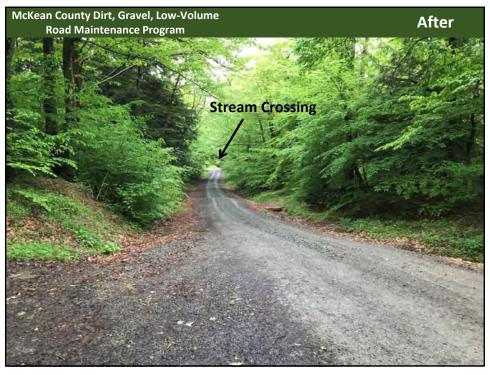












#### Dirt, Gravel, and Low-Volume **Road Maintenance Program**

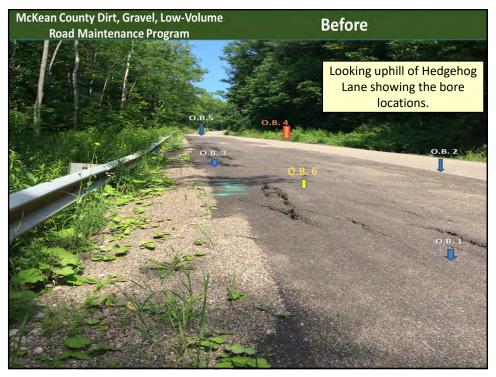
#### **Project Summary**

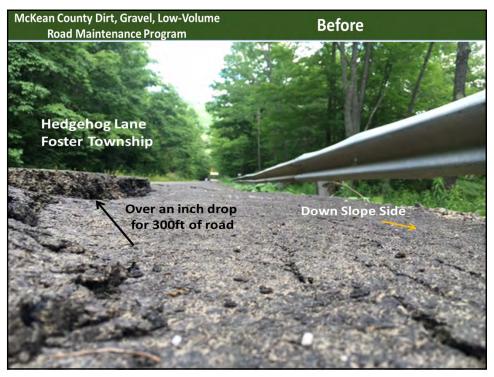
County: McKean **LVR Funds**: *\$72,912.50* **Applicant**: Foster Township In-Kind Funds: *\$23,313.00* Prj Type: Low Volume Total Prj Value: \$96,225.50 Rd Name: <u>Hedgehog Lane</u> Status: complete

**Brief Project Description:** 

- Shift the road and abandon south failing lane
- Excavate and place existing asphalt and road base material from south lane over geo-fabric compacting in 8 inch lifts
- Replace 1 cross pipe
- Install elbows, and risers on all 3 cross pipes within project area
- Install french drain connect with 3 cross pipes
- Resurface new lane









### Dirt, Gravel, and Low-Volume Road Maintenance Program

#### **Funding**

- 20 of the 22 municipalities eligible
- DGR Funds Spent Since 1997
  - \$\$1,075,169.12 on Projects
  - \$ \$135,869.01 on Administration
  - \$ \$100,925.63 on Education Efforts
- LVR Funds Spent Since 2014
  - \$\$245,053.08 on Projects
  - \$ \$3,919.44 on Administration
  - \$ \$10,653.20 on Education Efforts