Education and Outreach Ideas

Volume Road Program

Dirt, Gravel, and Low

<u>SCC</u> Sherri Law Juniata CCD Lori Glace Allegheny CCD Riley Kinney



JUNIATA COUNTY CONSERVATION DISTRICT

Allegheny County Conservation District

Photo: Cumberland County Conservation District Demo Day

Introduction

- Education and outreach by conservation districts is essential to local DGLVR Programs
- This presentation will share ideas from across the state



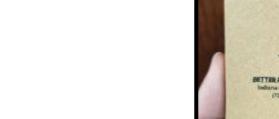
Cumberland CCD outreach



Introduction

- Reminder: Districts can use up to 10% of DGLVR allocations for education expenses
 - Includes \$1,000/year for promotional items (or more with SCC approval)

Indiana CCD promotional items





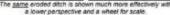




DGLVR Education & Outreach Resources

- Recorded webinars
 - <u>https://dirtandgravel.psu.edu/education-</u> training/webinars/past-webinars/
 - January 17, 2017: CD Education and Outreach Ideas
 - April 3, 2018: Taking Better Project Photos
- Technical Bulletin on Photo Tips
 - <u>https://dirtandgravel.psu.edu/wp-</u> content/uploads/2022/06/TB Photo Tips.pdf
- Flyers for Outreach (Blank Forms webpage)
 - DGLVR Handout for New Participants
 - <u>Example DGLVR Projects</u>



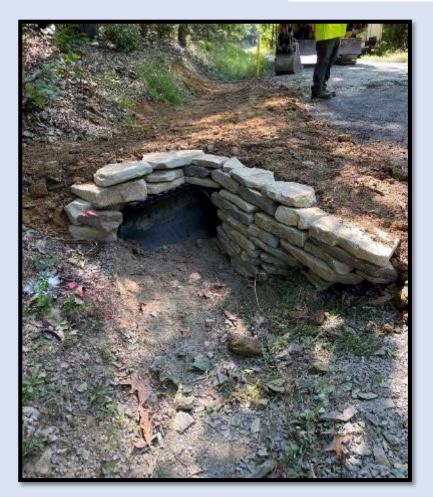


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Outline

- Communication tips
- Participate in existing events
- Organize your own events
- Publicity
- District examples
 - Allegheny & Juniata CCDs





- Know your audience
 - What does the road owner care about?
- Consider word choice
 - Define any terms your audience may not be familiar with
- Don't assume program participants already know DGLVR details
 - Provide all of the info they will need





- How to get new participants' attention:
- Advertise!
 - Free money (grant funding)
 - You can help fix their issues
 - Save time and & money on road maintenance
 - Free food
 - Promotional items
 - Bonus points on grant application ranking
 - Continuing education credits (engineers)

Funds Available to Fix Water Issues on Public Roads

PA Dirt, Gravel, and Low Volume Road Program



Dirt and Gravel Road project: 1,300 tons of road fill roised and shaped the road to shed stormwater into the ditches. 5 new shallow cross pipes with broad based dips and 6 new turnouts outlet water from the ditches into vegetated areas, 810° of underdrain prevents subsurface water from saturating the roadway. New surface aggregate finished the project.

Water is a leading reason why roads deteriorate.

Improving water management on roads reduces routine maintenance needs, saving time and money.

PA county conservation districts have grant funding available for public road owners to correct water issues on public roads.

The Dirt, Gravel, and Low Volume Road (DGLVR) Program

provides grant funding to municipal and state entities to fix water issues on public



Cross pipes are commonly used in DGLVR

projects to direct water away from the

road and nearby streams.

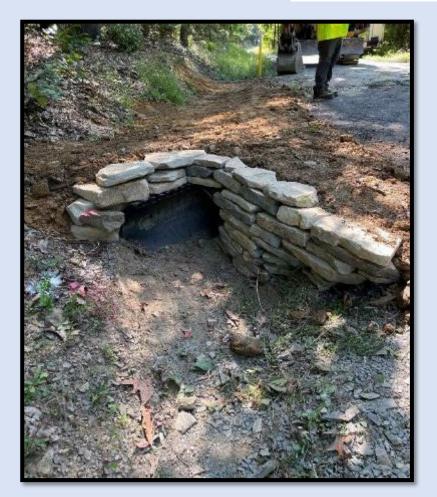
- roads near streams, lakes, and wetlands.
- Funds are for unpaved roads and paved roads with low traffic.
- Funded projects focus on spreading out and slowing down storm water to prevent roads from washing out.
- Projects can also address road surfacing, subsurface water issues, road base and ditch instability, undersized stream crossings, road bank slides, and more!



Public roads that drain to streams or otherwise impact water quality are likely eligible for DGLVR funding.

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- Pennsylvania SCC State Conservation Commission
- Can save time and money by participating in existing events instead of organizing the whole event for DGLVR purposes
- Options vary locally but commonly include:
 - Council of Governments (COGs)
 - "_____ County Association of Township Supervisors" (or Boroughs)
 - Equipment shows
 - Public Works Department Events
 - County Fairs
 - PA One Call regional events/annual conferences
 - Events your conservation district is already doing:
 - Legislative Breakfasts, bus tour of completed projects, engineers' workshops, etc.
 - Any other event with your target audience

- Ways to Participate in a local event:
 - Have a booth or table
 - Run an ad in their booklet/flyer/etc.
 - Present a classroom session or give a talk
- Tips for tables
 - Hand out candy & promotional items
 - Show before and after photos of projects
 - bulletin on photo tips available
 - Various paperwork handouts

CDGRS table at PSATS Convention in Hershey, PA





- Provide paperwork handouts:
 - CD contact info
 - ESM training dates
 - Local policies
 - Application due date
 - Pre-application meeting requirements
 - Funding available
 - Info about the DGLVR Program
 - Annual Summary Report
 - Stream Continuity Pamphlet
 - NEW handouts
 - DGLVR summary & example photos
 - Create local flyers example later
 - Technical bulletins

What is "Stream Continuity"?

Continuity simply means: "uninterrupted connection"

Stream continuity means that the stream is very similar in character upstream, downstream, and through the road crossing. This includes features such as slope, streambed material, channel width and shape, pool/riffle sequencing, and connectivity to its floodplain.



Continuity is a wholistic approach that looks at the entire reach of stream, not just the crossing.

Stream Connectivity in PA

Designing stream crossings for continuity is catching on in PA. A variety of organizations such as the PA State Conservation Commission (SCC), PA Department of Environmental Protection, PA Fish and Boat Commission, PA Game Commission, Trout Unlimited, PA Bureau of Forestry, Western PA Conservancy, and others are actively trying to spread the message of stream continuity. While other standards exist nationally, the documents described on the back are the only PA standard, and only apply for PA DGLVR projects.

More information:

Efforts to design stream crossings for connectivity extend beyond PA. Several states in the Northwest and New England provide standards for stream continuity. The most comprehensive guidance is from the US Forest Service and their "Stream Simulation" approach. More information at: https://www.fs.usda.gov/biology/education/works

hops/aop/index.html (or search USES Stream Simulation)

DGLVR Stream Continuity Flyer on Stream Crossings webpage: <u>https://dirtandgravel.psu.edu/stream-crossing-replacements/</u>

PA Dirt, Gravel, and Low Volume Road Maintenance Program

The PA DGLVR Program provides \$28 million annually in grant funding for environmental and road improvement projects on publicly-owned roads. The PA State Conservation Commission (SCC) administers the program at the state level. County conservation districts administer the program within each county. Local public road owning entities, largely townships, apply to their district for funding, awww.ditrandgravelroads.org.

The DGLVR Program funds a variety of other practices, but typically installs about 60 stream crossing replacements annually. In July of 2022, the SCC, working in collaboration with the Penn State Center for Dit and Gravel Road Studies and others, approved a comprehensive set of stream crossing documents for program use:

Policy: Requires use of standard and outlines other trainings, reviews, and inspection requirements.

Standard: Design and installation standard for new stream crossings. Provides requirements and information for engineers on project design, construction inspection, and more.

Technical Manual: Comprehensive guidance document in support of the Policy and Standard above. Most of the manual is written for conservation district staff administering projects through the PA DGLVR Program, with chapter 12 being dedicated to design engineers.

Documents: https://dirtandgravel.psu.edu/generalresources/stream-crossing-replacements/ (or search "DGLVR stream crossings")

The above documents are only required for projects funded by the PA DGUVR Program. The documents are publicly available for others interested in stream continuity projects.



Designing Stream Crossings

for Connectivity,

Continuity, and Storm

Resiliency in Pennsylvania

BEFORE



What is the DGLVR Program?

Pennsylvania's Dirt, Gravel, and Low Volume Road (DGLVR) Program provides education, technical assistance, and grant funding to local public-road-owning entities throughout the state. The Program dedicates \$20 million to unpaved roads and \$8 million to paved low volume roads (LVRs) traveled by fewer than 500 vehicles per day. The Program's goal is to implement Environmentally Sensitive Maintenance Practices aimed at reducing the environmental impacts of public roads while reducing long-term maintenance costs. The PA State Conservation Commission (SCC) administers the program at the state level and allocates funding to conservation districts in 66 counties throughout Pennsylvania. Owners of public roads apply for grants at their local county conservation district. and work with them to complete projects. The Penn State Center for Dirt and Gravel Road Studies provides education, outreach, and technical assistance for the Program. More information is available at: www.dirtandoravelroads.org.

BEFORE

BEFORE

BEFORE

Jefferson County, Heath Twp. Spring Creek Road - unpaved

Roadside springs saturated the existing road and ditches, causing them to become soft, unstable, and rutted. Multiple underdrains and two French Mattresses were installed to handle subsurface drainage. Geotextile fabric was utilized along with over a foot of new road base to stabilize the road surface

Washington County, Donegal Twp. Wilhelm Road - paved LVR

This existing multi-pipe stream crossing was prone to clogging and flooding. A new 16' wide bottomless aluminum box culvert was installed. The streambed was reconstructed through the structure including a low-flow channel, stream bank margins, and three riffles for grade control.

Delaware County, Newton Twp. Paper Mill Road - paved LVR

This project was located at an intersection of two low volume roads that was prone to flooding and washouts. A vegetated stormwater basin was created to handle road runoff issues. The basin outlets using a 24" riser with a trash rack and backflow preventer to prevent flooding from the adjacent stream.

Somerset County, Stoneycreek Twp. Yonai Road - unpaved

This road is located in a floodplain that is frequently inundated by backwater from a nearby stream confluence. A large French Mattress with a bank of pipes was installed to allow floodwater to pass under the road and raise the road out of the floodplain, providing traffic support.





AFTER





Frequent Issues Addressed by the DGLVR Program











Direct Drainage to Streams:

The "simplified" purpose of the DGLVR Program since its inception in 1997 is to "keep the mud out of the streams". Unfortunately, road ditches often wash soil and road material directly to streams that lie at low points of the landscape. The Program implements a wide variety of practices to break up concentrated water runoff, spread it out, encourage it to soak into the ground, and keep road sediment out of the stream.

Springs and Seeps:

Pennsylvania is blessed with a plentiful supply of groundwater. Unfortunately, this groundwater often creates problems on both paved and unpaved roads by saturating and weakening the road base and surface. Practices such as underdrains and French mattresses can be used to intercept this subsurface water before it impacts the road.

Landslides:

Slides can be a common problem, especially on steep slopes. They are frequently caused by poor soils and oversaturation of the road base. Left unaddressed, slides can lead to unsafe conditions, road failures, or road closures. Fixes for slides vary greatly in scope and cost, but can include retaining walls, base excavation and rebuilding with geotextile fabric, sheet piling, or installation of soil nails or screws.

Undersized Stream Pipes:

Stream pipes and bridges are often undersized to save on initial construction costs. Unfortunately, this often results in additional long term maintenance costs, along with a host of other environmental issues, over the life of the structure. Since 2015, the Program has limited stream crossing replacements to undersized crossings and has implemented policy to guide new structure installation. See page 3 inside for more details.

Inadequate Road Base and Shape

Road material is expensive, and often unpaved or low traffic paved roads are neglected in favor of resurfacing higher traffic routes. Practices such as adding competent road base material, raising the road profile, French mattresses, underdrains, and Driving Surface Aggregate (DSA) can be used to make the road the high point so water drains off of it while supporting the weight of traffic

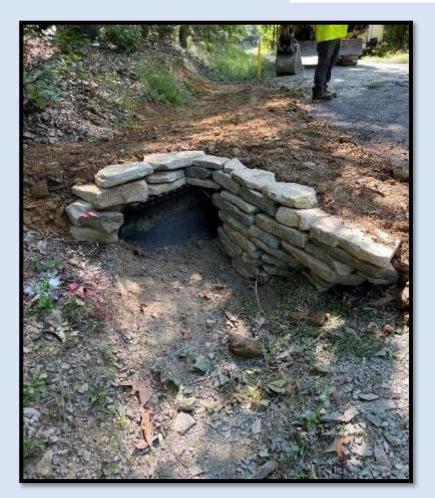


This document was prepared jointly by the PA State Conservation Commission (SCC) and the PSU Center for Dirt and Gravel Road Studies through a contract with the SCC. and the PSU Genter for Diri and Gravel road Guards and districts in January 2024. For Criter for Diri and Gravi Read Studies more information, visit www.dirtandoraverroads.org.



Outline

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- Organize your own events
- Publicity
- District examples
 - Allegheny & Juniata CCDs





- You have the freedom to make this whatever you want
 - Provide enough time for you to present the info you want people to know
 - Focus on common issues/points of confusion



Allegheny CCD municipal outreach session



- Local workshop
 - Provide updates on your local DGLVR Program
 - Funding available for the next year
 - Policy updates (local or state-wide)
 - Local procedures, due dates, etc.
 - Provide education on hot topics
 - Administrative or technical
 - Can invite other speakers as well
 - SCC, CDGRS, other CD staff, etc.
 - Celebrate quality work
 - Review completed projects
 - Awards for good projects/grant recipients







- Demonstration Day
 - Invite road owners to see active ESM practice installation
 - Could be part of a regular DGLVR project or a demonstration project funded for educational purposes
 - Can include classroom session
 - Could show multiple sites/ beforeduring-after
 - Offer drinks and snacks
 - Invite neighboring road crews to help build DGLVR projects and they will learn in the process

Shallow cross pipe demonstration at ESM Bootcamp





• Municipal Visits

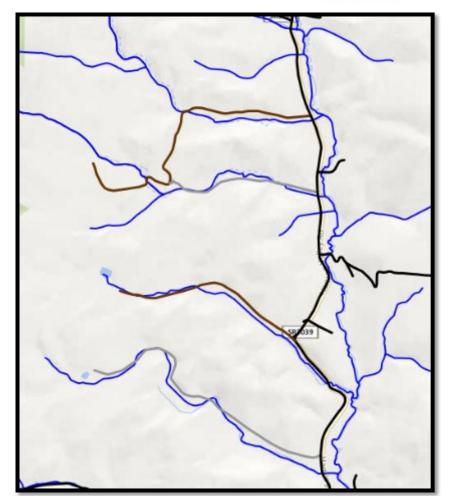
- Pre-application meetings are essential
- Offer to visit roads with water issues with the road owner to see if there is potential for a DGLVR project
- Visit municipal buildings with coffee and donuts to talk about the DGLVR Program
- Attend public municipal meetings
- Call the township building to make sure they received mailings



Cumberland CCD municipal visits



- Call the road owner and suggest a potential project
 - Can be a road you are familiar with
 - Sometimes districts receive complaints that lead you to a good potential DGLVR project
 - Look at maps of priority watersheds you'd like to work in
 - Look at maps of where local roads are near streams



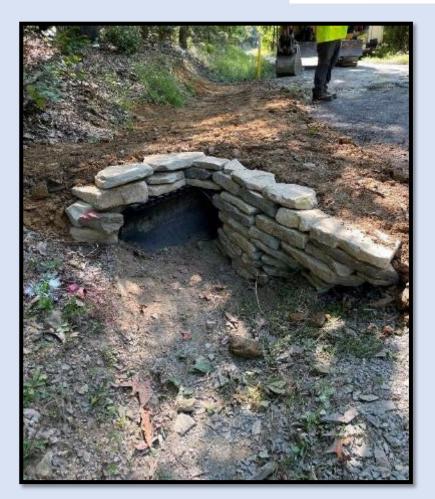


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• <u>Publicity</u>

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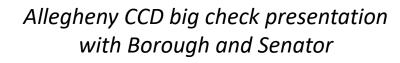
- There are lots of ways to get the word out about the DGLVR Program
 - Both print and electronic options

Mail/email

- direct to potential applicants
- Press releases for local newspapers/media outlets

• Topics

- When funds are available
- To announce grant application due dates
- To announce funded projects
- To bring attention to a recently completed project
- To advertise educational/outreach events







- Newsletters
 - DGLVR specific
 - DGLVR article in the CD's newsletter
 - Coordinate to have a DGLVR article in outside newsletters
 - Conservation District Annual Reports
- Website pages
- Social media posts
 - Facebook, Instagram, TikTok, etc.
- Road signs
 - permanent vs temporary

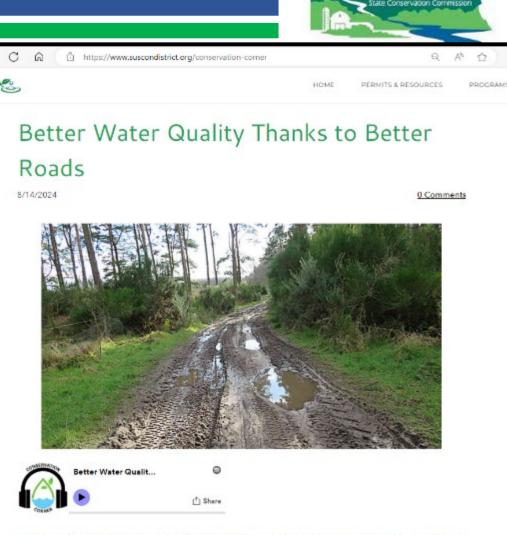


Sign at completed DGLVR Project in Pike County



- Local webinar series
- Radio show/podcast
- Radio ads
- Parade float
- YouTube videos
- Webinar viewing sessions

Susquehanna County Conservation District hosts a radio show/podcast called "Conservation Corner"

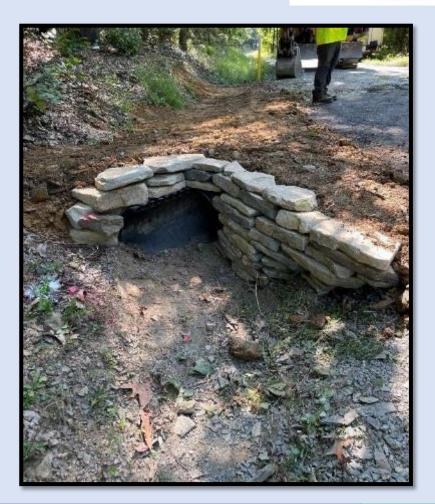


Pennsylvania has more than 25,000 miles of unpaved roads, mostly dirt, and gravel, that are used by more than 3.6 million residents and serve the state's agriculture, mining, forestry, and tourism industries. By installing best management practices on these roads, we can create better water guality. Join us as we dive head-first into this awesome program administered by the Susquehanna County Conservation District!

X Post

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Conservation District Examples

- Riley Kinney
 - Allegheny County Conservation District
 - Agriculture Program Manager
 - Oversees DGLVR Program and various ag programs
 - 7 years at the CD

• Lori Glace

- Juniata County Conservation District
- District Manager
- 13 years of varied CD experience
 - E&S/DGLVR tech, watershed/DGLVR tech, manager



Map from https://geology.com/county-map/pennsylvania.shtml

Conservation District Examples



County	# municipalities	Approx. annual DGR allocation	Approx. annual LVR allocation	Approx. total DGLVR allocation	Total # District staff	Approximate DGLVR staff time
Allegheny	130	\$100,000	\$260,000	\$360,000	22	³ ⁄ ₄ Technician
Juniata	17	\$115,000	\$70,000	\$185,000	7	1/2 Technician
Cumberland	33	\$100,000	\$127,000	\$227,000	10	1/2 Technician



Map from https://geology.com/county-map/pennsylvania.shtml

Allegheny

- Mailers
 - ESM regional training date announcements
 - Sent to all expiring and uncertified municipalities
 - Grant Cycle Opener Mailer
 - Sent to all 130 municipalities
- E-blast
 - District-wide list serves
 - Program Specific emails
- Phone Calls
 - Request for returning submissions of rejected grant applications
 - Cold calls for new municipalities in target improvement regions







Get Your Road Project Funded.

To get your road project funded, you must send a representative from your municipality to Penn State's Environmentally Sensitive Maintenance Training.

The third and final phase of the Willow Road Project in Bradford Woods was completed in 2022. The completed project features drainage, culvert replacement, and road resurfacing.

ESM Mailer Front

Register for a Training

ESM training is 2 days from 8 AM - 4 PM. First time certified municipalities are eligible for travel and hotel reimbursement through ACCD's first-time certification program!

Somerset County Seven Springs Champion, PA April 12 & 13

Butler County Pittsburgh Marriott North Cranberry, PA May 16 & 17

Washington County Double Tree by Hilton Head Washington, PA August 16 & 17

Contact Riley Kinney at rkinney@accdpa.org or call 412-241-8004 for questions and to schedule your pre-application meeting.



317 East Carson Street, Suite 119 Pittsburgh, PA 15219

Register for a training HERE



₲ 412.241.SOIL @ ACCDPA.ORG

ESM Mailer Back





Get Your Road Project Funded.

Our grant cycle is open earlier than ever! Call to start your application today!



Grant Opener Mailer Front





**March 1st - August 31st

Eligible Roads

Publicly-owned dirt and gravel roads and paved low volume roads with 500 cars per day or fewer

Possible Projects



Streambank stabilization, drainage improvements, stabilization and more!

Contact Riley Kinney at rkinney@accdpa.org or call 412-291-8004 for questions and to schedule your pre-application meeting.



317 East Carson Street, Suite 119 Pittsburgh, PA 15219

> Allegheny County Conservation District's Dirt, Gravel and Low Volume Road Grant provides education, technical assistance and funding to promote safe roads and healthy streams.

ACCDPA.ORG 412.241.SOIL

Grant Opener Mailer Back



Juniata

Mail and Email Outreach

- ESM Outreach / Grant Information to all municipalities
- Additional one-page flyer that gives program details and grant deadlines if known
- Other road-related / relevant information (PSATS / LTAP)
- List serves via excel

Phone Calls

- New staff introductory phone calls
- Check in on municipal folks if haven't heard from them in a while
- Set up meetings to check out problem sites

In-Person Meetings

- Morning / Lunch break meetings
- Non-DGLVR project stop-ins at break time



DIRT, GRAVEL & LOW VOLUME ROADS PROGRAM

The Dirt and Gravel Roads Program is available for any public road that has a dirt, gravel, or stone surface. This year finished the drainage installation on Cold Springs Road in Dickinson Township. The drainage work started in the summer of 2016 which installed 23 cross pipes, and continued construction in 2017, with 20 more cross pipes, for a total of 43 cross pipes! This year's construction also included 1,250 feet of underdrain, which collects subsurface drainage in the road profile. Grant money for the 2017 portion of the project was \$19,993.56, and the total grant value of the project was \$48,563.69. Future work will place base material and driving surface aggregate





The Low Volume Roads Program is open to all paved public roads that have less than 500 cars perday. Construction projects for 2017 included Game Lands Road in Upper Mifflin Township, replacing three failing cross pipes. Grant money for Game Lands Road was \$12,413.85, with a total project value of \$12,413.85. Fry Road in North Newton Township replaced 2 pipes and installed 1,025 feet of underdrain. Grant money for Fry Road was \$10,572.86, with a total project value of \$19,522.46. Beetem Hollow Road in Penn Township replaced a 4 foot stream culvert with a 12 foot box culvert with an open bottom for aquatic organism passage and included a 500 foot Under drain installation: Fry Boad Namb Newton Two

French Mattress with 800 feet of underdrain to drain the road profile. Grant money for Beetem Hollow Road was \$138,044,09, with a total project value of \$181,649,93. Future work is planned on Beeetern Hollow Road, Penn Township; Pipeline Road, Upper Mifflin Township; and Yorwick Road,



Are you a public road-owning entity in Cumberland County and want to get involved with the Dirt, Gravel, and Low Volume Roads Program? The first step is to become certified in Environmentally Sensitive Maintenance

Practices, which is a FREE, 2-day training provided by the Center for Dirt and Gravel Roads.

May 9 & 10, 2018 at Premier Events in Shippensburg

North Middleton Township.

DIRT, GRAVEL & LOW VOLUME ROADS PROGRAM

Cumberland County's Dirt, Gravel, and Low Volume Roads Program is split into two separate programs, one program for public-owned dirt, gravel, and/or stone roads and one program for paved and/or tar & chipped roads that have less than 500 cars per day. In order Road Name Municipality Grant Awarded Type for a road to qualify for the program, the road-owning Yorwick North Middleton S 8.029.17 LVR entity must attend a two-day Environmentally Cold Springs 5 Dickinson 100,338.89 DGR 15 Sensitive Maintenance (ESM) Certification Training. Beetem Hollow 4 135,572.50 LVR



Cold Springs Road, Dickinson Township: Driving Surface Aggregate (placement 2019) and shallow cross pipe (installed 2017)

The Dirt & Gravel Roads Program completed another phase of work on a 2.4 mile section of Cold Springs Road in Dickinson Township. The first phases, completed between 2016 and 2017, installed 43 shallow cross pipes to help fix drainage within the road. Work in the Spring of 2018 included 10,000 tons of shale to add base to the bed of the road and create proper crown to prevent water from flowing in the center of the road. Work in the Fall of 2018 included capping the shale base material with 2,796 tons of Driving Surface Aggregate (DSA). DSA is a wellgraded, unbound mixture of aggregate designed for use as a wearing course on unpaved roads. DSA is designed to achieve maximum density to resist erosion and traffic wear. Properly installed DSA roads will have greatly reduced sediment loss and maintenance cycles. Fall 2019's contract installed 2.135 tons of DSA. Future work will include the final DSA placement on this section of Cold Springs Road.





The Low Volume Roads Program completed 2 projects in 2019. Projects included a stream pipe consisting of a 64" x 43" squash culvert and a 40ft x 20ft French Mattress in North Middleton Township and a 14ft bottomless concrete box culvert in Penn Twp. Both replacement projects removed severely undersized stream pipes which now allows the stream to function properly through the road profile.

DIRT, GRAVEL & LOW VOLUME ROADS PROGRAM

Cumberland County's Dirt, Gravel, and Low Volume Roads Program is split into two separate programs, one program for publicowned Dirt, Gravel, and Stone Roads and one program for paved and tar & chipped roads that have less than 500 cars per day. In order for a road to qualify for the program, the public owner must attend a two-day Environmentally Sensitive Maintenance (ESM) Certification Training.

The Dirt & Gravel Roads Program completed 2 more phases of work on a 2.4 mile section of Cold Springs Road in Dickinson Township. The first phases, completed in 2016 and 2017, installed 43 shallow cross pipes to help fix drainage within the road. Work in the Spring of 2018 included 10,000 tons of shale to add base to the bedrock of the road and create proper crown in the road to prevent water from flowing in the center of the road. Work in the Fall of 2018 included capping the shale base material with Driving Surface Aggregate (DSA). DSA is a specially designed surface that uses different sizes of stone and optimum moisture and is placed with a paver and compacted with a large roller. This process prevents clay particles in the stone mixture, which prevents sediment

runoff that can be found as soft stone breaks down over time.



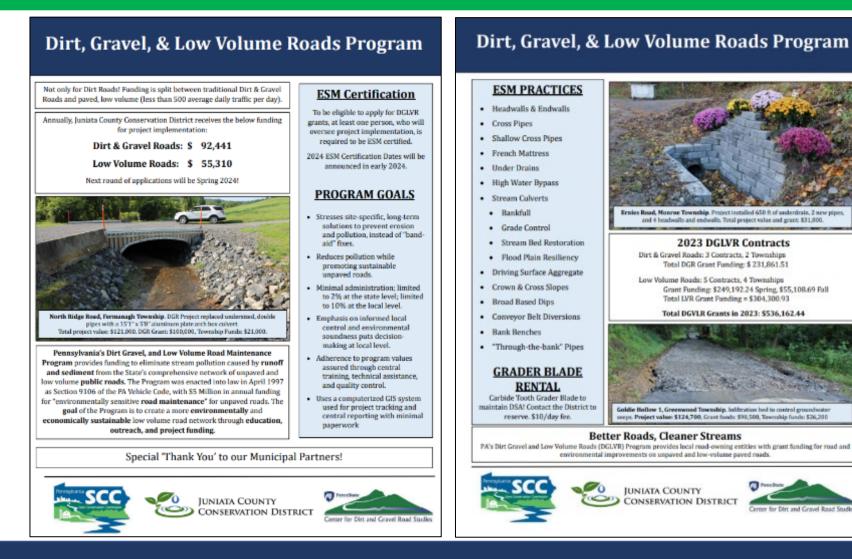
Road Name	Gr	ant Awarded
Wood Ave	5	17,641.45
Beetem Hollow	\$	29,430.40
Pipeline	\$	32,219.68
Cold Springs	\$	191,782.50
Cold Springs	\$	110,427.78
Total	\$	381,501.81



The Low Volume Roads Program completed 3 projects in 2018. Projects included a stormwater drainage system in Mt. Holly Springs Borough on Wood Avenue: underdrains to capture springs seeps and extra drainage cross pipes in Penn Township on Beetern Hollow Road; and replacing an undersized stream pipe and disconnected ditch drainage from the stream on Pipeline Road in Lower Mifflin Township



Credits: Newsletter and Annual Reports from Cumberland CCD





DGLVR Program flyer updated annually for Township COG Meeting held in November.

Overall Program goals and Juniata CCD program specifics.

Side note: Always say "Thank You!" to your program participants.

Flyer credits: Juniata CCD

Allegheny

- Tabling events and presentation Events
 - Allegheny League of Municipalities Conference
 - High participation of municipal leaders and their elected officials. Conference focuses on municipal services from equipment to bookkeeping to grant opportunities





Allegheny

- Tabling events and presentation events
 - Three Rivers Wet Weather Conference
 - Stormwater conference, well attended by engineers and other stormwater management professionals
 - Council of Government Events (COGs) and Multi-Municipal Organizations
 - Lunch and Learns at meetings or participation in annual events like a Managers Breakfast

Juniata

- Tabling events and presentation Events
 - Local Council of Government (COG) meeting
 - Table event with handouts about local program
 - Other "hot topics" from District
 - Always have some kind of handout, even if it is just candy
 - Usually give a presentation
 - Anywhere from 15-30 minutes
 - Juniata County Fair
 - Special write up for each program
 - Retractable Display



Allegheny

Open House

 Engineers Open House – cross educational event for engineers to learn about DGLVR and the 102/105 program with lunch and networking





Pennsylvania SCC suite Conservation Commission

Allegheny

- Lunch and Learns
 - Municipal engineering firms intro to DGLVR programming
 - Municipal outreach lunches in target watersheds
- Webinars
 - Erosion and Sediment Control Webinar Series (typically features one DGLVR focused presentation
 - Special topic webinar (landslides, stream crossings, project highlight)

• Field Exhibitions

- Ribbon cuttings
- Field days
- Regional municipal invites to a specific project

Juniata

Municipal Meetings

- Explain YOUR program
- Highlight any practices that need more attention on your local program

• Field Days

- Chance for municipal officials to proudly show off their work
- Explain what the pre-existing conditions are and why the proposed plan was chosen
- Allow time for the municipal officials to speak and offer words of wisdom about their projects and the program!





partnership with: POSSUM ROAD

State Conservation Commission

Center for Dirt and Gravel Roads Studies

Project created in

Monroe Township

Juniata County Conservation District

Guests: Contech Engineered Solutions

LB Water



DIRT & GRAVEL ROADS PROJECT SHOW CASE

ALUMINUM (BOTTOMLESS!) BOX CULVERT

FIELD DAY

Please see attached maps for directions

JUNIATA COUNTY (1994) 48914 CONSERVATION DISTRICT

THURSDAY, NOVEMBER 5[™], 2015 10 AM AND 2 PM

PLEASE RSVP BY OCTOBER 31st, 2015

LORI-GLACE@JUNIATACCD.ORG

OR

TO DEB DRESSLER AT (717) 436 - 8953 EXT 5 Project Overview

Project replaced an undersized, collapsing stream culvert with a bottomless aluminum box culvert. There were gravel bars formed above the pipe inlet and a large scour hole at the pipe outlet. The stream would overflow the pipe and wash road material into the surrounding fields.

The project including replacing the undersized pipe (7' span) with the new aluminum bottomless box culvert (15' 4" span) and adding a high water bypass lined with geocell to promote a stable high water overflow. The bottomless structure also promotes aquatic organism passage.

Estimated* Project Total: \$50,185.00

*Final project invoices are still coming in/pending.

Credits: Tri-fold brochure from 2015 Field Day, Juniata CCD

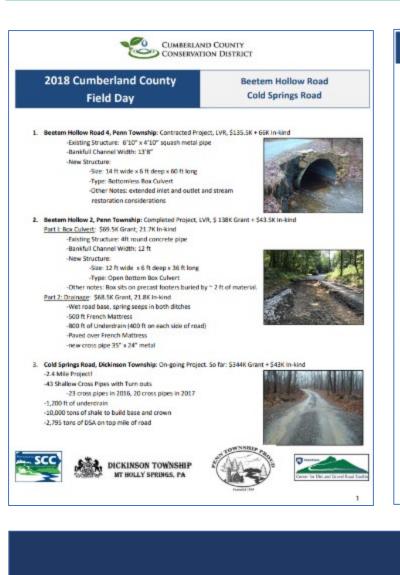
COME AND GO AS YOU PLEASE BETWEEN LUNCH WILL BE PROVIDED











Beetem Hollow 2 Penn Township

Under-sized culvert would overflow, which would cause the water to

 Stream Pipe: New 12 ft x 6 ft open-bottom concrete box culvert installed, with pre-cast footers and wing walls

· 500 ft French Mattress to dry out road base, connected to udrain and pavement over French Mattress







Cold Springs Road Dickinson Township Status: In Progress Construction: 2016-2019 Contract: \$344K

Length: 12,600 ft

Summary:

This is a multi-phased, multiple year project that started in 2016. The entire project site is 2.4 miles long. Before work began on this project, the road was very rutted and almost impassable. Water would channelize in the wheel ruts and bypass the existing drainage pipes. The township added a lot of material before the first phase of the project started in summer 2016 with drainage work.

Solution:

- Phase 1, 2016: 23 Shallow Cross Pipes · Shallow cross pipes installed on a sharp angle to help direct the water into the pipe-cut the inlet of pipe
- · Create a water break to keep the water from continuous flow down the road
- Phase 2, 2017: 20 Shallow Cross Pipes and 1200 feet of udrain · Ground water table rose and we found lots of water!
- Phase 3, 2018: Additional underdrain (Township in-kind) and 2.4 miles of Shale (10,000 tons)
- · Three separate areas had ground water pumping springs is the middle of the road!
- · Added 10,000 tons of material to base and established 4-6% crown
- Phase 4, 2018: 2,795 tons Driving Surface Aggregate
- · Paver placed on 5,875 ft of road, 6" loose material compacted to 4.5" with 5% crown
- Phase 5, 2019: DSA on rest of road?







Credits: 2018 Field Day Handout - Cumberland CCD

Status: Completed Construction: Aug 2017 Length: 800 ft Contract: \$138K

Summary

flow down the road and wash away the R-4 stones in the ditch. Spring seeps along both sides of the road and water in the base of the road caused the pavement in the center of the road to also fail. This road is a dead end road, which created a huge challenge for construction of this culvert. Penn Township, in partnership with Dickinson Township, Cooke Township, and South Newton Township constructed the box culvert in 3 days!

Solutions:

· 800 ft of udrain to transfer spring seeps

New cross pipe for small feeder stream (35"x24")

Allegheny

- Case Studies (project write ups)
- Connect with local media (Newspapers or media teams)
- Invite elected officials (county executive or elected officials) to the final walk-through







2023 DGLVR

Dirt & Gravel Roads Three [3] contracts,

Two (2) townships

Total DGR Grant Funding

\$331,861.51

Low Volume Roads:

Five (5) contracts,

Four (4)townships

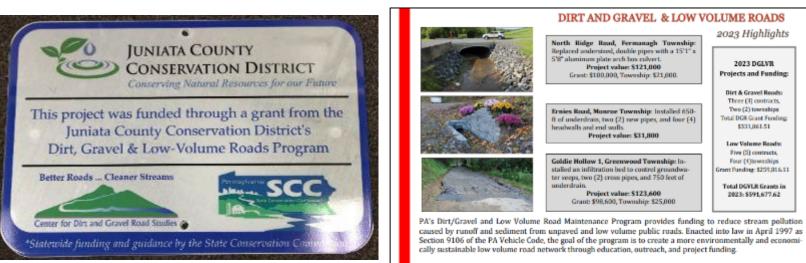
Fotal DGVLR Grants in

2023: \$591,677.62

Juniata

- Celebration Ceremonies
- Project Showcases
- Social Media
- Newsletters
- Annual Reports
- Website
- Newspaper Articles





Conclusion



Questions?

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