

If you use any of these projects or pictures in your educational efforts, please give credit to the Conservation District that supplied them.

Our apologies, but since the webinar microphone was not working properly, a recording of this webinar is not available.

Project Sharing Session Highlights 2017

3/17/17

Starts at 9am

Toggle Fullscreen
mode with this
button above

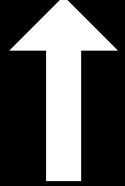


Use Chat box to ask
Questions

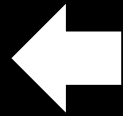
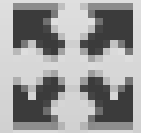
If you are reading this, then you are successfully seeing the webinar video. In addition to audio on the webinar, we have opened a phone conference line to allow attendees to listen and ask questions directly: **866-823-7699**. Please use either the webinar audio or conference line, but not both (will produce feedback).

Audio also available via phone: 866-823-7699

For assistance, call: 814-865-5355



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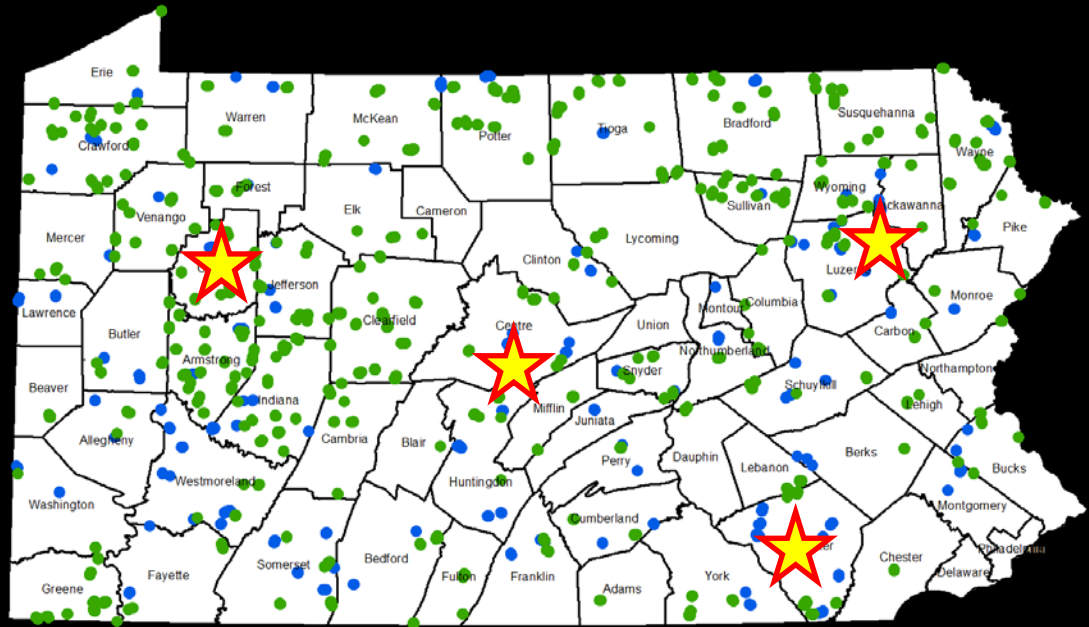
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ask Questions**

Participant phone lines will be muted
until after initial presentation

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Purpose:

Share some quick “project snippets” of 2016 DGLVR Projects



Thank You:

We often only see “snapshots” of projects on tech assists or QAQC visits. Your photos will help us to improve training materials such as ESM training.

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Disclaimer #1

- **31 Projects and 100+ images here**
- This will be a QUICK summary.
- **For more information:**
 - Recording available online
 - **Contact the project-owning District**
 - Questions
 - Visit to completed projects
 - Visit sites in progress

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Disclaimer #2:

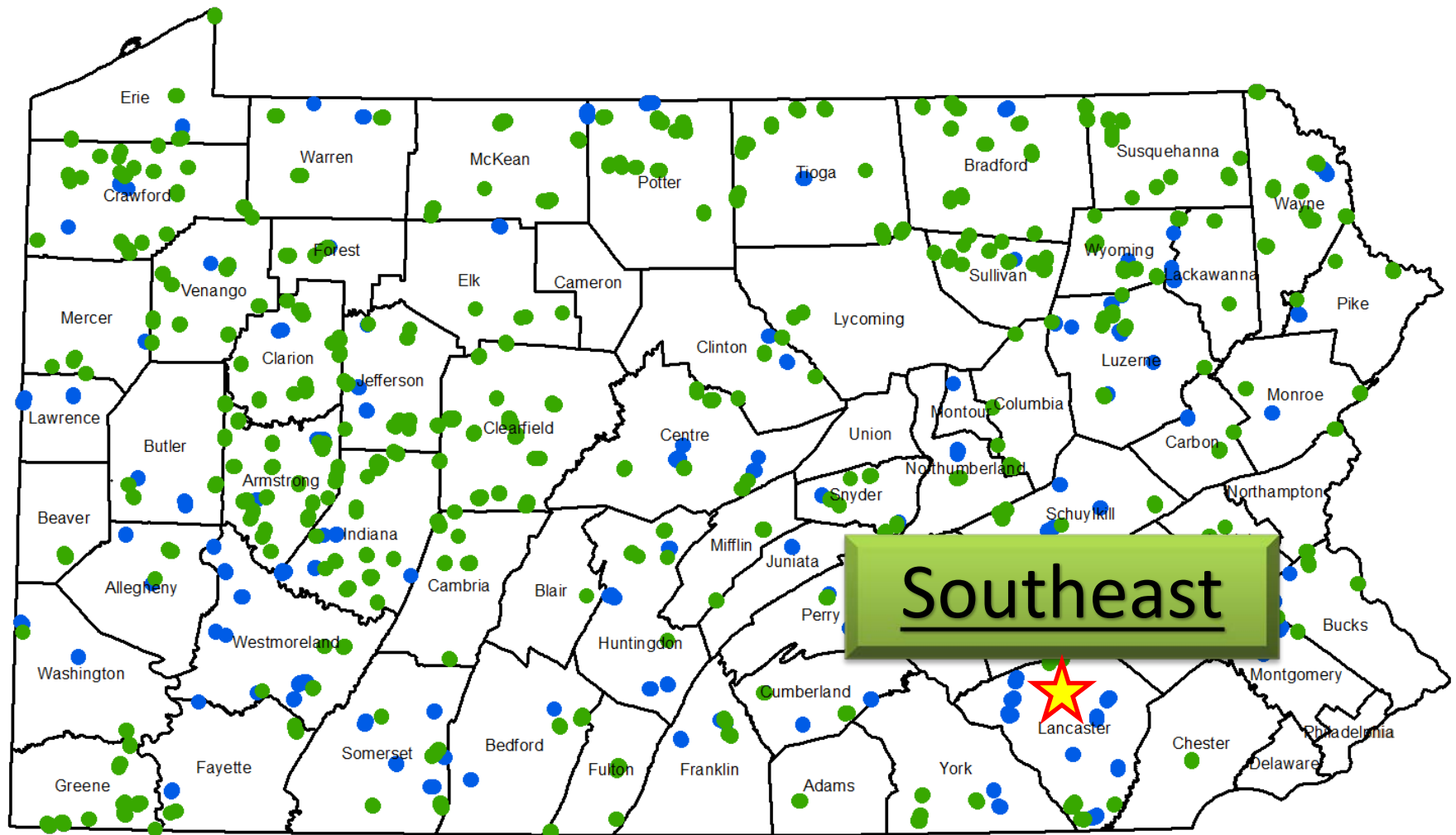
We saw a lot of projects in a short amount of time.

I apologize in advance for mis-speaking, forgetting things, or just plain making stuff up about your projects!

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Project Sharing Sessions



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BEFORE



'16 D&G Project - Complete

Dauphin County, Deibler's Gap Rd

\$119K Spent, \$21K in kind

- 1- mile long
- 4,000 tons of fill
- 14 new crosspipes
- DSA planned for 2017



AFTER



AFTER

'16 LVR Project - Complete

Bucks County, Umbriet Rd

\$60K Spent, \$14 in kind

- 1,000'+ mattress
- Several crosspipes



D&G Project - Application

Bucks County, Twin Lows Rd

- Multi-pipe crossing that overtops road
- Dam ~50' upstream
- Can't close road



Same gravel bar



BEFORE



AFTER



'16 D&G Project - Complete

York County, Blymire Hollow Rd

\$102K Spent, \$106K in kind

- Undersized and failing bridge
- 28' GRS bridge constructed
- 50% savings vs traditional bridge



BEFORE



'16 LVR Project - Complete

Lancaster County, Reynolds Ave

\$27K Spent, \$171K in kind

- Porous pavement
- Infiltration bed
- "selective funding"

AFTER



CD only funded infiltration and drainage practices

Pay Item	Name	Unit	Estimated Quantity	Unit Price (\$/cc or %)	Total CD Cost (\$) (Quantity x Unit Price)	Estimated Non-CD Cost (\$) (Quantity x Unit Price)
Site Preparation and Restoration						
1	Site Clearing and Disposal (removal of grass, shrubs, small trees, debris, etc.)	SY	9	\$ - 43.80	\$ -	0
2	Structure and Pavement Demolition (includes excavating, dumping, disposal)	CY	614	\$ - 22.80	\$ - 14,000.80	0
3	Asphalt Milling - up to 2" Depth (includes disposal)	SY	0	\$ - 5.00	\$ -	0
4	Common Excavation, Grading, and Backfill (includes disposal)	CY	0	\$ - 20.25	\$ -	0
5	Rock Excavation and Disposal	CY	0	\$ - 25.00	\$ -	0
6	Reveal Brick Pavers (Walkway or Solid)	SY	0	\$ - 104.00	\$ -	0
7	Establish Turf	SY	0	\$ - 21.00	\$ -	0
Granular Materials						
9	ASHTO No. 3 Crushed Stone	TON	244	\$ - 18.00	\$ - 4,392.00	0
10	ASHTO No. 57 Crushed Stone	TON	25	\$ - 34.00	\$ - 850.00	0
Drainage						
19	Pre-Type 1A Catch Basins with Trap - Standard (incl. inlet top, frame and grate)	EA	2	\$ - 1,037.00	\$ - 2,074.00	0
20	Pre-Type 2A Catch Basins with Trap - Standard (incl. inlet top, frame and grate)	EA	0	\$ - 2,066.00	\$ -	0
21	Overflow Control Structure - Mod. Precast Concrete (incl. precast, w/ Weir and Gate)	EA	1	\$ - 2,037.00	\$ - 2,037.00	0
22	Precast for Precast Concrete (incl. precast, w/ Weir and Gate)	EA	3	\$ - 1,000.00	\$ - 3,000.00	0
30	12" x 12" Perforated HDPE Pipe (incl. all fittings)	LF	600	\$ - 4.00	\$ - 2,400.00	0
37	18" x 12" Perforated HDPE Pipe (incl. all fittings)	LF	0	\$ - 3.00	\$ -	0
38	12" x 12" Solid Dual Wall HDPE Pipe (includes trenching, bedding, backfill and all fittings)	LF	40	\$ - 55.40	\$ - 2,216.00	0
40	Pre-Cast Concrete (incl. precast HDPE by Land Enterprises C&D)	EA	1	\$ - 200.00	\$ - 200.00	0
47	24" PVC Catchout w/ Solid Lid and concrete cover (up to 8' Depth) w/ Lockable Cover	EA	3	\$ - 470.00	\$ - 1,410.00	0

BEFORE



'16 DnG Project - Complete

Montgomery County, Lake Skymount Dr.

\$9K Spent, \$6K in kind

- Short lake access
- Underdrain, gradebreak, DSA
- Improved lake access area

AFTER



BEFORE

'16 LVR Project - Complete

Montgomery County, Webber Rd

\$33K Spent, \$4K in kind

- Excessive flow, yards drain to road, nowhere drain.
- Stormwater system with grass swale on top.



AFTER



LVR – stormwater to
outlet and asphalt
repair



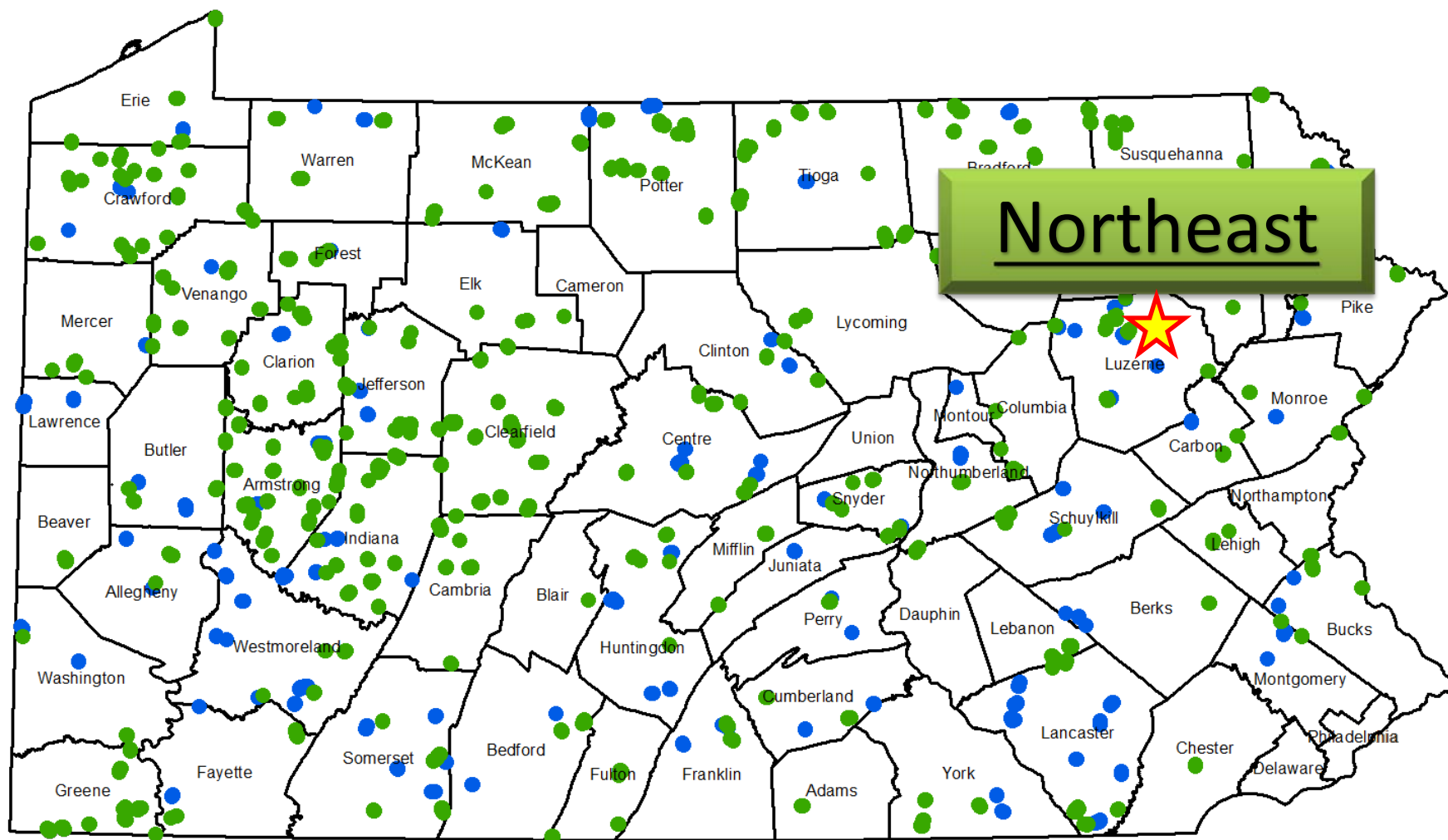
LVR Projects – Pre-Application

Montgomery County

- DnG– 3.3' baseflow pipe with 15' bankfull
- Looking at 15' arch or box culvert



Project Sharing Sessions



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BEFORE



LVR Project - Application

Luzerne County, Barchik Rd

- Off ROW – field diversion
- Geotextile
- French mattress
- Several pipes
- **Convert to DSA**



BEFORE



AFTER



'16 D&G Project - Complete

Monroe County, Chill-Hypsie Gap Rd

\$95K Spent, \$8 in kind

- Two French mattresses
- Multiple pipes
- DSA
- Bank stabilization



2 mattresses in progress

BEFORE



AFTER



'16 D&G Project - Complete

Monroe County, Hell Hollow Rd

\$10K Spent, \$16 in kind

- Large overflow from braided channel
- High-Water Bypass installed



BEFORE



No drainage outlets before stream

AFTER



Separate crosspipe and turnout

02/28/2017



'16 D&G Project - Complete

Pike County, Henershot Rd

\$25K Spent, \$9K in kind

- 4 new pipes, several turnouts
- Road fill and berm removal
- DSA



10/17/2016

BEFORE



AFTER



Belt Diverter



Storm Drain outlet



'16 LVR Project - Complete

Schuylkill County, Black Diamond Rd

\$20K Spent, \$54K in kind

- Mill and repave
- Storm sewer to forest outlet
- Belt diverter on driveway

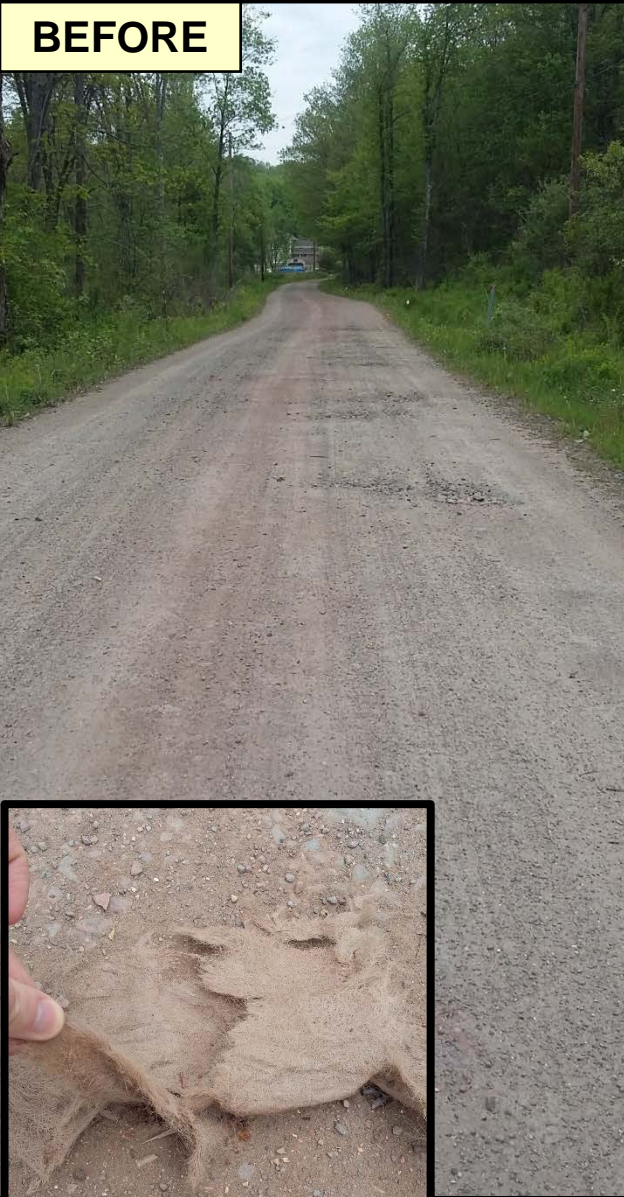
'16 D&G Project - Complete

Wayne County, Johnson Creek Rd

\$52K Spent, \$3K in kind

- Two 300' French Mattresses
- 6 new pipes, underdrain, DSA

BEFORE



DURING



AFTER



BEFORE 1



AFTER 1



'16 D&G Project - Complete

Wayne County, Fall's Rd

\$86K Spent, \$15K in kind

- 8 new crosspipes, DSA
- Streambank Stabilization
- Bankwall, off ROW pipe

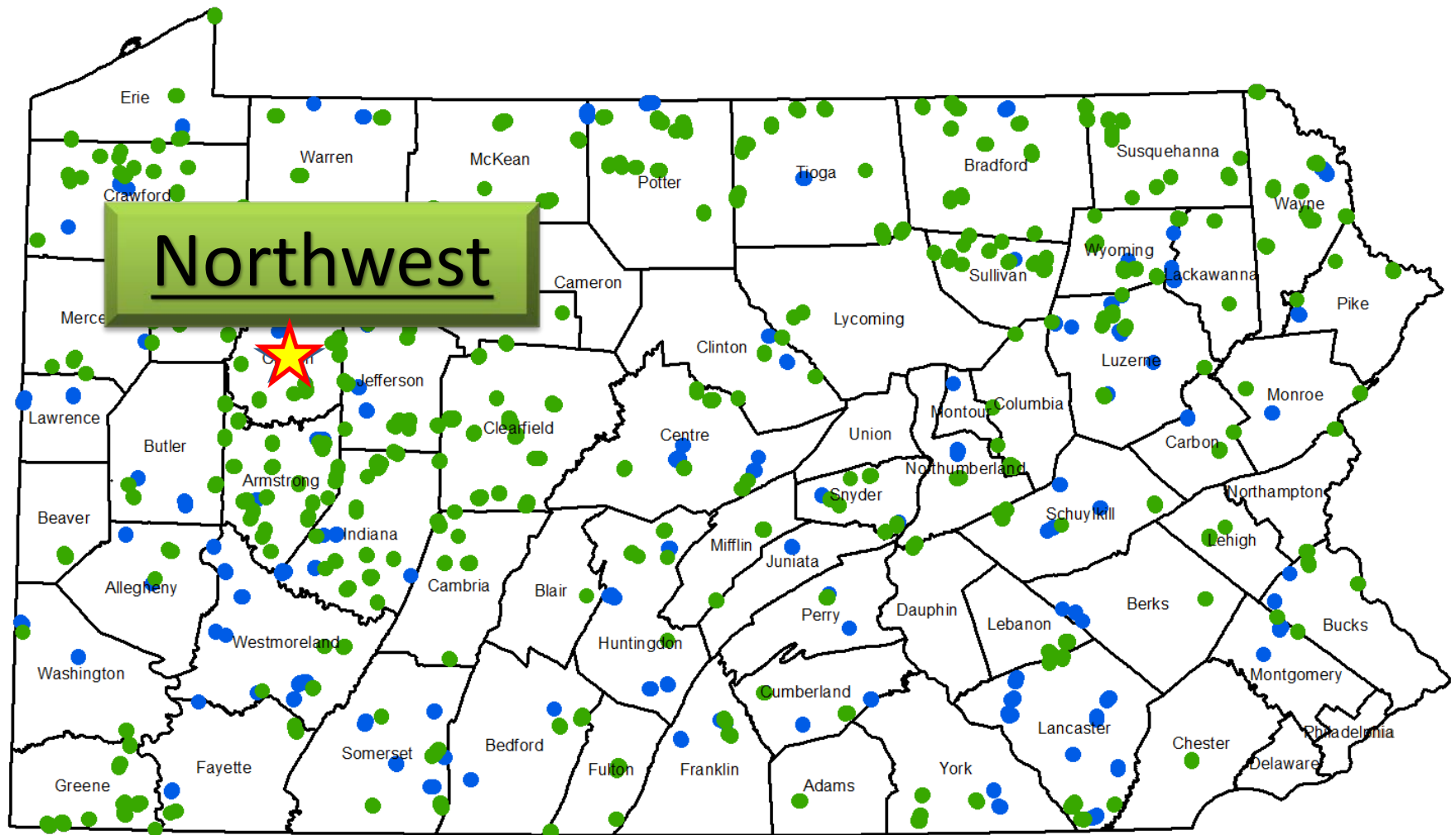
BEFORE 2



AFTER 2



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BEFORE



'16 D&G Project - Complete

Jefferson County, Reed Rd

\$31K Spent, \$11K in kind

- Bottomless arch Pipe

AFTER



BEFORE



'16 D&G Project - Complete

Jefferson County, Team Rd

\$37K Spent, \$4K in kind

- Road Fill
- Pipes and gradebreaks
- Grassed outlet/diversion

AFTER



BEFORE 1



AFTER 1



'16 LVR Project - Complete
Lawrence County, Erskine Quarry Rd
• Through the bank pipe
• Several new pipes
• Bank stabilization

BEFORE 2



AFTER 2



Before

'17 D&G Project - Contract

McKean County, Hedgehog Ln

\$84K Contract, \$29K in kind

- Abandon lane and shift road
- 1 new and 3 extended pipes
- Underdrain
- Resurfacing



- *Depth of the slope failure is limited by the presence of weathered shale located at 11.3-13.6 ft below the road surface.*
- *Cracking is a result of lateral movement of the slope as opposed to settlement of soils beneath the road.*

BEFORE



AFTER



'16 LVR Project - Complete

Venango County, Henderson St. Rd

\$110K Spent, \$27K in kind

- Several crosspies and through-the-bank pipes
- Base improvements and DSA



Through the bank pipe



Small settling basin

BEFORE



DURING



'16 LVR Project - Complete

Venango County, Keister Rd

\$144K Spent, \$31K in kind

- Massive fill job, underdrain and DSA
- Crosspipes and through the bank pipes

AFTER



DURING



BEFORE



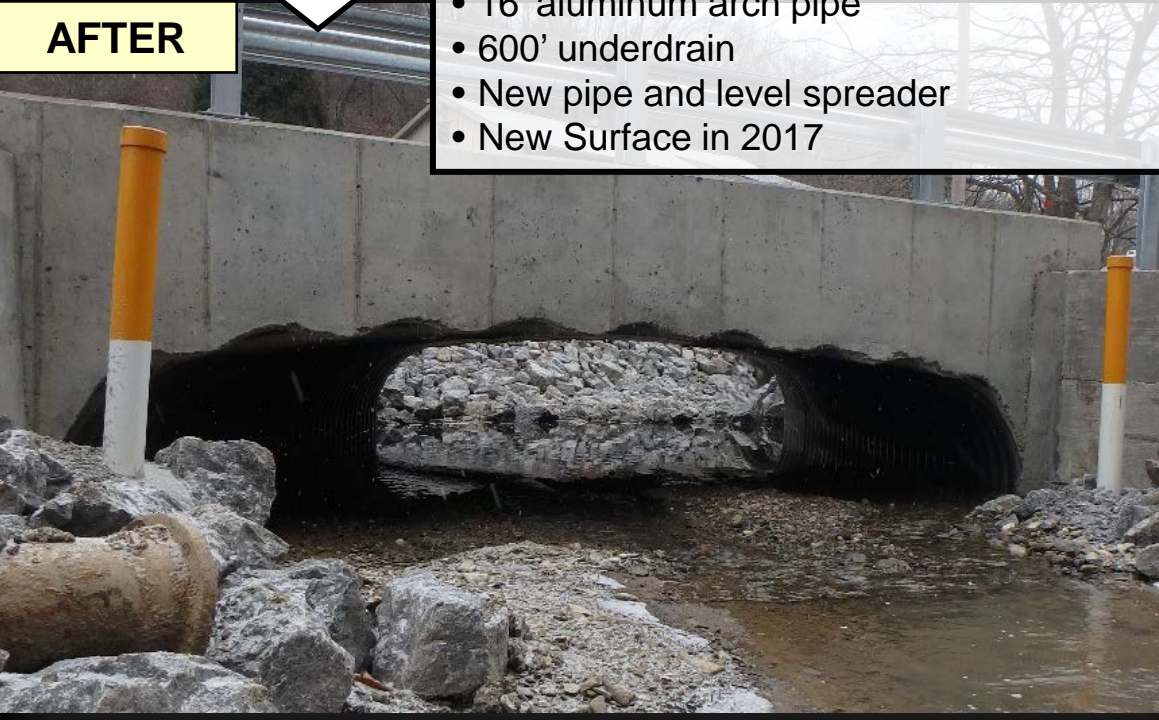
'16 LVR Project - Contracted

Allegheny County, Sygan Rd
\$213K Spent, \$79K in kind

- 16' aluminum arch pipe
- 600' underdrain
- New pipe and level spreader
- New Surface in 2017



AFTER



DURING



DURING



BEFORE



AFTER



'16 DnG Project - Completed

Clearfield County, Greenwood Rd

\$9K Spent, \$1K in kind

- French Mattress / Underdrain to drain springs

DURING



AFTER



Flow out of end of mattress

BEFORES

'17 LVR Project - Application

Crawford County, N First St

\$108K Application, \$14K in kind

- Failing 7' culvert (60' long)
- Proposed 12'x7' Squash (100' long)



outlet



inlet



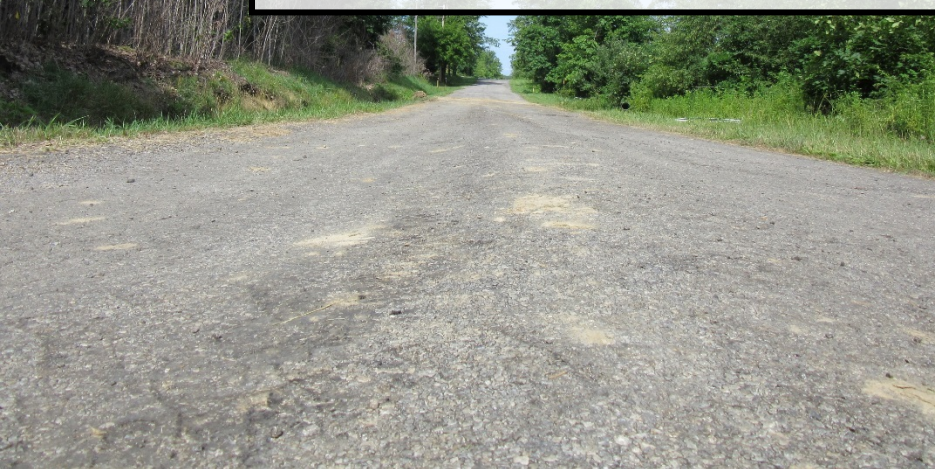
BEFORE

'16 LVR Project - Complete

Clarion County, N First St

\$28K Application, \$8K in kind

- 2,000 feet of underdrain w/ cleanouts
- 4 new crosspipes



DURING



Drone
anyone?

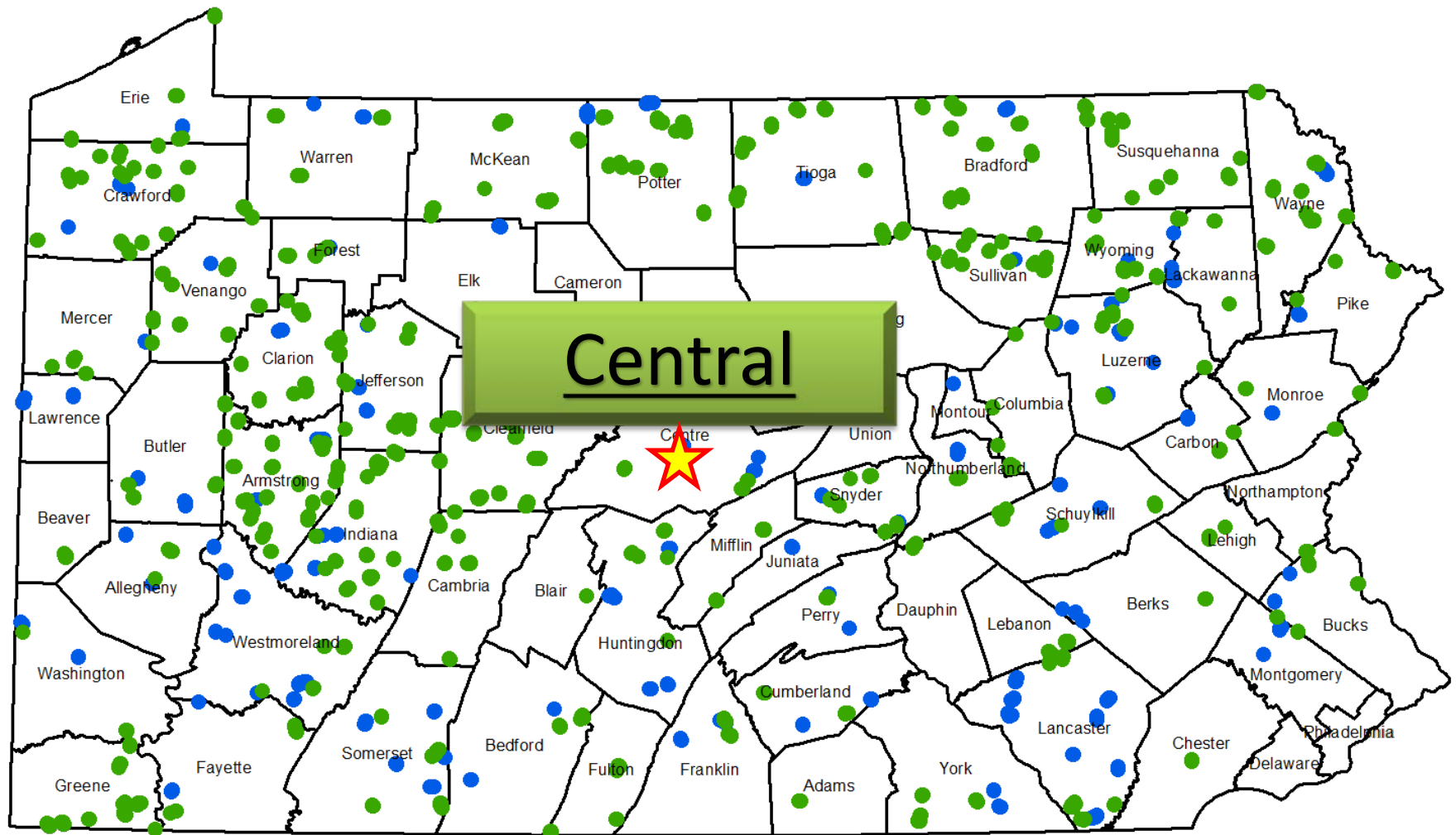
DURING



DURING



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BEFORE

'16 D&G Project - Active

Cambria County, Leck's Rd



3' pipes
fish
channel



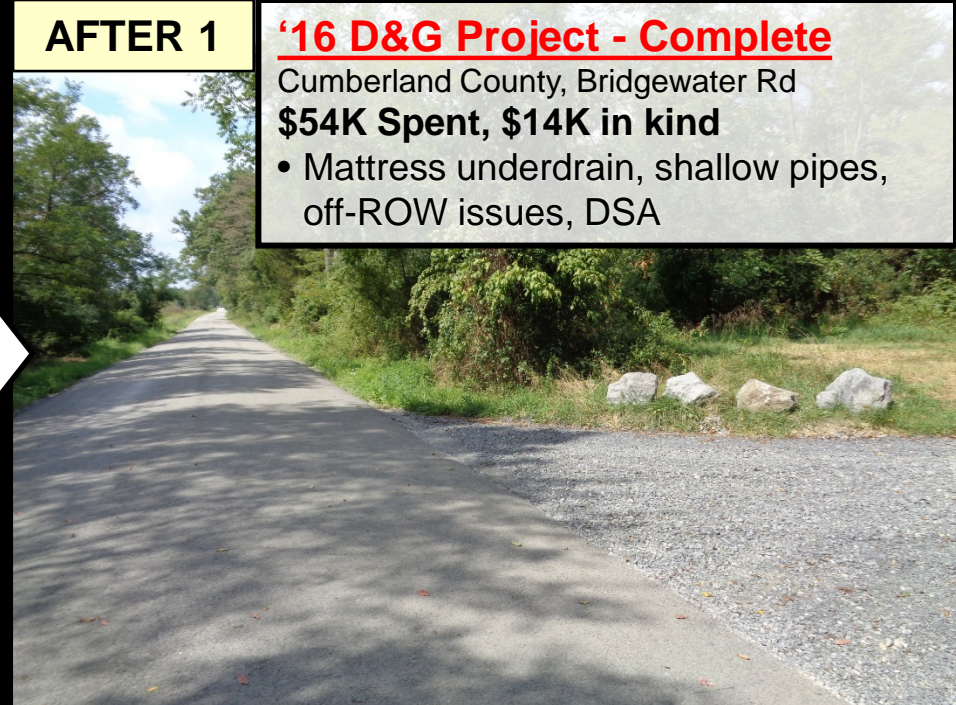
AFTER



BEFORE 1



AFTER 1



'16 D&G Project - Complete

Cumberland County, Bridgewater Rd

\$54K Spent, \$14K in kind

- Mattress underdrain, shallow pipes, off-ROW issues, DSA

French Mattress Construction



BEFORE 1



AFTER 1



'16 D&G Projects - Complete

Cumberland County

\$14K Spent, \$4K in kind

\$18K Spent, \$8K in kind

- DSA Placements
- Drainage previously completed

BEFORE 2



AFTER 2



Good discussion on DSA only contracts as a follow-up to drainage contracts

BEFORE



AFTER



Geotextile and fill



Driveway pipe, grade break and 150' of DSA

'16 D&G Project - Complete

Snyder County, Mattern Rd

\$40K Spent, \$7K in kind

- Driveway pipe and gradebreak
- Base improvements
- Fill, pipes, and DSA

BEFORE 1



AFTER 1



'16 D&G Project - Complete

Snyder County, Brick Plant Rd

\$28K Spent, \$3K in kind

- Road fill and DSA
- Underdrain and bank work

AFTER 2



AFTER 2



BEFORE



AFTER



'16 D&G Project - Complete

Snyder County, Possum Rd

\$36K Spent, \$25K in kind

- 15.5' X 6.5' bottomless aluminum culvert



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Webinars:

- ~~March 17th~~ ~~Project Sharing Session Highlights~~
- **April 13th** **Overview of Admin Manual Changes**
- April 18th CD Replenishments and Direct Deposit

NEW DATE (was 3/21)

Admin/GIS/Field Day New-Hire Training:

- **Register:** <http://www.dirtandgravel.psu.edu/education-and-training/conservation-district-new-hire-training>
- **Schedule:** March 28, 29, 30 in State College

Bankfull / Stream Crossing Trainings:

- **Registration available soon**
- **Schedule:**
 - April 26th Cumberland County
 - May 10th Elk County
 - May 11th Indiana County
 - June 6th Pike County
 - June 8th Centre County
 - **June 27-28th** **NAACC Culvert Assessment Training** (St College Area): This is a methodology for assessing and ranking road/stream crossings for aquatic connectivity, used throughout the Northeastern US. More details to come. Web Link: <https://streamcontinuity.org/>