

Small Dam Repairs

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Maintenance Funds

- Each District gets \$3000 per year per dam
- For general maintenance items, mostly mowing.
- Language for the fund is very specific and **MUST** be used for maintenance

Examples of Small Dam Repairs

- Graded Filter Drain
- Wave Berm Reconstruction
- Gate Replacement
- Access Road Improvements
- Does not include widening or otherwise increasing the size of the spillway, this is a rehab!

Small Dam Repair Fund

- \$500,000 per year
 - This is for all 12 dam owning Districts
- Non reverting fund
 - Money stays with DCR
 - Districts have a set time limit to complete the work, or the allocation gets returned to the fund
- For all items not considered maintenance or rehab

Small Dam Repair Process

- Requests due to Charles Wilson, PE (District Dam Engineer) end of September
- Report to the Soil and Water Board at December meeting
- Award letters sent to Districts first of January
- Grant agreement

Project Highlights-Riser Tower Evaluation

- Plan to evaluate all towers and gates that are not currently operational
 - Or maybe we just don't know if they are or not!
- Involves divers to inspect the gate underwater
- Contractor to operate gate if it appears nothing is wrong
 - Note-District will be present!

Riser Tower Evaluation

- Contractor to submit report detailing deficiencies
- Work to repair the risers/gates will be done under separate contract
- Will do 20 gates at a time, organized geographically
- First set to start this spring

Project Highlights-RCC Coring

- Roller Compacted Concrete
- Used as overtopping protection
- Often mixed on site
- Can be covered with topsoil and grass so you wouldn't even know it is there
- Fun Fact! The large dam at Hungry Mother State Park is an RCC overlay dam!

Marrowbone #1

- Design build project from the early 1960s
- Rehab completed by NRCS in the fall of 2005
- Total cost approximately \$2.6 million

Marrowbone #1

- DCR Dam Safety Regional Engineer and District complained of RCC “peeling” away
- By all accounts, the dam was fine
- We have no way of knowing if it is just the first couple of inches, or several feet

Marrowbone #1

- Initial testing done 2016
- Loose aggregate collected off the ground
- Testing was inconclusive
- Pointed to a possibility of low moisture content when constructed
- Again, no way of knowing how many lifts were effected

Marrowbone#1

- Core samples taken summer 2017
- Sent for petrographic testing
 - This will tell us exactly what is in the mix
 - Remember, this was all mixed on site







The big day has arrived!





















Questions?

