Sustainable Solutions for Non-Point Pollution Problems in Indian Country

Prairie Island Indian Community - Sustainable Solutions Implemented with Base & Competitive 319 Grants
Prairie Island Indian Community
Lock and Dam 3

Prairie Island Nuclear Plant

Area that work was done in.

2016

2017

2018
Congratulations!

319
The Solution to NPS Pollution
Plan for Success

• Does the project require maintenance?
• Is the Tribe going to add staff to maintain it?
Mission Statement:
Clean Up Runoff and Create Trends

▪ Hardscapes
▪ Native plants
▪ Educational outreach
Hardscapes

- Dry Creeks
- Permeable Pavers
- Catchment Basins
Native Plants

• Deep Roots
• Natures Filters
• Pollinators First Choice
**Outreach**

**Rain Gardens**

**How Rain Gardens Work**

The existing soil within the rain garden is restored (or amended) and replaced with a more permeable soil typically consisting of a mix of sand, loam, and compost. These soils will allow for easier water percolation.

Soil of rain gardens is dependent upon the amount of water that is expected to enter it during a rain event. The rain garden is planted with trees, shrubs, and perennials before being covered in a layer of mulch.

The completed rain garden has a slight depression that is used to temporarily collect runoff. It can infiltrate slowly, they have the same soil and feel as any other conservation landscape bed, but with the added benefit of increased stormwater infiltration.

**Rain gardens, snow gardens, bio-filtration or phytoremediation; they all mean the same thing.**

using plant life to filter the pollution out of runoff before it returns to the Sacred Waters.
2016 Project
Bio-Filtration & Snow Garden Pilot

Before

After
2017 Project
Shoreline stabilization and native plant restoration
2016 raingarden was an in house project to stop the erosion being caused by the drain pipe seen in first picture. Competitive 319 funds were used to put in the final landscaping and annual plants will be added in summer by the marina to give it color.
Do something Tangible
Questions?

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