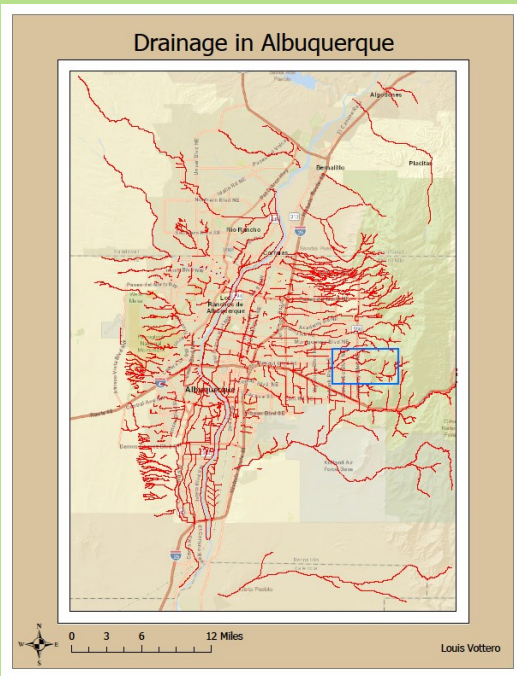


Improving Stormwater



Results

Site selection resulted in a 200 foot section of arroyo

Structure would contain three sections:

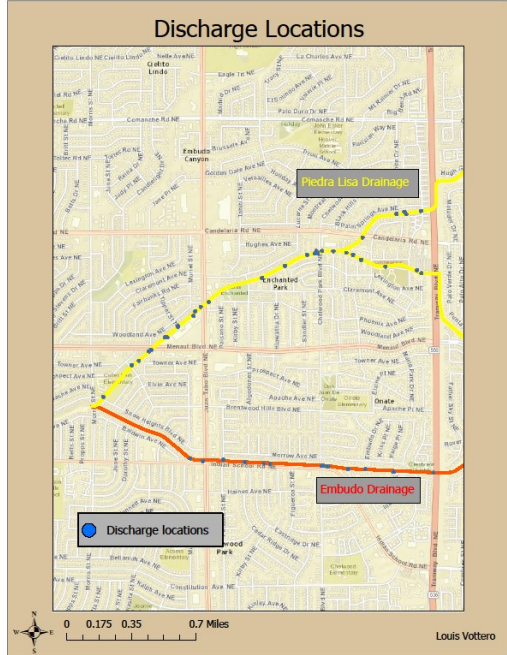
- Screen zone to remove large trash and debris
- Sediment zone comprised of rocks to decrease velocity and allow sediment to fall out
- Riparian area consisting of high-permeability soils and vegetation

Goals of structure:

- Extract heavy metals and chemicals through phytoremediation
- Decrease water velocity to promote infiltration and a safer environment
- Increase aesthetics for nearby community

Future work:

- Model flow to understand dynamics
- Expand data collection city-wide to determine feasibility of multiple structures
- Implement structure and test water quality



Rain gardens work better!

Objective:

- Complete a site selection analysis for an in-channel water treatment area with a focus on stormwater treatment

Data

- AMAFCA
- ABCWUA Water 2120
- Aaron Kauffman

Prepared by: Louis Vottero CE 547

