Doing More with Less
Developing a Groundwater Elevation Model

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UIC Regulatory Overview

- What is a UIC?
- Federal Safe Drinking Water Act
- Federal Code and State Administrative Rules
- Relationship to Groundwater
- Protectiveness Demonstration
Agency GIS Background

• Data acquisition and asset management
• Discovering outside data
• Basic map creation, analysis and growth
• Project development using current tools and trial extensions
Groundwater Elevation Model

- Overview and focus area
- Primary data-sets
- Establishing resources
- Review
GW Elevation Model - Data Analysis

- ArcGIS Resource Center’s Classification Trees of Interpolation Methods
- Exploring Spatial Data Analysis tool
- ArcGIS Geostatistical Analyst tool
- Visual and Statistical Analysis
- Summary
GW Elevation Model - Surface Creation

Depth to Ground Water:
- Statistical function
- Averaging restrictions

Water Table Elevation:
- Statistical function
- Averaging restrictions
GW Elevation Model – Averaging & Application

- Evaluation of created surfaces
- Conclusion and protectiveness

Questions?

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