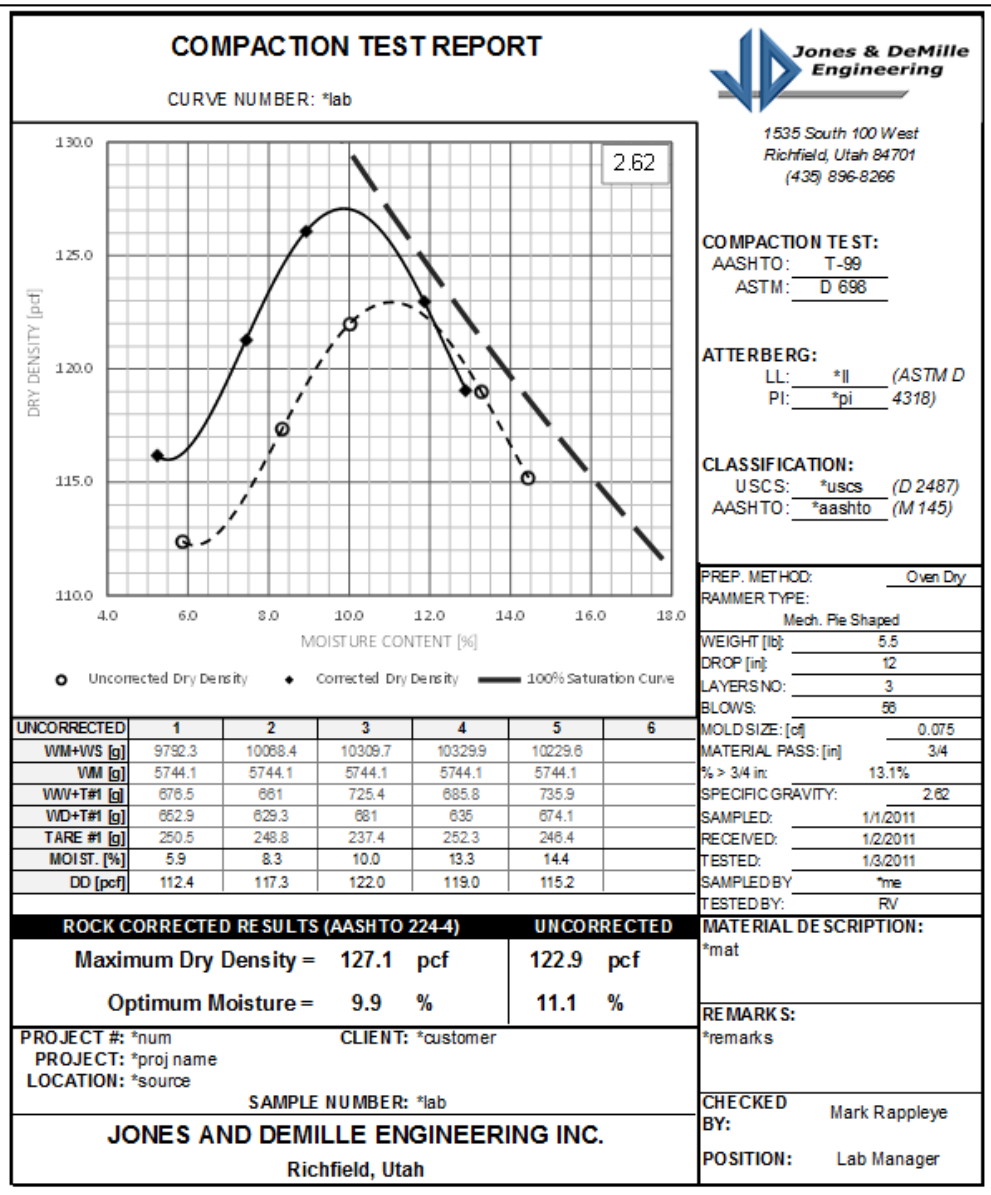
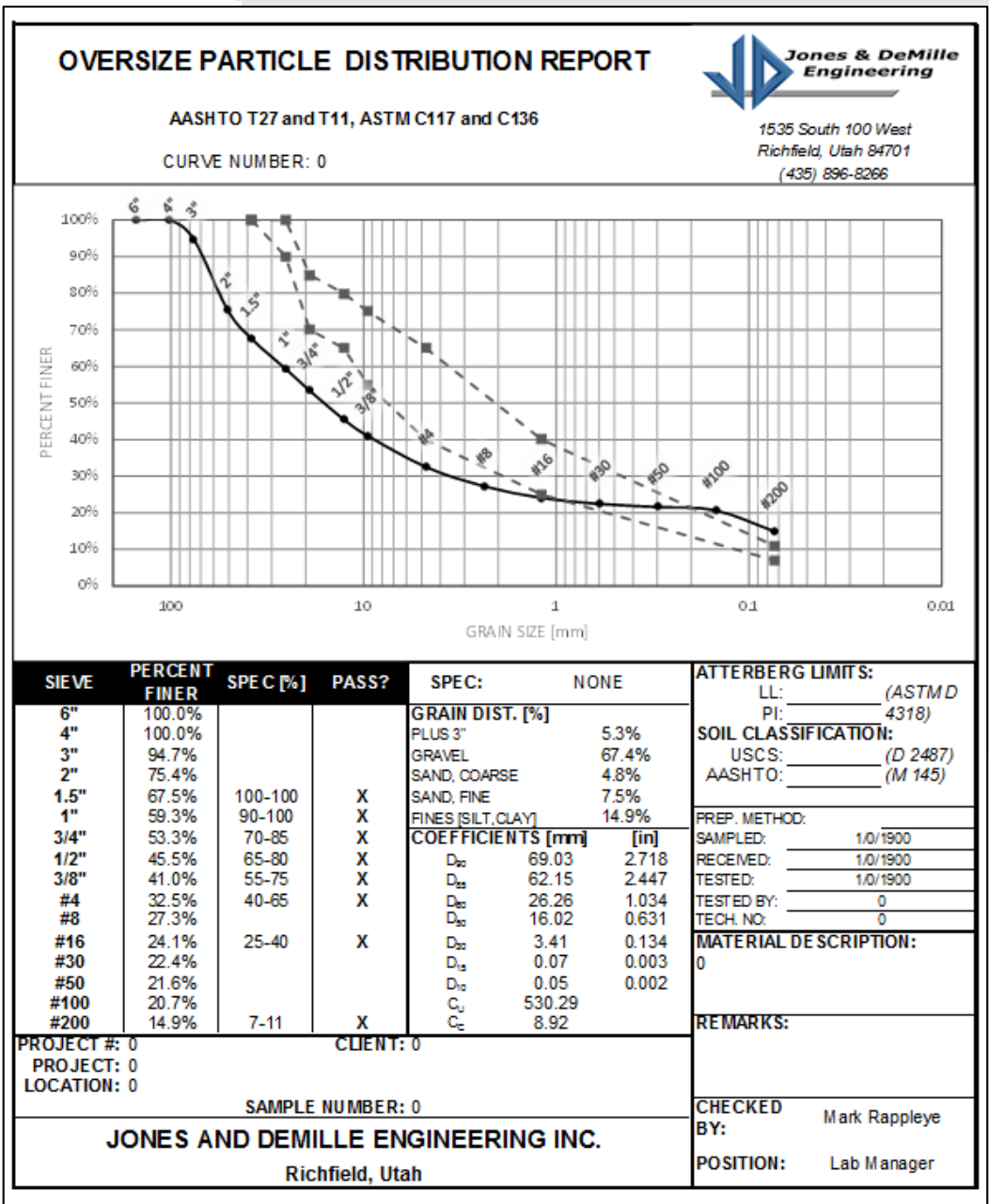
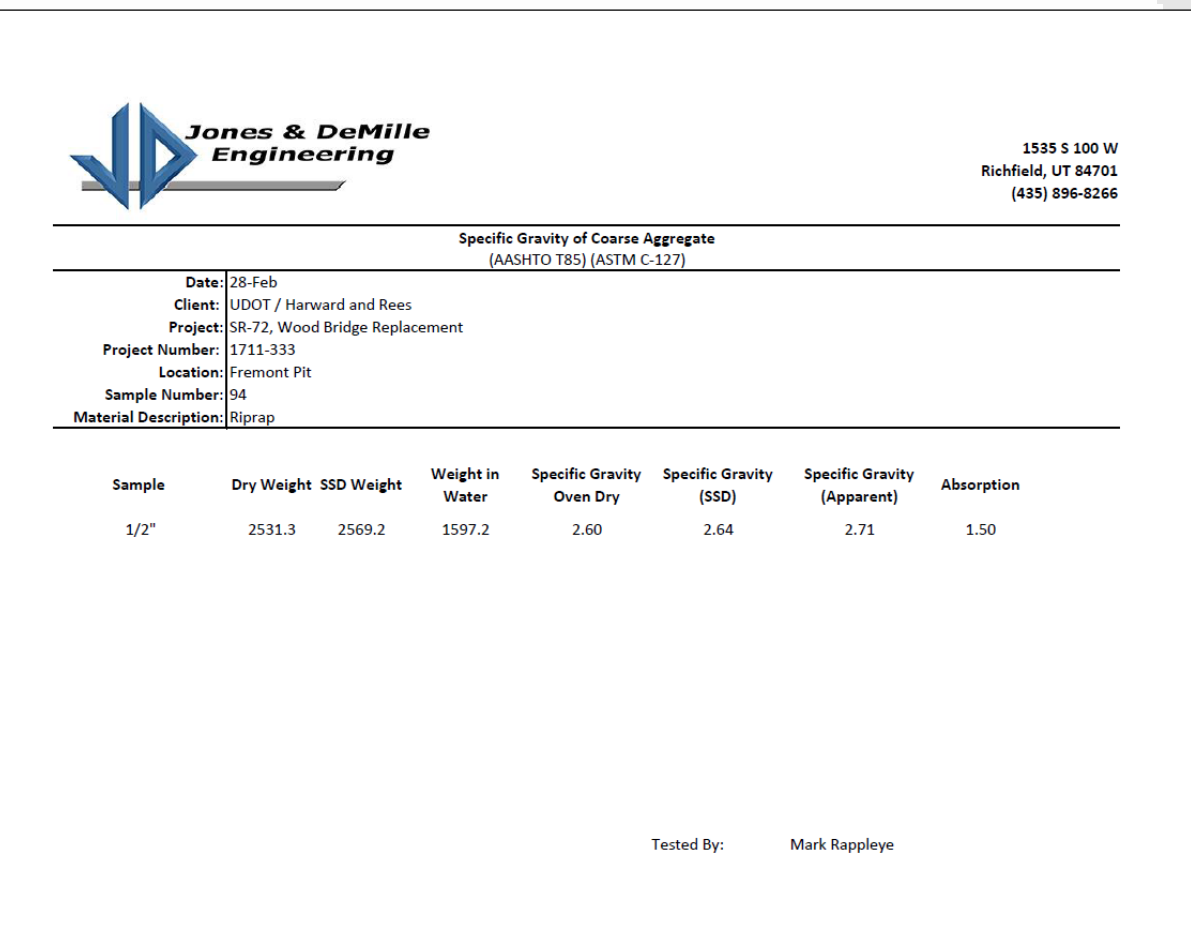


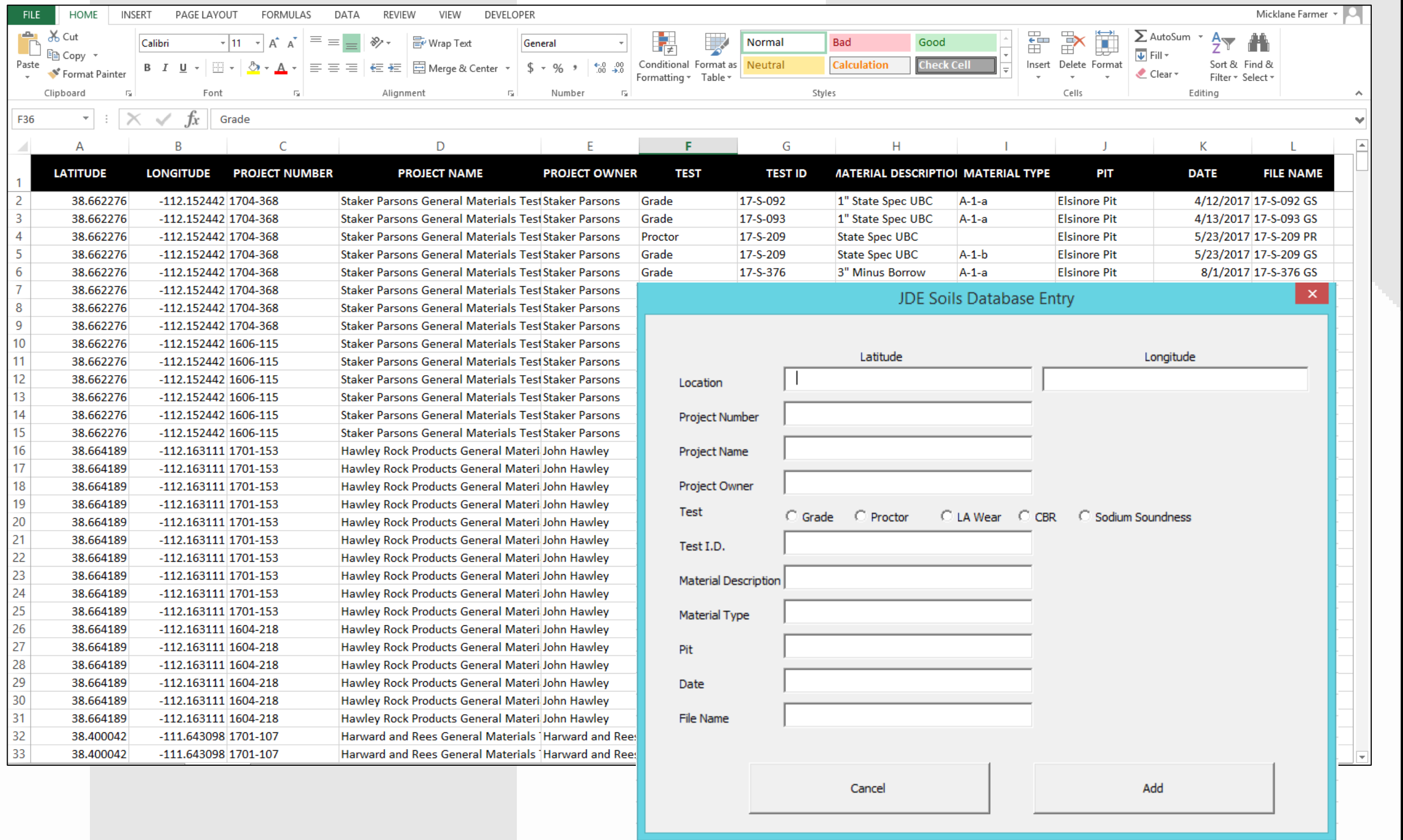
Project Parameters

The client, Jones & DeMille Engineering, tasked three of their summer interns to develop a web-based **materials testing geodatabase** for its materials lab. The database will allow the lab manager to look up different tests performed at certain locations, and construction managers to look up reports in the field. In addition, **new lab test spreadsheets** were developed for Jones & DeMille’s remote labs located throughout the state.

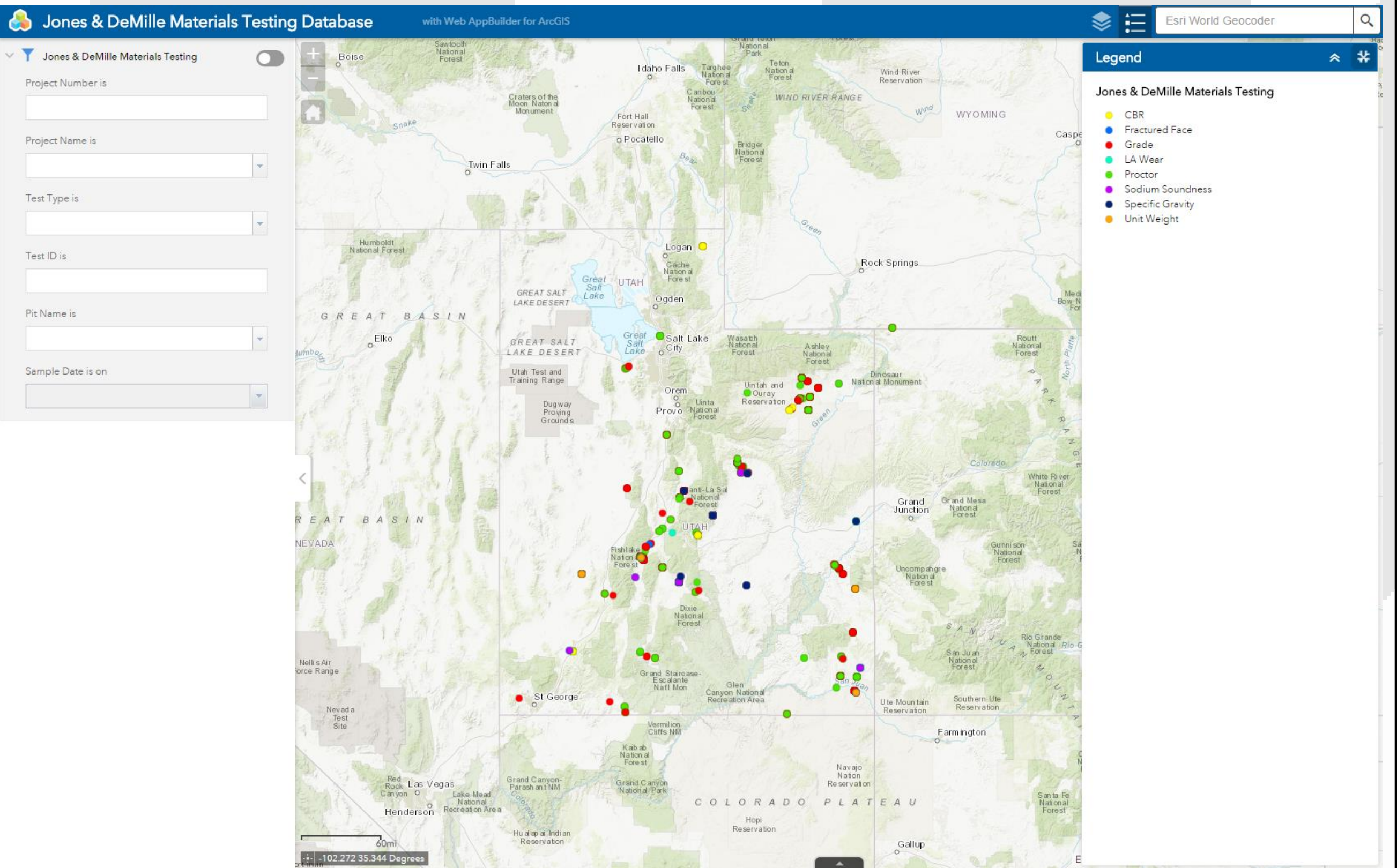
New Spreadsheet Designs



Database Interface



Spreadsheet Design and User Form



Mapping Interface

(1 of 11)	
Materials Test Types: Hanksville Irrigation Diversion	
Project Number	1605-264
Project Name	Hanksville Irrigation Diversion
Project Owner	Wayne County
Test Type	Sodium Soundness
Test ID	16-A-228
Material Description	Riprap
Material Type	
Pit Name	
Sample Date	6/16/2016, 6:00 PM
Latitude	38.37
Longitude	-110.74
Report Name	16-A-228 SS
Attachments:	16-A-228 SS.pdf

User Form on ArcGIS Online

Summary of Tasks Completed

- A database spreadsheet was developed to input test results from previous years
- A user-form was created for the lab manager to continue inputting data correctly into the database
- Using GIS software, the team integrated the test results into a geodatabase on ArcGIS online for a more interactive and visual web-app
- Spreadsheets for proctor, gradation, and specific gravity were redesigned for remote lab locations