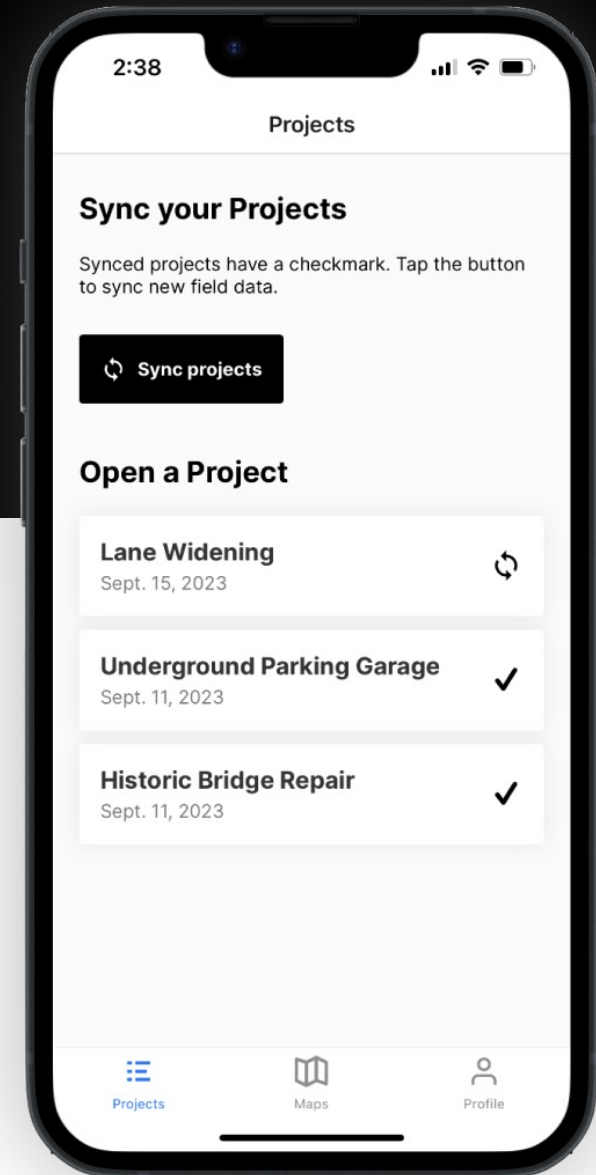
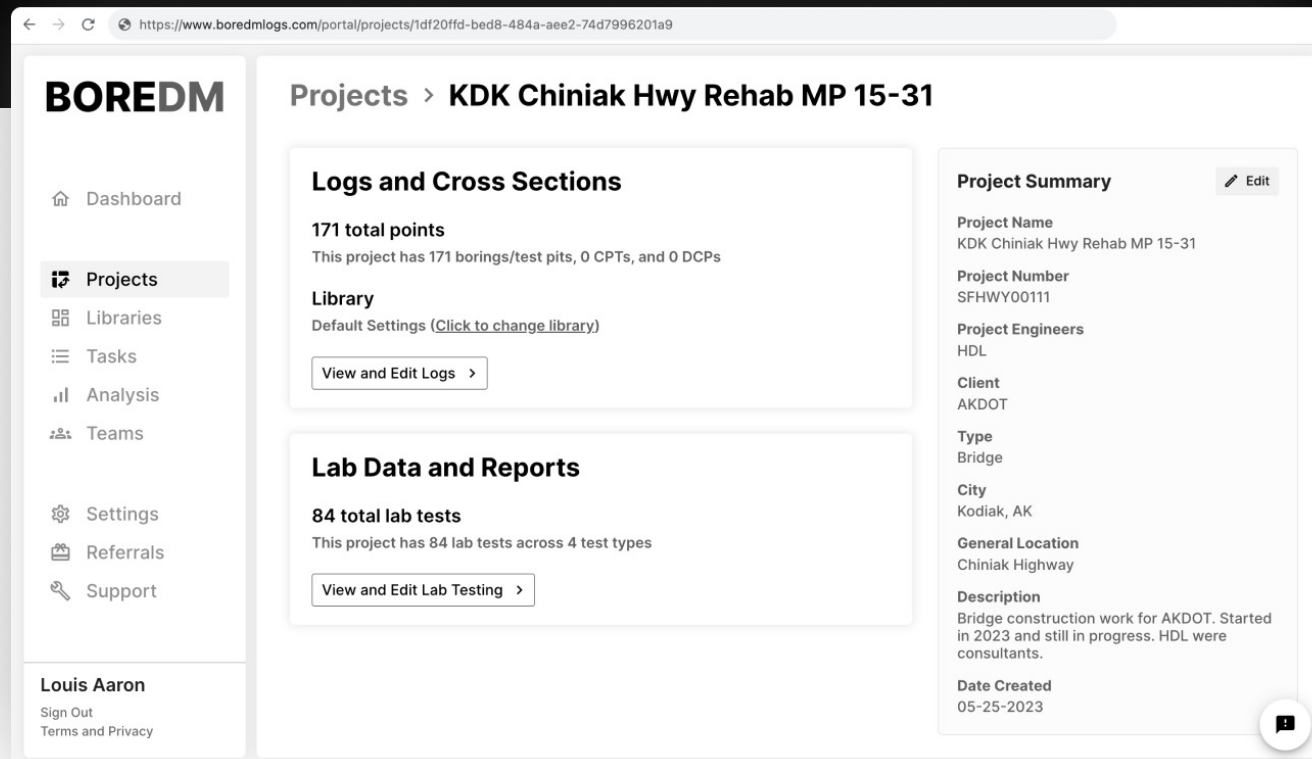


# BOREDM

## ADVANCED DATA-SHARING FOR LIVE PROJECT COLLABORATION

STGEC | September 2025



# CROSS-ORGANIZATION DATA SHARING AND GRANULAR DATA PERMISSIONS

MISSION: OFFER AN INTRODUCTORY VIEW INTO LIVE DATA-SHARING  
ACROSS COLLABORATING ORGANIZATIONS WITHOUT OVER-SHARING

# The goal: collaboration across “all three” project entities

**Project Owner**  
“The DOT”

**Engineering  
Consultant**  
“The Consultant”

**Laboratory Testing  
Firm**  
“The Lab”

- It's relatively easy when all three of these roles are played by the same organization
- When there are three separate teams, data sharing between these three entities has been slow and manual:
  - Emails and phone calls between consultant and lab, emails and phone calls between project owner and consultant
- How can we get to real-time data-sharing with automated status updates and notifications, but without over-sharing? With Excel/PDF files and emails, restricting access is easy. In this cloud, it's a challenge!

# The challenge: collaboration without over-sharing

**Project Owner**  
“The DOT”

**Engineering  
Consultant**  
“The Consultant”

**Laboratory Testing  
Firm**  
“The Lab”

✅ Wants to share live progress tracking with The Consultant

- Approved results
- Progress: x/52 Atterbergs, y/84 Moistures, z/14 -200s, etc

❌ Does *not* want to share access to draft data or underlying readings with anyone (risk)

- Wet weight, dry weight, tare weight
- Equipment calibrations

# The challenge: collaboration without over-sharing

**Project Owner**  
“The DOT”

**Engineering  
Consultant**  
“The Consultant”

**Laboratory Testing  
Firm**  
“The Lab”

- ✓ Wants to share live progress tracking with The DOT
  - Drilling status (logs drilled, logs in progress, logs not started)
  - Laboratory status (samples tested, samples assigned)
- ✓ Wants to share test assignments and limited sample information with The Lab
  - Sample ID, Log ID, depth, recovery, field description, tests assigned
- ⊘ Does *not* want to share borehole locations or project information with The Lab

# The challenge: collaboration without over-sharing

**Project Owner**  
“The DOT”

**Engineering  
Consultant**  
“The Consultant”

**Laboratory Testing  
Firm**  
“The Lab”

✓ Wants to see everything

⊘ Does *not* want to share borehole locations or project information with The Lab

# The challenge: collaboration without over-sharing

<b>Project Owner</b> “The DOT”	<b>Engineering Consultant</b> “The Consultant”	<b>Laboratory Testing Firm</b> “The Lab”
<b>Can view:</b> <ul style="list-style-type: none"><li>- Explorations</li><li>- Lab assignments</li><li>- Approved lab results (no readings)</li></ul>	<b>Can view:</b> <ul style="list-style-type: none"><li>- Approved lab results (no readings)</li></ul> <b>Can edit:</b> <ul style="list-style-type: none"><li>- Explorations</li><li>- Lab assignments</li></ul>	<b>Can view:</b> <ul style="list-style-type: none"><li>- Lab assignments and subset of associated sample information</li></ul> <b>Can edit:</b> <ul style="list-style-type: none"><li>- Lab readings, assignments (?), samples (?)</li></ul>

# The challenge: collaboration without over-sharing

## Laboratory Testing Firm

“The Lab”

### Can view:

- Lab assignments and subset of associated sample information

### Can edit:

- Lab readings, **assignments (?)**, samples (?)



# The challenge: collaboration without over-sharing

## Laboratory Testing Firm

“The Lab”

### Can view:

- Lab assignments and subset of associated sample information

### Can edit:

- Lab readings, assignments (?), **samples (?)**

# This is now possible with advanced permissioning

The screenshot displays the BOREDM web application interface. The background shows a project page for 'The Sam Kagan Bridge' with sections for 'Logs and Cross Sections' (3 total points), 'Library' (BoreDM HQ), and 'Lab Data and Reports' (0 total lab tests). A 'Share project' dialog box is open in the center, allowing users to manage permissions. The dialog includes a 'Project Link' field with a URL, a 'Teams with Access' section with a search bar and a list of teams ('The Consultant' as EDITOR, 'The DOT' as VIEWER), and a 'General Access' section. At the bottom of the dialog are buttons for 'Discard Changes and Close' and 'Save and Close'. The background interface also features a sidebar with navigation icons, a top navigation bar, and a 'Download' button.

Projects > The Sam Kagan Bridge

Download

### Logs and Cross Sections

3 total points  
This project has 3 borings/...

### Library

BoreDM HQ [Click to change...](#)

View and Edit Logs >

### Lab Data and Reports

0 total lab tests  
This project has no lab tests...

Assign Lab Testing (BoreDM L...

### Project Summary

Edit

Project Name

#### Share project

Manage which users can view, edit, or manage this project

Project Link

<https://www.boredmlogs.com/projects/28b7d69e-9ea5-4e80-97f0-15bc33bd9779>

#### Teams with Access

Add collaborators (search for a team name)

T The Consultant	EDITOR	⚙️
A The DOT	VIEWER	

#### General Access

Administrators on the All Users team can manage all projects in your organization.

Discard Changes and Close > Save and Close >

Date Created  
07-17-2025

will connect D.C. to Phoenix.

## This is now possible with advanced permissioning

**Projects** > **The Sam Kagan Bridge** > **Lab**

**Assignments** Requests

Assign Testing

Log	Sample Specimen	Depth	Bottom	Field USCS	Field Description	Lab Classification	Lab Description	Laboratory Tests
Filter	Filter	Equals	Equals	Filter	Filter	Filter	Filter	Filter
B-5	1	0	1.5	CL	Lean Clay wit...	pending	pending	ATB MC SV4 SC
B-5	2	5	6.5	SC	Clayey Sand	SC	CLAYEY SAND	ATB MC SV4 SC
B-5	3	10	11.5	CH	Fat Clay with ...	pending	pending	ATB MC SV4 SC HY DS
B-5	4	15	16.5	ML	Silt with Sand	pending	pending	ATB MC SV4 SC
B-5	5	20	21.5	ML	Silt		pending	ATB MC SV4 SC

Total Rows: 5 of 5

# This is now possible with advanced permissioning

Create Lab Testing Assignments

Select Testing Schedule From Preset

Columns

Filters

Log	Sample Specimen	Type	Rec (Inches)	ATB	MC	MPR	SPR	SV4	HY	SC	DS	SAC	DUW	Dep
Filter	Filter	Filter	Equals	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
B-5	1	SPT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
B-5	2	SPT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5
B-5	3	SPT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
B-5	4	SPT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15
B-5	5	SPT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20

Total no. of assigned tests: 119

Discard changes and close

Assign Tests

Assign Tests and Submit Lab Request

# This is now possible with advanced permissioning

Projects > Red Wing Lake Golf Course > Lab

Assignments

Log

Log	Sample
B-1	S-1
B-1	S-2A
B-1	S-2B
B-1	S-3
B-3	S1
B-3	S2
B-3	S3
B-3	S4
B-3	S5
B-3	S6
B-5	1
B-5	2
B-5	3
B-5	4
B-5	5

Submit Lab Testing Request

Request Name \*

☐ Select samples to submit for testing

- ☐ B-3 - S1, 0-1.5 ft ATB MC SV4 SC
- ☐ B-3 - S2, 5-6.5 ft ATB MC SV4 SC
- ☐ B-3 - S3, 10-11.5 ft ATB MC SV4 SC
- ☐ B-3 - S4, 15-16.5 ft ATB MC SV4 SC
- ☐ B-3 - S5, 20-21.5 ft ATB MC SV4 SC
- ☐ B-3 - S6, 25-26 ft ATB

→

The Lab

No options

Cancel Submit for Testing

Assign Testing

Total Rows 2

# This is now possible with advanced permissioning

Projects > The Sam Kagan Bridge > Lab

Assignments   Requests

Log	Sample Specimen	Depth	Bottom	Field USCS	Field Description	Lab Classification	Lab Descriptive
Filter	Filter	Equals	Equals	Filter	Filter	Filter	Filter
B-5	1	0	1.5	CL	Lean Clay wit...	pending	pending
B-5	2	5	6.5	SC	Clayey Sand	SC	CLAYEY SAND
B-5	3	10	11.5	CH	Fat Clay with ...	pending	pending
B-5	4	15	16.5	ML	Silt with Sand	pending	pending
B-5	5	20	21.5	ML	Silt		pending

1 row selected

### Assignment

Log  
**B-5**

Sample Specimen  
**2**

Depth  
**5 ft**

Classification

---

**Report classification**

USCS: SC

Description: Clayey Sand with Gravel

Recovery Length: 16"

Sample Type: SPT - Standard Penetration Test

Activity

**Laboratory testing results**

USCS: SC

Description: CLAYEY SAND

Atterberg Limits  
ASTM D4318 - 17e1 **34-14-20**

Moisture Content  
ASTM D2216 - 19 **14.3%**

Sieve Analysis  
ASTM D422 **2.00%-63.00%-35.00%**

Soil Classification  
ASTM D2487 - 17e1 **See classification results above.**

[Assign Tests](#)

# This is now possible with advanced permissioning

Projects > The Sam Kagan Bridge > Lab

Assignments

Requests

Log	Sample Specimen	Depth	Bottom	Field USCS	Field Description	Lab Classification	Lab Description
<div><div>1</div><div>Filter</div></div>	<div><div>Filter</div></div>	<div><div>Equals</div></div>	<div><div>Equals</div></div>	<div><div>Filter</div></div>	<div><div>Filter</div></div>	<div><div>Filter</div></div>	<div><div>Filter</div></div>
B-5	1	0	1.5	CL	Lean Clay wit...	pending	pending
B-5	2	5	6.5	SC	Clayey Sand	SC	CLAYEY SAN
B-5	3	10	11.5	CH	Fat Clay with ...	pending	pending
B-5	4	15	16.5	ML	Silt with Sand	pending	pending
B-5	5	20	21.5	ML	Silt		pending

1 row selected

Assignment

Log

B-5

Sample Specimen

2

Depth

5 ft

Classification

Activity

● 08/26/2025 13:10

Moisture Content test completed

● 08/26/2025 13:10

Sieve Analysis test completed

● 08/26/2025 13:09

Atterberg Limits test completed

● 08/22/2025 17:59

Sample created

● 08/22/2025 17:59

Test assigned

# This is now possible with advanced permissioning

Laboratory > Run Tests > The Sam Kagan Bridge

Search Columns Filters Density Group by

Log	Sample	Depth	Tests
Filter	Filter	Filter	Filter
B-5	1	0	Atterberg Limits Moisture Content Sieve Analysis Soil Classification
B-5	2	5	Atterberg Limits Moisture Content Sieve Analysis Soil Classification
B-5	3	10	Atterberg Limits Direct Shear Moisture Content Sieve Analysis Soil Classification Hydrometer Analysis
B-5	4	15	Moisture Content Sieve Analysis Soil Classification Atterberg Limits
B-5	5	20	Atterberg Limits Moisture Content Sieve Analysis Soil Classification

BOREDM

CONFIDENTIAL AND PROPRIETARY



## This is now possible with advanced permissioning

Laboratory > Run Tests > The Sam Kagan Bridge

Job # 25-3327

B-5

2

5 ft

ASTM D4318 - 17e1

Close

Search

Columns

Filter

Log	Sample	Depth	Tests
Filter	Filter	Filter	
B-5	1	0	Atterberg Limits Moisture Content
B-5	2	5	Atterberg Limits Moisture Content
B-5	3	10	Atterberg Limits Direct Shear
B-5	4	15	Moisture Content Sieve Analysis
B-5	5	20	Atterberg Limits Moisture Content

Test Settings

Drying Method

Sieving Method

Sample

Dish Number

Wet

Air Dry

Oven Dry

Wet

Dry

Mechanical

Inorganic

Organic

Liquid Limit

Method

Equipment

Grooving Tool

LL Device #

A (Multipoint)

B (One-Point)

Hand

Mechanical

Plastic

Metal

	Point 1	Point 2	Point 3	Point 4
Tare Can #				
Tare Mass	10.00 g	10.00 g	10.00 g	
Wet + Tare Mass	90.00 g	90.00 g	90.00 g	
Dry + Tare Mass	60.00 g	72.00 g	80.00 g	
Water Content	60.00 %	29.03 %	14.29 %	
# Blows	23 blows	25 blows	27 blows	

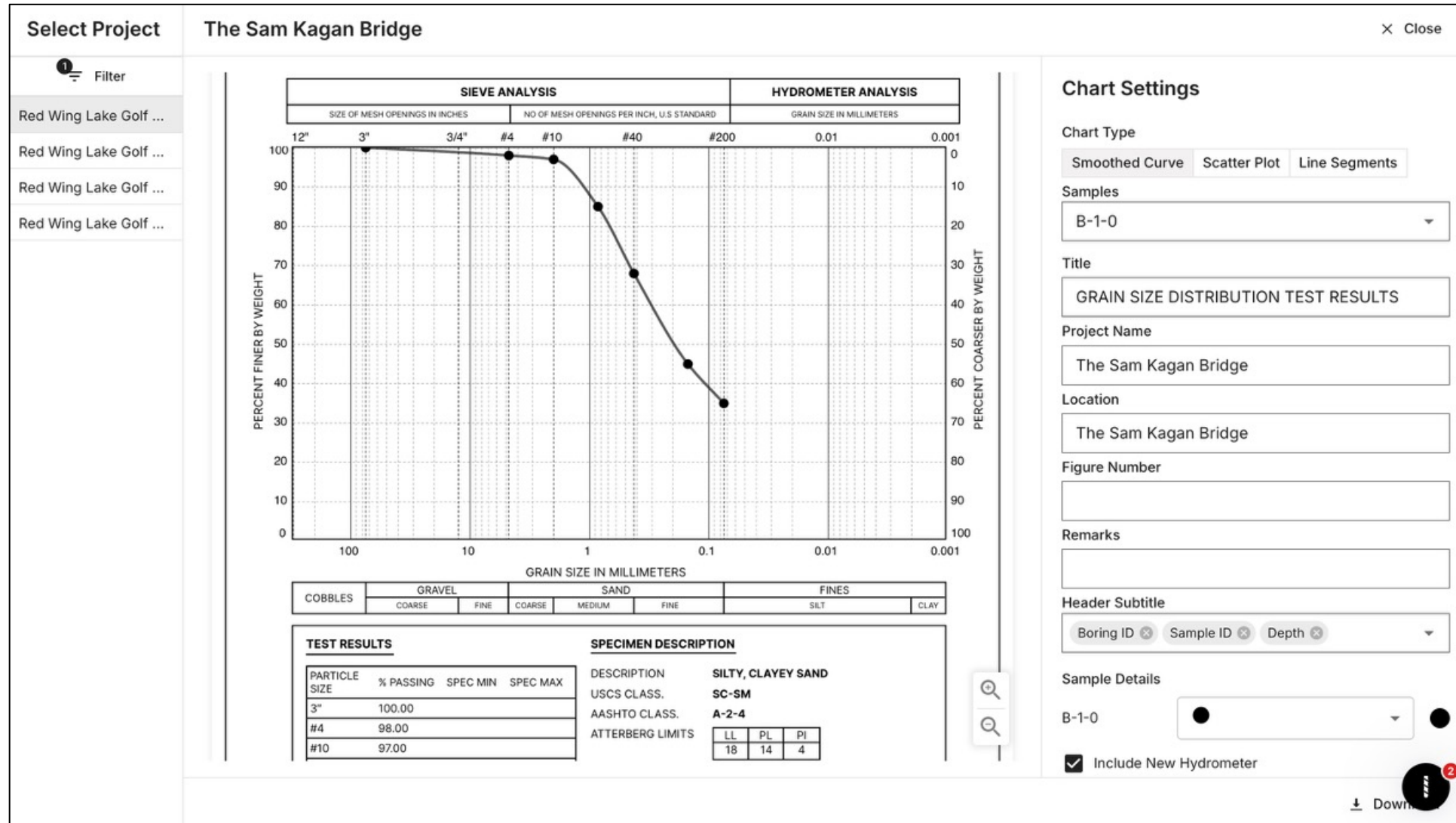
Approved

Mark as Voided

History

Print

# This is now possible with advanced permissioning



# Permissions extend to API access

1 Select Project & Logs

2 Data Summary

3 Results & Modifications

Finished

Input

Instructions

## TxDOT Potential Vertical Rise Analysis

This application calculates the Potential Vertical Rise (PVR) for expansive soils using TxDOT methodology. The analysis helps assess the potential for soil expansion and associated structural damage.

**Step 1: Select a project and boring logs from BoreDM database**

Project Selection

Select a Project

Search by name

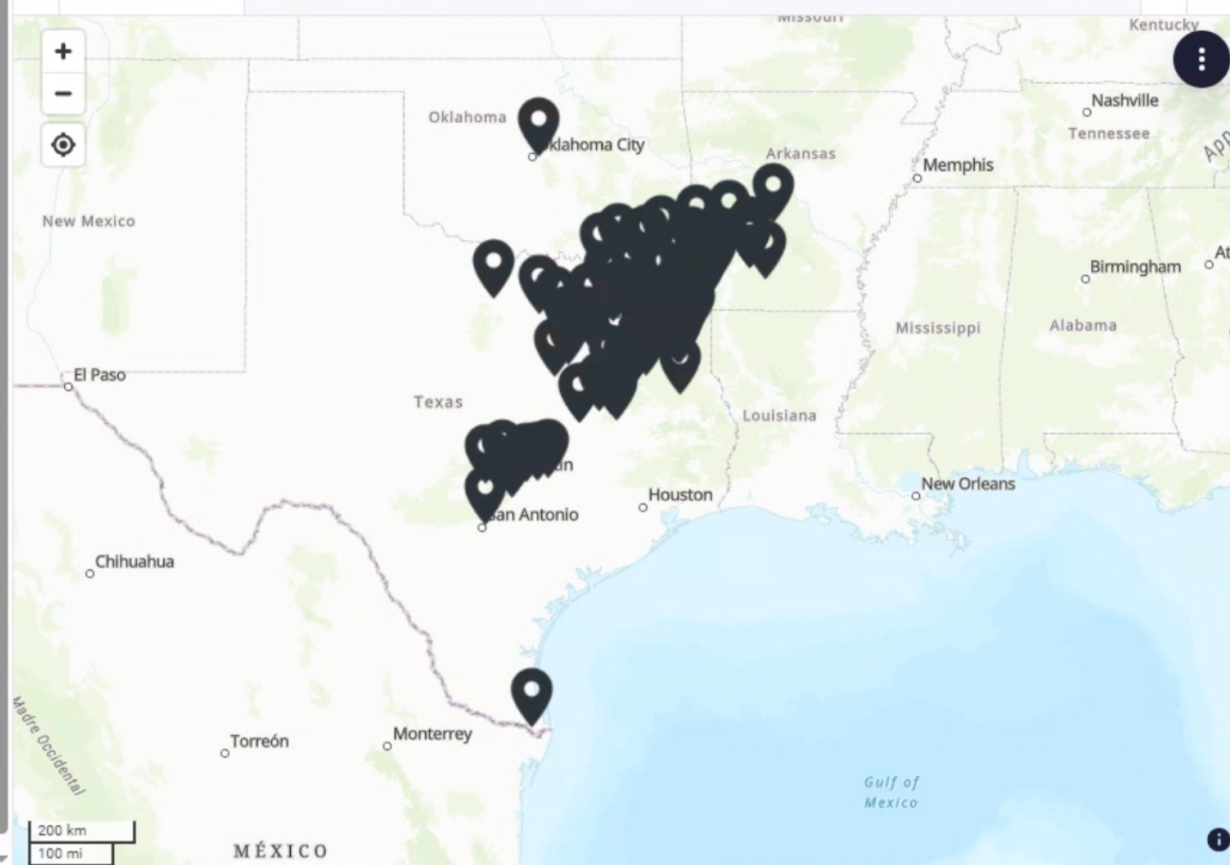
Select project from map

Log Selection

Select Project & Logs

Project Map

Project Logs Map



Previous step

Next step

# BoreDM is a single-source-of-truth, open data layer



## AutoCAD Civil 3D

Instantly push logs and cross-sections into Civil 3D via our secure plugin.



## REST API

Secure endpoints to automate reports or feed BoreDM data into any tool.



## Esri ArcGIS

Overlay borehole data in ArcGIS for advanced spatial analysis and comprehensive mapping.



## GINT / DIGGS / CSV / AGS / AGS 4.11 AU

Import and export gINT, DIGGS, CSV, and AGS (including AGS 4.11 AU) files with zero data loss.



## VIKTOR

Build custom VIKTOR apps and dashboards directly on BoreDM data.



## Leapfrog

Export directly to Leapfrog Geo for rapid 3D geological modeling.

