

# MnModel Soil Borings and Logs, Minnesota

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## Section 1: Overview

**Originator:** Minnesota Department of Transportation

**Title:** MnModel Soil Borings and Logs, Minnesota

**Abstract:** Soil borings supported the mapping of Landform Sediment Assemblages used to develop landscape suitability models for geologically buried archaeological sites. Boring logs in PDF format are linked to boring points using the field FULLPATH.

The soil borings and logs included in this spatial data package are a product of the Mn/Model4 project's mapping of major river valleys and glacial lake beds in Minnesota.

For the data package metadata visit: [Landform-Sediment Assemblages \(LfSA\) Feature Datasets](#)

**Purpose:** The purpose of this dataset is to provide the source data used for predicting the potential for finding unknown archaeological sites early in the transportation construction planning process, so that impacts on these sites can be

avoided.

This dataset is best suited for general reference only. It is not suitable for precise land measurements or ground surveys. Data are incomplete, as large areas of the state are unmapped.

For more information please visit MnModel's website: <https://www.dot.state.mn.us/mnmodel/index.html>

**Time Period of Content Date:**

**Currentness Reference:** 1997-2014

**Progress:** Incomplete

**Maintenance and Update Frequency:** None Planned

**Spatial Extent of Data:** Minnesota River Valley mapping is bounded by limits of valley walls and up tributary valleys (though arbitrarily truncated in larger tributary valleys). See completeness section for detailed list of areas mapped.

**Bounding Coordinates:**-97.508970  
-89.028990  
49.652543  
43.192405

**Place Keywords:** Minnesota

**Theme Keywords:** geoscientificInformation, Geomorphology, River Valleys, Landscape Sediment Assemblages, Cross-Sections, Soil Borings, Soil Boring Logs, LfSA, Mn/Model4, MnModel

**Theme Keyword Thesaurus:** ISO 19115 Topic Category

**Access Constraints:** None

**Use Constraints:** This dataset is best suited for general reference only. It is not suitable for precise land measurements or ground surveys. Data are incomplete, as large areas of the state are unmapped.

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**Browse Graphic:** None available

**Associated Data Sets:** Landform-Sediment Assemblages, Cross-Sections. For more information please visit MnModel's website: <https://www.dot.state.mn.us/mnmodel/index.html>

## Section 2: Data Quality

**Attribute Accuracy:** Field verified.

**Logical Consistency:** Data have been topologically structured and verified.

**Completeness:** Data are incomplete, as large areas of the state are unmapped. Data includes borings used to construct LfSA maps for the Anoka Sand Plain, Minnesota River, Mississippi River, Red Lake Bog, Rainy River, Red River, Rock River, Root River, Zumbro River, and the Saint Croix River. Additional borings have been added in Red Lake County, near the Lafayette Bridge in Saint Paul, and in the vicinity of MnDOT project SP 5211-59 in the Minnesota River Valley.

**Horizontal Positional Accuracy:** Data are within the National Map Accuracy Standards for 1:24,000-scale maps which is +/- 40 feet (12 meters). The dataset is not intended for legal land survey use, and is best suited for general reference.

**Vertical Positional Accuracy:** Not Applicable

**Lineage:** Coordinates of boring locations were mapped in the field using GPS. The original points were collected for LfSA mapping projects, and additional points were collected for several other projects. Boring points are associated with boring logs (PDF format) contained in a separate folder. These boring logs can be linked to the points in ArcGIS by editing the PATH, DIRECTORY, and FULLPATH fields in the feature

attribute table.

For more information please visit MnModel's website: <https://www.dot.state.mn.us/mnmodel/index.html>

### Section 3: Spatial Data Organization (not used in this metadata)

### Section 4: Coordinate System

**Horizontal Coordinate Scheme:**Universal Transverse Mercator

**UTM Zone Number:**15

**Horizontal Datum:**NAD83

**Horizontal Units:**meters

**Vertical Datum:**not applicable

**Vertical Units:**

**Depth Datum:**not applicable

**Depth Units:**

### Section 5: Attributes

**Overview:** Soil boring and log record attributes.

**Detailed Citation:**

## Table Detail: Soil Boring Logs - Boring Log Attributes

Field Name	Valid Values	Definition
FILE	-	Name of file containing record.
SOURCE	-	Project for which soil boring was taken.
DIRECTORY	-	Name of subdirectory containing soil boring log file.
PATH	-	Path to soil boring log file.
FULLPATH	-	Full path and filename; concatenation of PATH, DIRECTORY, and FILE.
ID	-	Field identification value.
CONTRACTOR	-	Name of contractor providing file to MnDOT

## Section 6: Distribution

**Publisher:** Minnesota Department of Transportation

**Publication Date:** 08/28/2019

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**Distributor's Data Set Identifier:** Mn/Model4 Soil Borings and Logs

**Distribution Liability:** USE OF THIS DOCUMENT IS SUBJECT TO MNDOT'S  
DISCLAIMERS, LEGAL NOTICES AND POLICIES FOUND  
at <http://www.dot.state.mn.us/information/disclaimer.html>

**Ordering Instructions:** Please visit the download page for this dataset on the  
Minnesota Geospatial Commons website using the web link below (Online Linkage).

The following citation is suggested for reference: Minnesota Department of  
Transportation. Mn/Model4: Soil Borings and Logs. Saint Paul, MN.: Cultural  
Resources Unit, Office of Environmental Stewardship, 2018.

**Online Linkage:** [I AGREE](#) to the notice in "Distribution Liability" above. Clicking to agree will either begin the download process, link to a service, or provide more instructions. See "Ordering Instructions" above for details.

## Section 7: Metadata Reference

**Metadata Date:** 08/28/2019

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**Metadata Standard Name:** Minnesota Geographic Metadata Guidelines

**Metadata Standard Version:** 1.2

**Metadata Standard Online Linkage:**

<https://www.mngeo.state.mn.us/committee/standards/mgmg/metadata.htm>

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