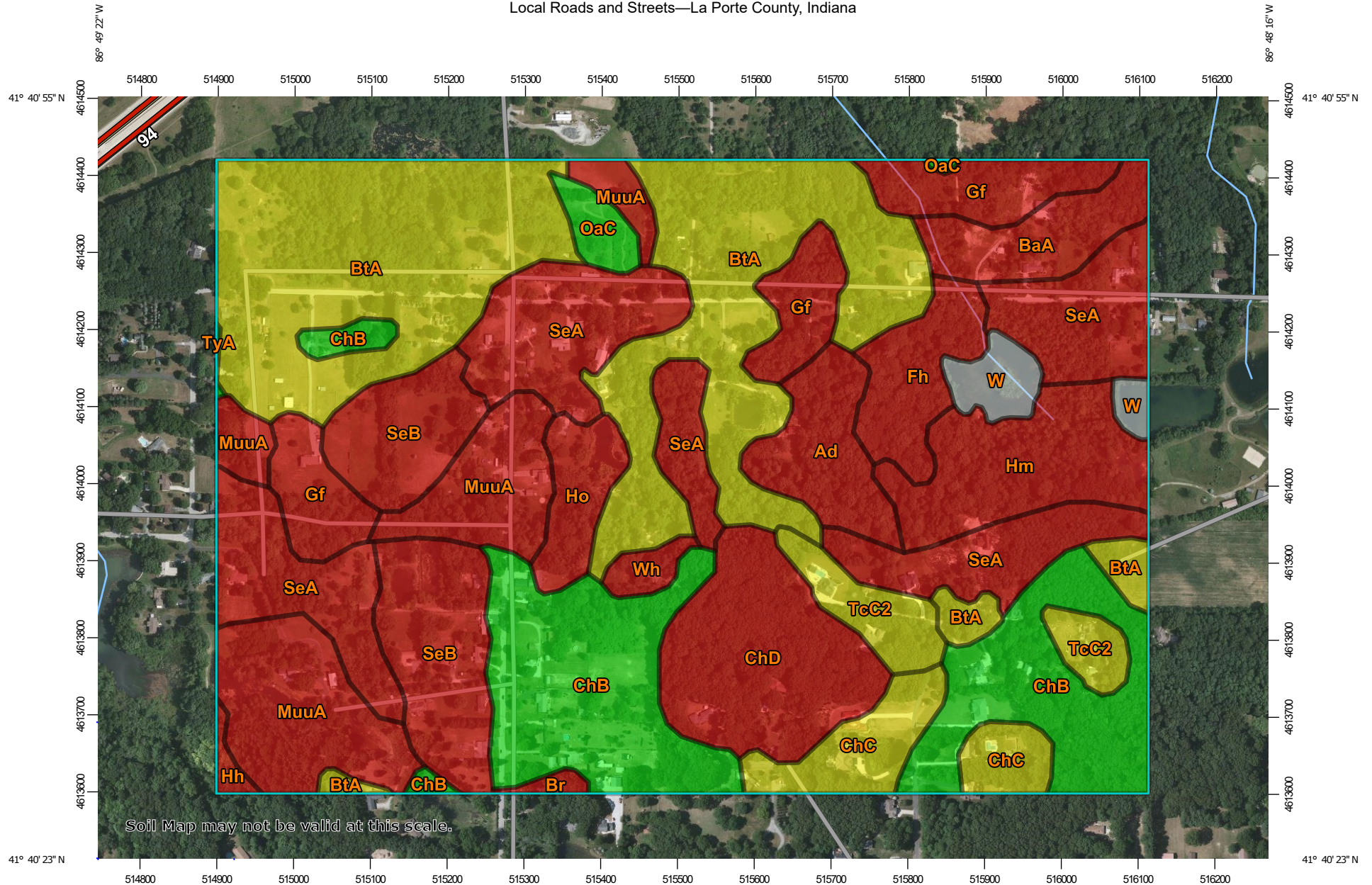
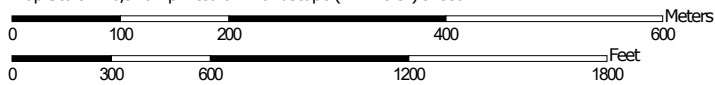


Local Roads and Streets—La Porte County, Indiana



Soil Map may not be valid at this scale.

Map Scale: 1:6,970 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

7/25/2022
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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Background

 Aerial Photography

Soils

Soil Rating Polygons

-  Very limited
-  Somewhat limited
-  Not limited
-  Not rated or not available

Soil Rating Lines

-  Very limited
-  Somewhat limited
-  Not limited
-  Not rated or not available

Soil Rating Points

-  Very limited
-  Somewhat limited
-  Not limited
-  Not rated or not available

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: La Porte County, Indiana

Survey Area Data: Version 26, Sep 8, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 18, 2020—Jul 8, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Local Roads and Streets

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
Ad	Adrian muck, drained, 0 to 1 percent slopes	Very limited	Adrian, drained (75%)	Ponding (1.00)	7.0	2.8%
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
			Antung, drained (10%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (0.50)		
			Edwards, drained (6%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
			Houghton, drained (6%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
				Subsidence (1.00)		
			Muskego, drained (3%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
BaA	Blount silt loam, Lake Michigan Lobe, 0 to 2 percent slopes	Very limited	Blount, Lake Michigan Lobe (95%)	Frost action (1.00)	6.2	2.5%
				Low strength (1.00)		
				Depth to saturated zone (0.99)		
				Shrink-swell (0.04)		
			Ashkum, drained (4%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Shrink-swell (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
			Orthents, clayey (1%)	Shrink-swell (1.00)		
				Low strength (1.00)		
				Frost action (0.50)		
Br	Bourbon sandy loam	Very limited	Bourbon (90%)	Frost action (1.00)	0.6	0.2%
				Depth to saturated zone (0.94)		
BtA	Brems fine sand, 0 to 3 percent slopes	Somewhat limited	Brems (100%)	Depth to saturated zone (0.04)	57.5	23.2%
ChB	Chelsea fine sand, 2 to 6 percent slopes	Not limited	Chelsea (93%)		32.4	13.1%
			Brems (3%)			
ChC	Chelsea fine sand, 6 to 12 percent slopes	Somewhat limited	Chelsea (94%)	Slope (0.04)	7.7	3.1%
			Riddles (2%)	Frost action (0.50)		
				Slope (0.04)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Low strength (0.00)		
			Metea (1%)	Frost action (0.50)		
				Slope (0.04)		
ChD	Chelsea fine sand, 12 to 18 percent slopes	Very limited	Chelsea (75%)	Slope (1.00)	14.7	5.9%
			Oakville (20%)	Slope (1.00)		
Fh	Fluvaquents, loamy	Very limited	Fluvaquents (80%)	Ponding (1.00)	6.4	2.6%
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Flooding (1.00)		
Gf	Gilford fine sandy loam, 0 to 1 percent slopes	Very limited	Gilford (85%)	Ponding (1.00)	13.1	5.3%
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
			Adrian, drained (5%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
			Sebewa, drained (5%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Shrink-swell (0.09)		
				Low strength (0.06)		
			Granby (5%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Frost action (0.50)		
Hh	Histosols and Aquolls	Very limited	Histosols, undrained (51%)	Ponding (1.00)	0.7	0.3%
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Low strength (1.00)		
			Aquolls, undrained (49%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
Hm	Houghton muck, undrained, 0 to 1 percent slopes	Very limited	Houghton, undrained (90%)	Ponding (1.00)	11.3	4.6%
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
				Subsidence (1.00)		
			Granby, undrained (7%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (0.50)		
			Walkill, undrained (1%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Low strength (0.14)		
			Edwards, undrained (1%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Frost action (1.00)		
				Low strength (1.00)		
			Adrian, undrained (1%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
Ho	Houghton muck, drained, 0 to 1 percent slopes	Very limited	Houghton, drained (90%)	Ponding (1.00)	4.4	1.8%
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
				Subsidence (1.00)		
			Adrian, drained (3%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
			Edwards, drained (3%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
			Palms, drained (2%)	Ponding (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Depth to saturated zone (1.00)		
				Subsidence (1.00)		
				Frost action (1.00)		
				Low strength (1.00)		
			Maumee, drained (2%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (0.50)		
MuuA	Morocco loamy sand, lake plain, 0 to 2 percent slopes	Very limited	Morocco, lake plain (90%)	Depth to saturated zone (1.00)	20.6	8.3%
			Granby, lake plain (5%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (0.50)		
			Newton (1%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		
				Frost action (0.50)		
OaC	Oakville fine sand, 4 to 12 percent slopes	Not limited	Oakville (90%)		2.2	0.9%
SeA	Selfridge loamy fine sand, 0 to 2 percent slopes	Very limited	Selfridge (75%)	Frost action (1.00)	35.6	14.4%
				Depth to saturated zone (1.00)		
			Aubbeenaubbee (15%)	Frost action (1.00)		
				Depth to saturated zone (0.94)		
			Brookston (5%)	Ponding (1.00)		
				Depth to saturated zone (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Frost action (1.00)		
				Low strength (0.68)		
				Shrink-swell (0.50)		
			Crosier (5%)	Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Low strength (0.05)		
				Shrink-swell (0.04)		
SeB	Selfridge loamy fine sand, 2 to 6 percent slopes	Very limited	Selfridge (100%)	Frost action (1.00)	16.8	6.8%
				Depth to saturated zone (1.00)		
TcC2	Tracy sandy loam, 6 to 12 percent slopes, moderately eroded	Somewhat limited	Tracy, eroded (85%)	Frost action (0.50)	6.1	2.5%
			Oshtemo (8%)	Frost action (0.50)		
			Kalamazoo (4%)	Frost action (0.50)		
TyA	Tyner loamy sand, 0 to 2 percent slopes	Not limited	Tyner (85%)		0.1	0.0%
			Bristol (5%)			
			Osolo (5%)			
			Coloma (5%)			
W	Water	Not rated	Water (100%)		3.3	1.3%
Wh	Washtenaw silt loam	Very limited	Washtenaw (100%)	Ponding (1.00)	1.4	0.6%
				Depth to saturated zone (1.00)		
				Frost action (1.00)		
				Shrink-swell (0.50)		
				Low strength (0.44)		
Totals for Area of Interest					247.8	100.0%

Rating	Acres in AOI	Percent of AOI
Very limited	138.5	55.9%
Somewhat limited	71.4	28.8%
Not limited	34.6	14.0%
Null or Not Rated	3.3	1.3%
Totals for Area of Interest	247.8	100.0%

Description

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher