

Baker Soil Services, Inc.
3152 N 100 W
Decatur, IN. 46733
260-701-2143

This report of an onsite soil investigation was requested by: Green Family Farm

Location: Duglay Rd, between McDuffee & Madden Rds, Tract 5

Sec. 7, Eel River Township, Allen County, Indiana

Type of site: New Home

Soil Scientist: *Joseph W Baker*
IRSS # 44

Date: February 10, 2025

This report describes soil conditions observed during an onsite soil investigation conducted on the above date. This report is intended to provide information to the landowner and local health department to be used to determine the suitability of the soil for the installation of an onsite sewage system.

Baker Soil Services and the soil scientist named in this report do not make any assurances, promises, or guarantees regarding the suitability of the soil for installation of an onsite sewage system. The information contained in this report, including any attachments hereto or enclosures herewith, DOES NOT approve or deny a site, provide system specifications, assure that a system can be designed for this site, or imply that any particular system or type of system will function on this site.

In addition to the information contained in this soil report, other factors are considered for use of a site for an onsite septic system, including but not limited to:

- Drainage
- Topography
- Location with respect to construction traffic
- Compaction, stripping, or other site disturbances

The local health department provides system specifications for residential onsite sewage systems. This report will be released to the local health department upon receipt of payment for the preparation of the report.

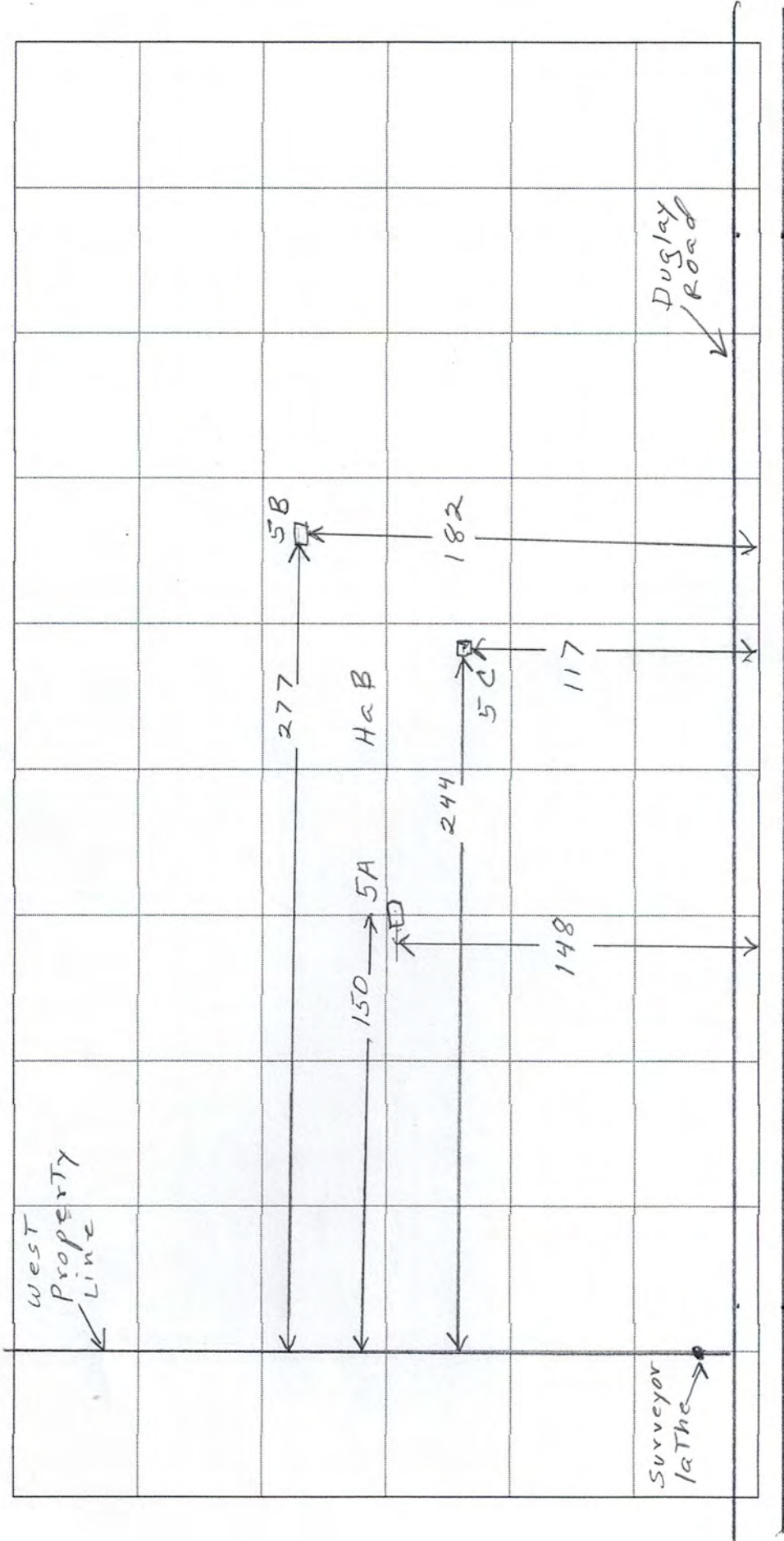
Attached: Map sheet, General site information sheet, Additional soil description sheet, Texture analysis sheets (2), iMap photo sheet, Web soil survey sheets (3)

This is a preliminary report. Atterberg Limits results are pending. A final report will be issued upon receipt of the Atterberg Limits results.

Green Family Farm
Tract 5

Baker Soil Services, Inc.

HaB - Haskins loam,
2% slope



GENERAL SITE INFORMATION

Soil symbol	HaB	Landscape position	Upland	Limiting layer:	
Land use	Crop	% slope	2.0 %	Bedrock	
Vegetation	Corn stalks	Kind of slope	Back slope	Fragipan	
Date	2-10-2025	Shape of slope	Convex / Linear	Poor filter	
County	Allen	Direction of slope	South / Southeast	Compact till	24
Map sheet	1	On Moraine?	Yes	Moraine characteristics	
Legal description	Sec. 7		Salamonie Moraine	Dense clay	
	T 32N R 11E	Site #	Soil pit 5A	Compaction	

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Wetness characteristics:
 Depth to seasonal high
 water table (inches) 12
 Does it pond water? No
 Does it flood? No

Client: Green Family Farm
 Tract 5

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-4	Frozen										
4-12	Ap	Loam 22% C	10YR3/3			1	Tk	Platy	Firm		Glacial Drift
12-18	Bt1	CL 31% C	10YR5/3	10YR5/2	10YR4/1	2	M	Sbk	Firm		Glacial Drift
18-24	B2	Loam	10YR4/4	10YR5/2		1	M	Sbk	Firm		Glacial Drift
24-48	2Cd	CL	10YR4/2		10YR6/1	0		Massive	V.Firm	VE	Till

USDA/SCS soil type this soil most closely represents:
 Haskins loam, 2% slope

USDA/SCS Rating for Absorption Fields: Severe
 Due to: Seasonal wetness
 Moderately slow permeability
 Shallow to limiting layer

Plates in the Ap horizon of Soil pit 5A are 0.5 inch thick.

Soil in the area investigated is mapped as Blount soil in the Allen County Soil Survey Manual. The soil is mapped as Haskins soil during this soil investigation due to the loamy nature of the soil (glacial drift) above the parent material.

Soil pit 5B

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-6	Frozen										
6-12	Ap	Loam	10YR3/3			1	Tk	Platy	Firm		Glacial Drift
12-23	2Bt1	Clay 40% C	10YR5/4	10YR5/2	10YR5/2	1	M	Sbk	Firm		Till
23-40	2Cd	CL	10YR4/2		10YR6/1	0		Massive	V.Firm	VE	Till

Plates in the Ap horizon of Soil pit 5B are 0.5 inch thick.

Additional lab testing was run on the 2Bt1 horizon of Soil pit 5B

Cation Exchange Capacity (Sum of Bases): 14.7 meq/100g Cation Exchange Capacity (NH₄ Saturation): 15.76 meq/100g

Atterberg Limits: *Pending*

Pam Thomas ESI-3 Swelling Potential: *Pending*

Muntohar Swelling Potential: *Pending*

Soil pit 5C

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-6	Frozen										
6-12	Ap	Loam	10YR3/3			1	Tk	Platy	Firm		Glacial Drift
12-22	2Bt1	Clay 40% C	10YR5/4	10YR5/2	10YR5/2	1	M	Sbk	Firm		Till
22-27	2BC	CL	10YR5/4	10YR5/2	10YR6/1	< 1	C	Abk	Firm	VE	Till
27-48	2Cd	CL	10YR4/2		10YR6/1	0		Masive	V.Firm	VE	Till

Plates in the Ap horizon of Soil pit 5C are 0.5 inch thick

Grade was shot for this onsite soil investigation by Joseph W Baker with a Bosch laser on 2-7-2025.

The grade line associated with Soil pits 5A & 5B is convex. The grade line associated with Soil pit 5C is linear

People present during this onsite soil investigation were: Steve Coil, Schrader Real Estate and Auction Company

Eric Ott, Schrader Real Estate and Auction Company (excavator)

Mark Herber, Allen County Dept of Health

Joseph W Baker, Baker Soil Services

Report Number
F25042-0099
Account Number
04517



3505 Conestoga Dr.
Fort Wayne, IN 46808
260.483.4759
algreatlakes.com

To: BAKER SOIL SERVICES
3152 N 100 W
DECATUR, IN 46733-8384

For: GREEN FAMILY FARM

Farm: TRACT 5
Field: DUGLAY RD

Date Received: 2/11/2025

Date Reported: 2/14/2025

Page: 1 of 1

Attn: JOSEPH BAKER

SOIL TEST REPORT

Sample ID	Lab Number	Organic Matter %	Phosphorus		Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Soil pH	Buffer pH	CEC meq/100g	Percent Cation Saturation				
			Bray-1 Equiv ppm-P	Bray P2 ppm-P								% K	% Mg	% Ca	% H	% Na
G5A1	6945	1.8	1 VL		69 L	385 H	1550 L		6.0	6.7	14.7	1.2	21.8	52.6	24.4	
G5A2	6946															
G5B	6947															
G5C	6948															

VL = Very Low L = Low M = Medium H = High VH = Very High

Sample ID	Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts (1:2) mmhos/cm	Nitrate NO ₃ -N ppm	Ammonium NH ₄ -N ppm	Bicarb-P P ppm				Comments

Report reviewed and approved by our professional agronomy staff.

A&L-R

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For: GREEN FAMILY FARM

TRACT 5
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DUGLAY RD

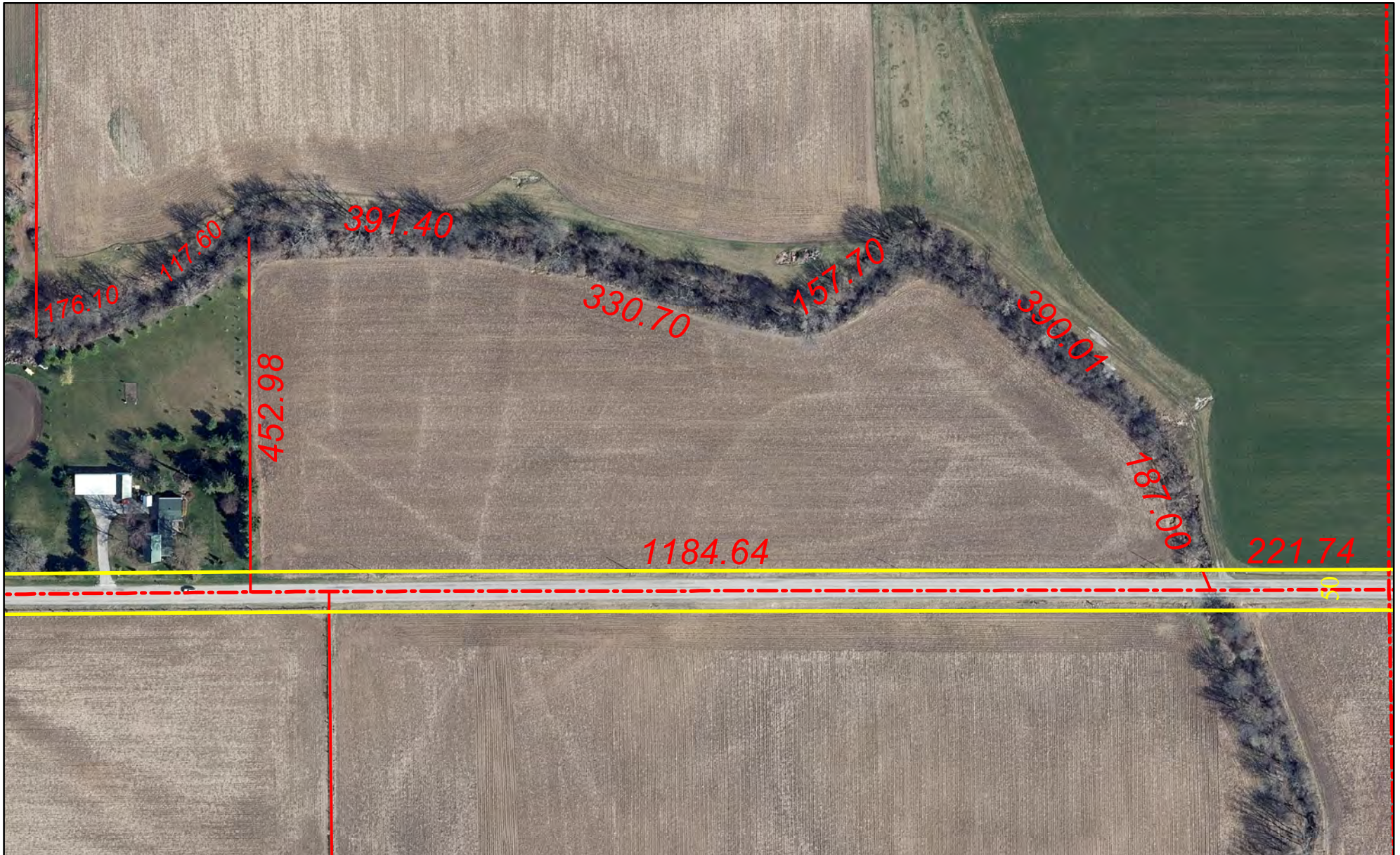
Date Received: 02/11/2025

Date Reported: 02/14/2025 Page: 1 of 1

Attn: JOSEPH BAKER

REPORT OF ANALYSIS

Lab Number	Sample ID	Analysis	Result	Unit	Method
6945	G5A1 Soil pit A 4-11"	Sand	37	%	ISDH Particle Size Analysis
		Silt	41	%	ISDH Particle Size Analysis
		Clay	22	%	ISDH Particle Size Analysis
6946	G5A2 Soil pit A 13-17"	Sand	37	%	ISDH Particle Size Analysis
		Silt	32	%	ISDH Particle Size Analysis
		Clay	31	%	ISDH Particle Size Analysis
6947	G5B Soil pit B 15-20"	Cation Exchange Capacity (NH4-Sat.)	15.76	meq/100g	MSA Part 3 (1996) pp 1220-1221
		Sand	27	%	ISDH Particle Size Analysis
		Silt	33	%	ISDH Particle Size Analysis
		Clay	40	%	ISDH Particle Size Analysis
6948	G5C Soil pit C 15-20"	Sand	29	%	ISDH Particle Size Analysis
		Silt	31	%	ISDH Particle Size Analysis
		Clay	40	%	ISDH Particle Size Analysis



Although strict accuracy standards have been employed in the compilation of this map, Allen County does not warrant or guarantee the accuracy of the information contained herein and disclaims any and all liability resulting from any error or omission in this map.

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North American Datum 1983
State Plane Coordinate System, Indiana East



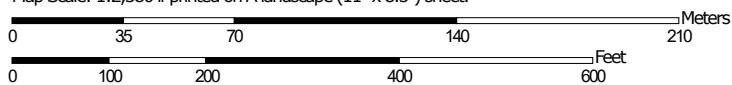
Date: 2/17/2025 1" = 167'

Soil Map—Allen County, Indiana
(Duglay Rd)



Soil Map may not be valid at this scale.

Map Scale: 1:2,380 if printed on A landscape (11" x 8.5") sheet.




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



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

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: Allen County, Indiana

Survey Area Data: Version 24, Aug 28, 2024

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

Date(s) aerial images were photographed: Jun 18, 2022—Jun 21, 2022

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BmA	Blount loam, interlobate moraines, 0 to 2 percent slopes	3.4	14.6%
BmB2	Blount loam, interlobate moraines, 1 to 4 percent slopes, eroded	0.1	0.3%
Es	Eel silt loam, 0 to 2 percent slopes, frequently flooded	6.4	28.0%
MrB2	Glynwood silt loam, 2 to 6 percent slopes, eroded	4.8	21.0%
MrC2	Morley silt loam, 6 to 12 percent slopes, eroded	7.2	31.3%
Pe	Pewamo silty clay loam, 0 to 1 percent slopes	1.1	4.9%
Totals for Area of Interest		23.0	100.0%