

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: SR 205, Tract 4
Sec. 7, Eel River Township, Allen County, Indiana

Type of site: New home

Soil Scientist: *Joseph W Baker*
IRSS # 44

Date: Feb 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 sheets (2), Web soil survey sheets (3)

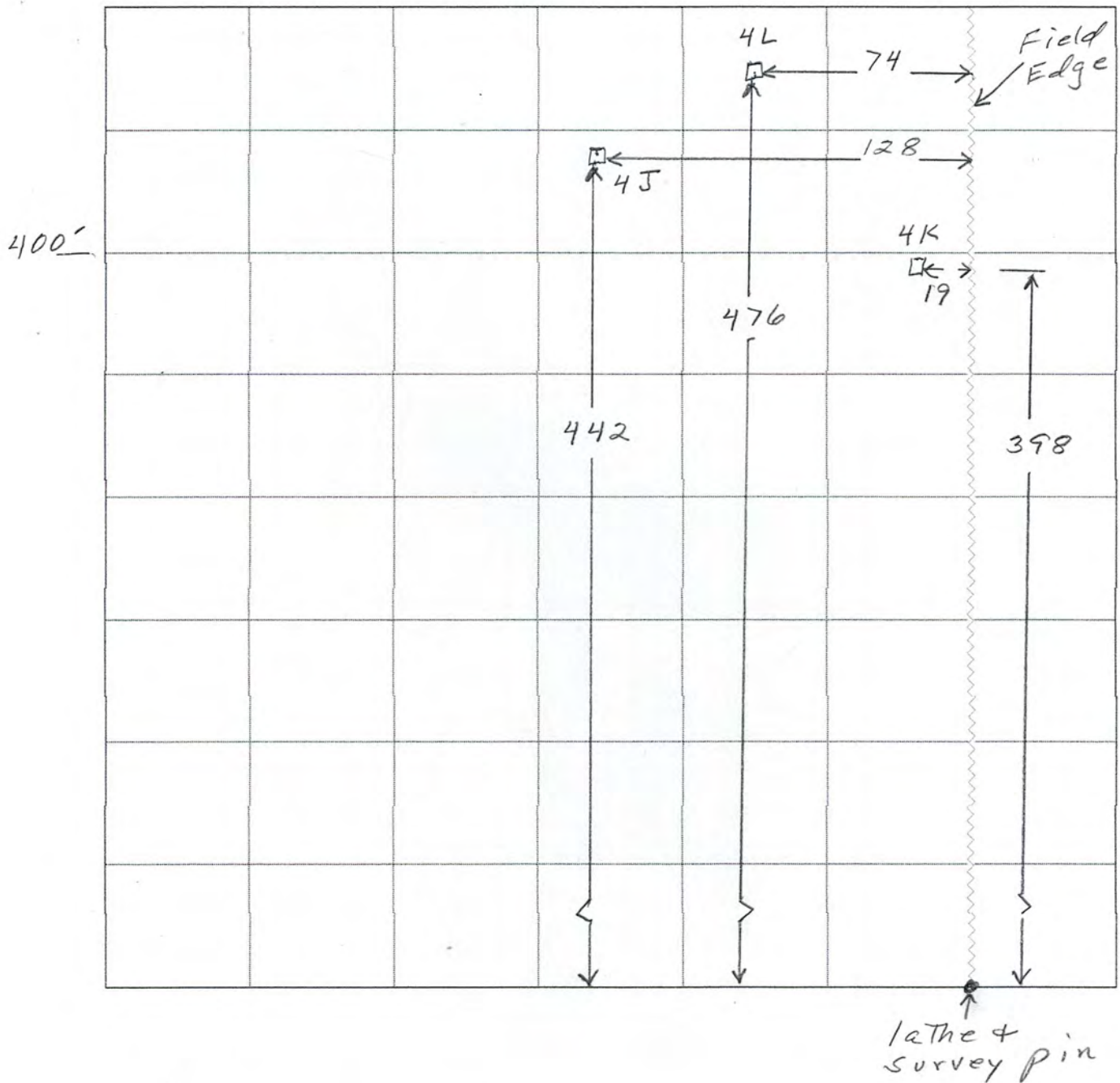
This is a preliminary report. Atterberg Limits results are pending. A final report will be issued upon receipt of the Atterberg Limits results.

Baker Soil Services, Inc.

Green Family Farm
Tract 4

BmB - Blount silt loam,
4% slope

North



GENERAL SITE INFORMATION

Soil symbol	BmB	Landscape position	Upland	Limiting layer:	
Land use	Crop	% slope	4 %	Bedrock	
Vegetation	Corn stalks	Kind of slope	Back slope	BC Horizon (VE)	22
Date	2-10-2025	Shape of slope	Linear	Poor filter	
County	Allen	Direction of slope	North / Northeast	Compact till	
Map sheet	1	On Moraine?	Yes	Moraine characteristics	
Legal description	Sec. 7		Salamonie Moraine	Dense clay	
	T 32N R 11E	Site #	Soil pit 4J	Compaction	

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Wetness characteristics:
 Depth to seasonal high
 water table (inches) 8
 Does it pond water? No
 Does it flood? No

Client: Green Family Farm
 Tract 4

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-6	Frozen										
6-8	Ap	SiL	10YR4/2			1	Tn	Platy	Fri		Loess
8-22	2Bt1	Clay 40% C	10YR5/4	10YR5/2	10YR5/2	1	M	Sbk	Firm		Till
22-26	2BC	CL	10YR5/4	10YR5/2	10YR6/1	1	C	Abk	Firm	VE	Till
26-38	2Cd	CL	10YR4/2		10YR6/1	0		Masive	V.Firm	VE	Till

USDA/SCS soil type this soil most closely represents:
 Blount silt loam, 4% slope

USDA/SCS Rating for Absorption Fields: Severe
 Due to: Seasonal wetness
 Slow perk
 Shallow to limiting layer

Plates in the Ap horizon of Soil pit 4J are 0.375 – 0.5 inch thick. Note that the plates are friable
 Additional lab data regarding Soil pit 4J is on the following page.

The soil in the area investigated is mapped as Morley soil in the NRCS soil survey manual. Morley soil is a well drained soil with glacial till parent material. The seasonal water table was observed at 8-10 inches, making this soil somewhat poorly drained. Due to the drainage class, the soil was mapped as Blount soil during this onsite soil investigation.

Additional lab testing was run on the 2Bt1 horizon of Soil pit 4J

Cation Exchange Capacity (Sum of Bases): 12.8 meq/100g Cation Exchange Capacity (NH₄ Saturation): 13.24 meq/100g

Atterberg Limits: *Pending*

Pam Thomas ESI-3 Swelling Potential: *Pending*

Muntohar Swelling Potential: *Pending*

Soil pit 4K

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-6	Frozen										
6-10	Ap	SiL	10YR4/3			1	Tk	Platy	Firm		Loess
10-24	2Bt1	CL 30% C	10YR5/4	10YR5/2	10YR5/2	1.5	M	Sbk	Firm		Glacial Drift
24-29	3BC	CL	10YR5/4	10YR5/2	10YR6/1	1	C	Abk	Firm	VE	Till
29-40	3Cd	CL	10YR4/2		10YR6/1	0		Masive	V.Firm	VE	Till

Plates in the Ap horizon of Soil pit 4K are 0.75 – 1.0 inch thick.

Soil pit 4L

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-10	Frozen										
10-28	2Bt1	CL 31% C	10YR5/4	10YR5/2	10YR5/2	1	M	Sbk	Firm		Glacial Drift
28-34	3BC	CL	10YR5/4	10YR5/2	10YR6/1	1	C	Abk	Firm	VE	Till
34-40	3Cd	CL	10YR4/2		10YR6/1	0		Masive	V.Firm	VE	Till

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

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
F25042-0096
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 4
Field: SR 205

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
G4J	6932	1.5	1 VL		72 L	460 VH	1750 M		7.4		12.8	1.4	30.0	68.5		
G4K	6933															
G4L	6934															

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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DECATUR, IN 46733-8384

For: GREEN FAMILY FARM

TRACT 4
TRACT 4
SR 205

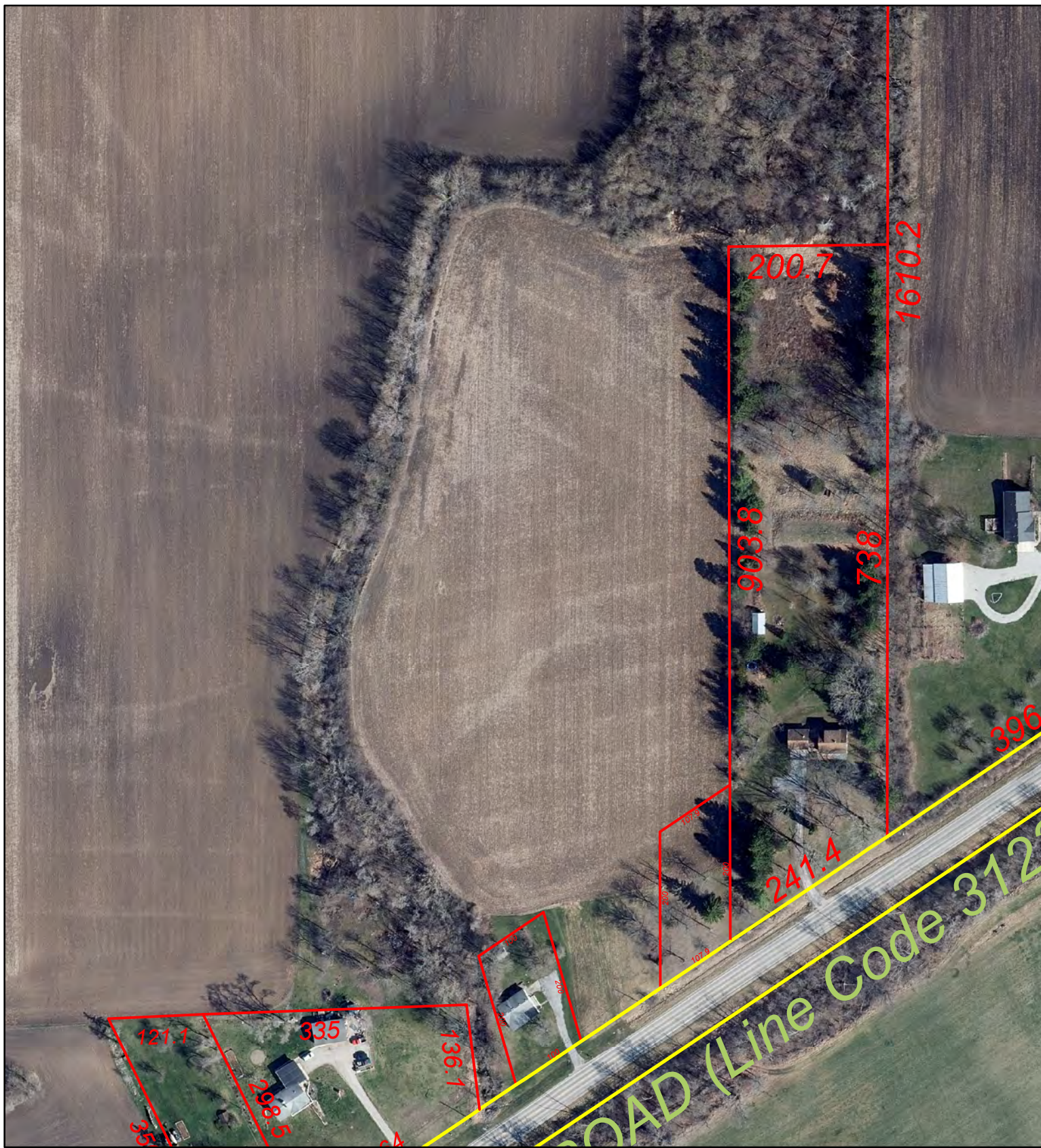
Date Received: 02/11/2025

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

Attn: JOSEPH BAKER

REPORT OF ANALYSIS

Lab Number	Sample ID	Analysis	Result	Unit	Method
6932	G4J Soil pit J 15-20"	Cation Exchange Capacity (NH4-Sat.)	13.24	meq/100g	MSA Part 3 (1996) pp 1220-1221
		Sand	26	%	ISDH Particle Size Analysis
		Silt	34	%	ISDH Particle Size Analysis
		Clay	40	%	ISDH Particle Size Analysis
6933	G4K Soil pit K 15-20"	Sand	39	%	ISDH Particle Size Analysis
		Silt	31	%	ISDH Particle Size Analysis
		Clay	30	%	ISDH Particle Size Analysis
6934	G4L Soil pit L 15-20"	Sand	43	%	ISDH Particle Size Analysis
		Silt	26	%	ISDH Particle Size Analysis
		Clay	31	%	ISDH Particle Size Analysis



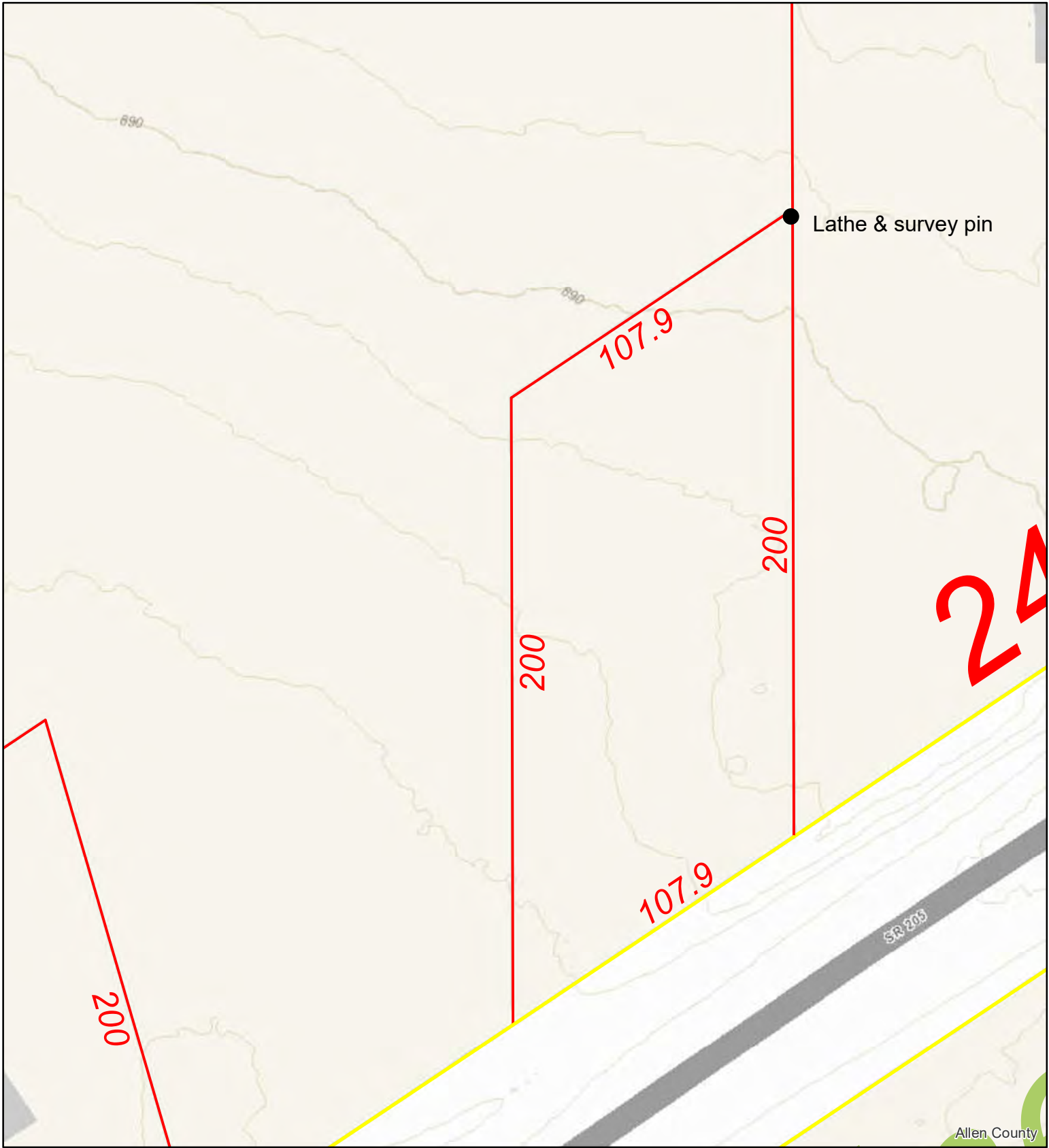
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North American Datum 1983
State Plane Coordinate System, Indiana East



Date: 2/17/2025

1" = 167'



Allen County

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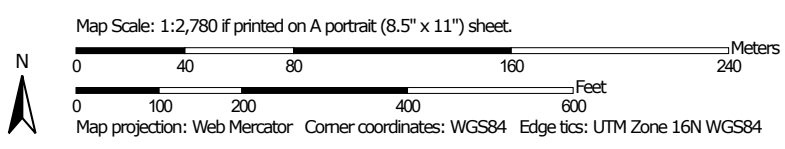
Date: 2/17/2025

1" = 42'

Soil Map—Allen County, Indiana
(Green Farm, SR 205)




Soil Map may not be valid at this scale.



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	2.9	9.8%
BmB2	Blount loam, interlobate moraines, 1 to 4 percent slopes, eroded	0.3	1.1%
MrB2	Glynwood silt loam, 2 to 6 percent slopes, eroded	7.2	24.2%
MrC2	Morley silt loam, 6 to 12 percent slopes, eroded	3.7	12.3%
MsD3	Morley silty clay loam, 12 to 18 percent slopes, severely eroded	0.2	0.7%
Pe	Pewamo silty clay loam, 0 to 1 percent slopes	15.6	51.9%
Totals for Area of Interest		30.0	100.0%