L.I. Smith and Associates, Inc.
LAND DEVELOPMENT | INFRASTRUCTURE DESIGN
SURVEYING SERVICES
302 North Caldwell Street, Paris, TN 38242 | 731-644-1014 | www.lismith.com
475 Metroplex Drive, Suite 212 Nashville, TN 37211 | 615-256-0290

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

4-L Broiler Farms LLC-West

Herd Law Road
Trenton, Gibson County, Tennessee
38382

August 31, 2020

PROJECT CONTACTS

Owner/Developer: 4-L Broiler Farms LLC
28 Concord Lane
Trenton, TN 38382

Contact: Chris Agapiou
903-394-0489

Engineer: L. I. Smith & Associates, Inc.
302 North Caldwell Street
Paris, TN 38242

Contact: Nathan Grasfeder
731-644-1014

Contractor: 4-L Broiler Farms LLC
28 Concord Lane
Trenton, TN 38382

Contact: Chris Agapiou
903-394-0489

Individual Responsible for Installation, Maintenance and Inspections of Erosion Prevention and Sediment Control Measures:

Contractor: 4-L Broiler Farms LLC
28 Concord Lane
Trenton, TN 38382

Contact: Chris Agapiou
903-394-0489

TDEC: Environmental Assistance Center
1625 Hollywood Drive
Jackson, Tennessee 38305
Ph: 731-512-1300
Fax: 731-661-6283

OWNER'S CERTIFICATION

I certify under penalty of law that this document and all attachment were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

4-L Broiler Farms LLC
Company Name of Owner/Developer

_____

Representative of Owner/Developer **Date**

CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NIO, if approved, makes the above-described, construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

4-L Broiler Farms LLC
Company Name of Contractor

_____

Representative of Contractor **Date**

OWNER'S CERTIFICATION

I certify under penalty of law that this document and all attachment were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

4-L Broiler Farms LLC
Company Name of Owner/Developer

12-17-20 12/17/2020
Representative of Owner/Developer **Date**

CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NIO, if approved, makes the above-described, construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

4-L Broiler Farms LLC
Company Name of Contractor

12-17-20 12/17/2020
Representative of Contractor **Date**

GENERAL NOTES TO OWNER, ENGINEER AND ALL CONTRACTORS

Tennessee General Permit No. TNR 1000000, Stormwater Discharges from Construction Activities, authorizes stormwater discharges from construction sites that result in the disturbance of more than 1 acre, or that are a part of a larger common part of development or sale.

Tennessee General Permit No. TNR 1000000, Stormwater Discharges from Construction Activities, requires that a discharge must:

1. Develop a Stormwater Pollution Prevention Plan (**SWPPP**), commonly called SWP3 or Swip, which covers the entire site or all portions of the site for which the discharger is an operator.
2. Submit a Notice of Intent (**NOI**) in accordance with the requirements of Part II of the General Permit.
3. Implement the SWPPP upon commencement of construction activity.

The original NOI form for this project has been included in Appendix A of this SWPPP.

Stormwater discharges from a construction activity are covered by the General Permit, and the **operator is authorized to discharge** stormwater associated with construction activity, **as of the effective date and time** the Division of Water Pollution Control prepares a Notice of Coverage (**NOC**) for this construction site.

Owners/Operators wishing to terminate coverage under the General Permit must submit a Notice of Termination (**NOT**), included in Appendix B of this SWPPP, in accordance with Part VIII of the General Permit. Contractors shall submit a NOT **only** upon stabilization of the site and completion of the construction activities.

This SWPPP, as is the case with all SWPPPs, is a work in progress. It shall be the responsibility of **ALL** parties involved in the construction activities on this site to **notify the Engineer of necessary revisions and/or modifications to this SWPPP**. This SWPPP must reflect all current BMPs in place and stormwater pollution prevention plans being implemented on this site.

The General Contractor shall retain this SWPPP on-site, and shall post a notice near the main entrance to the construction site with the following information:

1. A copy of the Notice of Coverage (NOC) with the NPDES permit number for the project;
2. The name and telephone number of the contact person;
3. A brief description of the project;
4. Location of the SWPPP if the site is inactive or does not have an on-site location to store the plan.

SWPPP

DESCRIPTION OF PROJECT

4-L Broiler Farms LLC proposes to build 8 Tyson broiler houses on approximately 26 acres of the 228-acre tract near Trenton, TN.

This tract of land is located at the end of Concord Lane and the west side of Herd Law Road in Gibson County, Tennessee. This site is a fallow field with minimal clearing needed. The north portion of the site will be filled up to grade and the south portion will be cut. Access will come from Concord Lane. The site has 5 outfalls that drain to tributaries to Rutherford Fork Obion River, which is fully supporting.

The proposed development will include average excavation depths of approximately 8 feet for the overall grading as well as filling the low areas of the site. The footprint of the building pad's outer perimeters will be cut out at no more than a 3 to 1 slope. The pad's area floors will be graded flat with a drainage ditch cut at 0.5% grade between them. The goal is to make the area as flat as possible and still maintain positive drainage. The proposed site will be stripped of topsoil. Once the site excavation is complete the entire site will be dressed with four inches of topsoil and stabilized with straw and mulch in compliance with TDEC standards.

COUNTY SOIL SURVEY

County soil surveys indicate that the general soil types for this site are Providence Silt Loam 2 to 8 percent slopes.

The Providence Series consists of moderately well drained soils with a fragipan. Permeability is moderately slow. These soils formed in a mantle of silty materials, about 2 feet thick, and the underlying sandy and loamy sediments. They are nearly level to moderately steep soils in uplands on streams and terraces of the southern coastal plains and Southern Mississippi Valley Loess Major Land Resource Areas. This soil has a RUSLE erodibility factor (K) of 0.55.

No sinkholes or injection wells were evident during investigation of the site.

Based on soil information provided above we anticipate the need for standard erosion and sediment control devices; such as silt fence or wattles, inlet and outlet protection, and a construction exit. Drainage quality is expected to be within acceptable limits.

OUTFALL TABLE

OUTFALL #	LATITUDE (N)	LONGITUDE (W)	APPROX. ELEV. (FEET)	PRE AREA (ACRES)	POST AREA (ACRES)	RECIEVING WATERS
OUTFALL 1	35.995689	88.829156	386	9.64	7.12	TRIBUTARY TO RUTHERFORD FORK OBION RIVER
OUTFALL 2	35.995959	88.827613	385	2.50	5.67	TRIBUTARY TO RUTHERFORD FORK OBION RIVER
OUTFALL 3	35.995663	88.825811	380	4.63	5.60	TRIBUTARY TO RUTHERFORD FORK OBION RIVER
OUTFALL 4	35.992977	88.825987	387	5.24	3.61	TRIBUTARY TO RUTHERFORD FORK OBION RIVER
OUTFALL 5	35.992163	88.826792	389	8.52	8.52	TRIBUTARY TO RUTHERFORD FORK OBION RIVER

SPILLS AND NON-STORM WATER CONTINGENCIES

All fueling of equipment and vehicles on site shall be conducted within the defined maintenance area. Spillage of fuel and/or oil shall be removed immediately. Contaminated soils shall be placed on heavy plastic and covered or place into approved containers to prevent contact with stormwater. All fuel tanks shall be located in containment areas. Oils and other vehicles fluids, paints, and solvents shall be stored in an enclosed area, and protected from stormwater runoff.

If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established by either 40 CFR117 or 40 CFR302 occurs during a 24-hour period, the contractor will immediately notify the Owner, who shall then notify the following:

National Response Center (NRC) 800-242-8802
Tennessee Emergency Management Agency (TEMA)
Emergencies 800-262-3300
Non-emergencies 800-262-3400
Jackson Environmental Assistance Center 888-891-8332

TRASH/LITTER CONTROL

The construction site must be maintained in a neat and orderly manner, free of litter and construction debris. Paint cans, oil cans, used oil and filters shall be contained and disposed of properly. Litter, debris and chemicals are required to be picked up before known or anticipated rain events.

POTENTIAL SOIL LOSS INFORMATION

The Revised Universal Soil Loss Equation (RULSE) was used to determine potential soil loss for bare soil and straw/hay mulched at a rate of 1 ton per acre. Calculations were made for a slope modeled after that to be found on the site post grading. A soil erosivity factor of 325 was determined and used in these calculations. The models used in the calculations were as follows: A slope of 5% for 200 feet, a slope of 3:1 for 5 feet, and a slope of 15% for 200 feet.

Slopes of 5% for 200 feet

Bare slops have a potential soil loss of 182 tons per acre per year. If those slopes are mulched with hay/straw at a minimum rate of 1 ton per acre the potential soil loss is reduced to 24 tons per acre per year.

Slopes of 3:1 for 5 feet

Bare slopes have a potential soil loss of 134 tons per acre per year. If those slopes are mulched with hay/straw at a minimum rate of 1 ton per acre the potential soil loss is reduced to 17 tons per acre per year.

Slopes of 15.0% for 200 feet

Bare slopes have a potential soil loss of 749 tons per acre per year. If those slopes are mulched with hay/straw at a minimum rate of 1 ton per acre the potential soil loss is reduced to 97 tons per acre per year.

There is approximately 26+/- acres proposed to be disturbed on the site with approximately 2000 linear feet of standard silt fence proposed along with several standard check dams and enhanced rock check dams from the TDEC Erosion & Sediment Control handbook. All silt fence and check dams on site are certified to handle a 2 year 24 hour storm event for Gibson County, TN.

Once the permanent grass seeding is established and slopes are stabilized, the soil loss is reduced to negligible amounts.

Any construction support activities on site are included in this permit and must be controlled as described in the TDEC Erosion & Sediment Control Handbook.

STORM WATER RUNOFF COEFFICIENTS

The runoff coefficients used to calculate stormwater flows are as follows:

Existing Conditions	Proposed Conditions
	Cultivated Field, CN=90
Fallow CN=86	Buildings CN=98
	50-75% Grass cover, CN=65

STREAMS, RIVERS & WETLANDS

There are 5 drainage areas on this project.

Drainage areas 1-5 ultimately drain north to tributaries to Rutherford Fork Obion River.

No wetlands have been delineated on this site.

Access will come from site to the east which has applied for a general ARAP for two stream crossings along the access road.

OPERATION/CONSTRUCTION PHASING

The Erosion Prevention and Sediment Control measures that have been designed for this site are shown on the Grading & E.P.S.C. Plan; a copy of which is attached in Appendix A. All BMPs shall be installed in accordance with the Tennessee Erosion and Sediment Control Handbook. All E.P.S.C. measures are certified to handle a 2 year 24 hour storm event in Gibson County, Tennessee. Additional measures or modification to the measures indicated may become necessary during the course of construction. The contractor shall notify the engineer immediately upon knowing of a discharge of sediment from the site, or failure of an erosion prevention and sediment control device.

The Contractor/Developer will supply a rain gauge to be erected at the main construction entrance, in a location that will not be disturbed for the duration of the project. The inspector named in front of this document shall keep daily logs of rain measures.

Pre-construction vegetative ground shall not be destroyed, removed, or disturbed more than 10 days prior to grading or earth moving unless the area is seeded, and/or mulched or other temporary cover in installed.

Clearing and grubbing must be held to the minimum necessary for grading and equipment operation.

OPERATION/CONSTRUCTION SEQUENCE:

1. Install silt fence along the downhill exterior perimeter of the site, establish enhanced rock check at outfalls. Build construction entrance/exit onto Herd Law Road as shown on the E.P.S.C. Plan. Construct Concrete washout pit on site.
2. All silt fence and check dams must be installed before any dirt work commences.
3. Once ALL E.P.S.C. measures have been installed, begin earthwork operations; stripping and stockpiling topsoil for future use.
4. Any disturbed area that goes 14 days without activity will be temporarily stabilized with seed and straw.
5. Once site grading becomes complete immediately stabilize all disturbed areas.
6. Stabilize areas to be improved, IE: building pad and parking lots, with structures, gravel concrete and asphalt.
7. All slopes are anticipated to be flatter than a 3:1. Any slope steeper than a 3:1 will be stabilized with A-1 rip rap.
8. Stabilize unimproved areas with perennial grasses or another approved method from the Tennessee Erosion and Sediment Control Handbook.
9. E.P.S.C. measures are to be left in place until all other earthwork operations are complete. Once the site is completely stabilized remove the installed E.P.S.C. measures.

It will be most imperative that erosion prevention and sediment control devices are maintained in excellent condition and replaced or repaired, as necessary.

Maintenance needs identified in inspections or by other means shall be accomplished before the next storm event, but in no case more than 7 days after the need is identified.

If sediment escapes the permitted area, offsite accumulations of sediment that have not reached a stream must be removed at a frequency sufficient to minimize offsite impacts.

Any necessary revisions to this plan shall be discussed immediately with the engineer. Sediment accumulation from offsite is not anticipated for this project. However, should sediment transport form offsite areas become evident, the contractor shall notify the engineer immediately for direction.

Any offsite borrow or spoil areas will require additional NPDES permitting through TDEC. No disturbance shall be allowed outside the defined limits of disturbance of this permit.

Any stabilized areas of the site that may be later disturbed must be seeded and mulched upon termination of operations in that area.

MAINTENANCE OF BMPs

Sediment should be removed from sediment traps, silt fences, and other sediment controls as necessary, and must be removed when design capacity has been reduced by 50%.

Sediment removed from BMPs shall be placed and spread within landscape areas of the site (i.e. not within areas of the buildings, parking lots, or septic disposal areas). Silt fence shall be placed around this sediment until final stabilization has occurred.

Muddy water shall be controlled on the site. Muddy water shall be directed towards sediment controls on site. The use of a filter bag may be necessary in areas where other storm water controls are not available, especially in situations where pumping is required.

INSPECTION OF BMPs

Inspections (by a qualified inspector as named in the front of this document) of all erosion prevention and sediment control devices shall be made **twice per week, at least 72 hours apart**, and reported on an Inspection Report. All defects shall be noted, as well as corrective measures taken.

In the event that sediment escapes from an erosion prevention and sediment control device, the inspector shall notify the engineer within 24 hours of the current inspection period. The contractor/owner shall make every effort to remedy the failing device(s) and return the area to its original conditions, as much as possible. The contractor/owner are cautioned that they are not permitted to enter into, or modify, any streams or other "waters of the State."

TEMPORARY & PERMANENT STABILIZATION

Any stabilized areas of the site that may be later disturbed must be seeded and mulched upon termination of operations in that area.
Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site (or a phase of the project) must be completed not later than 15 days after the construction activity in that portion of the site has temporarily or permanently ceased. In the following situations, temporary stabilizations measures are not required.

a) where the initiation of stabilization measures is precluded by snow cover or frozen ground conditions or adverse soggy ground conditions, stabilization measures shall be initiated as soon as practicable; or
b) where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 15 days.

Permanent stabilization with perennial vegetation (using native herbaceous and woody plants where practicable) or other permanently stable, non-eroding surface shall replace any temporary measures as soon as practicable. Unpacked gravel containing fine (silt and clay sized particles) or crusher runs will not be considered a non-eroding surface.

TEMORARY COVER SEEDING MIXTURES

Recommended Seeding Rates Region 1 (West TN)			
Soil Condition	Best Results	Marginal Results	Preferred Rate/Mix (lbs/ac Pure Living Seed)
Poorly Drained Soils	Feb 1 - Mar 20 Sept 1 - Sept 30	Mar 20 - Apr 30 Sept 30 - Oct 31	25 Wheat Grass (nurse crop) 15 Browntop Millet* 2 Switch Grass 4 Little Blue Stream 4 Virginia Wild Rye 4 Purpletop 2 Patridge Pea 2 Black-eye Susan
Well Drained Soils	Apr 1 - July 15		25 Wheat Grass (nurse crop) 15 Browntop Millet* 4 Little Blue Stream 4 Virginia Wild Rye 4 Purpletop 2 Patridge Pea 2 Black-eye Susan
High Maintenance (Slopes)	Apr 1 - July 15 Sept 1 - Sept 30	Sept 30 - Oct 31	25 Wheat Grass (nurse crop) 15 Browntop Millet* 2 Patridge Pea 45 Red Fescue* 45 Hard Fescue*
* *Non-Native but do not spread.*			

PERMANENT COVER SEEDING MIXTURES

Seeding Dates	Grass Seed	Percentages
February 1 to July 1	Kentucky 31 Fescue	80%
	Korean Lespedeza	15%
	English Rye	5%
June 1 to August 15	Kentucky 31 Fescue	55%
	English Rye	20%
	Korean Lespedeza	15%
	German Millet	10%
April 15 to August 15	Bermuda Grass (hulled)	70%
	Annual Lespedeza	30%
August 1 to December 1	Kentucky 31 Fescue	70%
	English Rye	20%
	White Clover	10%
February 1 to December 1	Kentucky 31 Fescue	70%
	Crown Vetch	25%
	English Rye	5%

**Source: Tennessee Department of Environment and Conservation- Erosion and Sediment Control Handbook, Second Edition, March 2002.*

Rye grass shall not be used in any seeding mixtures containing permanent, perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.

APPENDIX A

Erosion Prevention & Sediment Control Plans

APPENDIX B

RUSLE Calculations

RUSLE

Project Name: 4-L Broiler Farms LLC-West
Site Address: Concord Lane
City, County, State: Trenton, Gibson, TN
Job Number: 190258-42
Date: 8/18/2020

Rainfall-Runoff Erosivity, R = 325

Slope 1 **200' Slope @ 5%** **Average Yearly Soil Loss, A**	Scenario 1a - Pre Construction	Scenario 1b - No cover practice	Scenario 1c - Hay/Straw Mulch applied @ 1 ton/acre & punched in
	Scenario 1a - Pre Construction	Scenario 1b - Mid Construction	Scenario 1c - Mid Construction
Rainfall-Runoff Erosivity, R =	325 County (constant)	325 County (constant)	325 County (constant)
Soil Erodibility, K =	0.55 silt loam (constant)	0.55 silt loam (constant)	0.55 silt loam (constant)
Slope Length & Steepness, LS=	1.02 200' Slope @ 5%	1.02 200' Slope @ 5%	1.02 200' Slope @ 5%
Cover-Management, C =	0.01 Stable Slopes	1.00 bare soil	0.13 Hay/Straw Mulch
Erosion Control Practice, P =	1.00 loose irregular surface (constant)	1.00 loose irregular surface (constant)	1.00 loose irregular surface (constant)
A = R x K x L x S x C x P =	2 Tons per Acre per Year	182 Tons per Acre per Year	24 Tons per Acre per Year

Slope 2 **5' Slope @ 3:1** **Average Yearly Soil Loss, A**	Scenario 2a - Pre Construction	Scenario 2b - No cover practice	Scenario 2c - Hay/Straw Mulch applied @ 1 ton/acre & punched in
	Scenario 2a - Pre Construction	Scenario 2b - Mid Construction	Scenario 2c - Mid Construction
Rainfall-Runoff Erosivity, R =	325 County (constant)	325 County (constant)	325 County (constant)
Soil Erodibility, K =	0.55 silt loam (constant)	0.55 silt loam (constant)	0.55 silt loam (constant)
Slope Length & Steepness, LS=	0.75 5' Slope @ 3:1	0.75 5' Slope @ 3:1	0.75 5' Slope @ 3:1
Cover-Management, C =	0.01 Stable Slopes	1.00 bare soil	0.13 Hay/Straw Mulch
Erosion Control Practice, P =	1.00 loose irregular surface (constant)	1.00 loose irregular surface (constant)	1.00 loose irregular surface (constant)
A = R x K x L x S x C x P =	1 Tons per Acre per Year	134 Tons per Acre per Year	17 Tons per Acre per Year

Slope 3 **200' Slope @ 15%** **Average Yearly Soil Loss, A**	Scenario 3a - Pre Construction	Scenario 3b - No cover practice	Scenario 3c - Hay/Straw Mulch applied @ 1 ton/acre & punched in
	Scenario 3a - Pre Construction	Scenario 3b - Mid Construction	Scenario 3c - Mid Construction
Rainfall-Runoff Erosivity, R =	325 County (constant)	325 County (constant)	325 County (constant)
Soil Erodibility, K =	0.55 silt loam (constant)	0.55 silt loam (constant)	0.55 silt loam (constant)
Slope Length & Steepness, LS=	4.19 200' Slope @ 15%	4.19 200' Slope @ 15%	4.19 200' Slope @ 15%
Cover-Management, C =	0.01 Stable Slopes	1.00 bare soil	0.13 Hay/Straw Mulch
Erosion Control Practice, P =	1.00 loose irregular surface (constant)	1.00 loose irregular surface (constant)	1.00 loose irregular surface (constant)
A = R x K x L x S x C x P =	7 Tons per Acre per Year	749 Tons per Acre per Year	97 Tons per Acre per Year

Facility Information

Start Date: 08/18/2020	**Latitude:** 35.9954
End Date: 08/18/2021	**Longitude:** -88.8276

Calculation Results

Rainfall erosivity factor (R Factor) = **325**

A rainfall erosivity factor of 5.0 or greater has been calculated for your site's period of construction.

You do NOT qualify for a waiver from NPDES permitting requirements and must seek Construction General Permit (CGP) coverage. If you are located in an area where EPA is the permitting authority, you must submit a Notice of Intent (NOI) through the NPDES eReporting Tool (NeT).Otherwise, you must seek coverage under your state's CGP.

APPENDIX C

NPDES Permit

This page intentionally left blank.
Affix NPDES Permit from TDEC here.

APPENDIX D

NOI Form

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, TN 37243
Toll Free Number: 1-888-891-TDEC (8332)

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: 4-L Broiler Farms LLC - West			**Existing NPDES Tracking Number: TNR**
Street Address or Location: Herd Law Road Trenton, TN 38382			Start date: 09/20/2020
			Estimated end date: 09/20/2021
Site Activity Description: Construction of Tyson Broiler Houses			Latitude (dd.dddd): 35.994547
			Longitude (-dd.dddd): -88.827631
County(ies): Gibson	MS4 Jurisdiction:		Acres Disturbed: 26
			Total Acres: 228

Does a topographic map show dotted or solid blue lines ■ and/or wetlands ☐ on or adjacent to the construction site?
If wetlands are located on-site and may be impacted, attach wetlands delineation report.
If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number? ARAP permit No.:

Receiving waters: Tributary to Rutherford Fork Obion River

Attach the SWPPP with the NOI: ■ SWPPP Attached | Attach a site location map: ■ Map Attached

Site Owner/Developer Entity (*Primary Permittee*)**:** (person, company, or legal entity that has operational or design control over construction plans and specifications): 4-L Broiler Farms LLC SOS# 001112110

Site Owner/Developer Signatory (V.P. level/higher - signs certification below): (individual responsible for site): Chris Agapiou		Signatory's Title or Position (V.P. level/higher - signs certification below): Owner	
Mailing Address: 28 Concord Lane		City: Trenton	State: TN Zip: 38382
Phone: (903) 394-0489	Fax: ( )	E-mail: jennyagapiou@icloud.com	

Optional Contact: David Corvin		Title or Position:	
Mailing Address: P.O. Box 308		City: Humboldt	State: TN Zip: 38343
Phone: (479) 903-5011	Fax: ( )	E-mail: david.corvin@tyson.com	

Owner or Developer Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Owner or Developer Name (print or type): Chris Agapiou	Signature:	Date:

Contractor(s) Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated.

Contractor company name (print or type): 4-L Broiler Farms LLC SOS# 001112110

Contractor signatory (print/type) (V.P. level or higher): Chris Agapiou		Signature:	Date:
Mailing Address: 28 Concord Lane		City: Trenton	State: TN Zip: 38382
Phone: (903) 394-0489	Fax: ( )	E-mail: jennyagapiou@icloud.com	

Other Contractor company name (print or type):			
Other Contractor signatory (print/type) (V.P. level or higher):		Signature:	Date:
Mailing Address:		City:	State: Zip:
Phone: ( )	Fax: ( )	E-mail:	

OFFICIAL STATE USE ONLY

Received Date:	Reviewer:	Field Office:	Permit Number **TNR:**	Exceptional TN Water:
Fee(s):	T & E Aquatic Flora and Fauna:		Impaired Receiving Stream:	Notice of Coverage Date:

(Continued on reverse)

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, TN 37243
Toll Free Number: 1-888-891-TDEC (8332)

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: 4-L Broiler Farms LLC - West		**Existing NPDES Tracking Number: TNR**	
Street Address or Location: Herd Law Road Trenton, TN 38382		Start date:	09/20/2020
		Estimated end date:	09/20/2021
Site Activity Description: Construction of Tyson Broiler Houses		Latitude (dd.dddd):	35.994547
		Longitude (-dd.dddd):	-88.827631
County(ies): Gibson	MS4 Jurisdiction:	Acres Disturbed:	26
		Total Acres:	228

Does a topographic map show dotted or solid blue lines ☒ and/or wetlands ☐ on or adjacent to the construction site?
If wetlands are located on-site and may be impacted, attach wetlands delineation report.
If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number? ARAP permit No.:

Receiving waters: Tributary to Rutherford Fork Obion River

Attach the SWPPP with the NOI: ☒ SWPPP Attached | Attach a site location map: ☒ Map Attached

Site Owner/Developer Entity (*Primary Permittee*)**:** (person, company, or legal entity that has operational or design control over construction plans and specifications): 4-L Broiler Farms LLC SOS# 001112110

Site Owner/Developer Signatory (V.P. level/higher - signs certification below): (individual responsible for site): Chris Agapiou		Signatory's Title or Position (V.P. level/higher - signs certification below): Owner	
Mailing Address: 28 Concord Lane		City: Trenton	State: TN Zip: 38382
Phone: (901) 394-0489	Fax: ( )	E-mail: jennyagapiou@icloud.com	

Optional Contact: David Corvin		Title or Position:	
Mailing Address: P.O. Box 308		City: Humboldt	State: TN Zip: 38343
Phone: (479) 903-5011	Fax: ( )	E-mail: david.corvin@tyson.com	

Owner or Developer Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Owner or Developer Name (print or type): Chris Agapiou	Signature:	Date: 9-1-20

Contractor(s) Certification (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated.

Contractor company name (print or type): 4-L Broiler Farms LLC SOS# 001112110

Contractor signatory (print/type) (V.P. level or higher): Chris Agapiou		Signature:	Date: 09/02/2020 9-1-20
Mailing Address: 28 Concord Lane		City: Trenton State: TN	Zip: 38382
Phone: (901) 394-0489	Fax: ( )	E-mail: jennyagapiou@icloud.com	

Other Contractor company name (print or type):			
Other Contractor signatory (print/type) (V.P. level or higher):		Signature:	Date:
Mailing Address:		City: State:	Zip:
Phone: ( )	Fax: ( )	E-mail:	

OFFICIAL STATE USE ONLY

Received Date:	Reviewer:	Field Office:	Permit Number **TNR:**	Exceptional TN Water:
Fee(s):	T & E Aquatic Flora and Fauna:		Impaired Receiving Stream:	Notice of Coverage Date:

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Purpose of this form: A completed notice of intent (NOI) must be submitted to obtain coverage under the Tennessee General NPDES Permit for Discharges of Stormwater Associated with Construction Activity (permit). **Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant's claim of ability to be in compliance with permit terms and conditions.** This permit is required for stormwater discharge(s) from construction activities including clearing, grading, filling and excavating (including borrow pits) of one or more acres of land. This form should be submitted at least 30 days prior to the commencement of land disturbing activities, or no later than 48 hours prior to when a new operator assumes operational control over site specifications or commences work at the site.

Permit fee: The correct permit fee (see table below) must accompany the NOI and is based on total acreage to be disturbed by an entire project, including any associated construction support activities (e.g. equipment staging yards, material storage areas, excavated material disposal areas, borrow or waste sites).

Acres Disturbed	= or > 150 acres	= or > 50 < 150 acres	= or > 20 < 50 acres	= or > 5 < 20 acres	= or > 1 < 5 acres	Subsequent coverage*
Fee	$10,000	$6,000	$3,000	$1,000	$250	$100

* Subsequent Primary Operators seeking coverage under an actively covered larger plan of development or sale

Who must submit an NOI: Per Section 2 of the permit, all site operators must submit an NOI form. "Operator" for the purpose of this permit and in the context of stormwater associated with construction activity means any person associated with a construction project who meets either or both of the following two criteria: (1) The person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is typically the owner or developer of the project or a portion of the project (e.g. subsequent builder), or the person that is the current land owner of the construction site. This person is considered the primary permittee; or (2) The person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions. This person is typically a contractor or a commercial builder who is hired by the primary permittee, and is considered a secondary permittee.

Owners, developers and all contractors that meet the definition of the operator in subsection 2.2 of the permit shall apply for permit coverage on the same NOI, insofar as possible. After permit coverage has been granted to the primary permittee, any subsequent NOI submittals must include the site's previously assigned permit tracking number and the project name. The comprehensive site-specific SWPPP shall be prepared in accordance with the requirements of part 3 of the permit and must be submitted with the NOI unless the NOI being submitted is to only add a contractor (secondary permittee) to an existing coverage.

Notice of Coverage: The division will review the NOI for completeness and accuracy and prepare a notice of coverage (NOC). Stormwater discharge from the construction site is authorized as of the effective date of the NOC.

Complete the NOI: Type or print clearly, using ink and not markers or pencil. Answer each item or enter "NA," for not applicable, if a particular item does not fit the circumstances or characteristics of your construction site or activity. If you need additional space, attach a separate piece of paper to the NOI form. **The NOI will be considered incomplete without a permit fee, a map, and the SWPPP.**

Describe and locate the project: Use the legal or official name of the construction site. If a construction site lacks street name or route number, give the most accurate geographic information available to describe the location (reference to adjacent highways, roads and structures; e.g. intersection of state highways 70 and 100). Latitude and longitude (expressed in decimal degrees) of the center of the site can be located on USGS quadrangle maps. The quadrangle maps can be obtained at the USGS World Wide Web site: http://www.usgs.gov/; latitude and longitude information can be found at numerous other web sites. Attach a copy of a portion of a 7.5 minute quad map, showing location of site, with boundaries at least one mile outside the site boundaries. Provide estimated starting date of clearing activities and completion date of the project, and an estimate of the number of acres of the site on which soil will be disturbed, including borrow areas, fill areas, stockpiles and the total acres. For linear projects, give location at each end of the construction area.

MS4 Jurisdiction: If this construction site is located within a Municipal Separate Storm Sewer System (MS4), please list the MS4 name. A list of MS4s may be found at: http://www.tn.gov/environment/article/permit-water-stormwater-discharges-permitting

Give name of the receiving waters: Trace the route of stormwater runoff from the construction site and determine the name of the river(s), stream(s), creek(s), wetland(s), lake(s) or any other water course(s) into which the stormwater runoff drains. Note that the receiving water course may or may not be located on the construction site. If the first water body receiving construction site runoff is unnamed ("unnamed tributary"), determine the name of the water body that the unnamed tributary enters.

ARAP permit may be required: **If your work will disturb or cause alterations of a stream or wetland, you must obtain an appropriate Aquatic Resource Alteration Permit (ARAP).** If you have a question about ARAP permits, contact your local Environmental Field Office (EFO).

Submitting the form and obtaining more information: Note that this form must be signed by the company President, Vice-President, or a ranking elected official in the case of a municipality, for details see subpart 2.5. For more information, contact your local EFO at the toll-free number 1-888- 891-8332 (TDEC). Submit the completed NOI form (keep a copy for your records) to the appropriate EFO for the county(ies) where the construction activity is located, addressed to **Attention: Stormwater NOI Processing**.

EFO:	**Street Address:**	**Zip Code:**	**EFO:**	**Street Address:**	**Zip Code:**
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Parkway, Suite 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

APPENDIX E

NOT Form

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-TDEC (8332)

Notice of Termination (NOT) for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

This form is required to be submitted when requesting termination of coverage from the CGP. The purpose of this form is to notify the TDEC that either all stormwater discharges associated with construction activity from the portion of the identified facility where you, as an operator, have ceased or have been eliminated; or you are no longer an operator at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local DWR Environmental Field Office (EFO) address (see table below). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

Type or print clearly, using ink.

Site or Project Name:	**NPDES Tracking Number: TNR**
Street Address or Location:	County(ies):

Name of Permittee Requesting Termination of Coverage:			
Permittee Contact Name:	Title or Position:		
Mailing Address:	City:	State:	Zip:
Phone:	E-mail:		

Check the reason(s) for termination of permit coverage:

☐	Stormwater discharge associated with construction activity is no longer occurring and the permitted area has a uniform 70% permanent vegetative cover OR has equivalent measures such as rip rap or geotextiles, in areas not covered with impervious surfaces.
☐	You are no longer the operator at the construction site (i.e., termination of site-wide, primary or secondary permittee coverage).

Certification and Signature: (must be signed by president, vice-president or equivalent ranking elected official)

I certify under penalty of law that either: (a) all stormwater discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

For the purposes of this certification, elimination of stormwater discharges associated with construction activity means that all stormwater discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have been eliminated from the portion of the construction site where the operator had control. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized, the temporary erosion and sediment control measures have been removed, and/or subsequent operators have obtained permit coverage for the site or portions of the site where the operator had control.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Permittee name (print or type):	Signature:	Date:

EFO	**Street Address**	**Zip Code**	**EFO**	**Street Address**	**Zip Code**
Memphis	8383 Wolf Lake Drive, Bartlett, TN	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305	Chattanooga	1301 Riverfront Parkway, Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

APPENDIX F

Weekly Inspections Reports

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)
General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

Construction Stormwater Inspection Certification (Twice-Weekly Inspections)

Site or Project Name:			**NPDES Tracking Number: TNR**	
Primary Permittee Name:			Date of Inspection:	
Current approximate disturbed acreage:		Has rainfall been checked/documented daily? ☐ Yes ☐ No	Name of Inspector:	
Current weather conditions:			Inspector's TNEPSC Certification Number:	

Please check the box if the following items are on-site:

☐ Notice of Coverage (NOC) ☐ Stormwater Pollution Prevention Plan (SWPPP) ☐ Twice-weekly inspection documentation

☐ Site contact information ☐ Rain Gage ☐ Off-site Reference Rain Gage Location: _____

Best Management Practices (BMPs):

Are the Erosion Prevention and Sediment Controls (EPSCs) functioning correctly: If "No," describe below in Comment Section			
1.	Are all applicable EPSCs installed and maintained per the SWPPP?	☐Yes	☐No
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas per section 4.1.5?	☐Yes	☐No
3.	Are EPSCs functioning correctly at outfall/discharge points such that there is no objectionable color contrast in the receiving stream, and no other water quality impacts per section 5.3.2?	☐Yes	☐No
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track out?	☐Yes	☐No
5.	If applicable, have discharges from dewatering activities been managed by appropriate controls per section 4.1.4? If "No," describe below the measures to be implemented to address deficiencies.	☐Yes	☐No
6.	If construction activity at any location on-site has temporarily/permanently ceased, was the area stabilized within 14 days per section 3.5.3.2? If "No," describe below each location and measures taken to stabilize the area(s).	☐Yes	☐No
7.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters per section 4.1.5? If "No," describe below the measures to be implemented to address deficiencies.	☐Yes	☐No
8.	If a concrete washout facility is located on site, is it clearly identified on the project and maintained? If "No," describe below the measures to be implemented to address deficiencies. ☐ N/A	☐Yes	☐No
9.	Have all previous deficiencies been addressed? If "No," describe the remaining deficiencies in the Comments section. ☐ Check if deficiencies/corrective measures have been reported on a previous form.	☐Yes	☐No

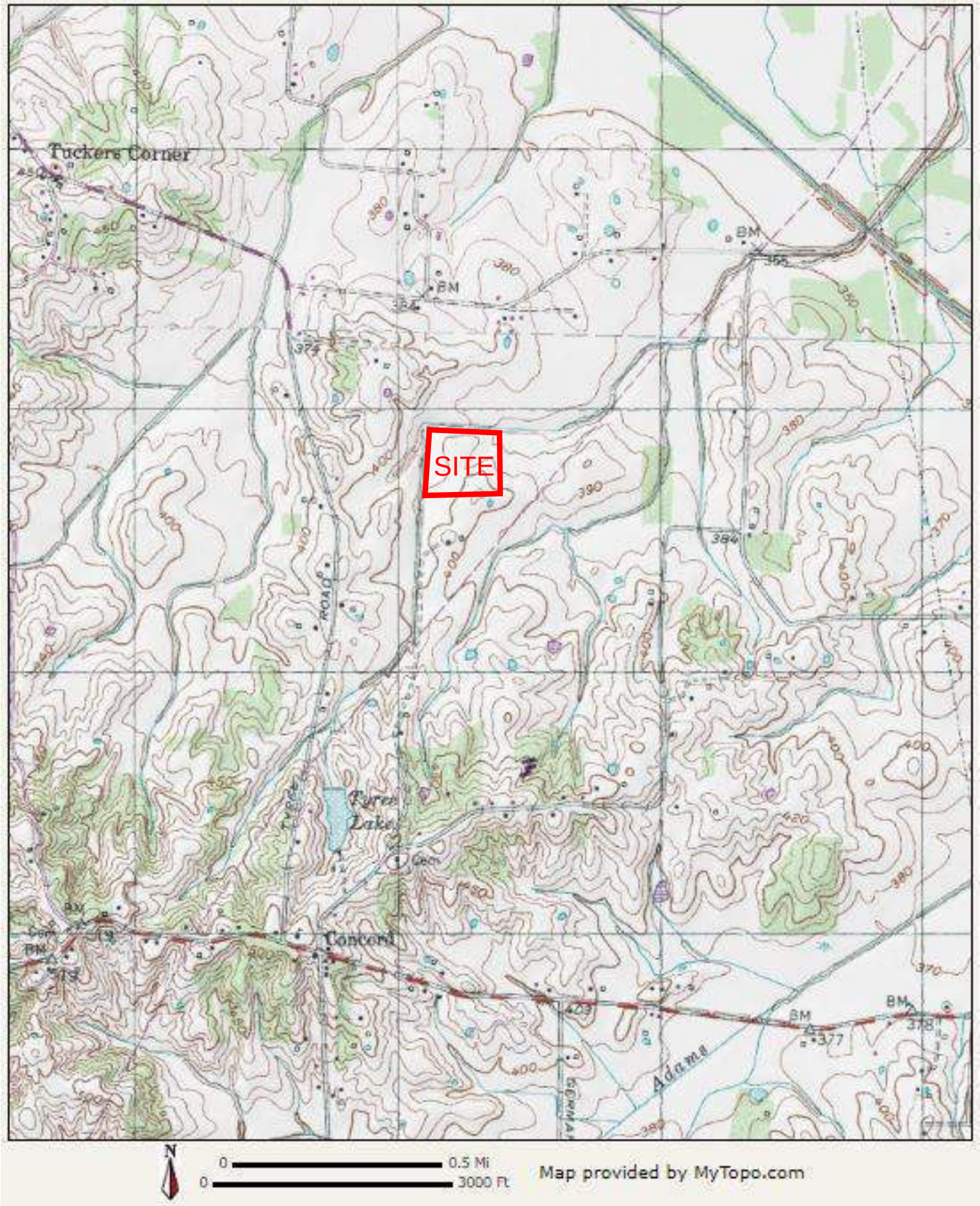
Comment Section. If the answer is "No" for any of the above, please describe the problem and corrective actions to be taken. Otherwise, describe any pertinent observations:

Certification and Signature (must be signed by the certified inspector and the permittee per Sections 3.5.8.2 (g) and 7.7.2 of the CGP)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

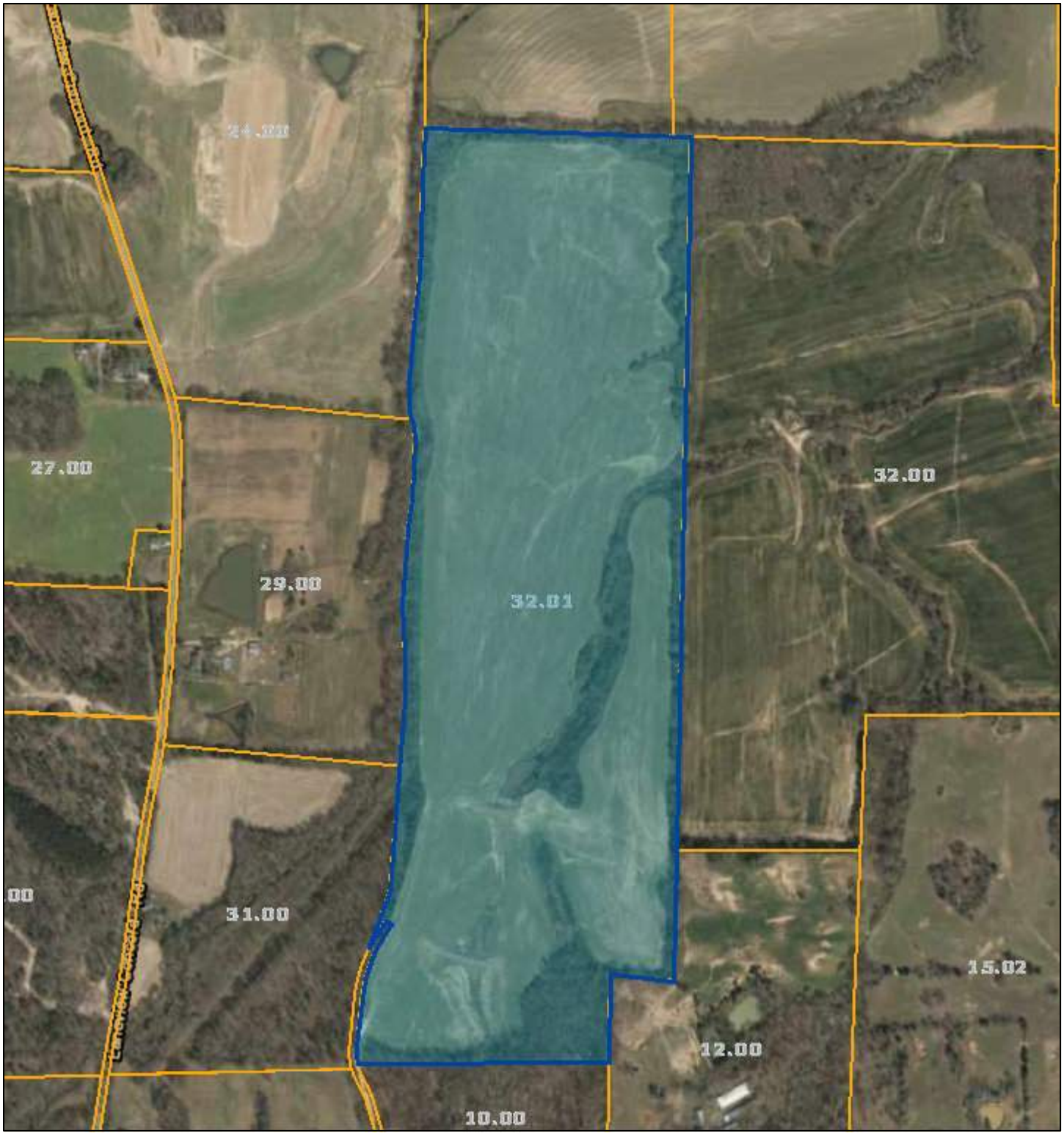
Inspector Name and Title:	Signature:	Date:
Primary Permittee Name and Title:	Signature:	Date:

L.I. Smith and Associates, Inc.
LAND DEVELOPMENT | INFRASTRUCTURE DESIGN
SURVEYING SERVICES
302 North Caldwell Street, Paris, TN 38242 | 731-644-1014 | www.lismith.com



L.I. Smith and Associates, Inc.
LAND DEVELOPMENT | INFRASTRUCTURE DESIGN
SURVEYING SERVICES
302 North Caldwell Street, Paris, TN 38242 | 731-644-1014 | www.lismith.com

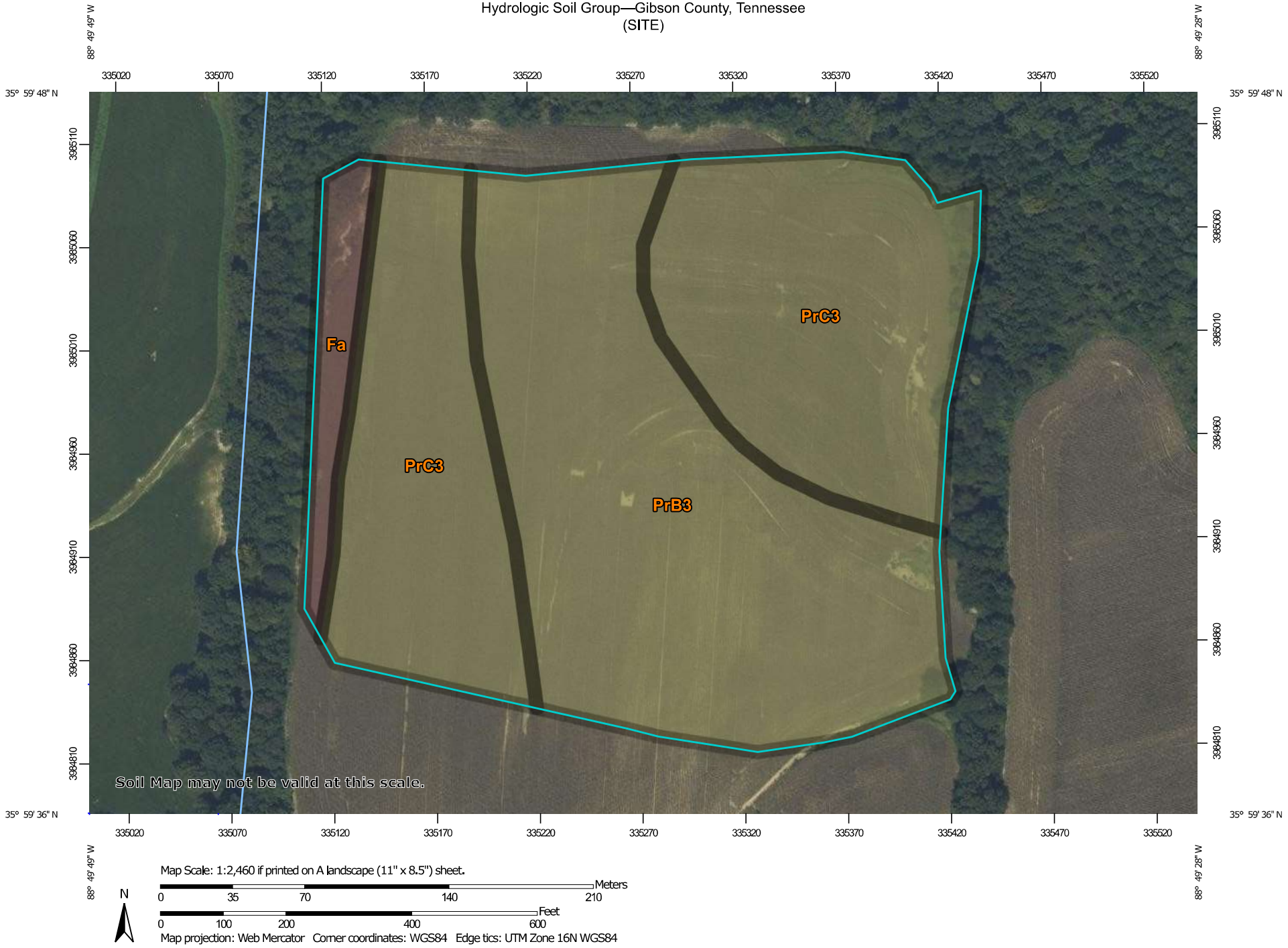
Gibson County - Parcel: 097 032.01



Date: July 7, 2020
County: Gibson
Owner: AGAPIOU CHRISTOPHER ETUX
Address: CONCORD LN
Parcel Number: 097 032.01
Deeded Acreage: 0
Calculated Acreage: 0
Date of Imagery: 2016

Gibson County - Parcel: 097 032.00

Date: August 17, 2020
County: Gibson
Owner: LAW TROY DUANE ETUX
Address: HERD LAW RD
Parcel Number: 097 032.00
Deeded Acreage: 120
Calculated Acreage: 0
Date of Imagery: 2016



Map Scale: 1:2,460 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 35 70 140 210

Feet
0 100 200 400 600

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 Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

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 1:24,000.

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: Gibson County, Tennessee
Survey Area Data: Version 18, May 29, 2020

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

Date(s) aerial images were photographed: Sep 6, 2019—Sep 11, 2019

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.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Fa	Falaya silt loam, frequently flooded	B/D	1.0	4.9%
PrB3	Providence silt loam, 2 to 5 percent slopes, severely eroded	C/D	9.6	46.9%
PrC3	Providence silt loam, 5 to 8 percent slopes, severely eroded	C/D	9.9	48.2%
Totals for Area of Interest			**20.5**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

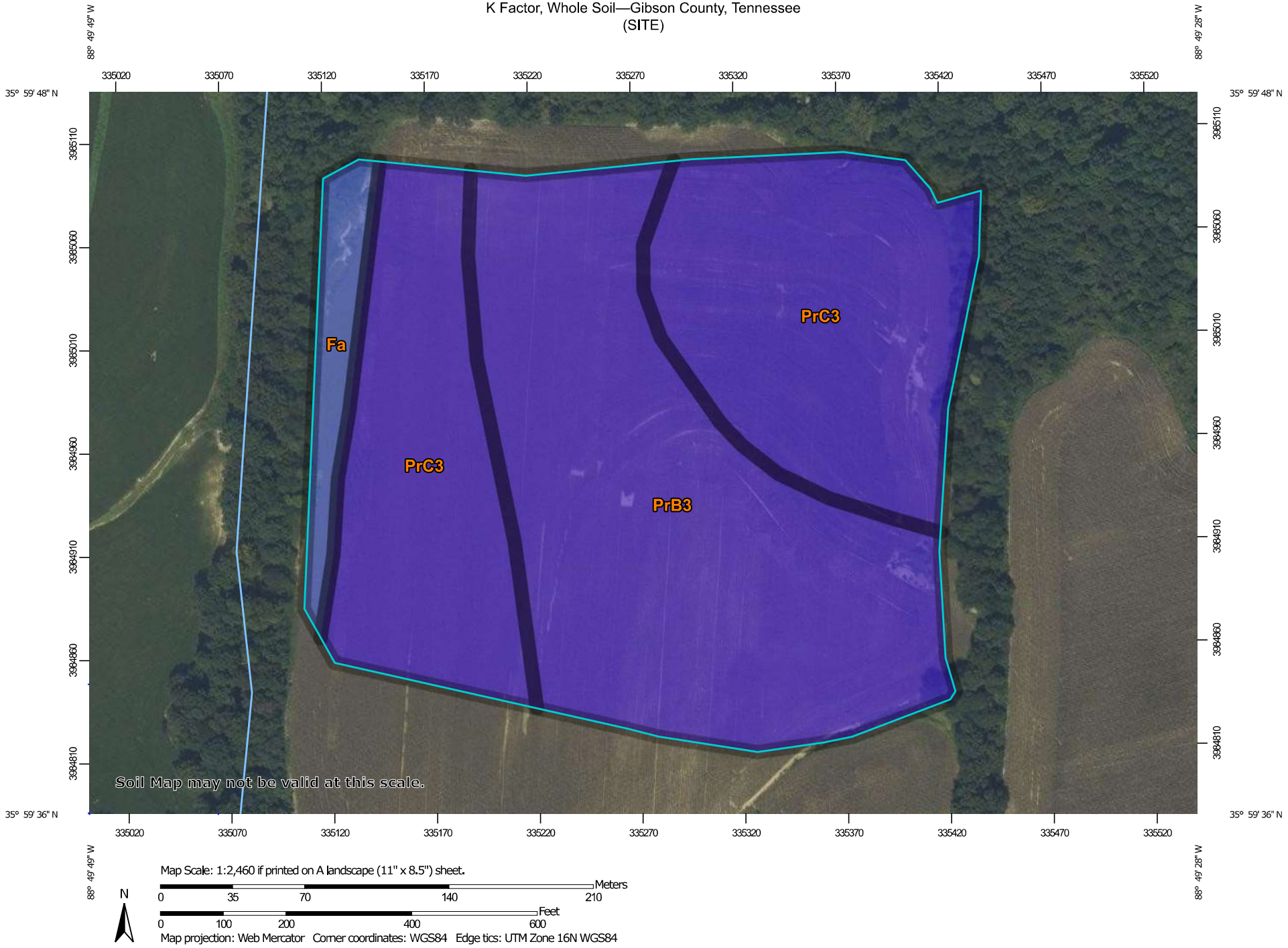
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

K Factor, Whole Soil—Gibson County, Tennessee
(SITE)



Map Scale: 1:2,460 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 35 70 140 210

Feet
0 100 200 400 600

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 Rating Polygons
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

Soil Rating Lines
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

Soil Rating Points
- .02
- .05
- .10
- .15
- .17
- .20
- .24
- .28
- .32
- .37
- .43
- .49
- .55
- .64
- Not rated or not available

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 1:24,000.

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: Gibson County, Tennessee
Survey Area Data: Version 18, May 29, 2020

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

Date(s) aerial images were photographed: Sep 6, 2019—Sep 11, 2019

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.

K Factor, Whole Soil

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Fa	Falaya silt loam, frequently flooded	.49	1.0	4.9%
PrB3	Providence silt loam, 2 to 5 percent slopes, severely eroded	.55	9.6	46.9%
PrC3	Providence silt loam, 5 to 8 percent slopes, severely eroded	.55	9.9	48.2%
Totals for Area of Interest			**20.5**	**100.0%**

Description

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)