

LAND APPLICATION SITE

RICHARD G. HARMAN

MARGH 1-5

MADISON COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on _____ between Richard G Harman Jr referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Norfolk, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
59-5A			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
 The Landowner is one of multiple owners of the properties identified herein.

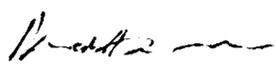
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

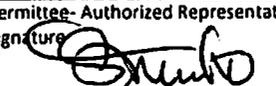
<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Printed name <u>Richard G Harman Jr</u>	Mailing Address 11831 Federalist Way #1 Fairfax VA 22030	Landowner Signature 
By: Title*	Phone No. 571-308-9272	
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official (or officer) authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name Susan Trumbo	Mailing Address PO Box 562, Remington Virginia 22734	Permittee- Authorized Representative Signature 
Title Technical Manager	Phone No. 540-547-3300	

Permittee: Recyc Systems, Inc

County or City: Madison

Landowner: Richard G Harman Jr

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

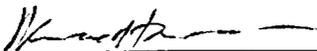
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).



Landowner's Signature

9/28/14

Date

Operator's Signature

mailing address & phone

Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 4-10-17 between Richard G. Harman Jr., Executor referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Madison, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
<u>59-5A</u>			

Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: The Landowner is the sole owner of the properties identified herein.
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Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
 Yes No Yes No Yes No Yes No

Richard G. Harman, Deceased Richard G. Harman Jr, Executor 11831 Federalist way, #1
 Landowner - Printed Name, Title Signature Mailing Address & Phone Number
Fairfax VA 22030
571-308-9272

Permittee:
Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Strumbo Strumbo P.O. Box 562 Remington, Virginia 22734
 Permittee - Authorized Representative Signature Mailing Address
 Printed Name

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Madison
Landowner: Richard Harman

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Richard Harman Landowner's Signature 4/10/17 Date

W. J. DeLoach Farm Operator Signature 540-672-7479
3849 Twymans Mill Rd. Orange Va. 22960 Mailing Address & Phone Number

FARM DATA SHEET

SITE NAME:	Richard G. Harman	COUNTY:	Madison
OWNER:	Richard G. Harman; Richard G. Harman Jr. Executor	OPERATOR:	W.E. Rider III
OWNER'S ADDRESS:	11831 Federalist Way #1 Fairfax, VA 22030	OPERATOR'S ADDRESS:	3849 Twymans Mill Road Orange, VA 22960
OWNER'S TELEPHONE:	571-308-9272	OPERATOR'S TELEPHONE:	540-672-7479
GENERAL FARM TYPE:	Hay/ Pasture	CELL PHONE:	540-748-3273
# CATTLE:	35	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	38.329
TOPO QUAD:	Madison Mills	LONGITUDE:	-78.152
COMMENTS:	METHOD OF DETERMINATION:		Online Maps
Please check all fields for rock outcrops prior to field operations.			
BB			

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
MARGH 1	9.1	Cm Nov.-Apr.	-	-	Cm Nov.-Apr.	RA 36	TM 59-5A	T 1306 F 7
MARGH 2	11.6	Cm Nov.-Apr.	-	-	Cm Nov.-Apr.	RA 36	TM 59-5A	T 1306 F 6, 8
MARGH 3	18.6	Cm Nov.-Apr.	-	-	Cm Nov.-Apr.	RA 36	TM 59-5A	T 1306 F 5
MARGH 4	17.2	Cm Nov.-Apr.	-	-	Cm Nov.-Apr.	RA 36	TM 59-5A	T 1306 F 1, 3, 4, 10
MARGH 5	13.4	Cm Nov.-Apr.	-	-	Cm Nov.-Apr.	RA 36	TM 59-5A	T 1306 F 2
TOTAL ACRES IN SITE	69.9							

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2017-Summer, 2019)
Richard G. Harman
Planner: Recyc Systems, Inc

Tract: 1306 Location: Madison
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
7/MARGH 1(N)	9/9	2017	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A		
6, 8/MARGH 2(N)	12/12	2017	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
5/MARGH 3(N)	19/19	2017	Grass Pasture	50-30-40	0/0				50-30-40	N/A		
1, 3, 4, 10/MARGH 4(N)	17/17	2017	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A		
2/MARGH 5(N)	13/13	2017	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1306	MARGH 1	9	[No Test]						
1306	MARGH 2	12	[No Test]						
1306	MARGH 3	19	[No Test]						
1306	MARGH 4	17	[No Test]						
1306	MARGH 5	13	[No Test]						

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1306	1306/7	MARGH 1	9	Elioak	IVa	II	III	II	
	1306/6, 8	MARGH 2	12	Chewacla	IIIa	II	III	II	
	1306/5	MARGH 3*	19	Lloyd	IVa	II	III	III	High Leaching, Shallow so
	1306/1, 3, 4	MARGH 4	17	Elioak	IIIb	II	III	II	
	1306/2	MARGH 5	13	Glenelg2	IVa	II	III	II	

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applicaions.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Spring, 2017 - Summer, 2019

Farm Name: Richard G. Harman
Location: Madison
Specialist: Recyc Systems, Inc
N-based Acres: 69.9
P-based Acres: 0.0

Tract Name: 1306
FSA Number: 1306
Location: Madison

Field Name: MARGH 1
Total Acres: 9.10 Usable Acres: 9.10
FSA Number: 7
Tract: 1306
Location: Madison
Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary

N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
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11	Cm	Chewacla
40	EmB	Elioak
38	EmC2	Elioak
10	HaD	Hazel
1	SrC	Starr

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2017-Sp	3.4 * tons	Fescue grass (hay), maint. - No Till

Field Name: MARGH 2

Total Acres:	11.60	Usable Acres:	11.60
FSA Number:	6, 8		
Tract:	1306		
Location:	Madison		
Slope Class:	B	Hydrologic Group:	D

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
36	Cm	Chewacla
3	EmB	Elioak
13	EmB2	Elioak

12	EmC2	Elioak
27	GIC2	Glenelg2
7	GID2	Glenelg2
2	MvC	Meadowville

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2017-Sp	1.2 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: MARGH 3

Total Acres: 18.60 Usable Acres: 18.60

FSA Number: 5

Tract: 1306

Location: Madison

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
7	BrE	Bremo
8	Cm	Chewacla
2	EmC2	Elioak
7	GIC2	Glenelg2

23	HaC	Hazel
7	HaD	Hazel
19	LfB	Lloyd
12	LIB2	Lloyd
1	LIC2	Lloyd
4	LnC3	Lloyd
11	MvC	Meadowville

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Shallow soils less than 41 inches deep likely to be located over fractured or limestone bedrock

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
2017-Sp	2.4 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: MARGH 4

Total Acres: 17.20 Usable Acres: 17.20

FSA Number: 1, 3, 4, 10

Tract: 1306

Location: Madison

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
11	Cm	Chewacla
15	EIB2	Elioak
59	GIC2	Glenelg2
1	GID2	Glenelg2
13	HaD	Hazel

Field Warnings:

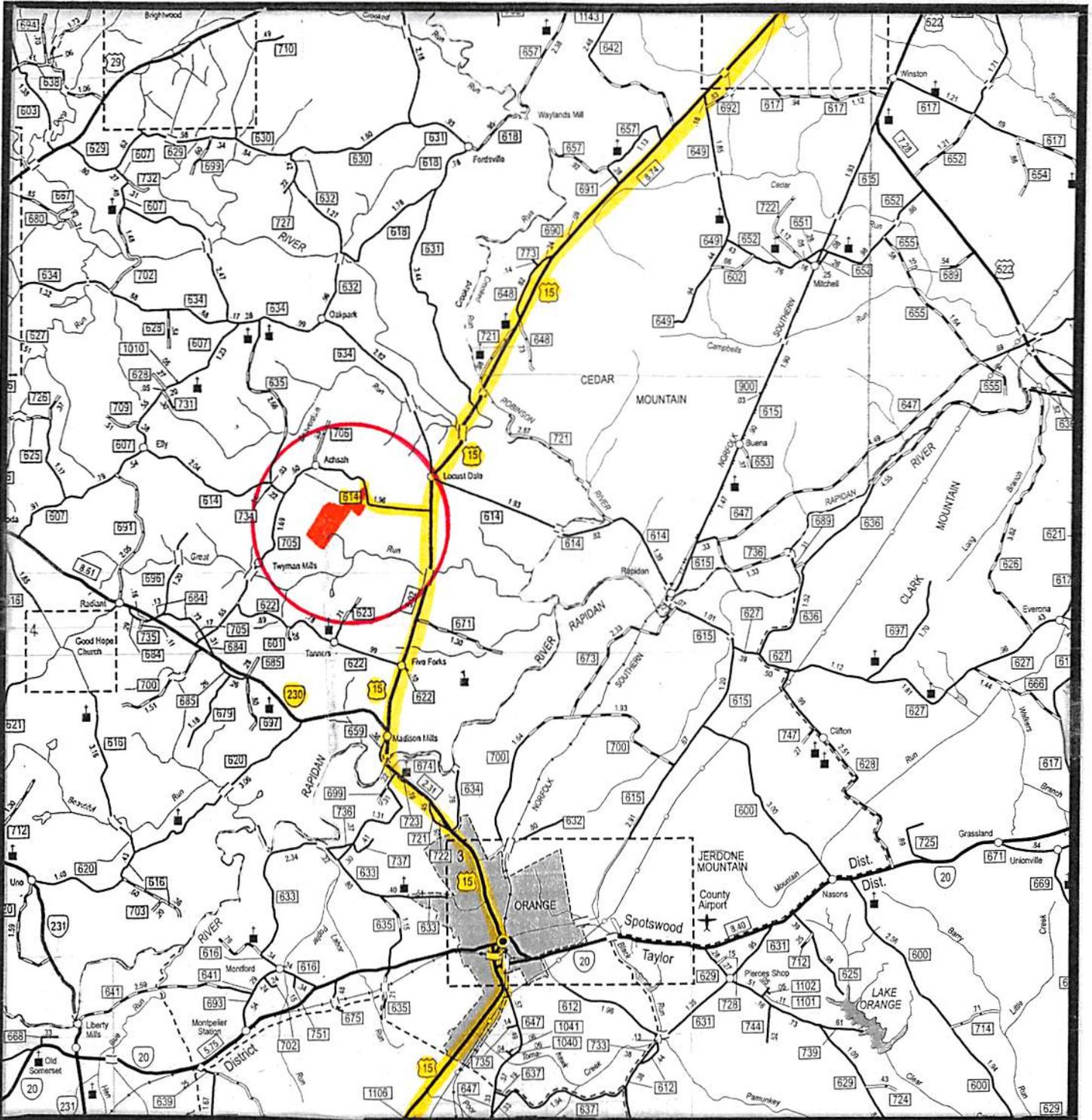
Crop Rotation:

PLANTED	YIELD	CROP NAME
2017-Sp	3.3 * tons	Fescue grass (hay), maint. - No Till

MAPS

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1" = 2 miles

MARCH 1-5

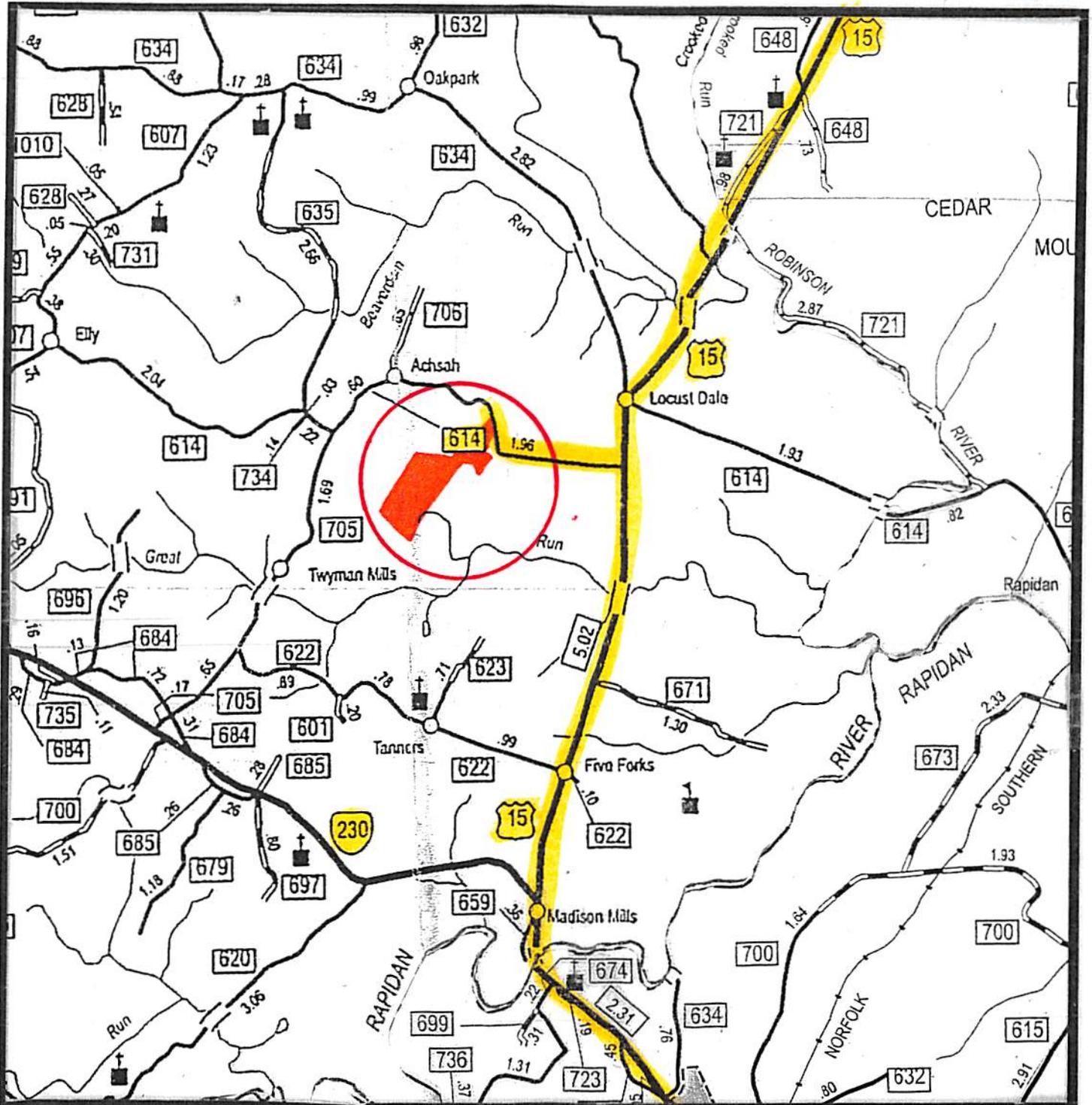
Truck Route marked in Yellow

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 1 mile

MARCH 1-5

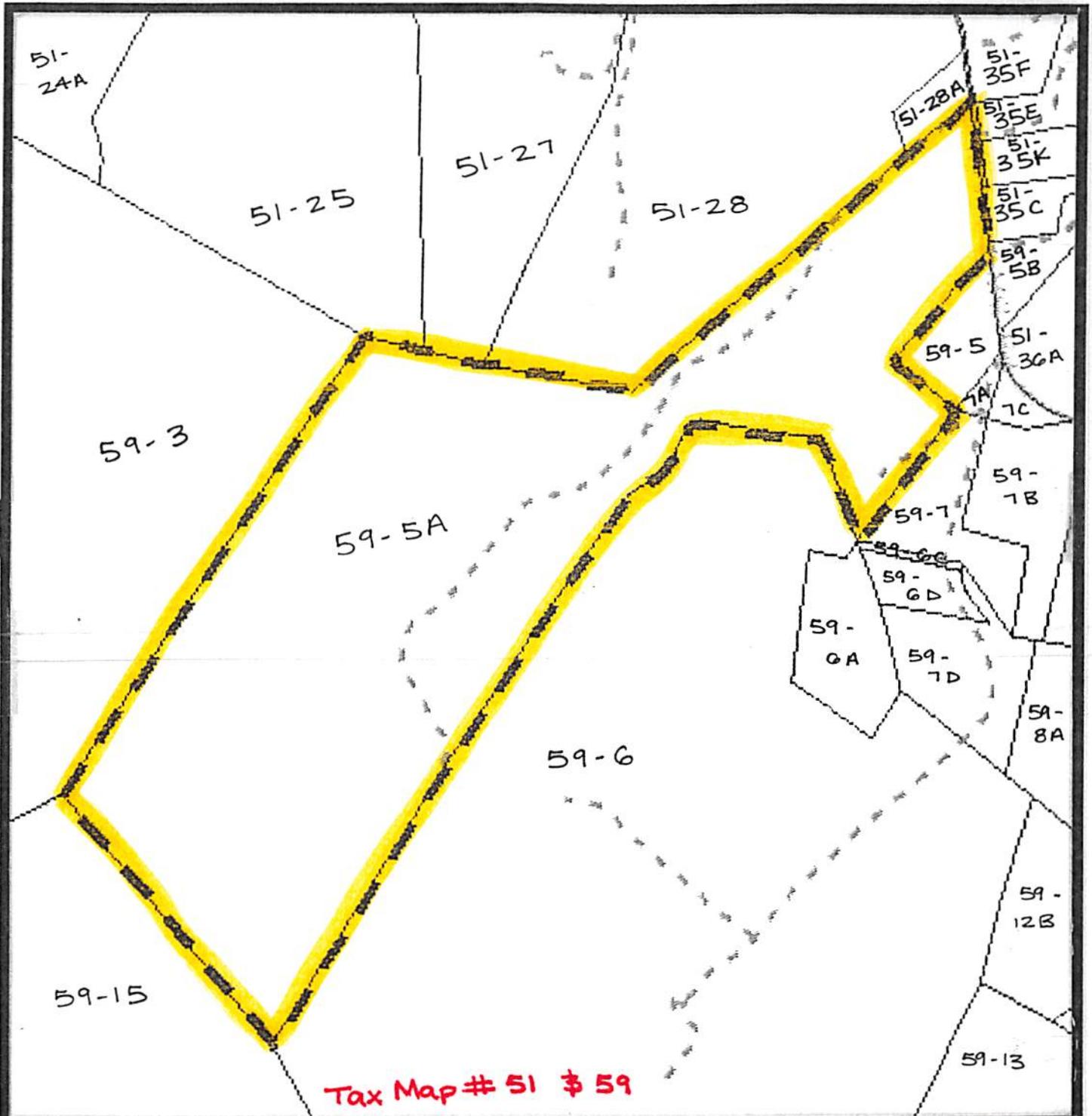
Truck Route marked in Yellow

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

MARCH 1-5

TAX MAP



ADJOINING LANDOWNERS

Richard G. Harman

MADISON COUNTY

Tax Map	Parcel #	Owner Name(s)
51	25	Larry D. and Barbara W. Beatty Trustee
	27	William M. Revelle Jr.
	28	James Vere Nicoll Trustee
	28A	William F. Shifflett Life Estate et. als.
	35C	Valeria L. Compton
	35E	Ronald L. or Wanda A. Compton
	35F	Betty Lou Rider Putnam
	35K	Ronald L. Compton Jr.
59	3	Tatum Farm LLC
	5	William R. Davis
	5B	Michael or Patricia Hoffman
	6	James Vere Nicoll Trustee
	6A	John B. Washington
	6C	John B. Washington
	7	Robert Anthony Shoultz
	7A	Robert Anthony Shoultz
15	JJT Virginia Property Ventures LP	

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

MARCH 1-5

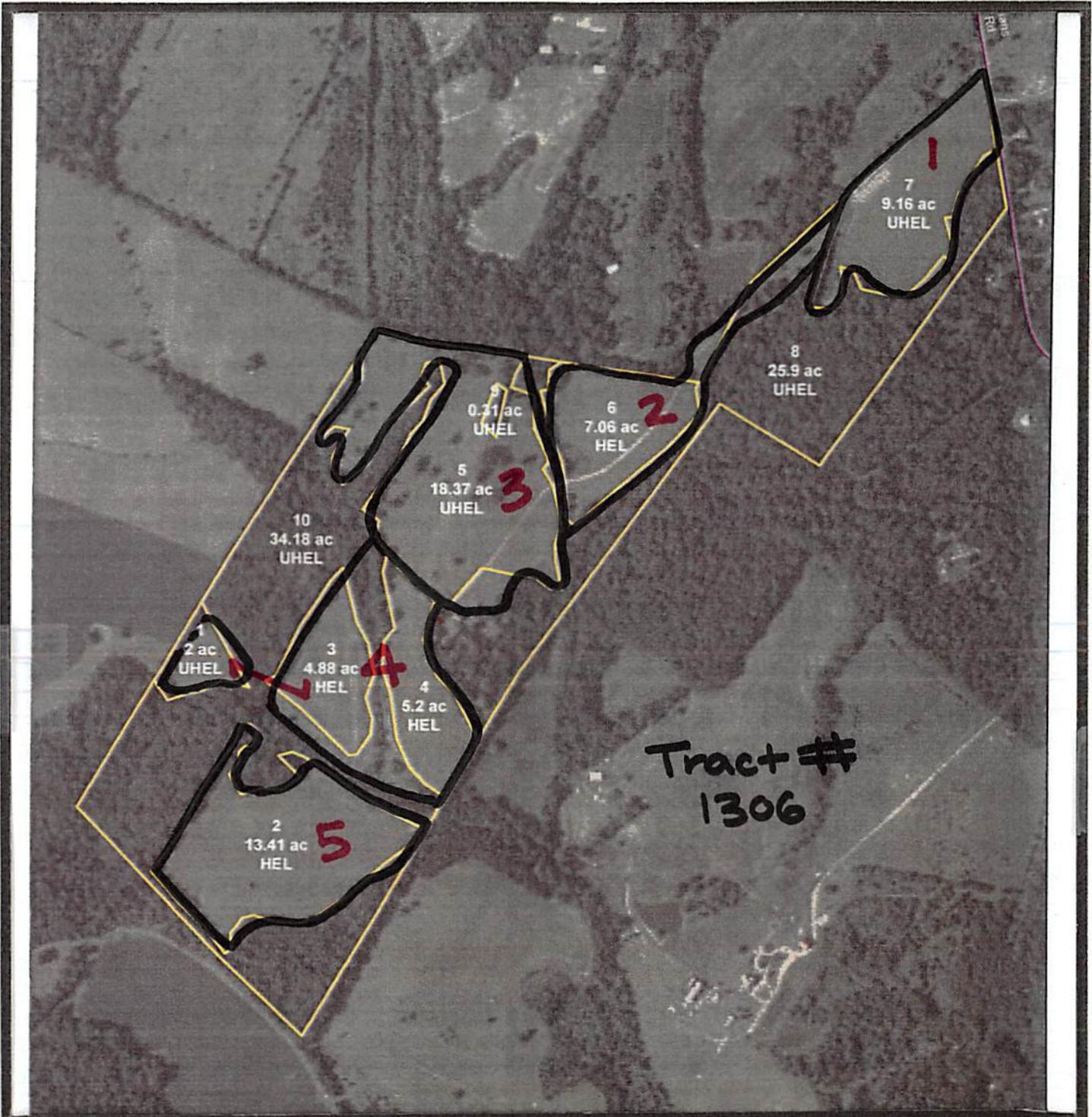
SOIL MAP

Frequent Flooding
marked in Orange



Recyc SystemsTM Inc.

(Biosolids Land Application)



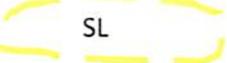
Scale: 1" = 660 ft.

MARGH 1-5

AERIAL MAP



Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
	Slope	15% maximum
	Hashed out Area	No application

*Buffer can be reduced or waived upon written consent from landowner.

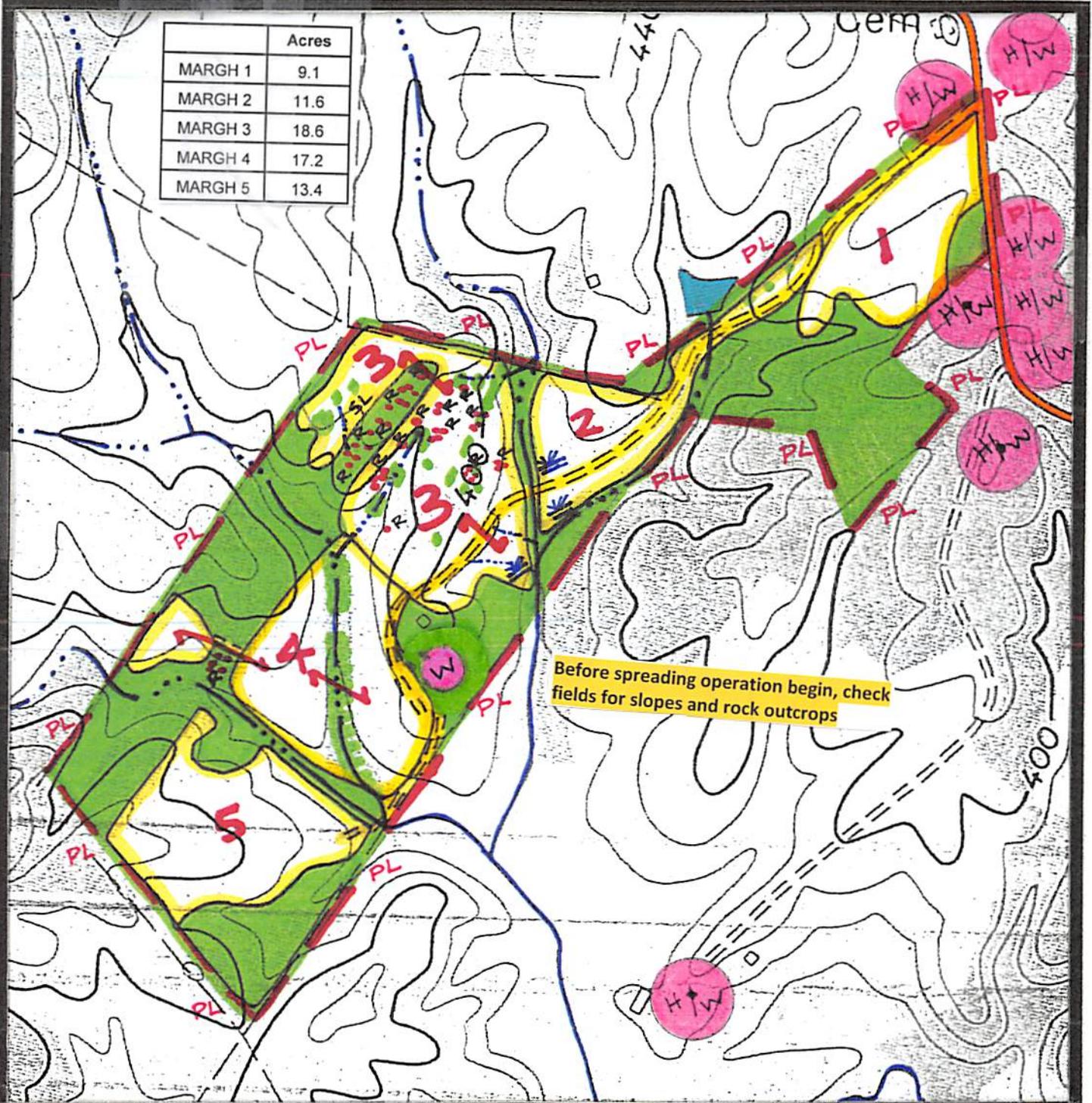
Recyc Systems™

Inc.

(Biosolids Land Application)



	Acres
MARGH 1	9.1
MARGH 2	11.6
MARGH 3	18.6
MARGH 4	17.2
MARGH 5	13.4



Scale: 1" = 660 ft.

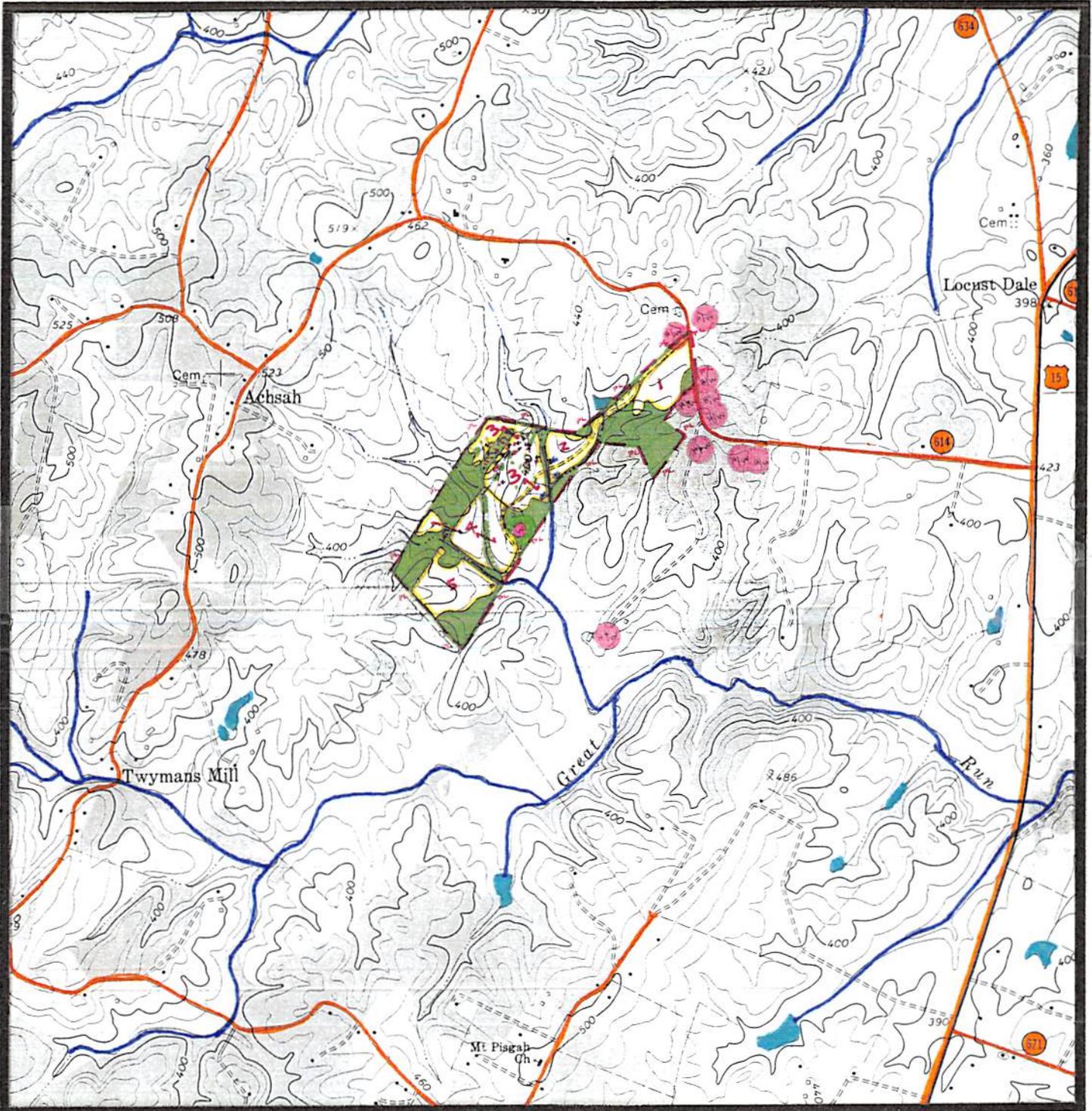
MARGH 1-5

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 2000 ft.

MARCH 1-5

TOPOGRAPHIC MAP

