LAND APPLICATION SITE

MELROSE FARM

FQMFS 1-7

FAUQUIER COUNTY

VA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN
FEB 18 2015
REGIONAL OFFICE
WOODBRIDGE, VA

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 Feb 3-15 between John D. Nisley 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 Fauquier, 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

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
7902-99-5643	7912-06-4254		
7912-38-1508	7902-85-7792		
7912-28-0397	7902-97-3313		
7912-18-3021			
7912-08-4041			

☐ 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.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

Still water's Farm LLC — Landowner – Printed Name, Title
John D. Nisley — Signature
9038 Bastable mill Rd Catlett VA 20119 — Mailing Address & Phone Number

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)

Permittee – Authorized Representative Printed Name
Signature
PO Box 562 Remington, Virginia 22734 — Mailing Address

Rev 9/14/2012

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

Permittee: Recyc Systems, Inc County or City: Fauquier

Landowner: John D. Nissley for Still Waters Farm LLC

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).

John D. Nissley 7-3-15

Landowner's Signature Date

John D. Nissley 9038 Bastable mill Rd Catlett Va. 20119

Farm Operator Signature Mailing Address & Phone Number 540-788-9651

Rev 9/14/2012

FARM DATA SHEET

SITE NAME:	Melrose Farm	**COUNTY:**	Fauquier
OWNER:	Still Waters Farm LLC John D. Nissley, Owner	**OPERATOR:**	John D. Nissley
OWNER'S ADDRESS:	9038 Bastable Mill Road Catlett, VA 20119	**OPERATOR'S ADDRESS:**	9038 Bastable Mill Road Catlett, VA 20119
OWNER'S TELEPHONE:	540-788-9651	**OPERATOR'S TELEPHONE:**	540-788-9651
GENERAL FARM TYPE:	Dairy/Row Crop/Hay	**CELL PHONE:**	540-270-0663 Aaron Nissley-son
# CATTLE:	50	**EMAIL:**	-
LAGOON or SLURRY:	None	**LATITUDE:**	38.671
TOPO QUAD:	Catlett	**LONGITUDE:**	77.703
COMMENTS:	Truck traffic needs to use the entrance off of route 747.		
			BL

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			
FQMFS 1	42.3	6A Nov.-June	77C	-	6A Nov.-June 14B Dec.-Mar.	PL 36	7912-06-4254 7902-97-3313 7912-08-4041 7912-18-3021	T 7696 F 11, 15, 19
FQMFS 2	62.7	79A Nov.-Mar.	77C	-	14B Dec.-Mar. 79A Dec.-Feb.	PL 36	7912-06-4254 7912-28-0397 7912-08-4041 7912-18-3021	T 7696 F None
FQMFS 3	52.8	6A Nov.-June 79A Nov.-Mar.	77E	-	6A Nov.-June 14B Dec.-Mar. 79A Dec.-Feb.	PL 36	7912-38-1508 7912-28-0397 7912-18-3021	T 7696 F 2, 3
FQMFS 4	21.7	63A Nov.-May 79A Nov.-Mar.	-	-	5A Nov.-Mar. 79A Dec.-Feb.	PL 36	7912-38-1508	T 7696 F None
FQMFS 5	10.1	6A Nov.-June 79A Nov.-Mar.	-	-	6A Nov.-June 79A Dec.-Feb.	PL 36	7912-08-4041 7902-97-3313	T 7696 F None
FQMFS 6	42.5	-	-	-	14B Dec.-Mar.	PL 36	7902-85-7792 7902-97-3313 7912-08-4041	T 7696 F None
FQMFS 7	31.1	6A Nov.-June	-	-	5A Nov.-Mar. 6A Nov.-June 14B Dec.-Mar.	PL 36	7902-99-5643 7902-97-3313 7912-08-4041 7912-18-3021	T 7696 F 4
TOTAL ACRES IN SITE	263.2							

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

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: Recyc Systems Inc. Site Name: Melrose Farm Site

County or City: Fauquier County

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
7902-99-5643	Still Waters Farm LLC
7912-38-1508	Still Waters Farm LLC
7912-28-0397	Still Waters Farm LLC
7912-18-3021	Still Waters Farm LLC
7912-08-4041	Still Waters Farm LLC
7912-06-4254	Still Waters Farm LLC
7902-85-7792	Still Waters Farm LLC
7902-97-3313	Still Waters Farm LLC

Report Number: 15-041-0568
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
MELROSE FARM/FQMFS
FAUQUIER CO

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Date Received: 02/10/2015 **Date Of Analysis:** 02/11/2015 **Date Of Report:** 02/11/2015

Analytical Method(s):
Mehlich 3

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1A FQMFS	18679	3.0	M	90	26	L			85	L	227	M	2024	H			6.1	6.74	1.9	14.2
1B FQMFS	18680	3.1	M	93	12	VL			79	L	173	M	2385	VH			7.3		0.0	13.6
1C FQMFS	18681	3.2	M	91	11	VL			95	L	257	M	2489	H			6.6	6.84	0.9	15.8
2A FQMFS	18682	2.9	M	88	18	L			102	L	245	M	2051	H			6.2	6.76	1.7	14.3
2B FQMFS	18683	3.3	M	103	18	L			75	L	105	L	1244	M			5.7	6.74	1.9	9.2

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
1A FQMFS	1.5	13.3	71.3		13.7					1.7	L	26	H											
1B FQMFS	1.5	10.6	87.7		0.0					1.5	L	34	H											
1C FQMFS	1.5	13.6	78.8		5.9					1.4	L	13	M											
2A FQMFS	1.8	14.3	71.7		12.1					1.5	L	54	VH											
2B FQMFS	2.1	9.5	67.6		21.1					1.3	L	107	VH											

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 15-041-0568
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
MELROSE FARM/FQMFS
FAUQUIER CO

Submitted By: BB
Farm ID:

Date Received: 02/10/2015
Date Of Report: 02/11/2015

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1A FQMFS	Adjust pH to 6.8	0	1.8				0			0			
1B FQMFS	Adjust pH to 6.8	0	0.0				0			0			
1C FQMFS	Adjust pH to 6.8	0	1.0				0			2			
2A FQMFS	Adjust pH to 6.8	0	1.5				0			0			
2B FQMFS	Adjust pH to 6.8	0	2.0				0			0			

Comments:

Sample(s) : 1B Crop: Adjust pH to 6.8

Cation Exchange Capacity may be over-estimated due to high pH and free lime in the soil.

Sample(s) : 2B Crop: Adjust pH to 6.8

Apply dolomitic lime to raise pH and improve the magnesium level.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

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Date Received: 02/10/2015 **Date Of Analysis:** 02/11/2015 **Date Of Report:** 02/11/2015

Analytical Method(s):
Mehlich 3

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
2C FQMFS	18684	2.8	M	92	11	VL			58	L	116	L	1718	VH			6.9		0.1	9.8
3A FQMFS	18685	4.0	M	113	8	VL			58	VL	155	M	1938	H			6.4	6.82	1.1	12.2
3B FQMFS	18687	3.4	M	103	11	VL			73	L	153	M	1588	H			6.3	6.82	1.1	10.5
3C FQMFS	18688	3.7	M	109	15	L			51	VL	157	M	1550	H			6.3	6.82	1.1	10.3
4 FQMFS	18689	3.9	M	112	7	VL			36	VL	143	M	1855	H			6.6	6.86	0.7	11.2

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
2C FQMFS	1.5	9.9	87.7		1.4					1.4	L	103	VH											
3A FQMFS	1.2	10.6	79.4		8.9					1.6	L	105	VH											
3B FQMFS	1.8	12.1	75.6		10.6					1.5	L	68	VH											
3C FQMFS	1.3	12.7	75.2		10.5					1.4	L	71	VH											
4 FQMFS	0.8	10.6	82.8		5.9					2.5	M	91	VH											

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 15-041-0568
Account Number: 70594

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A&L Eastern Laboratories

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CULPEPER VA 22701

Grower:
MELROSE FARM/FQMFS
FAUQUIER CO

Submitted By: BB
Farm ID:

Date Received: 02/10/2015
Date Of Report: 02/11/2015

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
2C FQMFS	Adjust pH to 6.8	0	0.0				0			0			
3A FQMFS	Adjust pH to 6.8	0	1.0				0			0			
3B FQMFS	Adjust pH to 6.8	0	1.0				0			0			
3C FQMFS	Adjust pH to 6.8	0	1.0				0			0			
4 FQMFS	Adjust pH to 6.8	0	1.0				0			0			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Date Received: 02/10/2015 **Date Of Analysis:** 02/11/2015 **Date Of Report:** 02/11/2015

Analytical Method(s):
Mehlich 3

Sample ID Field ID	Lab Number	Organic Matter %	Organic Matter Rate	Organic Matter ENR lbs/A	Phosphorus Mehlich 3 ppm	Phosphorus Mehlich 3 Rate	Phosphorus Reserve ppm	Phosphorus Reserve Rate	Potassium K ppm	Potassium K Rate	Magnesium Mg ppm	Magnesium Mg Rate	Calcium Ca ppm	Calcium Ca Rate	Sodium Na ppm	Sodium Na Rate	pH Soil pH	pH Buffer Index	Acidity H meq/100g	C.E.C meq/100g
5 FQMFS	18690	3.5	M	104	10	VL			67	L	155	M	1548	M			5.9	6.74	1.9	11.1
6A FQMFS	18691	2.8	M	90	24	L			134	M	129	L	1978	VH			7.0		0.0	11.3
6B FQMFS	18692	2.0	L	73	25	L			98	L	172	M	2014	VH			7.2		0.0	11.8
7 FQMFS	18693	4.3	M	124	10	VL			56	L	105	M	986	M			5.4	6.70	2.3	8.3

Sample ID Field ID	Percent Base Saturation K %	Mg %	Ca %	Na %	H %	Nitrate NO_3N ppm	Nitrate Rate	Sulfur S ppm	Sulfur Rate	Zinc Zn ppm	Zinc Rate	Manganese Mn ppm	Manganese Rate	Iron Fe ppm	Iron Rate	Copper Cu ppm	Copper Rate	Boron B ppm	Boron Rate	Soluble Salts SS ms/cm	Soluble Salts Rate	Chloride Cl ppm	Chloride Rate	Aluminum Al ppm
5 FQMFS	1.5	11.6	69.7		17.2					1.8	L	72	VH											
6A FQMFS	3.0	9.5	87.5		0.0					1.6	L	89	VH											
6B FQMFS	2.1	12.1	85.3		0.0					1.3	L	53	VH											
7 FQMFS	1.7	10.5	59.4		28.3					1.7	L	114	VH											

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 15-041-0568
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A&L Eastern Laboratories

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Send To: RECYC SYSTEMS INC
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Grower:
MELROSE FARM/FQMFS
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Submitted By: BB
Farm ID:

Date Received: 02/10/2015
Date Of Report: 02/11/2015

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
5 FQMFS	Adjust pH to 6.8	0	2.0				0			0			
6A FQMFS	Adjust pH to 6.8	0	0.0				0			0			
6B FQMFS	Adjust pH to 6.8	0	0.0				0			0			
7 FQMFS	Adjust pH to 6.8	0	2.5				0			0			

Comments:

Sample(s) : 7 Crop: Adjust pH to 6.8

Apply dolomitic lime to raise pH and improve the magnesium level.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2015-Summer, 2017)
Melrose Farm
Planner: Recyc Systems, Inc

Tract: 7696 Location: Fauquier
(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	
11, 15, 19/FQMFS 1(N)	42/42	2015	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
NONE/FQMFS 2(N)	63/63	2015	Corn (grain)	120-60-60	20/0				100-60-60	N/A			
2, 3/FQMFS 3(N)	53/53	2015	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
NONE/FQMFS 4(N)	22/22	2015	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
NONE/FQMFS 5(N)	10/10	2015	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
NONE/FQMFS 6(N)	43/43	2015	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A			
4/FQMFS 7(N)	31/31	2015	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
7696	FQMFS 1	42	2015-Wi	M- (26 P ppm)	M (85 K ppm)	A&L MIII	6.1		
7696	FQMFS 2	63	2015-Wi	L+ (18 P ppm)	M (102 K ppm)	A&L MIII	6.2		
7696	FQMFS 3	53	2015-Wi	L- (8 P ppm)	M- (58 K ppm)	A&L MIII	6.4		
7696	FQMFS 4	22	2015-Wi	L- (7 P ppm)	L (36 K ppm)	A&L MIII	6.6		
7696	FQMFS 5	10	2015-Wi	L- (10 P ppm)	M- (67 K ppm)	A&L MIII	5.9		
7696	FQMFS 6	43	2015-Wi	M- (24 P ppm)	H- (134 K ppm)	A&L MIII	7.		
7696	FQMFS 7	31	2015-Wi	L- (10 P ppm)	M- (56 K ppm)	A&L MIII	5.4		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
7696	7696/11, 15,	FQMFS 1*	42	Arcola	IVb	III	III	III	Poor Drainage, Shallow so
	7696/NO NE	FQMFS 2	63	Panorama	IVa	III	III	III	
	7696/2, 3	FQMFS 3	53	Penn	IVb	III	Not Suited	III	
	7696/NO NE	FQMFS 4	22	Rowland	IVa	IV	III	III	
	7696/NO NE	FQMFS 5*	10	Nestoria	IVa	III	Not Suited	III	Poor Drainage, Shallow so
	7696/NO NE	FQMFS 6*	43	Arcola	IVb	III	III	III	Shallow soil, High Slope
	7696/4	FQMFS 7*	31	Bowmansville	IIb	II	III	I	Poor Drainage

* 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, 2015 - Summer, 2017**

Farm Name: **Melrose Farm**
Location: Fauquier
Specialist: Recyc Systems, Inc
N-based Acres: 263.2
P-based Acres: 0.0

Tract Name: **7696**
FSA Number: 7696
Location: Fauquier

Field Name: **FQMFS 1**
Total Acres: 42.30 Usable Acres: 42.30
FSA Number: 11, 15, 19
Tract: 7696
Location: Fauquier
Slope Class: C Hydrologic Group: C

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
Wi-2015	6.1	M-(26 P ppm)	M(85 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES

4	6A	Bowmansville
5	14B	Sowego
1	71B	Panorama
3	73B	Penn
2	73C	Penn
85	77C	Arcola Nestoria

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

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

Crop Rotation:

PLANTED	YIELD	CROP NAME
2015-Sp	2.5 * tons	Fescue grass (hay), maint. - No Till

Field Name: **FQMFS 2**
Total Acres: 62.70 Usable Acres: 62.70
FSA Number: NONE
Tract: 7696
Location: Fauquier
Slope Class: B Hydrologic Group: C

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

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

Soil Test Results:

DATE	PH	P	K	Lab
Wi-2015	6.2	L+(18 P ppm)	M(102 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	14B	Sowego
39	71B	Panorama
1	73B	Penn
30	73C	Penn
10	74B	Ashburn
15	77C	Arcola Nestoria
2	79A	Albano

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2015-Sp	113.9 * bushel(s)	Corn (grain) - No Till

Field Name: **FQMFS 3**
Total Acres: 52.80 Usable Acres: 52.80
FSA Number: 2, 3
Tract: 7696
Location: Fauquier
Slope Class: C Hydrologic Group: C

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
Wi-2015	6.4	L-(8 P ppm)	M-(58 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES

4	6A	Bowmansville
7	14B	Sowego
16	71B	Panorama
6	73B	Penn
5	77E	Nestoria
9	79A	Albano
3	164C	Oakhill
4	164D	Oakhill
27	73C	Penn
19	74B	Ashburn

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2015-Sp	2.5 * tons	Fescue grass (hay), maint. - No Till

Field Name: **FQMFS 4**
Total Acres: 21.70 Usable Acres: 21.70
FSA Number: NONE
Tract: 7696
Location: Fauquier
Slope Class: A Hydrologic Group: C

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
Wi-2015	6.6	L-(7 P ppm)	L(36 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
39	5A	Rowland
33	63A	Kelly
29	79A	Albano

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2015-Sp	2.4 * tons	Fescue grass (hay), maint. - No Till

Field Name: **FQMFS 5**
Total Acres: 10.10 Usable Acres: 10.10
FSA Number: NONE
Tract: 7696
Location: Fauquier
Slope Class: C Hydrologic Group: C

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
Wi-2015	5.9	L-(10 P ppm)	M-(67 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
28	6A	Bowmansville
53	77C	Arcola Nestoria
15	77E	Nestoria

5 79A Albano

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with high potential for subsurface lateral flow based on soil texture and poor 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
2015-Sp	2.7 * tons	Fescue grass (hay), maint. - No Till

Field Name: **FQMFS 6**
Total Acres: 42.50 Usable Acres: 42.50
FSA Number: NONE
Tract: 7696
Location: Fauquier
Slope Class: C Hydrologic Group: C

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
Wi-2015	7.0	M-(24 P ppm)	H-(134 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	14B	Sowego
5	73B	Penn
85	77C	Arcola Nestoria
6	77E	Nestoria

Field Warnings:
Environmentally Sensitive Soils due to:

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
2015-Sp	2.3 * tons	Fescue grass (hay), maint. - No Till

Field Name: **FQMFS 7**
Total Acres: 31.10 Usable Acres: 31.10
FSA Number: 4
Tract: 7696
Location: Fauquier
Slope Class: A Hydrologic Group: C

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
Wi-2015	5.4	L-(10 P ppm)	M-(56 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
26	5A	Rowland
67	6A	Bowmansville
7	14B	Sowego

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

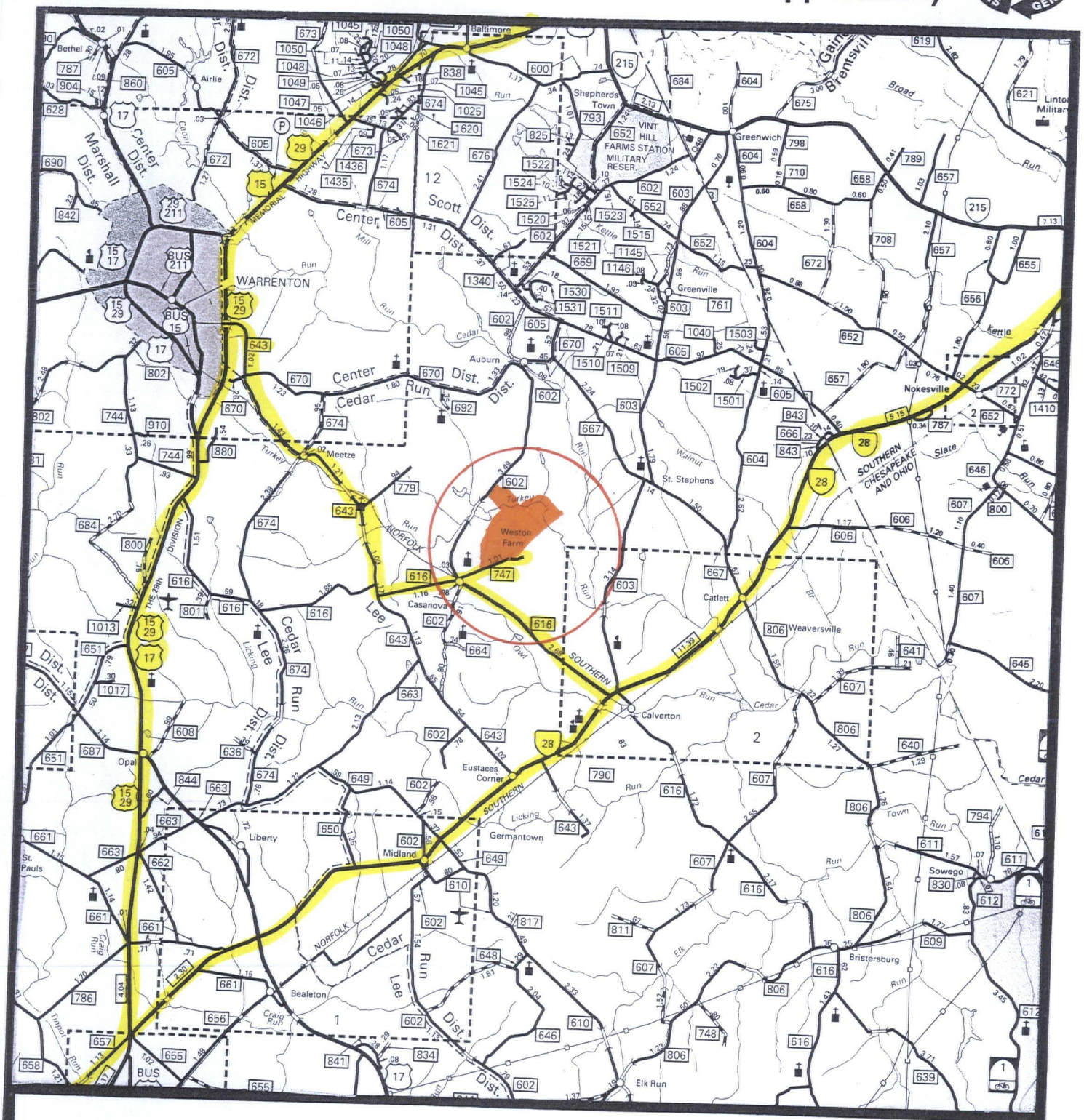
Crop Rotation:

PLANTED	YIELD	CROP NAME
2015-Sp	4.2 * tons	Fescue grass (hay), maint. - No Till

MAPS

Recyc Systems™ Inc.

(Biosolids Land Application)



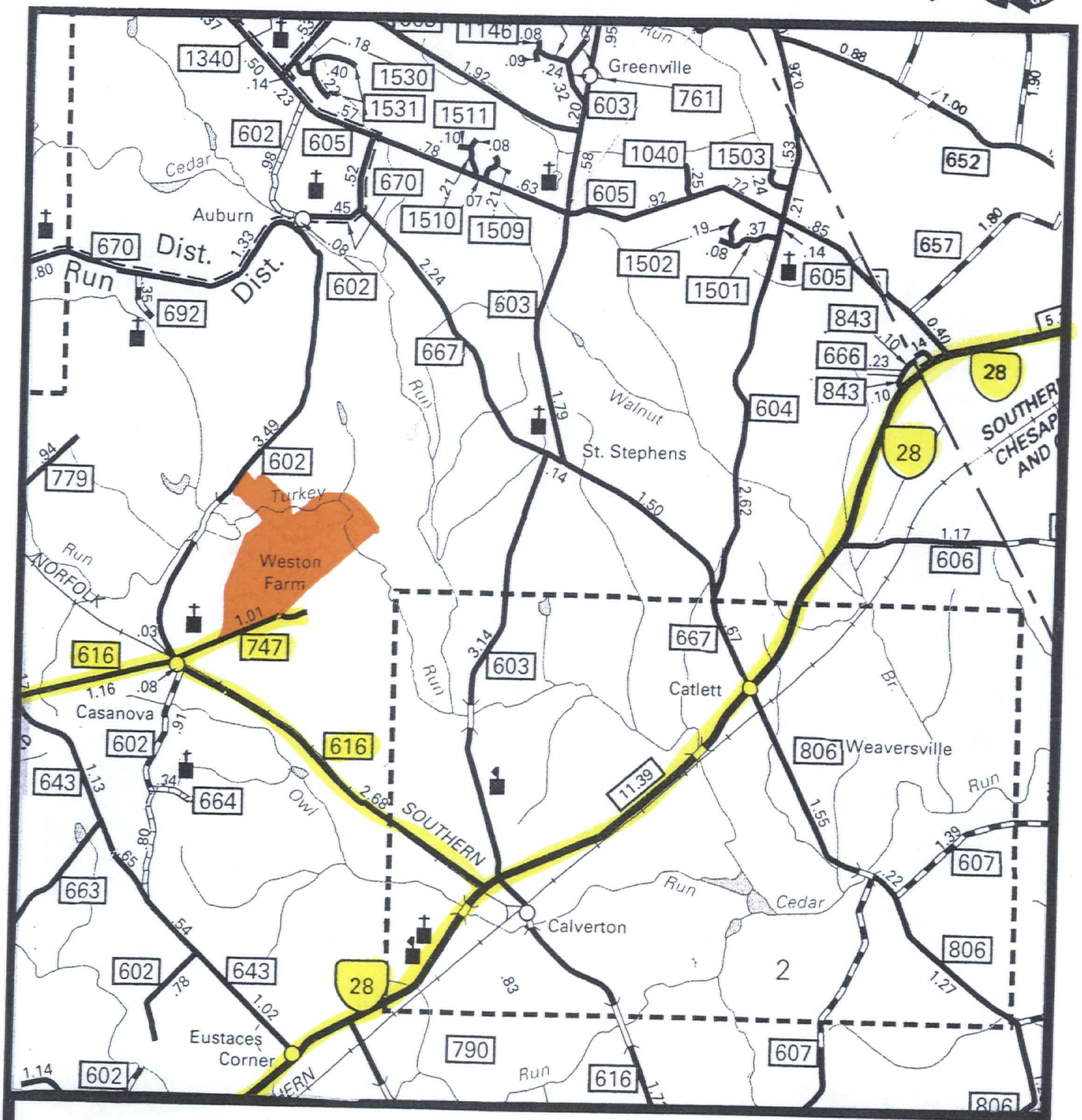
Scale: 1"= 2 miles

FQMFS 1-7

VICINITY MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



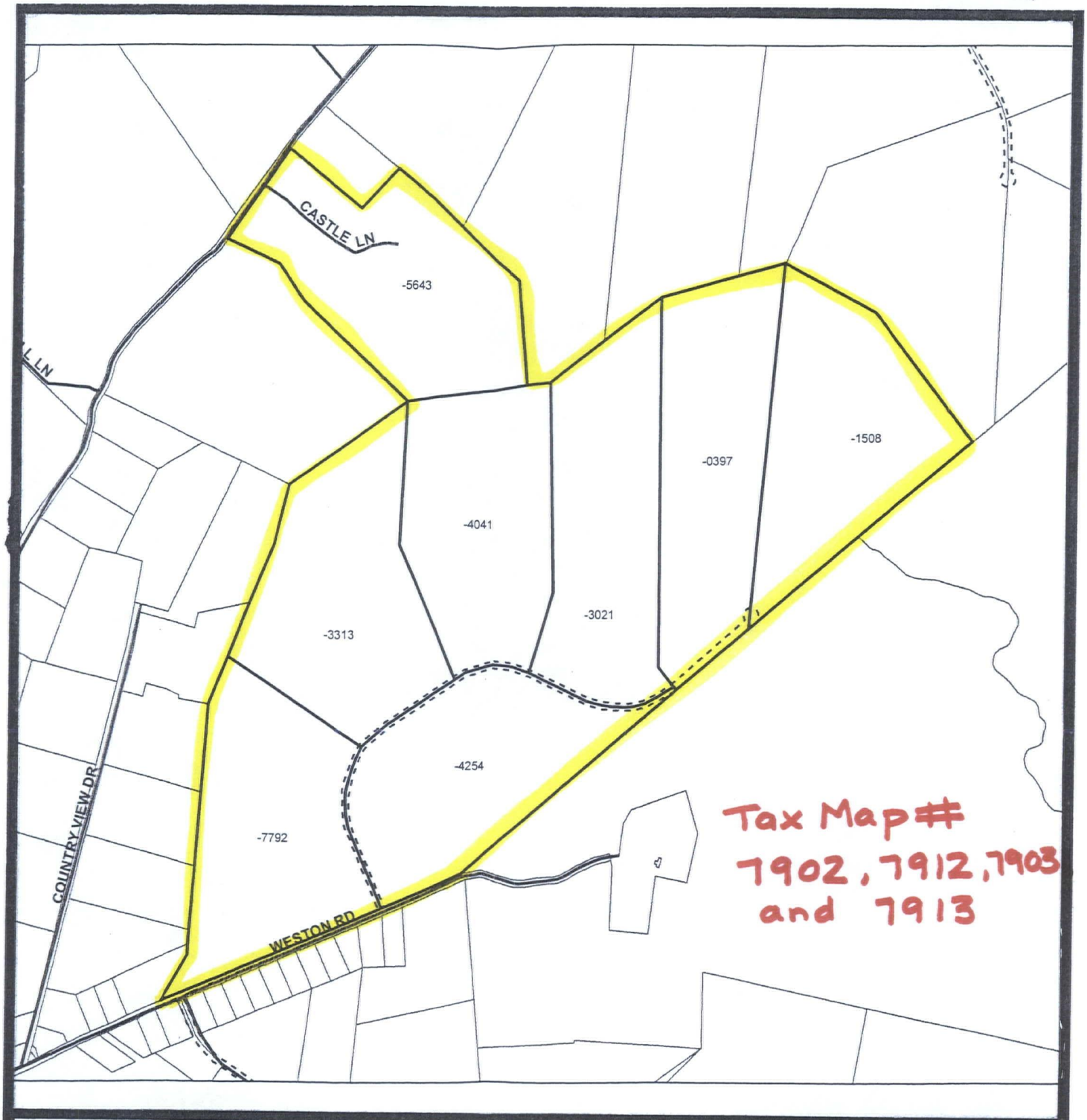
Scale: 1"= 1 mile

FQMFS 1-7

VICINITY MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



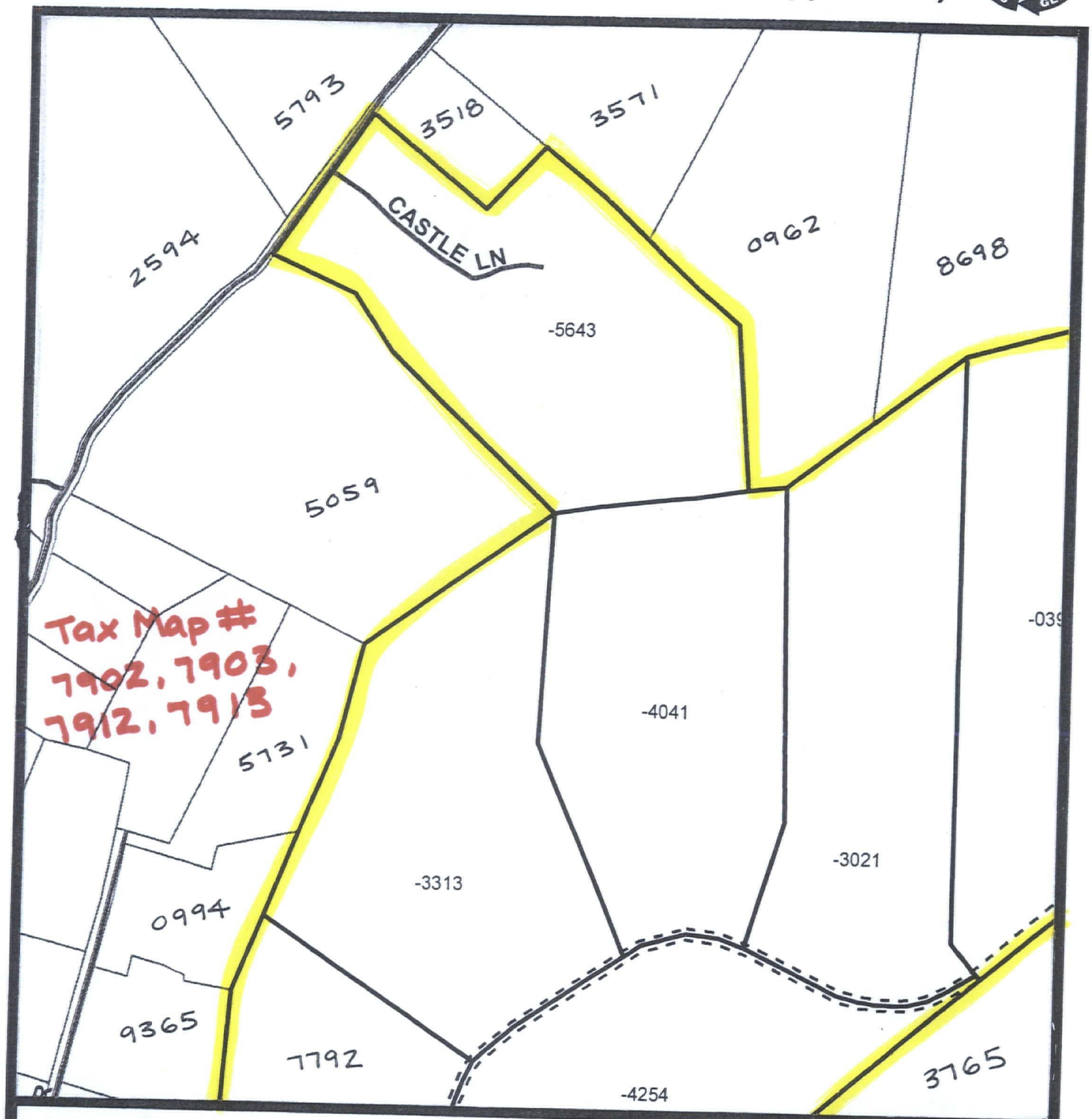
Scale: Not to scale

FQMFS 1-7

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 660 ft.

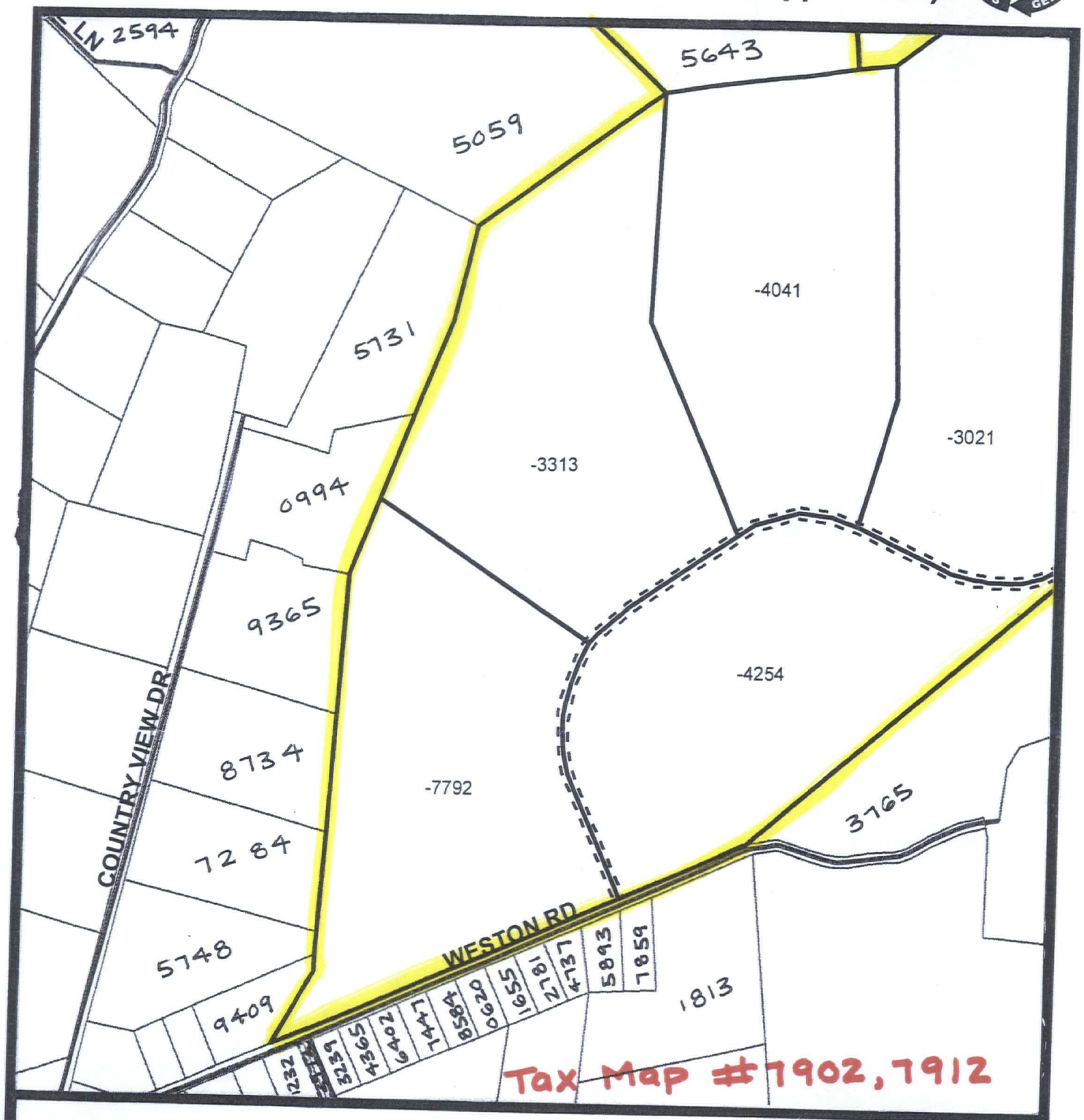
FQMFS 5-7

TAX MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



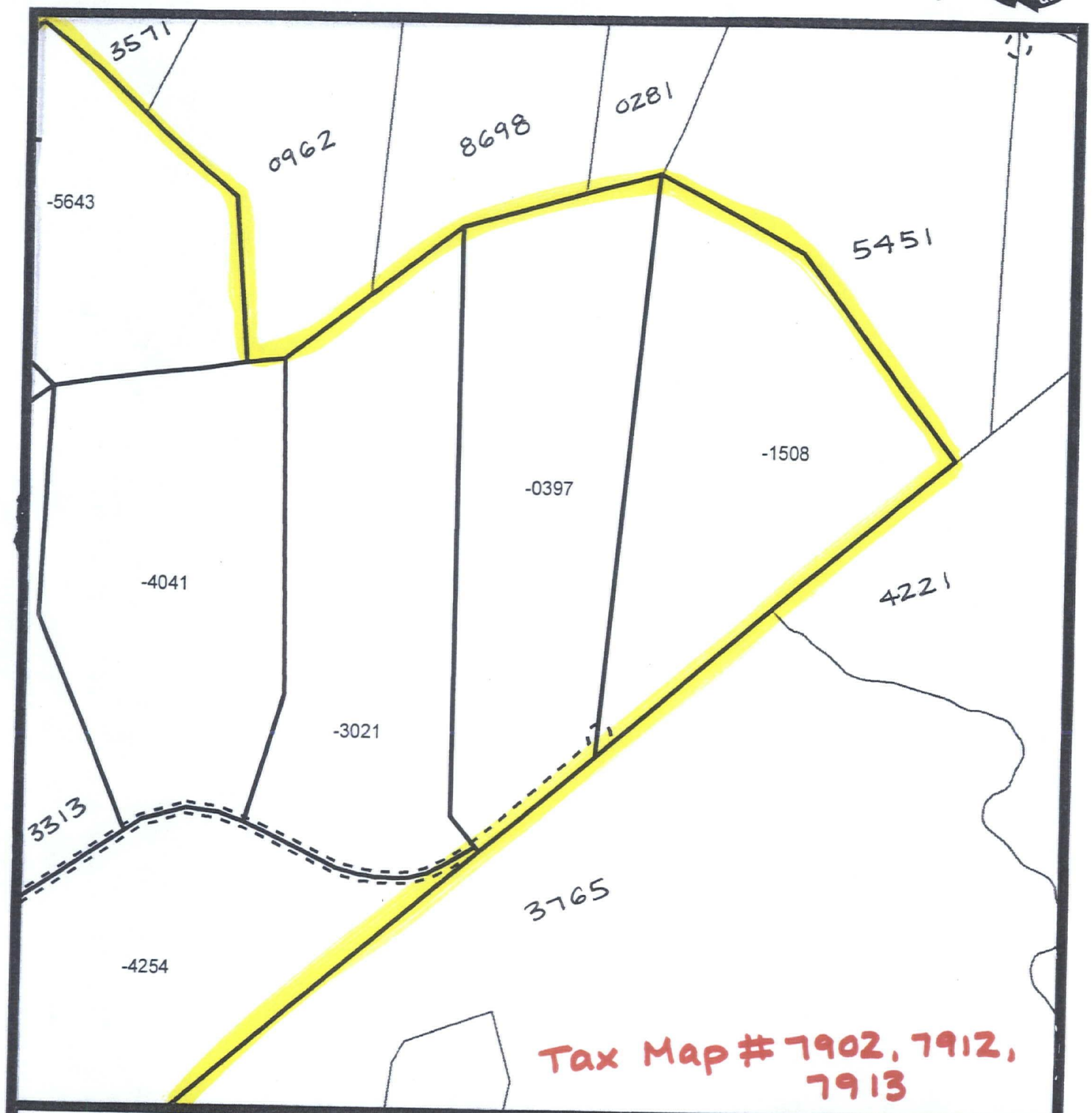
Scale: 1"= 660 ft.

FQMFS 1-2, 5-7

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 660 ft.

FQMFS 3-5

TAX MAP

N

ADJOINING LANDOWNERS

Melrose Farm

FAUQUIER COUNTY

Tax Map Parcel #	Owner Name(s)
7902-74-5748	Gino and Kathleen M. Manzo
7902-74-9409	Mary H. and William N. Wainwright
7902-75-7284	Gino and Kathleen M. Manzo
7902-75-8734	Jane M. Applegate
7902-76-9365	Dolores J. Garrett Revocable Living Trust, Dolores J. Garrett co-trustee, Dean A. Honeycutt co-trustee
7902-83-2972	John W. Jr. and Monique M. Simonton
7902-84-1232	Glen R. and Kathy L. Vaillancourt
7902-84-3239	Albert E. and Magdalena Jensen
7902-84-4365	Spencer R. Howard Jr.
7902-84-6402	Edward L. and Shirley L. Coffman
7902-84-7447	Henry M. Houston
7902-84-8584	Margaret E. Burke
7902-86-0994	Maxine C. Allen
7902-87-5731	Britteny L. Burlingham
7902-89-5059	Dorothea K. and Peter Steven Markakos
7902-94-0620	Donald R. Gotthardt Jr.
7902-94-1655	Edward Michael and Mary Jo Lawrence
7902-94-2781	Carolyn J. Gallagher
7902-94-4737	Deborah J. and John B. Thompson
7902-94-5893	Michelle L. and Thomas K. III North
7902-94-7859	Dwight O. Messick
7903-70-2594	Edward Evans Farm LLC
7903-81-5793	Edward Evans Farm LLC
7903-90-3518	Mary W. Rosessel Admin Trust, Mary W. Rosessel Trustee
7912-04-1813	William R. Miller
7912-35-3765	Commonwealth of Virginia
7912-67-4221	Still Waters Farm LLC
7913-01-3571	Edward Evans Farm LLC

Tax Map	Owner Name(s)
7913-10-0962	Edward Evans Farm LLC
7913-10-8698	Edward Evans Farm LLC
7913-30-5451	Edward Evans Farm LLC
7913-31-0281	Edward Evans Farm LLC

Recyc Systems™ Inc. (Biosolids Land Application)

Scale: 1"= 660 ft.

FQMFS 1-2, 5-7

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

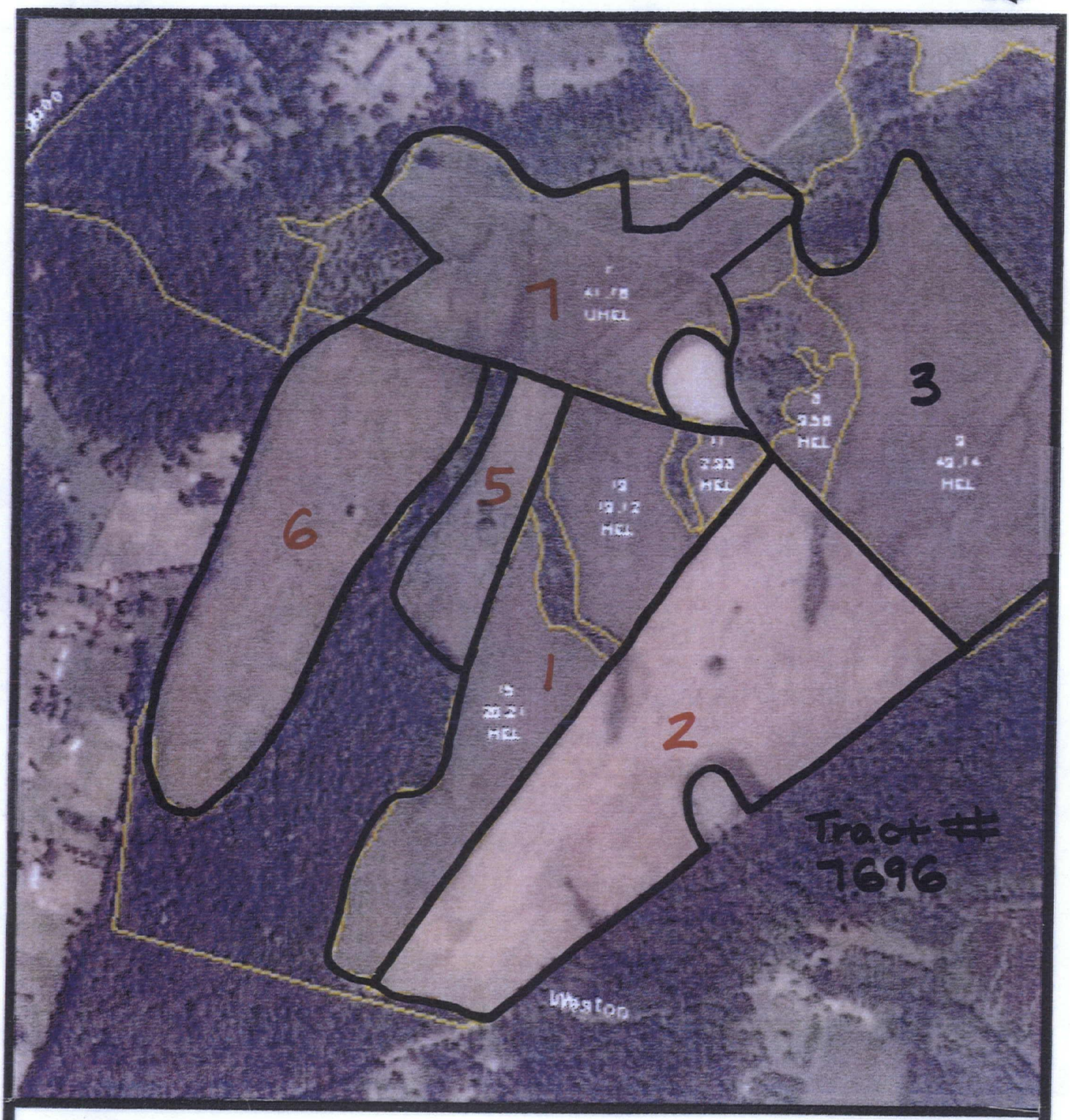
Scale: 1"= 660 ft.

FQMFS 3-5

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



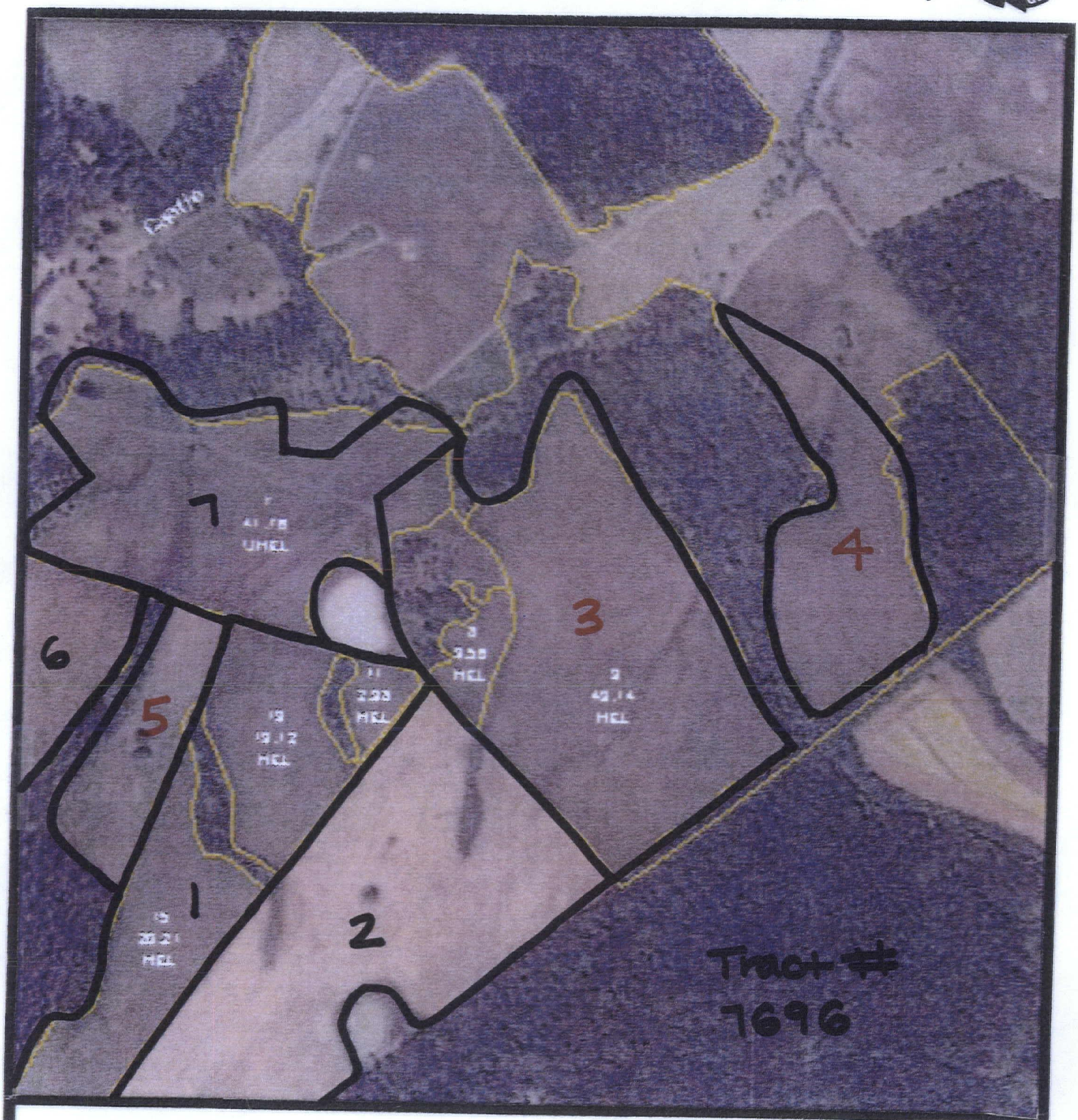
Scale: 1"= 660 ft.

FQMFS 1-2, 5-7

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



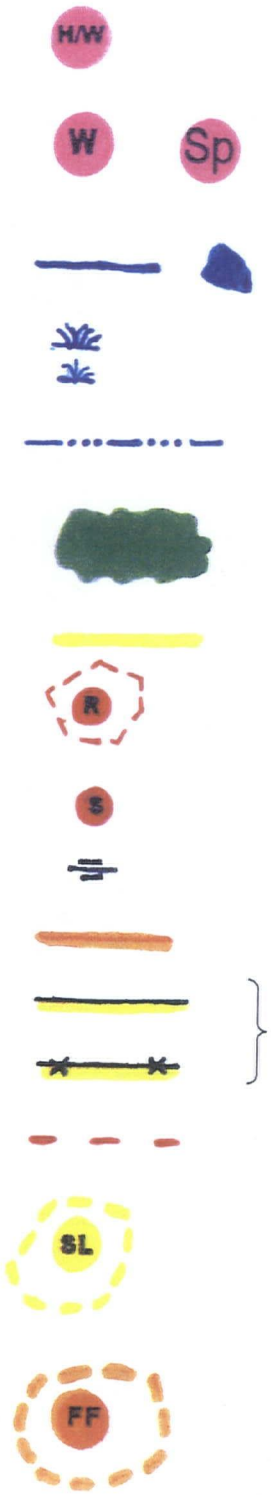
Scale: 1"= 660 ft.

FQMFS 3-5

AERIAL MAP

N

Legend for Site Plan



House and Well

Well / Spring

Perennial Streams & Surface

Wet Spot

Intermittent Stream / Drainage

Trees and Woods

Private Drive

Rock / Rocky Area

Sinkhole

Severely Eroded Spot

State Road

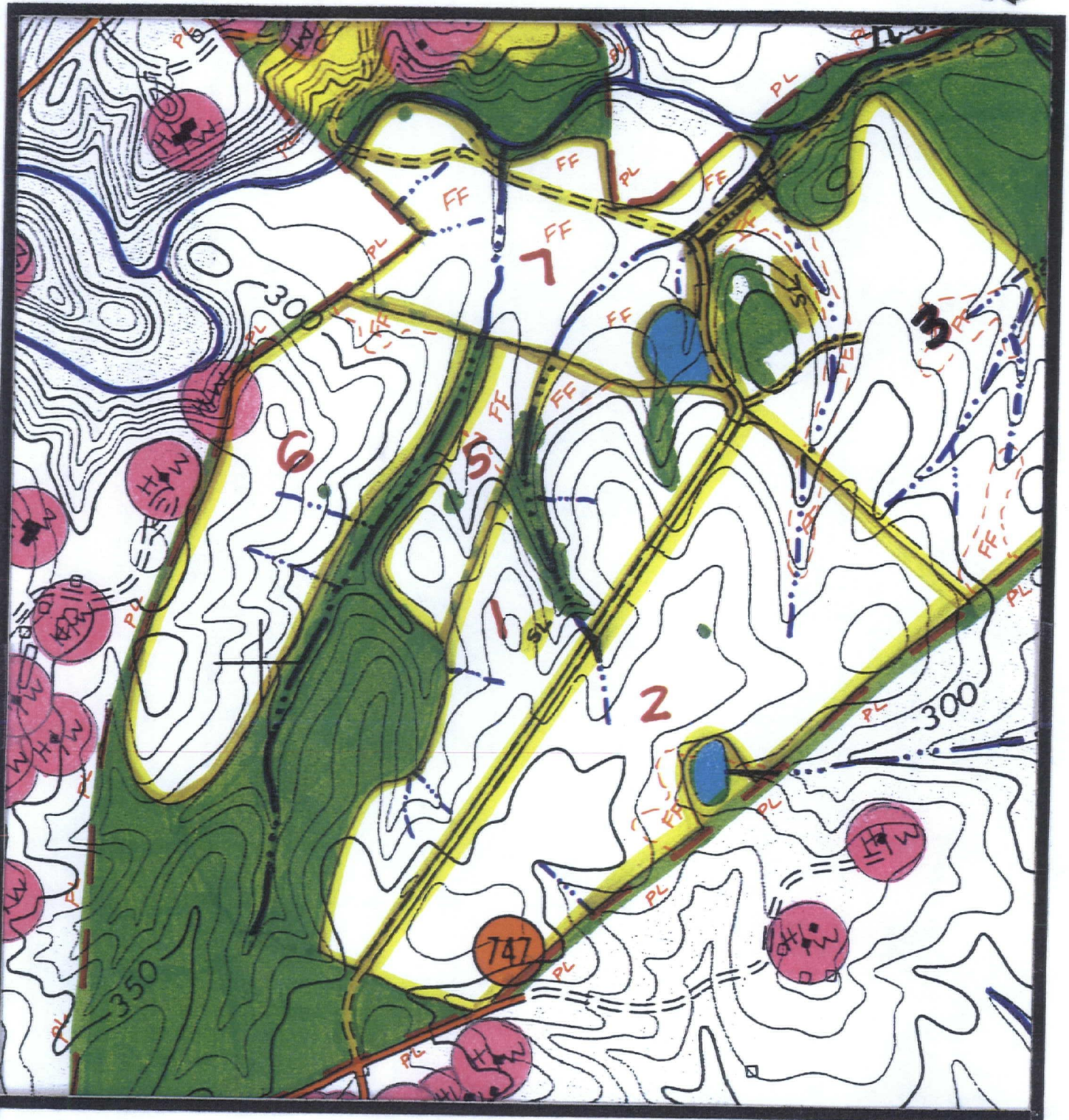
Field Boundary / Fence

Property Line

Slope

Frequent Flooded Soil

Recyc Systems™ Inc. (Biosolids Land Application)



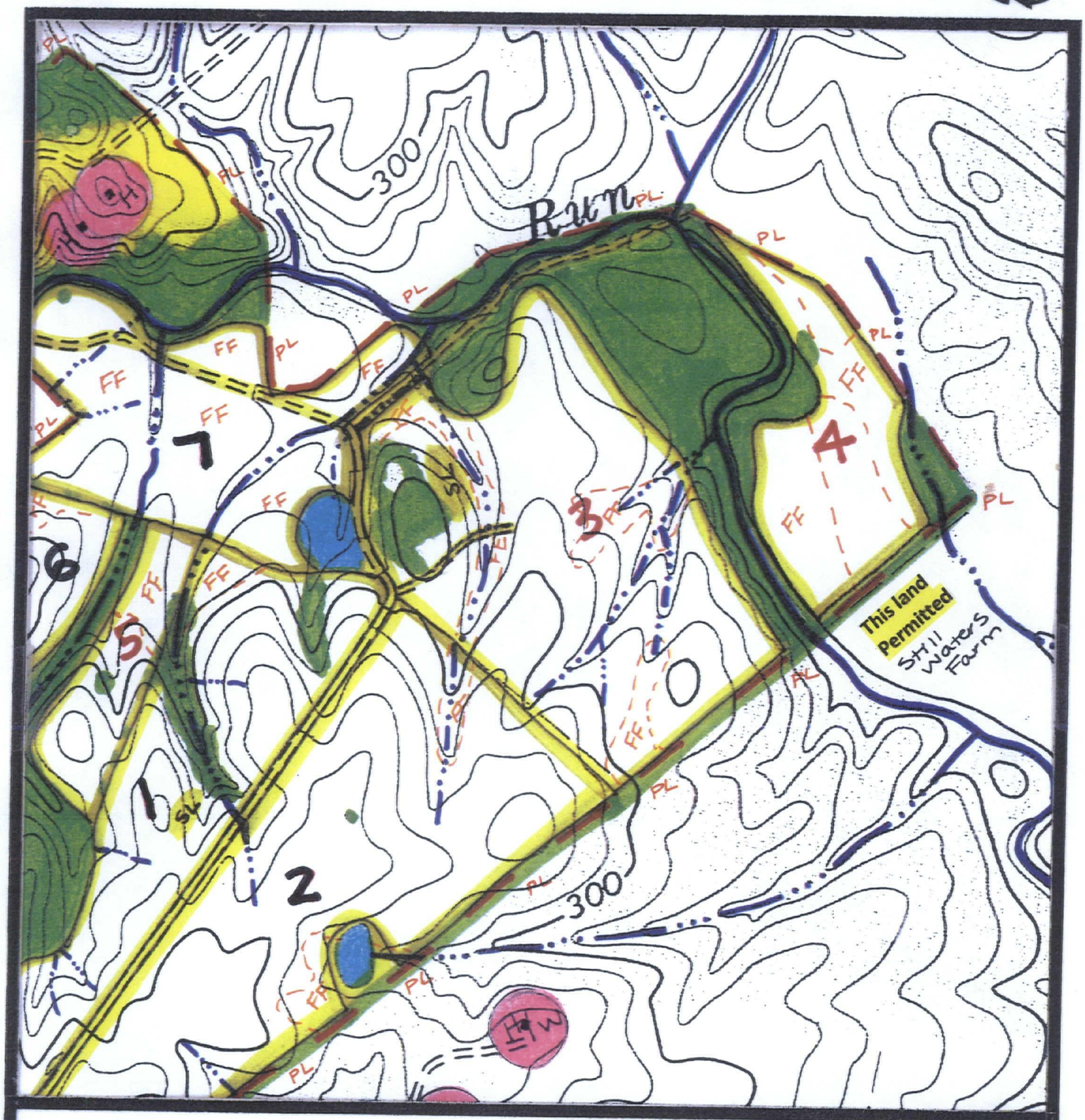
Scale: 1"= 660 ft.

FQMFS 1-2, 5-7

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



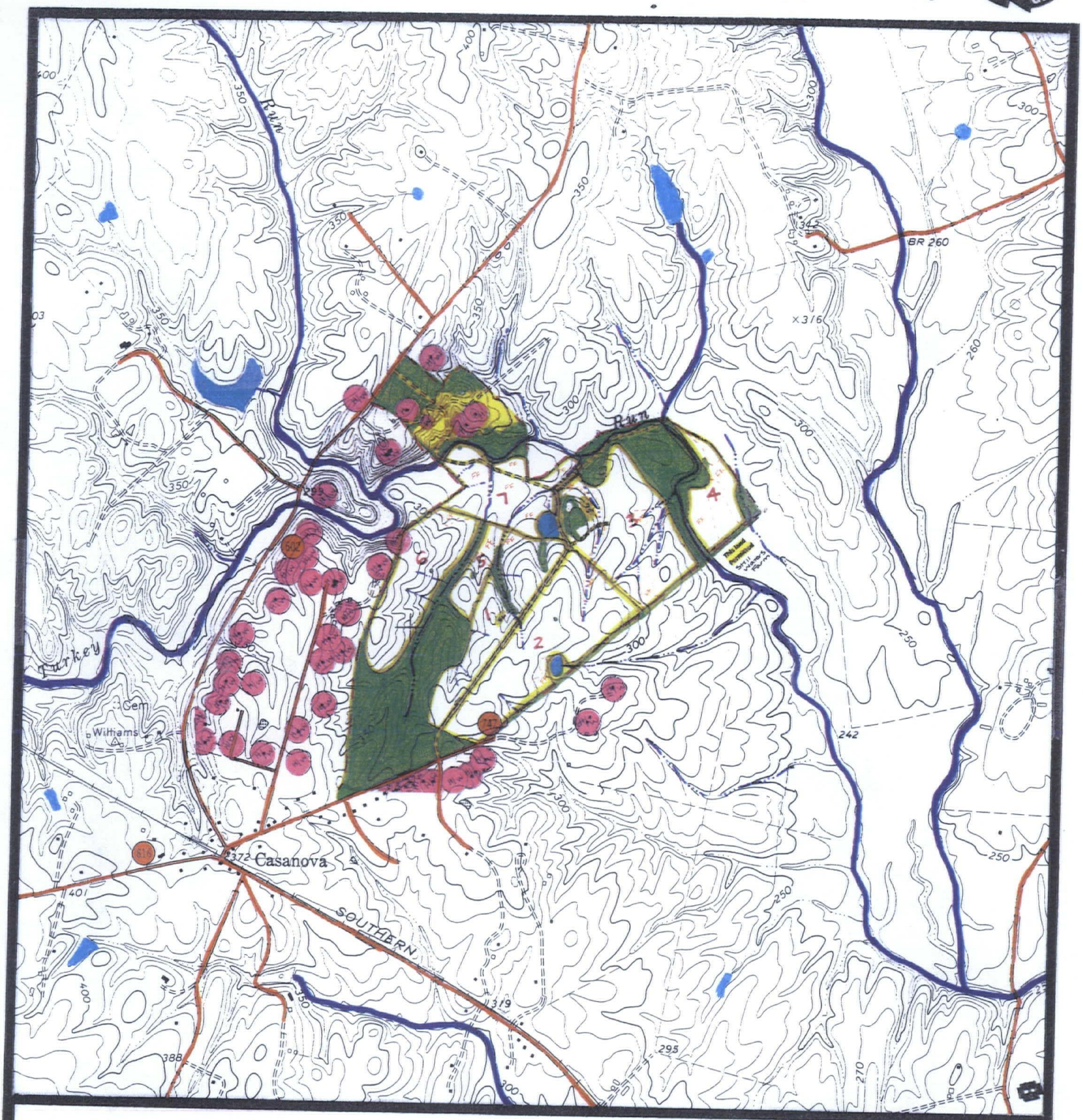
Scale: 1"= 660 ft.

FQMFS 3-5

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 2000 ft.

FQMFS 1-7

TOPOGRAPHIC MAP

N