LAND APPLICATION SITE

W. MIKE LONG

CUWML 1-43

CULPEPER COUNTY

VA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN
JUN 04 2013
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 4-18-13 between Poole Holdings LP 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 Culpeper, 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
73-37	73-40A	73B-1-1	
73-38	73-31H	73-31A	
73-36A	73-44C	73-45	
73-35C	73-44B		
73-42	73B-1-2		

☐ 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

W. Michael Long
President of Poole Holdings LP

Landowner – Printed Name, Title | Signature | Mailing Address & Phone Number

9427 Oak Park
Locust Dale, VA
22794
540-672-7255

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)

PO Box 562 Remington, Virginia 22734

Permittee – Authorized Representative Printed Name | Signature | Mailing Address

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

Permittee: Recyc Systems, Inc County or City: Culpeper

Landowner: Poole Holdings LP

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).

Michael Long President of Poole Holdings LP 4-18-13

Landowner's Signature Date

2008 N. James Madison Hwy
Locust Dale, VA 22948

Farm Operator Signature Mailing Address & Phone Number

210-287-0700

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 4-18-13 between Spotswood LP 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 Culpeper, 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
74-1	74-18A	86-27	
73-1-C	74-13		
73-40	74-9		
74-17	74-10		
86-1	74-8		

☐ 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

W. Michael Long
President of Spotswood LP
9427 Oak Park Rd
Locust Dale, VA 22948
540-672-7253

Landowner – Printed Name, Title | Signature | 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)

PO Box 562 Remington, Virginia 22734

Permittee – Authorized Representative Printed Name | Signature | Mailing Address

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

Permittee: Recyc Systems, Inc County or City: Culpeper

Landowner: Spotswood LP

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).

[signature] President of Spotswood LP 4-18-13

Landowner's Signature Date

[signature] 2008 N. James Madison Hwy
Locust Dale, VA 22948

Farm Operator Signature Mailing Address & Phone Number

210-287-0700

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

Permittee: Recyc Systems, Inc County or City: Culpeper

Landowner: Poole Holding LP, Spotswood LP

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).

X Jeff Michael Gray 2-14-2013

Landowner's Signature Date

X Roger Gough P.O. Box 174 Rapidan VA 22733

Farm Operator Signature Mailing Address & Phone Number

Roger Gough Jr 540-948-4458 Home
540-219-4837 Cell

FARM DATA SHEET

SITE NAME:	W. Mike Long	**COUNTY:**	Culpeper
OWNER:	Spotswood LP and Poole Holding LP ; W. Mike Long, President of Spotswood LP and Poole Holding LP	**OPERATOR:**	Roger Gough Jr. John P. Visosky
OWNER'S ADDRESS:	9427 Oak Park Road Locust Dale, VA 22948	**OPERATOR'S ADDRESS:**	See List Below
OWNER'S TELEPHONE:	540-672-7255	**OPERATOR'S TELEPHONE:**	See List Below
GENERAL FARM TYPE:	Row Crops/Hay/Pasture	**CELL PHONE:**	See List Below
# CATTLE:	500	**EMAIL:**	-
LAGOON or SLURRY:	Yes, but not in use.	**LATITUDE:**	F 1-15, 34-36 38°20'44" F 16-33 38°21'26" F 37-43 38°21'31"
TOPO QUAD:	Rapidan	**LONGITUDE:**	F 1-15, 34-36 78°05'22" F 16-33 78°06'05" F 37-43 78°04'25"
COMMENTS:	Roger Gough Jr. Fields 1-21, 29-43 P.O. Box 174 Rapidan, VA 22733 540-948-4458 Home 540-219-4837 Cell	John P. Visosky Fields 22-28 2008 N. James Madison Hwy Locust Dale, VA 22948 210-287-0700 Cell	

Please check fields for rock outcrops, drainage areas, and slopes 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			
CUWML 1	32.9	20A Nov.-Mar. 38B Dec.-Apr. 43B Nov.-May 51A Nov.-May	-	-	20A Dec.-Feb.	RA 37	TM 74-1	T 2881 F 1
CUWML 2	24.8	20A Nov.-Mar. 38B Dec.-Apr. 51A Nov.-May	-	-	20A Dec.-Feb.	RA 37	TM 74-1	T 2881 F 2
CUWML 3	23.9	20A Nov.-Mar. 38B Dec.-Apr.	-	-	20A Dec.-Feb.	RA 37	TM 74-1	T 2881 F 3
CUWML 4	30.8	20A Nov.-Mar. 38B Dec.-Apr. 43B Nov.-May 51A Nov.-May	-	-	20A Dec.-Feb.	RA 37	TM 74-1	T 2881 F 4
CUWML 5	104.0	38B Dec.-Apr. 39B Dec.-Apr.	-	-	13A Jan.-May	RA 36	TM 74-1	T 2881 F 6
CUWML 6	30.6	20A Nov.-Mar. 38A Dec.-Apr. 38B Dec.-Apr.	-	-	13A Jan.-May 20A Dec.-Feb.	RA 36	TM 74-1	T 2881 F 7, 41
CUWML 7	20.4	-	-	-	13A Jan.-May	RA 36	TM 74-1	T 2881 F 9
CUWML 8	49.3	-	-	-	13A Jan.-May	RA 36	TM 74-1	T 2881 F 9
CUWML 9	31.2	-	-	-	-	RA 36	TM 74-1	T 2881 F 10

CUWML 10	112.5	20A Nov.-Mar. 38A Dec.-Apr. 38B Dec.-Apr.	-	-	13A Jan.-May 20A Dec.-Feb.	RA 36	TM 74-1	T 2881 F 8
CUWML 11	30.9	20A Nov.-Mar. 38A Dec.-Apr. 38B Dec.-Apr.	-	-	20A Dec.-Feb.	RA 36	TM 74-1	T 2881 F 12
CUWML 12	37.7	38A Dec-Apr.	-	-	-	RA 36	TM 74-1	T 2881 F 12
CUWML 13	72.6	20A Nov.-Mar. 38A Dec.-Apr.	-	-	20A Dec.-Feb.	RA 36	TM 74-1	T 2881 F 12
CUWML 14	25.4	-	-	5B, 6C	-	RA 36	TM 74-1	T 2881 F 18
CUWML 15	63.1	11B Nov.-Apr.	-	6C	-	RA 36	TM 74-1	T 2881 F 20
CUWML 16	21.6	11B Nov.-Apr.	-	-	-	RA 36	TM 74-1	T 2881 F 24, 25
CUWML 17	59.7	-	-	-	-	RA 36	TM 74-1	T 2881 F 23
CUWML 18	23.3	11B Nov.-Apr.	-	-	-	RA 36	TM 73-40A	T 2881 F 22
CUWML 19	16.2	11B Nov.-Apr.	-	-	-	RA 36	TM 73-40 TM 73-1-C	T 2881 F 27
CUWML 20	50.7	11B Nov.-Apr.	-	-	-	RA 36	TM 73-40 TM 73-1-C	T 2881 F 26
CUWML 21	12.7	11B Nov.-Apr.	-	-	-	RA 36	TM 73-1-C	T 2881 F 28
CUWML 22	22.8	-	-	-	-	RA 36	TM 73-42	T 1422 F 3, 4
CUWML 23	39.8	-	-	-	-	RA 36	TM 73-42	T 1422 F 6
CUWML 24	27.7	11B Nov.-Apr.	-	-	-	RA 36	TM 73-42	T 1422 F 5

CUWML 25	25.7	-	-	-	-	RA 36	TM 73-42	T 1422 F 2
CUWML 26	34.8	-	-	-	13A Jan.-May	RA 36	TM 73-42	T 1422 F 1, 2
CUWML 27	56.4	-	-	-	13A Jan.-May	RA 36	TM 73-31H	T 2842 F 1, 2, 3, 4
CUWML 28	36.0	11B Nov.-Apr.	-	-	-	RA 36	TM 73-42	T 1422 F 7
CUWML 29	15.9	-	-	-	-	RA 36	TM 73-1-C	T 2881 F 31
CUWML 30	57.0	11B Nov.-Apr.	-	-	-	RA 36	TM 73-1-C	T 2881 F 29, 30
CUWML 31	49.6	11B Nov.-Apr.	-	-	-	RA 36	TM 73-1-C	T 2881 F 62
CUWML 32	44.6	-	-	-	-	RA 36	TM 74-1	T 2881 F 21
CUWML 33	14.4	-	-	-	-	RA 36	TM 74-1	T 2881 F 19
CUWML 34	23.2	20A Nov.-Mar. 38B Dec.-Apr. 51A Nov.-May	-	-	20A Dec.-Feb.	RA 37	TM 86-27	T 2881 F 36, 38
CUWML 35	23.3	20A Nov.-Mar. 43B Nov.-May	-	-	20A Dec.-Feb.	RA 37	TM 86-27	T 2881 F 34
CUWML 36	19.8	20A Nov.-Mar. 43B Nov.-May 51A Nov.-May	45B	-	20A Dec.-Feb.	RA 37	TM 86-27	T 2881 F 33, 35
CUWML 37	36.9	-	-	6C	-	RA 38	TM 74-1	T 2881 F 17
CUWML 38	44.7	20A Nov.-Mar. 38A Dec.-Apr.	-	-	20A Dec.-Feb.	RA 38	TM 74-1	T 2881 F 13
CUWML 39	62.6	-	-	6C, 6D	-	RA 38	TM 74-1	T 2881 F 15, 16

CUWML 40	60.6	38B Dec.-Apr. 53A Nov.-Apr.	-	-	-	RA 38	TM 74-1	T 2881 F 14, 136
CUWML 41	54.8	38B Dec.-Apr. 53A Nov.-Apr.	-	-	-	RA 38	TM 74-1	T 2881 F 14
CUWML 42	87.0	20A Nov.-Mar. 38A Dec.-Apr. 38B Dec.-Apr. 39B Dec.-Apr.	-	-	20A Dec.-Feb.	RA 38	TM 74-1	T 2881 F 14
CUWML 43	40.7	20A Nov.-Mar. 38A Dec.-Apr. 38B Dec.-Apr. 39B Dec.-Apr.	-	-	20A Dec.-Feb.	RA 38	TM 74-1	T 2881 F 14
TOTAL ACRES IN SITE	1752.6							

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: W. Mike Long

County or City: Culpeper County

Please Print Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
73-37	Poole Holding LP
73-38	Poole Holding LP
73-36A	Poole Holding LP
73-35C	Poole Holding LP
73-42	Poole Holding LP
73-40A	Poole Holding LP
73-31H	Poole Holding LP
73-44C	Poole Holding LP
73-44B	Poole Holding LP
73B-1-2	Poole Holding LP
73B-1-1	Poole Holding LP
73-31A	Poole Holding LP
73-45	Poole Holding LP
74-1	Spotswood LP
73-1-C	Spotswood LP
73-40	Spotswood LP
74-17	Spotswood LP
86-1	Spotswood LP
74-18A	Spotswood LP
74-13	Spotswood LP
74-9	Spotswood LP
74-10	Spotswood LP
74-8	Spotswood LP
86-27	Spotswood LP

Report Number: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
1 CUWML	02354	2.0	L	77	30	L			78	L	157	M	1453	H			6.6	6.87	0.6	9.3
2 CUWML	02355	1.9	L	73	26	L			61	VL	218	H	1641	H			6.8	6.90	0.3	10.5
3 CUWML	02356	3.4	M	94	22	L			58	VL	683	H	2174	M			6.1	6.66	2.7	19.4
4 CUWML	02357	2.5	L	87	31	M			67	L	191	H	1224	M			6.0	6.79	1.4	9.3
5A CUWML	02358	3.2	M	92	25	L			58	VL	478	H	1866	M			6.1	6.72	2.1	15.6

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
1 CUWML	2.2	14.1	78.1		5.9																			
2 CUWML	1.5	17.3	78.1		2.9																			
3 CUWML	0.8	29.3	56.0		13.7																			
4 CUWML	1.8	17.1	65.8		15.4																			
5A CUWML	1.0	25.5	59.8		13.7																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
1 CUWML	Adjust pH to 6.8	0	1.0				0						
2 CUWML	Adjust pH to 6.8	0	0.0				0						
3 CUWML	Adjust pH to 6.8	0	2.0				0						
4 CUWML	Adjust pH to 6.8	0	1.5				0						
5A CUWML	Adjust pH to 6.8	0	1.8				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
5B CUWML	02359	3.1	M	89	29	L			37	VL	602	H	1838	M			6.3	6.76	1.7	16.0
5C CUWML	02360	2.3	L	84	43	M			36	VL	243	H	878	M			5.7	6.76	1.7	8.2
6 CUWML	02361	1.1	L	66	89	H			74	M	88	H	492	M			5.7	6.84	0.9	4.3
7 CUWML	02362	2.0	L	81	24	L			169	H	118	H	566	L			5.3	6.74	1.9	6.2
8 CUWML	02363	3.1	M	98	28	L			145	H	161	M	1236	M			5.8	6.74	1.9	9.7

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
5B CUWML	0.6	31.4	57.4		10.5																			
5C CUWML	1.1	24.7	53.5		21.2																			
6 CUWML	4.4	17.1	57.2		21.0																			
7 CUWML	7.0	15.9	45.6		30.8																			
8 CUWML	3.8	13.8	63.7		19.1																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
5B CUWML	Adjust pH to 6.8	0	1.3				0						
5C CUWML	Adjust pH to 6.8	0	1.8				0						
6 CUWML	Adjust pH to 6.8	0	1.5				0						
7 CUWML	Adjust pH to 6.8	0	2.3				0						
8 CUWML	Adjust pH to 6.8	0	2.0				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6445

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
8B CUWML	02364	2.4	L	88	19	L			145	H	129	H	791	M			5.8	6.80	1.3	6.7
9 CUWML	02365	1.9	L	77	23	L			81	L	87	L	1260	H			6.6	6.88	0.5	7.7
10A CUWML	02367	3.2	M	102	36	M			128	H	164	H	930	M			5.6	6.74	1.9	8.3
10B CUWML	02368	1.7	L	75	14	L			20	VL	183	H	707	M			5.7	6.79	1.4	6.5
10C CUWML	02369	2.0	L	78	11	VL			81	L	208	H	779	L			5.4	6.70	2.3	8.1

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
8B CUWML	5.5	16.0	59.0		18.9																			
9 CUWML	2.7	9.4	81.8		5.9																			
10A CUWML	4.0	16.5	56.0		23.2																			
10B CUWML	0.8	23.5	54.4		21.0																			
10C CUWML	2.6	21.4	48.1		28.5																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
8B CUWML	Adjust pH to 6.8	0	1.8				0						
9 CUWML	Adjust pH to 6.8	0	1.0				0						
10A CUWML	Adjust pH to 6.8	0	2.3				0						
10B CUWML	Adjust pH to 6.8	0	1.8				0						
10C CUWML	Adjust pH to 6.8	0	2.5				0						

Comments:

Sample(s) : 9 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."

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
10D CUWML	02370	2.3	L	74	9	VL			65	VL	795	VH	1298	L			6.0	6.69	2.4	15.7
11 CUWML	02371	2.9	M	91	8	VL			194	H	318	H	1335	M			5.9	6.73	2.0	11.9
12 CUWML	02372	3.3	M	103	37	M			208	VH	187	H	1101	M			6.0	6.79	1.4	9.0
13A CUWML	02373	2.3	L	85	13	VL			81	L	168	H	1013	M			6.0	6.81	1.2	7.9
13B CUWML	02374	2.1	L	81	14	L			46	VL	214	H	838	M			5.9	6.80	1.3	7.4

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
10D CUWML	1.1	42.2	41.3		15.4																			
11 CUWML	4.2	22.3	56.1		17.1																			
12 CUWML	5.9	17.3	61.2		15.4																			
13A CUWML	2.6	17.7	64.1		15.4																			
13B CUWML	1.6	24.1	56.6		17.0																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
10D CUWML	Adjust pH to 6.8	0	2.0				0						
11 CUWML	Adjust pH to 6.8	0	2.0				0						
12 CUWML	Adjust pH to 6.8	0	1.5				0						
13A CUWML	Adjust pH to 6.8	0	1.3				0						
13B CUWML	Adjust pH to 6.8	0	1.8				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
14 CUWML	02375	3.0	M	97	100	H			42	VL	138	M	1358	H			6.1	6.80	1.3	9.3
15A CUWML	02376	2.2	L	81	45	M			110	M	107	L	1192	M			5.6	6.71	2.2	9.3
15B CUWML	02377	1.9	L	77	32	M			46	VL	96	M	1052	M			5.8	6.78	1.5	7.6
16 CUWML	02378	3.1	M	98	32	M			159	H	140	M	1292	M			5.9	6.76	1.7	9.7
17A CUWML	02379	2.2	L	83	17	L			90	M	98	M	1108	H			6.1	6.83	1.0	7.6

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
14 CUWML	1.2	12.4	73.0		13.8																			
15A CUWML	3.0	9.6	64.1		23.3																			
15B CUWML	1.6	10.5	69.2		19.1																			
16 CUWML	4.2	12.0	66.6		17.1																			
17A CUWML	3.0	10.7	72.9		13.8																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
14 CUWML	Adjust pH to 6.8	0	1.5				0						
15A CUWML	Adjust pH to 6.8	0	2.3				0						
15B CUWML	Adjust pH to 6.8	0	1.8				0						
16 CUWML	Adjust pH to 6.8	0	1.8				0						
17A CUWML	Adjust pH to 6.8	0	1.3				0						

Comments:

Sample(s) : 15A,15B,17A 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."

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
17B CUWML	02380	2.2	L	84	38	M			111	M	68	L	999	M			5.8	6.79	1.4	7.2
18 CUWML	02381	2.2	L	84	43	M			115	M	82	L	926	M			5.6	6.76	1.7	7.3
19 CUWML	02382	2.5	L	88	46	M			114	M	109	M	1232	H			6.1	6.81	1.2	8.5
20A CUWML	02383	2.1	L	82	46	M			100	M	70	L	887	M			5.6	6.77	1.6	6.9
20B CUWML	02384	2.1	L	81	33	M			157	H	113	M	1049	M			5.9	6.79	1.4	8.0

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
17B CUWML	4.0	7.9	69.4		19.1																			
18 CUWML	4.0	9.4	63.4		23.4																			
19 CUWML	3.4	10.7	72.5		13.8																			
20A CUWML	3.7	8.5	64.3		23.2																			
20B CUWML	5.0	11.8	65.6		17.0																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
17B CUWML	Adjust pH to 6.8	0	1.8				12						
18 CUWML	Adjust pH to 6.8	0	2.0				0						
19 CUWML	Adjust pH to 6.8	0	1.3				0						
20A CUWML	Adjust pH to 6.8	0	2.0				10						
20B CUWML	Adjust pH to 6.8	0	1.8				0						

Comments:

Sample(s) : 17B,18,19,20A,20B Crop: Adjust pH to 6.8

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

Sample(s) : 17B,20A Crop: Adjust pH to 6.8

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s): Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
21 CUWML	02385	2.0	L	72	36	M			115	M	225	H	1813	H			6.4	6.82	1.1	12.3
22 CUWML	02386	3.2	M	103	18	L			27	VL	136	M	1029	M			5.9	6.80	1.3	7.7
23A CUWML	02387	2.5	L	91	33	M			39	VL	118	H	730	M			5.6	6.79	1.4	6.2
23B CUWML	02388	2.5	L	91	38	M			18	VL	120	H	756	M			5.5	6.76	1.7	6.5
24 CUWML	02390	3.1	M	99	23	L			211	VH	193	H	1023	M			5.8	6.76	1.7	9.0

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
21 CUWML	2.4	15.2	73.7		9.0																			
22 CUWML	0.9	14.7	66.8		17.1																			
23A CUWML	1.6	15.9	58.9		23.2																			
23B CUWML	0.7	15.4	58.2		25.8																			
24 CUWML	6.0	17.9	56.8		19.0																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
21 CUWML	Adjust pH to 6.8	0	1.0				0						
22 CUWML	Adjust pH to 6.8	0	1.8				0						
23A CUWML	Adjust pH to 6.8	0	2.0				0						
23B CUWML	Adjust pH to 6.8	0	2.0				0						
24 CUWML	Adjust pH to 6.8	0	1.8				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
25 CUWML	02391	2.5	L	90	18	L			56	L	128	H	789	M			5.6	6.77	1.6	6.7
26 CUWML	02392	2.6	M	86	22	L			159	H	207	M	1731	H			6.6	6.86	0.7	11.5
27A CUWML	02393	1.7	L	75	39	M			33	VL	74	M	850	H			5.9	6.83	1.0	6.0
27B CUWML	02394	1.3	L	66	33	M			21	VL	98	M	1011	H			6.1	6.84	0.9	6.9
28A CUWML	02395	2.6	M	93	26	L			37	VL	133	H	712	M			5.5	6.76	1.7	6.4

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
25 CUWML	2.1	15.9	58.9		23.4																			
26 CUWML	3.5	15.0	75.3		5.9																			
27A CUWML	1.4	10.3	70.8		17.1																			
27B CUWML	0.8	11.8	73.3		13.7																			
28A CUWML	1.5	17.3	55.6		25.8																			

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: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories
7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446
www.aleastern.com

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
25 CUWML	Adjust pH to 6.8	0	2.0				0						
26 CUWML	Adjust pH to 6.8	0	1.0				0						
27A CUWML	Adjust pH to 6.8	0	1.5				6						
27B CUWML	Adjust pH to 6.8	0	1.3				0						
28A CUWML	Adjust pH to 6.8	0	2.0				0						

Comments:

Sample(s) : 27A Crop: Adjust pH to 6.8

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

Sample(s) : 27A,27B 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."

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s): Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
28B CUWML	02396	2.0	L	79	31	M			20	VL	152	H	887	M			5.6	6.76	1.7	7.5
29 CUWML	02397	2.2	L	83	41	M			57	L	97	M	982	M			5.6	6.75	1.8	7.6
30A CUWML	02398	2.9	M	92	31	M			62	VL	128	L	1640	H			6.1	6.78	1.5	10.9
30B CUWML	02399	2.2	L	81	36	M			150	H	89	L	1109	M			5.5	6.70	2.3	9.0
31A CUWML	02400	3.4	M	104	18	L			100	M	174	M	1316	M			6.0	6.78	1.5	9.8

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
28B CUWML	0.7	16.9	59.1		23.3																			
29 CUWML	1.9	10.6	64.6		23.5																			
30A CUWML	1.5	9.8	75.2		13.7																			
30B CUWML	4.3	8.2	61.6		25.7																			
31A CUWML	2.6	14.8	67.1		15.4																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
28B CUWML	Adjust pH to 6.8	0	2.0				0						
29 CUWML	Adjust pH to 6.8	0	2.3				0						
30A CUWML	Adjust pH to 6.8	0	1.5				0						
30B CUWML	Adjust pH to 6.8	0	2.5				0						
31A CUWML	Adjust pH to 6.8	0	1.5				0						

Comments:

Sample(s) : 29,30B 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."

Our reports and letters are for the exclusive and confidential use of our clients., and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0653
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
31B CUWML	02401	3.0	M	99	21	L			289	VH	171	H	811	M			5.8	6.78	1.5	7.7
32A CUWML	02402	4.0	M	113	29	L			141	M	251	H	1552	M			6.0	6.74	1.9	12.1
32B CUWML	02403	3.1	M	101	33	M			133	H	147	H	1012	M			6.0	6.81	1.2	7.8
33 CUWML	02404	3.0	M	96	38	M			83	L	183	H	1303	M			6.0	6.78	1.5	9.8

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
31B CUWML	9.6	18.5	52.7		19.0																			
32A CUWML	3.0	17.3	64.1		15.4																			
32B CUWML	4.4	15.7	64.9		15.5																			
33 CUWML	2.2	15.6	66.5		15.3																			

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: 13-120-0653
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
31B CUWML	Adjust pH to 6.8	0	1.8				0						
32A CUWML	Adjust pH to 6.8	0	1.8				0						
32B CUWML	Adjust pH to 6.8	0	1.3				0						
33 CUWML	Adjust pH to 6.8	0	1.5				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0654
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
34	02405	2.2	L	78	28	L			123	M	349	H	1236	M			5.9	6.74	1.9	11.4

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
34	2.8	25.5	54.2		17.1																			

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: 13-120-0654
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:
W. MIKE LONG
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
34	Adjust pH to 6.8	0	2.0				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0701
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:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
35	02415	2.5	L	89	47	M			142	H	131	M	1030	M			5.9	6.79	1.4	8.0
36	02416	3.2	M	99	59	H			215	VH	292	H	1134	M			5.9	6.75	1.8	10.4
37A	02417	3.5	M	108	23	L			244	VH	198	H	962	M			6.0	6.80	1.3	8.4
37B	02418	4.0	M	116	29	L			302	VH	217	H	1132	M			6.1	6.80	1.3	9.6
38A	02419	2.5	L	90	16	L			105	M	152	H	835	M			6.0	6.83	1.0	6.8

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
35	4.6	13.6	64.4		17.1																			
36	5.3	23.4	54.5		17.2																			
37A	7.4	19.6	57.3		15.4																			
37B	8.1	18.8	59.0		13.7																			
38A	4.0	18.6	61.4		15.3																			

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: 13-120-0701
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:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
35	Adjust pH to 6.8	0	1.8				0						
36	Adjust pH to 6.8	0	2.0				0						
37A	Adjust pH to 6.8	0	1.5				0						
37B	Adjust pH to 6.8	0	1.5				0						
38A	Adjust pH to 6.8	0	1.3				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0701
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
38B	02420	3.4	M	104	29	L			94	M	239	H	1246	M			6.2	6.81	1.2	9.6
39A	02421	3.4	M	104	78	H			225	VH	167	M	1318	M			6.0	6.77	1.6	10.1
39B	02423	4.5	M	122	35	M			128	M	279	H	1564	M			6.0	6.74	1.9	12.4
39C	02424	4.5	M	122	68	H			322	VH	248	H	1570	M			6.0	6.73	2.0	12.7
40A	02425	2.6	M	90	18	L			93	M	177	H	988	M			5.7	6.75	1.8	8.4

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
38B	2.5	20.7	64.9		12.2																			
39A	5.7	13.8	65.2		15.4																			
39B	2.6	18.8	63.1		15.4																			
39C	6.5	16.3	61.8		15.4																			
40A	2.8	17.6	58.8		21.1																			

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: 13-120-0701
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:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
38B	Adjust pH to 6.8	0	1.3				0						
39A	Adjust pH to 6.8	0	1.5				0						
39B	Adjust pH to 6.8	0	1.8				0						
39C	Adjust pH to 6.8	0	1.8				0						
40A	Adjust pH to 6.8	0	2.0				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0701
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:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
40B	02426	2.5	L	89	14	L			44	VL	181	H	995	M			5.9	6.79	1.4	8.0
41A	02427	2.5	L	88	10	VL			43	VL	169	H	1136	M			6.0	6.80	1.3	8.5
41B	02428	3.9	M	110	18	L			53	VL	316	H	1462	M			5.8	6.69	2.4	12.4
42A	02429	3.8	M	110	25	L			70	L	283	H	1314	M			5.7	6.69	2.4	11.5
42B	02430	3.1	M	93	16	L			73	L	409	H	1417	M			5.8	6.68	2.5	13.2

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
40B	1.4	18.9	62.2		17.1																			
41A	1.3	16.6	66.8		15.4																			
41B	1.1	21.2	59.0		19.1																			
42A	1.6	20.5	57.1		21.1																			
42B	1.4	25.8	53.7		19.0																			

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: 13-120-0701
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:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
40B	Adjust pH to 6.8	0	1.8				0						
41A	Adjust pH to 6.8	0	1.5				0						
41B	Adjust pH to 6.8	0	2.3				0						
42A	Adjust pH to 6.8	0	2.3				0						
42B	Adjust pH to 6.8	0	2.3				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

Report Number: 13-120-0701
Account Number: 70594

A&L Eastern Laboratories

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

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

Grower:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2013 **Date Of Analysis:** 05/01/2013 **Date Of Report:** 05/02/2013

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
43A	02431	2.9	M	87	23	L			101	L	441	H	1497	M			5.7	6.63	3.0	14.5
43B	02432	2.8	M	90	18	L			48	VL	430	H	1024	L			5.8	6.72	2.1	10.9

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
43A	1.8	25.3	51.6		21.0																			
43B	1.1	32.9	47.0		19.0																			

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: 13-120-0701
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:
W MIKE LONG/CUWML
CULPEPER

Submitted By: BB
Farm ID:

Date Received: 04/30/2013
Date Of Report: 05/02/2013

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
43A	Adjust pH to 6.8	0	2.5				0						
43B	Adjust pH to 6.8	0	2.0				0						

Comments:

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

Our reports and letters are for the exclusive and confidential use of our clients,, and may not be reproduced in whole or part, nor may any reference be made to the work,the results, or the company in any advertising, news release, or other public anouncements without obtaining our prior written authorization. Copy right 1977.

Pauric McGroary

Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2013-Summer, 2015)
W. Mike Long
Planner: Recyc Systems, Inc

Tract: 1422 Location: Culpeper
(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	
3, 4/CUWML 22(N)	23/23	2013	Fescue grass hay mt.	90-100-220	0/0				90-100-220	N/A			
6/CUWML 23(N)	40/40	2013	Fescue grass hay mt.	90-80-220	0/0				90-80-220	N/A			
5/CUWML 24(N)	28/28	2013	Grass Pasture	50-90-0	0/0				50-90-0	N/A			
2/CUWML 25(N)	26/26	2013	Grass Pasture	50-100-90	0/0				50-100-90	N/A			
1, 2/CUWML 26(N)	35/35	2013	Grass Pasture	50-90-0	0/0				50-90-0	N/A			
7/CUWML 28(N)	36/36	2013	Fescue grass hay mt.	90-90-220	0/0				90-90-220	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2842 Location: Culpeper
(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	
1, 2, 3, 4/CUWML 27(N)	56/56	2013	Fescue grass hay mt.	90-80-220	0/0				90-80-220	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 2881 Location: Culpeper
(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
1/CUWML 1(N)	33/33	2013	Corn (grain)	80-60-60	20/0				60-60-60	N/A		
2/CUWML 2(N)	25/25	2013	Corn (grain)	80-80-80	20/0				60-80-80	N/A		
3/CUWML 3(N)	24/24	2013	Fescue grass hay mt.	70-60-110	0/0				70-60-110	N/A		
4/CUWML 4(N)	31/31	2013	Fescue grass hay mt.	70-50-110	0/0				70-50-110	N/A		
6/CUWML 5(N)	104/104	2013	Fescue grass hay mt.	70-60-110	0/0				70-60-110	N/A		
7, 41/CUWML 6(N)	31/31	2013	Corn (grain)	160-40-80	20/0				140-40-80	N/A		
9/CUWML 7(N)	20/20	2013	Fescue grass hay mt.	90-90-90	0/0				90-90-90	N/A		
9/CUWML 8(N)	49/49	2013	Fescue grass hay mt.	90-90-145	0/0				90-90-145	N/A		
10/CUWML 9(N)	31/31	2013	Corn (grain)	130-80-60	20/0				110-80-60	N/A		
8/CUWML 10(N)	113/113	2013	Grass Pasture	50-30-0	0/0				50-30-0	N/A		
12/CUWML 11(N)	31/31	2013	Grass Pasture	50-60-0	0/0				50-60-0	N/A		
12/CUWML 12(N)	38/38	2013	Grass Pasture	50-30-0	0/0				50-30-0	N/A		
12/CUWML 13(N)	73/73	2013	Grass Pasture	50-50-40	0/0				50-50-40	N/A		
18/CUWML 14(N)	25/25	2013	Soybeans (FS)	0-30-80	0/0				0-30-80	N/A		
20/CUWML 15(N)	63/63	2013	Corn (grain)	140-40-40	20/0				120-40-40	N/A		
24, 25/CUWML 16(N)	22/22	2013	Corn (grain)	140-60-30	20/0				120-60-30	N/A		
23/CUWML 17(N)	60/60	2013	Corn (grain)	140-80-60	20/0				120-80-60	N/A		
22/CUWML 18(N)	23/23	2013	Corn (grain)	140-40-40	20/0				120-40-40	N/A		
27/CUWML 19(N)	16/16	2013	Corn (grain)	140-40-40	20/0				120-40-40	N/A		
26/CUWML 20(N)	51/51	2013	Corn (grain)	140-40-80	20/0				120-40-80	N/A		
28/CUWML 21(N)	13/13	2013	Corn (grain)	140-60-40	20/0				120-60-40	N/A		
31/CUWML 29(N)	16/16	2013	Soybeans (FS)	0-40-80	0/0				0-40-80	N/A		
29, 30/CUWML 30(N)	57/57	2013	Soybeans (FS)	0-60-80	0/0				0-60-80	N/A		
62/CUWML 31(N)	50/50	2013	Grass Pasture	50-100-80	0/0				50-100-80	N/A		
21/CUWML 32(N)	45/45	2013	Grass Pasture	50-80-0	0/0				50-80-0	N/A		
19/CUWML 33(N)	14/14	2013	Fescue grass hay mt.	90-80-170	0/0				90-80-170	N/A		
36, 38/CUWML 34(N)	23/23	2013	Corn (grain)	80-80-40	20/0				60-80-40	N/A		
34/CUWML 35(N)	23/23	2013	Corn (grain)	80-40-40	20/0				60-40-40	N/A		
33, 35/CUWML 36(N)	20/20	2013	Fescue grass hay mt.	70-40-40	0/0				70-40-40	N/A		

Tract: 2881 Location: Culpeper

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	
17/CUWML 37(N)	37/37	2013	Grass Pasture	50-30-0	0/0				50-30-0	N/A			
13/CUWML 38(N)	45/45	2013	Grass Pasture	50-40-40	0/0				50-40-40	N/A			
15, 16/CUWML 39(N)	63/63	2013	Grass Pasture	50-0-0	0/0				50-0-0	N/A			
14, 136/CUWML 40(N)	61/61	2013	Grass Pasture	50-40-40	0/0				50-40-40	N/A			
14/CUWML 41(N)	55/55	2013	Grass Pasture	50-60-60	0/0				50-60-60	N/A			
14/CUWML 42(N)	87/87	2013	Grass Pasture	50-30-50	0/0				50-30-50	N/A			
14/CUWML 43(N)	41/41	2013	Grass Pasture	50-30-40	0/0				50-30-40	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
1422	CUWML 22	23	2013-Sp	L+ (18 P ppm)	L (27 K ppm)	A&L MIII	5.9		
1422	CUWML 23	40	2013-Sp	M (33 P ppm)	L (39 K ppm)	A&L MIII	5.6		
1422	CUWML 24	28	2013-Sp	M- (23 P ppm)	H+ (211 K ppm)	A&L MIII	5.8		
1422	CUWML 25	26	2013-Sp	L+ (18 P ppm)	M- (56 K ppm)	A&L MIII	5.6		
1422	CUWML 26	35	2013-Sp	M- (22 P ppm)	H (159 K ppm)	A&L MIII	6.6		
1422	CUWML 28	36	2013-Sp	M- (26 P ppm)	L (37 K ppm)	A&L MIII	5.5		
2842	CUWML 27	56	2013-Sp	M (39 P ppm)	L (33 K ppm)	A&L MIII	5.9		
2881	CUWML 1	33	2013-Sp	M (30 P ppm)	M (78 K ppm)	A&L MIII	6.6		
2881	CUWML 2	25	2013-Sp	M- (26 P ppm)	M- (61 K ppm)	A&L MIII	6.8		
2881	CUWML 3	24	2013-Sp	M- (22 P ppm)	M- (58 K ppm)	A&L MIII	6.1		
2881	CUWML 4	31	2013-Sp	M (31 P ppm)	M- (67 K ppm)	A&L MIII	6.		
2881	CUWML 5	104	2013-Sp	M- (25 P ppm)	M- (58 K ppm)	A&L MIII	6.1		
2881	CUWML 6	31	2013-Sp	H (89 P ppm)	M (74 K ppm)	A&L MIII	5.7		
2881	CUWML 7	20	2013-Sp	M- (24 P ppm)	H (169 K ppm)	A&L MIII	5.3		
2881	CUWML 8	49	2013-Sp	M- (28 P ppm)	H- (145 K ppm)	A&L MIII	5.8		
2881	CUWML 9	31	2013-Sp	M- (23 P ppm)	M (81 K ppm)	A&L MIII	6.6		
2881	CUWML 10	113	2013-Sp	M (36 P ppm)	H- (128 K ppm)	A&L MIII	5.6		
2881	CUWML 11	31	2013-Sp	L- (8 P ppm)	H (194 K ppm)	A&L MIII	5.9		
2881	CUWML 12	38	2013-Sp	M (37 P ppm)	H+ (208 K ppm)	A&L MIII	6.		
2881	CUWML 13	73	2013-Sp	L (13 P ppm)	M (81 K ppm)	A&L MIII	6.		
2881	CUWML 14	25	2013-Sp	H (100 P ppm)	L+ (42 K ppm)	A&L MIII	6.1		
2881	CUWML 15	63	2013-Sp	M+ (45 P ppm)	M+ (110 K ppm)	A&L MIII	5.6		
2881	CUWML 16	22	2013-Sp	M (32 P ppm)	H (159 K ppm)	A&L MIII	5.9		
2881	CUWML 17	60	2013-Sp	L+ (17 P ppm)	M (90 K ppm)	A&L MIII	6.1		
2881	CUWML 18	23	2013-Sp	M+ (43 P ppm)	M+ (115 K ppm)	A&L MIII	5.6		
2881	CUWML 19	16	2013-Sp	M+ (46 P ppm)	M+ (114 K ppm)	A&L MIII	6.1		
2881	CUWML 20	51	2013-Sp	H- (46 P lbs/acre)	M- (100 K lbs/acre)	Virginia Tech	5.6		
2881	CUWML 21	13	2013-Sp	M (36 P ppm)	M+ (115 K ppm)	A&L MIII	6.4		
2881	CUWML 29	16	2013-Sp	M+ (41 P ppm)	M- (57 K ppm)	A&L MIII	5.6		
2881	CUWML 30	57	2013-Sp	M (31 P ppm)	M- (62 K ppm)	A&L MIII	6.1		
2881	CUWML 31	50	2013-Sp	L+ (18 P ppm)	M (100 K ppm)	A&L MIII	6.		
2881	CUWML 32	45	2013-Sp	M (29 P ppm)	H- (141 K ppm)	A&L MIII	6.		
2881	CUWML 33	14	2013-Sp	M (38 P ppm)	M (83 K ppm)	A&L MIII	6.		
2881	CUWML 34	23	2013-Sp	M- (28 P ppm)	M+ (123 K ppm)	A&L MIII	5.9		
2881	CUWML 35	23	2013-Sp	H- (47 P ppm)	H- (142 K ppm)	A&L MIII	5.9		
2881	CUWML 36	20	2013-Sp	H- (59 P ppm)	H+ (215 K ppm)	A&L MIII	5.9		

2881	CUWML 37	37	2013-Sp	M- (23 P ppm)	VH (244 K ppm)	A&L MIII	6.
2881	CUWML 38	45	2013-Sp	L+ (16 P ppm)	M (105 K ppm)	A&L MIII	6.
2881	CUWML 39	63	2013-Sp	H (78 P ppm)	VH (225 K ppm)	A&L MIII	6.
2881	CUWML 40	61	2013-Sp	L+ (18 P ppm)	M (93 K ppm)	A&L MIII	5.7
2881	CUWML 41	55	2013-Sp	L- (10 P ppm)	L+ (43 K ppm)	A&L MIII	6.
2881	CUWML 42	87	2013-Sp	M- (25 P ppm)	M- (70 K ppm)	A&L MIII	5.7
2881	CUWML 43	41	2013-Sp	M- (23 P ppm)	M (101 K ppm)	A&L MIII	5.7

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1422	1422/3, 4	CUWML 22	23	Rapidan	IIIa	I	II	II	
	1422/6	CUWML 23	40	Rapidan	IIIa	II	III	II	
	1422/5	CUWML 24	28	Rapidan	IIb	II	II	II	
	1422/2	CUWML 25	26	Rapidan	IIIa	II	III	II	
	1422/1, 2	CUWML 26	35	Rapidan	IIIb	II	III	II	
	1422/7	CUWML 28	36	Rapidan	IIIa	II	III	II	
2842	2842/1, 2, 3	CUWML 27	56	Comus	Ia	I	I	I	
2881	2881/1	CUWML 1	33	Sycoline	V	V	Not Suited	IV	
	2881/2	CUWML 2	25	Sycoline	V	V	Not Suited	IV	
	2881/3	CUWML 3	24	Jackland	V	V	Not Suited	IV	
	2881/4	CUWML 4	31	Jackland	V	V	Not Suited	IV	
	2881/6	CUWML 5	104	Jackland	IVb	IV	III	III	
	2881/7, 41	CUWML 6	31	Comus	IIa	II	II	II	
	2881/9	CUWML 7	20	Rapidan	IIIa	II	III	II	
	2881/9	CUWML 8*	49	Rapidan	IIIb	II	III	III	High Slope
	2881/10	CUWML 9	31	Rapidan	IIIb	II	III	II	
	2881/8	CUWML 10	113	Jackland	IVb	IV	Not Suited	III	
	2881/12	CUWML 11	31	Jackland	V	V	Not Suited	IV	
	2881/12	CUWML 12	38	Rapidan	IIIb	II	III	III	
	2881/12	CUWML 13	73	Rapidan	IVa	III	III	III	
	2881/18	CUWML 14	25	Rapidan	IIIa	I	II	II	
	2881/20	CUWML 15	63	Rapidan	IIIa	II	III	II	
	2881/24, 25	CUWML 16	22	Rapidan	IIIa	II	III	II	
	2881/23	CUWML 17	60	Rapidan	IIIa	I	II	II	
	2881/22	CUWML 18	23	Rapidan	IIIa	II	III	II	
	2881/27	CUWML 19	16	Rapidan	IIIa	I	III	II	
	2881/26	CUWML 20	51	Rapidan	IIIa	I	II	II	

2881/28	CUWML 21	13	Rapidan	IIIa	I	II	II
2881/31	CUWML 29	16	Rapidan	IIIb	II	III	II
2881/29, 30	CUWML 30	57	Rapidan	IIIa	I	II	II
2881/62	CUWML 31	50	Rapidan	IIIb	II	III	II
2881/21	CUWML 32	45	Rapidan	IIIb	II	III	II
2881/19	CUWML 33	14	Rapidan	IIIa	I	II	II
2881/36, 38	CUWML 34	23	Sycoline	V	V	Not Suited	IV
2881/34	CUWML 35	23	Ott	V	IV	Not Suited	IV
2881/33, 35	CUWML 36	20	Elbert	V	IV	Not Suited	IV
2881/17	CUWML 37	37	Rapidan	IIIb	II	III	II
2881/13	CUWML 38	45	Rapidan	IVa	III	III	III
2881/15, 16	CUWML 39	63	Rapidan	IIIb	II	III	III
2881/14, 136	CUWML 40	61	Rapidan	IVb	IV	III	III
2881/14	CUWML 41	55	Waxpool	V	V	Not Suited	IV
2881/14	CUWML 42	87	Jackland	IVb	IV	Not Suited	III
2881/14	CUWML 43	41	Jackland	V	V	Not Suited	IV

* 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, 2013 - Summer, 2015**

Farm Name: **W. Mike Long**
Location: Culpeper
Specialist: Recyc Systems, Inc
N-based Acres: 1752.6
P-based Acres: 0.0

Tract Name: **1422**
FSA Number: 1422
Location: Culpeper

Field Name: **CUWML 22**
Total Acres: 22.80 Usable Acres: 22.80
FSA Number: 3, 4
Tract: 1422
Location: Culpeper
Slope Class: B 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
Sp-2013	5.9	L+(18 P ppm)	L(27 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES

54	47B	Rapidan
46	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.3 * tons	Fescue grass (hay), maint. - No Till

Field Name: **CUWML 23**

Total Acres:	39.80	Usable Acres:	39.80
FSA Number:	6		
Tract:	1422		
Location:		Culpeper	
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
Sp-2013	5.6	M(33 P ppm)	L(39 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
29	47B	Rapidan
66	48C	Penn Rapidan
5	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.2 * tons	Fescue grass (hay), maint. - No Till

Field Name: **CUWML 24**

Total Acres:	27.70	Usable Acres:	27.70
FSA Number:	5		
Tract:	1422		
Location:		Culpeper	
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
Sp-2013	5.8	M-(23 P ppm)	H+(211 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
46	11B	Codorus Meadowville
5	47B	Rapidan
32	48C	Penn Rapidan
17	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.4 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 25**
Total Acres: 25.70 Usable Acres: 25.70
FSA Number: 2
Tract: 1422
Location: Culpeper
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
Sp-2013	5.6	L+(18 P ppm)	M-(56 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
34	47B	Rapidan
63	48C	Penn Rapidan
4	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.6 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 26**
Total Acres: 34.80 Usable Acres: 34.80
FSA Number: 1, 2
Tract: 1422
Location: Culpeper

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
Sp-2013	6.6	M-(22 P ppm)	H(159 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
4	13A	Comus
13	47B	Rapidan
53	48C	Penn Rapidan
30	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.7 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: CUWML 28
Total Acres: 36.00 Usable Acres: 36.00
FSA Number: 7
Tract: 1422
Location: Culpeper
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
Sp-2013	5.5	M-(26 P ppm)	L(37 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
9	11B	Codorus Meadowville
22	47B	Rapidan
67	48C	Penn Rapidan
2	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.3 * tons	Fescue grass (hay), maint. - No Till

Tract Name: **2842**
FSA Number: 2842
Location: Culpeper

Field Name: **CUWML 27**
Total Acres: 56.40 Usable Acres: 56.40
FSA Number: 1, 2, 3, 4
Tract: 2842
Location: Culpeper
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
Sp-2013	5.9	M(39 P ppm)	L(33 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
92	13A	Comus
7	48C	Penn Rapidan
1	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	4.4 * tons	Fescue grass (hay), maint. - No Till

Tract Name: **2881**
FSA Number: 2881
Location: Culpeper

Field Name: **CUWML 1**
Total Acres: 32.90 Usable Acres: 32.90
FSA Number: 1
Tract: 2881
Location: Culpeper
Slope Class: A 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
Sp-2013	6.6	M(30 P ppm)	M(78 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
8	20A	Elbert
3	38B	Haymarket Jackland
9	43B	Kelly Ott
80	51A	Kelly Sycoline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	80.0 bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 2**
Total Acres: 24.80 Usable Acres: 24.80
FSA Number: 2
Tract: 2881
Location: Culpeper
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

Sp-2013	6.8	M-(26 P ppm)	M-(61 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
3	20A	Elbert
42	38B	Haymarket Jackland
54	51A	Kelly Sycoline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	80.0 bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 3**
Total Acres: 23.90 Usable Acres: 23.90
FSA Number: 3
Tract: 2881
Location: Culpeper
Slope Class: B 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
Sp-2013	6.1	M-(22 P ppm)	M-(58 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES

12	20A	Elbert
88	38B	Haymarket Jackland

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.0 * tons	Fescue grass (hay), maint. - No Till

Field Name: **CUWML 4**
Total Acres: 30.80 Usable Acres: 30.80
FSA Number: 4
Tract: 2881
Location: Culpeper
Slope Class: B 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
Sp-2013	6.0	M(31 P ppm)	M-(67 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
27	20A	Elbert
50	38B	Haymarket Jackland
17	43B	Kelly Ott
7	51A	Kelly Sycoline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.0 tons	Fescue grass (hay), maint. - No Till

Field Name: **CUWML 5**
Total Acres: 104.00 Usable Acres: 104.00
FSA Number: 6
Tract: 2881
Location: Culpeper
Slope Class: B 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
Sp-2013	6.1	M-(25 P ppm)	M-(58 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
25	13A	Comus
64	38B	Haymarket Jackland
8	39B	Haymarket Jackland
3	42C	Montalto

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	2.0 * tons	Fescue grass (hay), maint. - No Till

Field Name: **CUWML 6**
Total Acres: 30.60 Usable Acres: 30.60
FSA Number: 7, 41
Tract: 2881
Location: Culpeper
Slope Class: A 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
Sp-2013	5.7	H(89 P ppm)	M(74 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
77	13A	Comus
2	20A	Elbert
18	38A	Haymarket Jackland
3	38B	Haymarket Jackland

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	156.9 * bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 7**
Total Acres: 20.40 Usable Acres: 20.40
FSA Number: 9
Tract: 2881
Location: Culpeper
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
Sp-2013	5.3	M-(24 P ppm)	H(169 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
21	13A	Comus
79	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.4 * tons	Fescue grass (hay), maint. - No Till

Field Name: **CUWML 8**
Total Acres: 49.30 Usable Acres: 49.30
FSA Number: 9
Tract: 2881
Location: Culpeper
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
Sp-2013	5.8	M-(28 P ppm)	H-(145 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
3	13A	Comus
3	47B	Rapidan
57	48C	Penn Rapidan
32	48D	Penn Rapidan
6	49E	Rapidan

Field Warnings:
Environmentally Sensitive Soils due to:

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.1 * tons	Fescue grass (hay), maint. - No Till

Field Name: **CUWML 9**
Total Acres: 31.20 Usable Acres: 31.20
FSA Number: 10
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	6.6	M-(23 P ppm)	M(81 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
11	47B	Rapidan
89	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	131.5 bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 10**
Total Acres: 112.50 Usable Acres: 112.50
FSA Number: 8
Tract: 2881
Location: Culpeper
Slope Class: B 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

Sp-2013	5.6	M(36 P ppm)	H-(128 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
3	13A	Comus
3	20A	Elbert
43	38A	Haymarket Jackland
14	38B	Haymarket Jackland
36	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.3 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 11**
Total Acres: 30.90 Usable Acres: 30.90
FSA Number: 12
Tract: 2881
Location: Culpeper
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
Sp-2013	5.9	L-(8 P ppm)	H(194 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
21	20A	Elbert
63	38A	Haymarket Jackland
15	38B	Haymarket Jackland
2	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	4.3 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 12**
Total Acres: 37.70 Usable Acres: 37.70
FSA Number: 12
Tract: 2881
Location: Culpeper
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
Sp-2013	6.0	M(37 P ppm)	H+(208 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
6	38A	Haymarket Jackland
94	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 13**

Total Acres:	72.60	Usable Acres:	72.60
FSA Number:	12		
Tract:	2881		
Location:		Culpeper	
Slope Class:	B	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
Sp-2013	6.0	L(13 P ppm)	M(81 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
7	20A	Elbert
32	38A	Haymarket Jackland
3	47B	Rapidan
58	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	2.7 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 14**
Total Acres: 25.40 Usable Acres: 25.40
FSA Number: 18
Tract: 2881
Location: Culpeper
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
Sp-2013	6.1	H(100 P ppm)	L+(42 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
3	5B	Catoctin Fletcherville
7	6C	Alanthus Catoctin
72	47B	Rapidan
18	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	37.4 bushel(s)	Soybeans (FS) - No Till

Field Name: **CUWML 15**
Total Acres: 63.10 Usable Acres: 63.10
FSA Number: 20
Tract: 2881

Location: Culpeper
Slope Class: C 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
Sp-2013	5.6	M+(45 P ppm)	M+(110 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
1	6C	Alanthus Catoctin
16	11B	Codorus Meadowville
20	47B	Rapidan
63	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	140.6 * bushel(s)	Corn (grain) - No Till

Field Name: CUWML 16
Total Acres: 21.60 Usable Acres: 21.60
FSA Number: 24, 25
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	5.9	M(32 P ppm)	H(159 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
7	11B	Codorus Meadowville
24	47B	Rapidan
62	48C	Penn Rapidan
6	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	137.0 * bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 17**
Total Acres: 59.70 Usable Acres: 59.70
FSA Number: 23
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	6.1	L+(17 P ppm)	M(90 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
52	47B	Rapidan
48	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	140.4 bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 18**
Total Acres: 23.30 Usable Acres: 23.30
FSA Number: 22
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	5.6	M+(43 P ppm)	M+(115 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	11B	Codorus Meadowville
28	47B	Rapidan
68	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	137.5 * bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 19**
Total Acres: 16.20 Usable Acres: 16.20
FSA Number: 27
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	6.1	M+(46 P ppm)	M+(114 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
15	11B	Codorus Meadowville
23	47B	Rapidan
62	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	141.0 * bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 20**
Total Acres: 50.70 Usable Acres: 50.70
FSA Number: 26

Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	5.6	H-(46 P lbs/acre)	M-(100 K lbs/acre)	Virginia Tech

Soils:

PERCENT	SYMBOL	SOIL SERIES
11	11B	Codorus Meadowville
34	47B	Rapidan
55	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	141.4 * bushel(s)	Corn (grain) - No Till

Field Name: CUWML 21
Total Acres: 12.70 Usable Acres: 12.70
FSA Number: 28
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	6.4	M(36 P ppm)	M+(115 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
14	11B	Codorus Meadowville
31	47B	Rapidan
56	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	141.9 bushel(s)	Corn (grain) - No Till

Field Name: CUWML 29
Total Acres: 15.90 Usable Acres: 15.90
FSA Number: 31
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	5.6	M+(41 P ppm)	M-(57 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
23	47B	Rapidan
77	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	35.4 bushel(s)	Soybeans (FS) - No Till

Field Name: **CUWML 30**
Total Acres: 57.00 Usable Acres: 57.00
FSA Number: 29, 30
Tract: 2881
Location: Culpeper
Slope Class: C 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
Sp-2013	6.1	M(31 P ppm)	M-(62 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	11B	Codorus Meadowville
43	47B	Rapidan
52	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	37.2 * bushel(s)	Soybeans (FS) - No Till

Field Name: **CUWML 31**

Total Acres:	49.60	Usable Acres:	49.60
FSA Number:	62		
Tract:	2881		
Location:		Culpeper	
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
Sp-2013	6.0	L+(18 P ppm)	M(100 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
13	11B	Codorus Meadowville
12	47B	Rapidan
53	48C	Penn Rapidan
22	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.6 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 32**
Total Acres: 44.60 Usable Acres: 44.60
FSA Number: 21
Tract: 2881
Location: Culpeper
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
Sp-2013	6.0	M(29 P ppm)	H-(141 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
38	47B	Rapidan
40	48C	Penn Rapidan
22	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.6 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 33**
Total Acres: 14.40 Usable Acres: 14.40
FSA Number: 19
Tract: 2881
Location: Culpeper

Slope Class: B 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
Sp-2013	6.0	M(38 P ppm)	M(83 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
67	47B	Rapidan
33	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.4 * tons	Fescue grass (hay), maint. - No Till

Field Name: CUWML 34
Total Acres: 23.20 Usable Acres: 23.20
FSA Number: 36, 38
Tract: 2881
Location: Culpeper
Slope Class: A 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
Sp-2013	5.9	M-(28 P ppm)	M+(123 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	20A	Elbert
30	38B	Haymarket Jackland
65	51A	Kelly Sycoline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	80.0 bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 35**
Total Acres: 23.30 Usable Acres: 23.30
FSA Number: 34
Tract: 2881
Location: Culpeper
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
Sp-2013	5.9	H-(47 P ppm)	H-(142 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
23	9A	Clover Penn
2	20A	Elbert
75	43B	Kelly Ott

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	86.4 bushel(s)	Corn (grain) - No Till

Field Name: **CUWML 36**
Total Acres: 19.80 Usable Acres: 19.80
FSA Number: 33, 35
Tract: 2881
Location: Culpeper
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
Sp-2013	5.9	H-(59 P ppm)	H+(215 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
32	9A	Clover Penn
34	20A	Elbert

3	43B	Kelly Ott
7	45B	Nestoria Penn
24	51A	Kelly Sycoline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.5 * tons	Fescue grass (hay), maint. - No Till

Field Name: CUWML 37

Total Acres:	36.90	Usable Acres:	36.90
FSA Number:	17		
Tract:	2881		
Location:		Culpeper	
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
Sp-2013	6.0	M-(23 P ppm)	VH(244 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
16	6C	Alanthus Catoctin
23	47B	Rapidan
61	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.8 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 38**

Total Acres: 44.70 Usable Acres: 44.70
FSA Number: 13
Tract: 2881
Location: Culpeper
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
Sp-2013	6.0	L+(16 P ppm)	M(105 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
3	20A	Elbert
30	38A	Haymarket Jackland
67	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	2.6 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 39**
Total Acres: 62.60 Usable Acres: 62.60
FSA Number: 15, 16
Tract: 2881
Location: Culpeper
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
Sp-2013	6.0	H(78 P ppm)	VH(225 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
5	6C	Alanthus Catoctin
3	6D	Alanthus Catoctin
75	48C	Penn Rapidan
17	48D	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	1.9 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **CUWML 40**
Total Acres: 60.60 Usable Acres: 60.60
FSA Number: 14, 136
Tract: 2881

Location: Culpeper
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
Sp-2013	5.7	L+(18 P ppm)	M(93 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
20	38B	Haymarket Jackland
51	48C	Penn Rapidan
8	48D	Penn Rapidan
21	53A	Waxpool

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	2.8 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: CUWML 41
Total Acres: 54.80 Usable Acres: 54.80
FSA Number: 14
Tract: 2881
Location: Culpeper
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
Sp-2013	6.0	L-(10 P ppm)	L+(43 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
25	38B	Haymarket Jackland
75	53A	Waxpool

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	4.3 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: CUWML 42
Total Acres: 87.00 Usable Acres: 87.00
FSA Number: 14
Tract: 2881
Location: Culpeper
Slope Class: B 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
Sp-2013	5.7	M-(25 P ppm)	M-(70 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
6	20A	Elbert
14	38A	Haymarket Jackland
26	38B	Haymarket Jackland
15	39B	Haymarket Jackland
39	48C	Penn Rapidan

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	3.3 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: CUWML 43
Total Acres: 40.70 Usable Acres: 40.70
FSA Number: 14
Tract: 2881
Location: Culpeper
Slope Class: B 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
Sp-2013	5.7	M-(23 P ppm)	M(101 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
20	20A	Elbert
10	38A	Haymarket Jackland
47	38B	Haymarket Jackland
19	39B	Haymarket Jackland
4	48C	Penn Rapidan

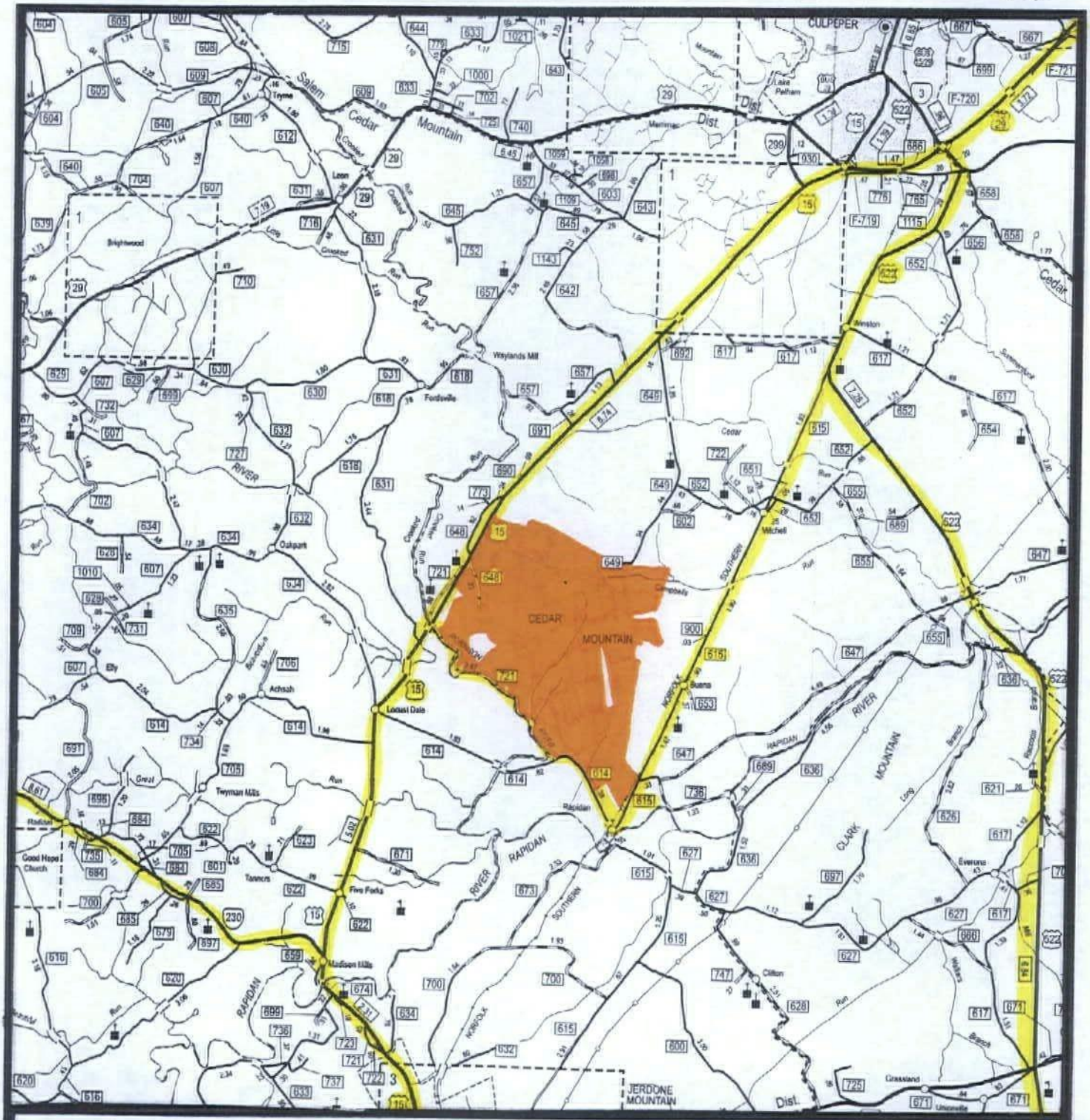
Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Sp	4.2 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

MAPS

Recyc Systems™ Inc. (Biosolids Land Application)



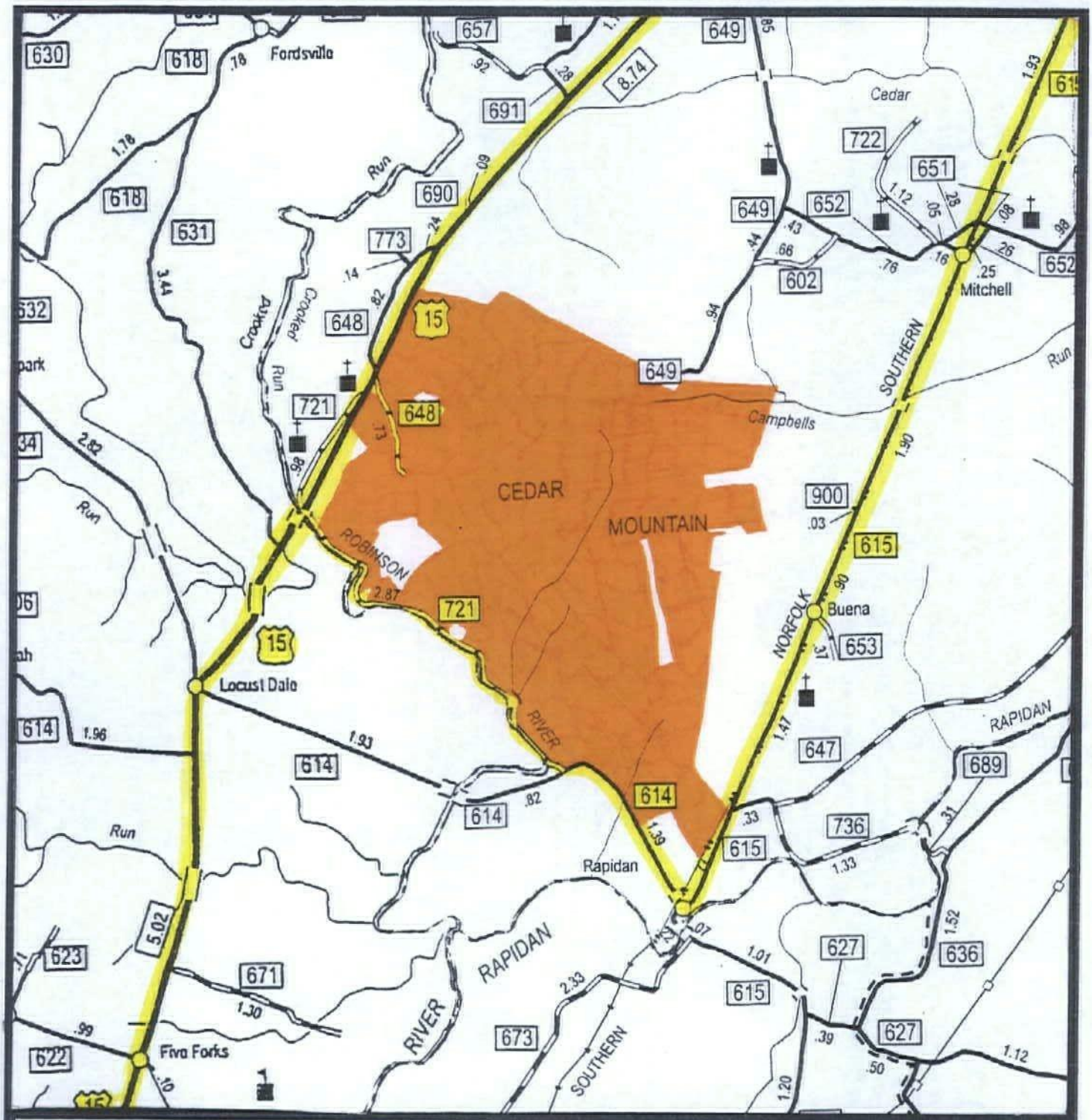
Scale: 1"= 2 miles

CUWML 1-43

VICINITY MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



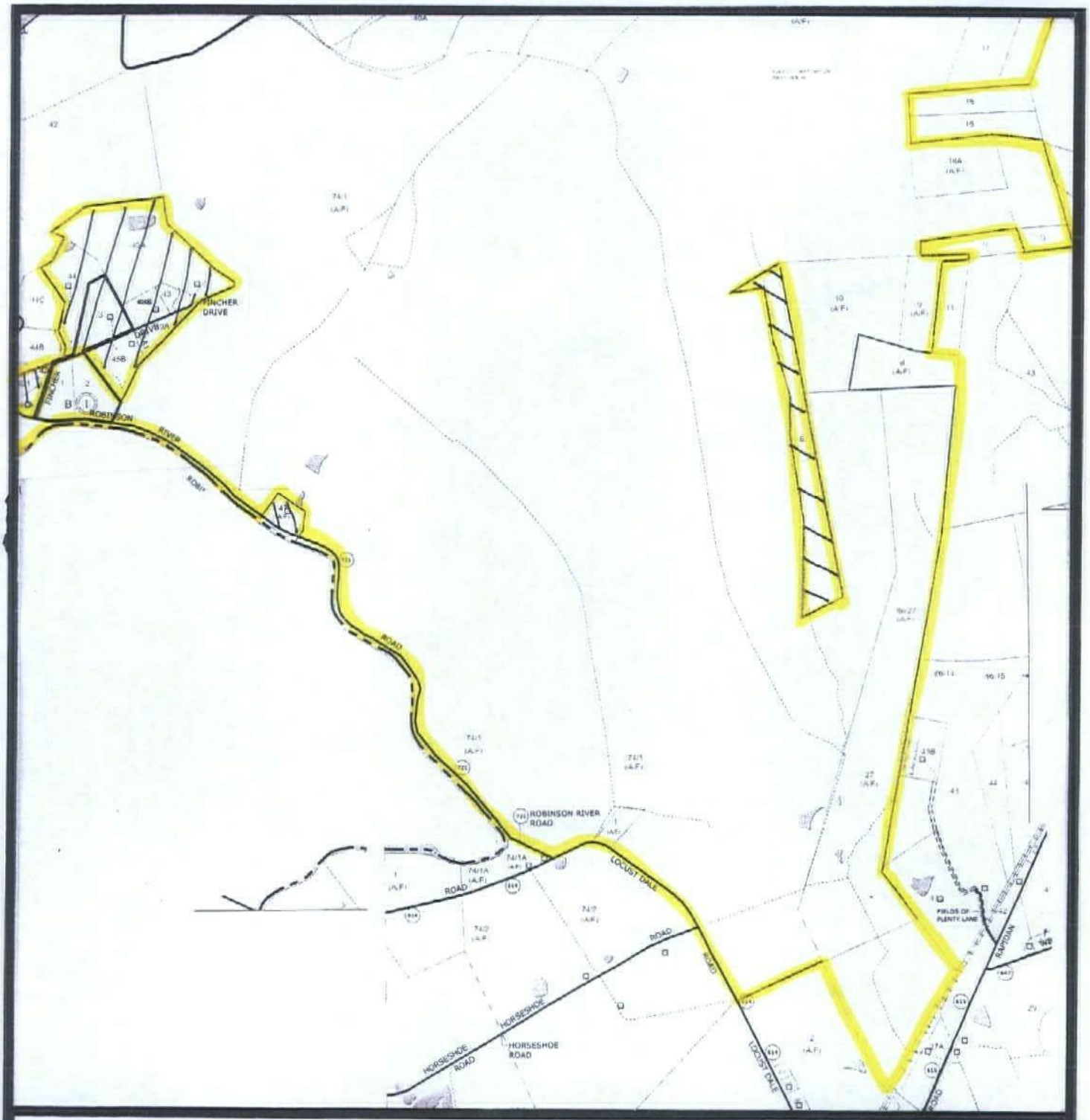
Scale: 1"= 1 mile

CUWML 1-43

VICINITY MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



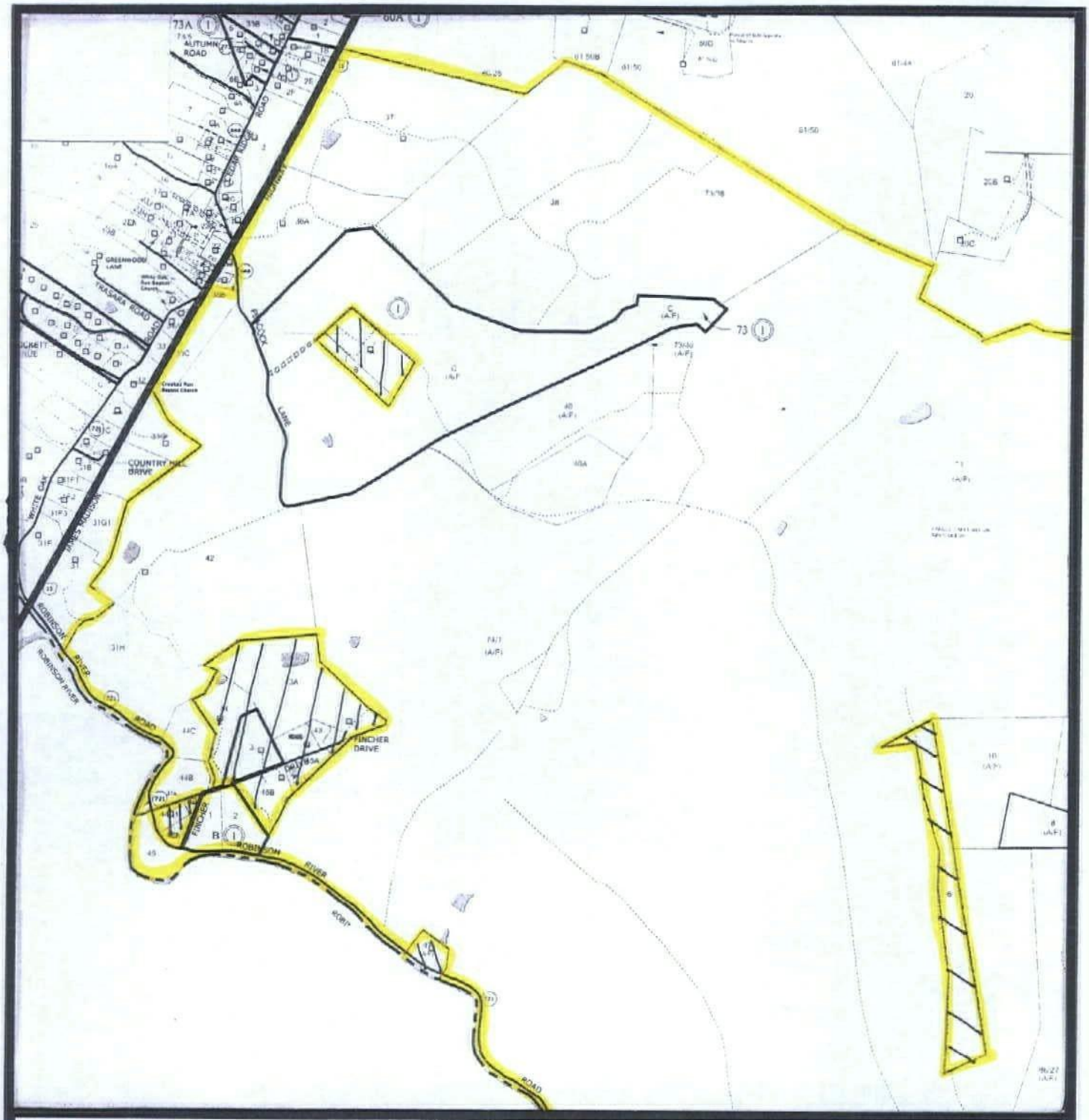
Scale: 1"= 2000 ft.

CUWML 1-17, 32-38

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



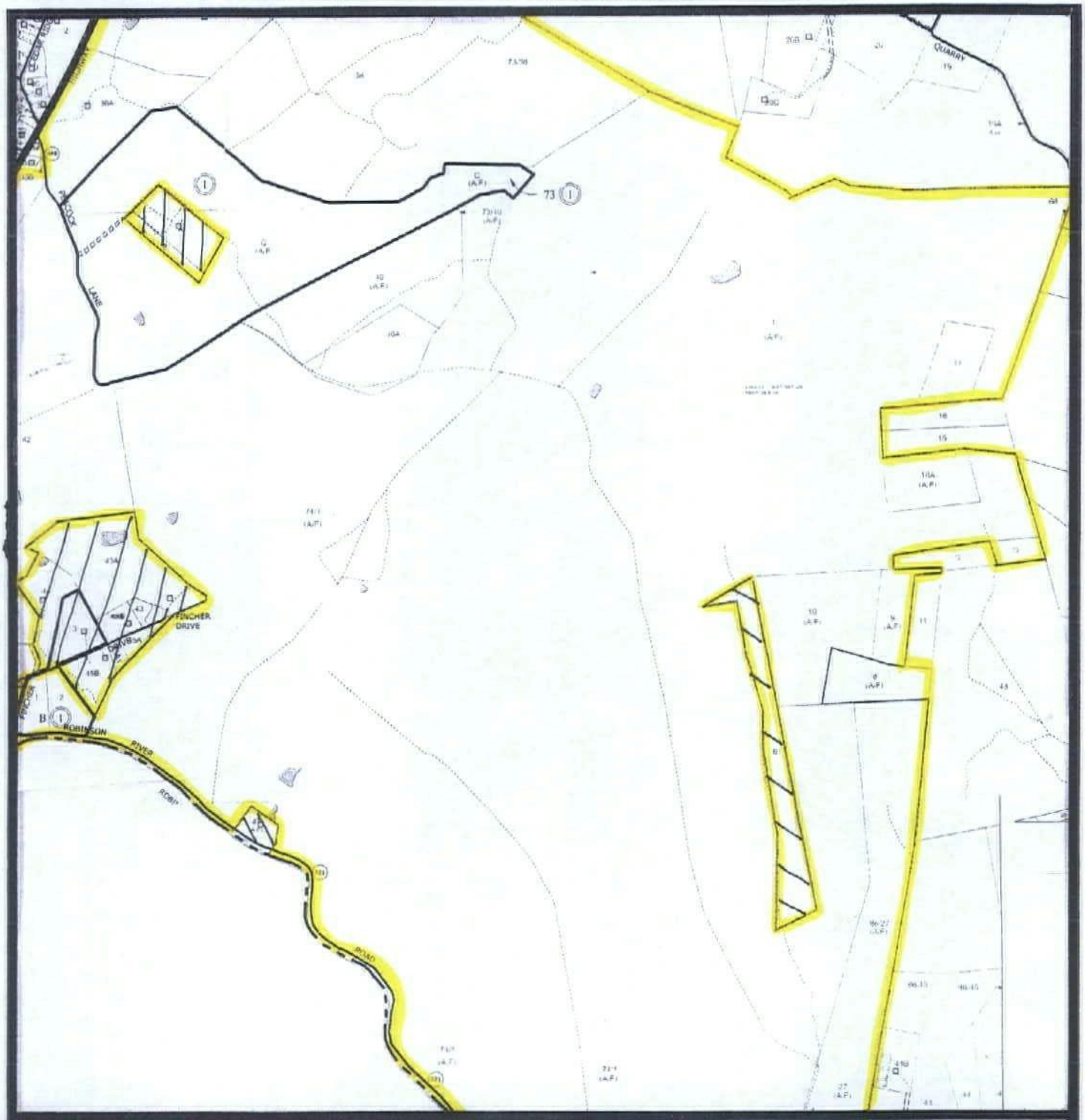
Scale: 1"= 2000 ft.

CUWML 14-39

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



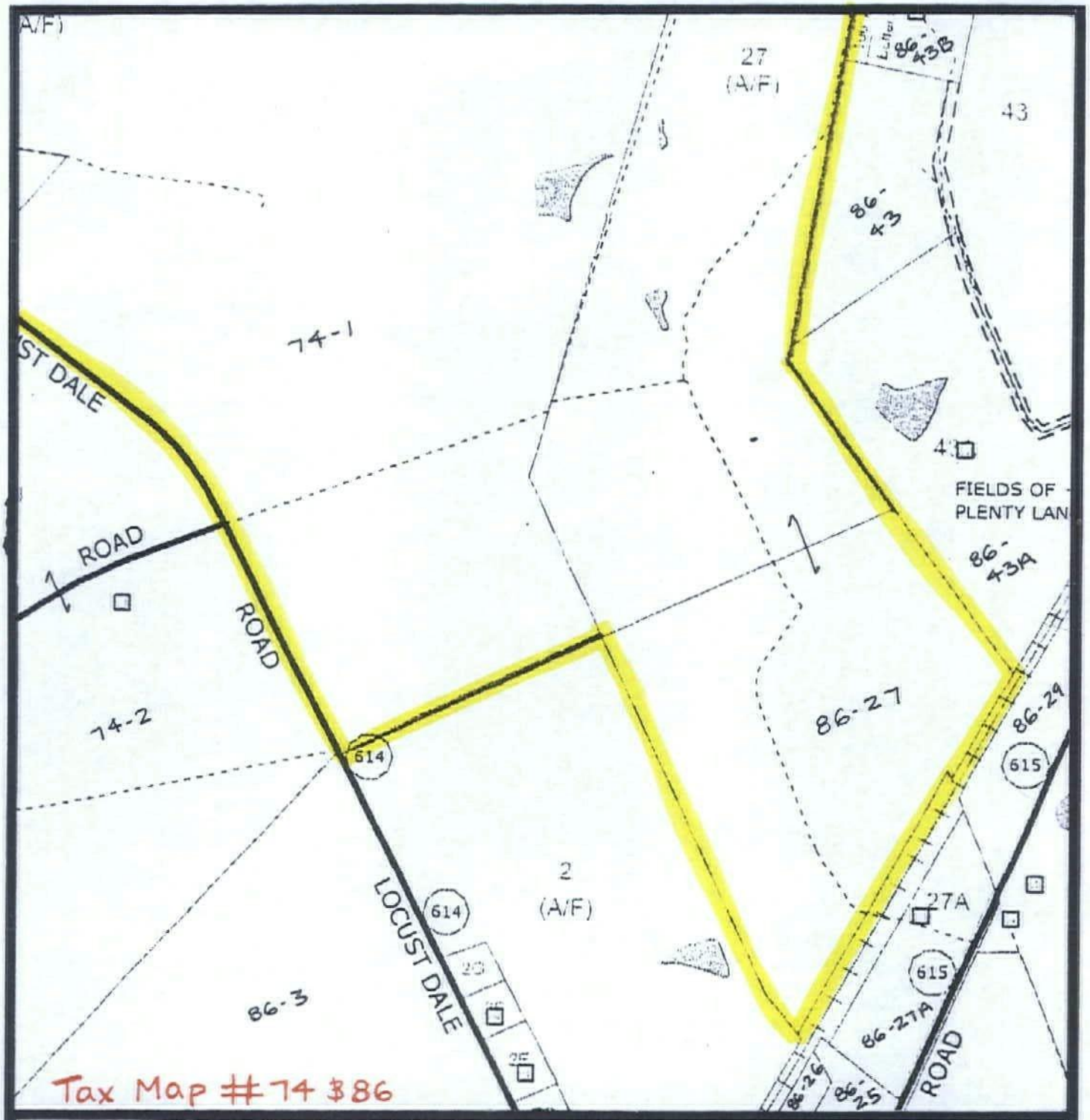
Scale: 1"= 2000 ft.

CUWML 6-21, 29-43

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



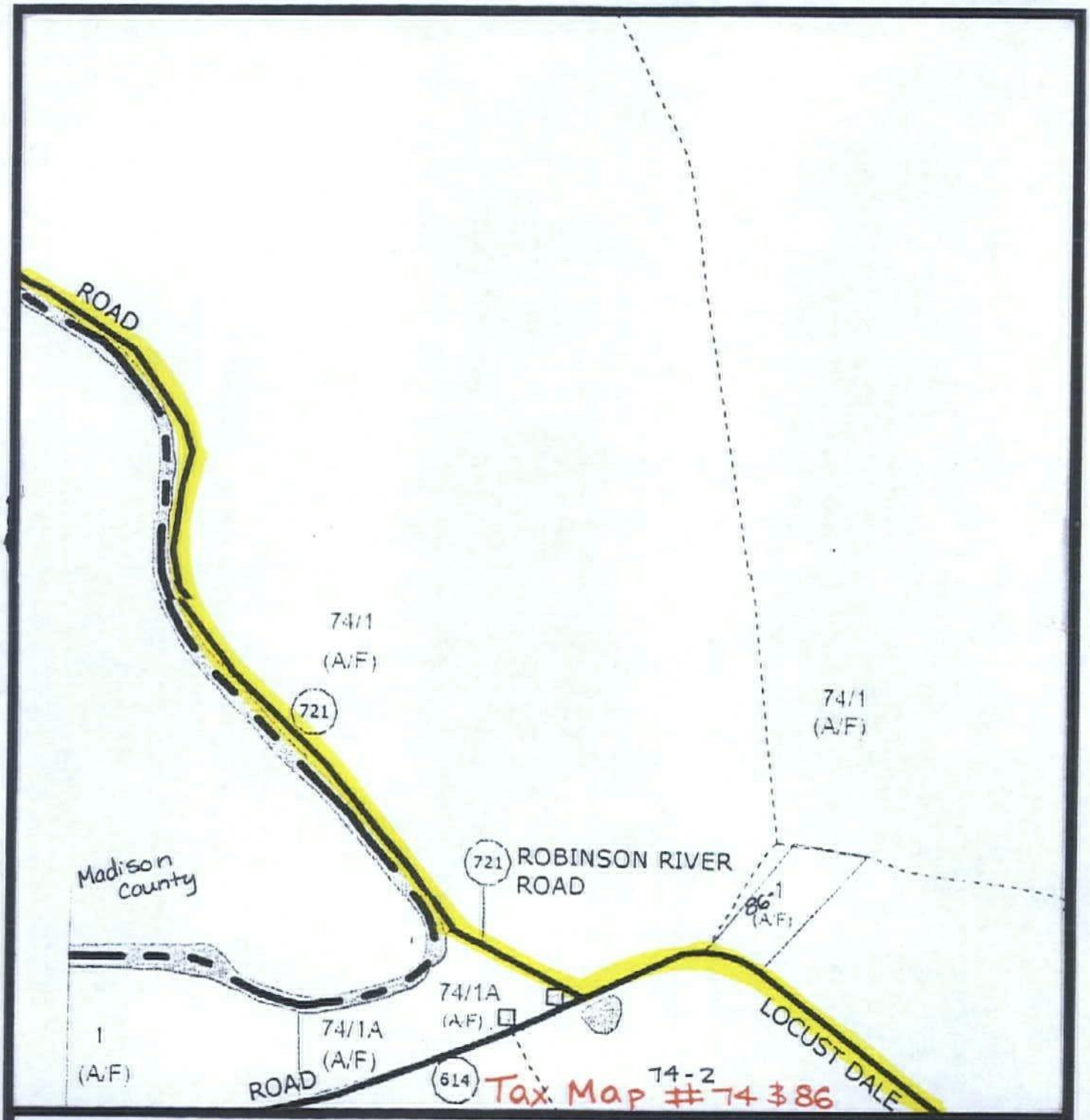
Scale: 1"= 660 ft.

CUWML 1-4, 34-36

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



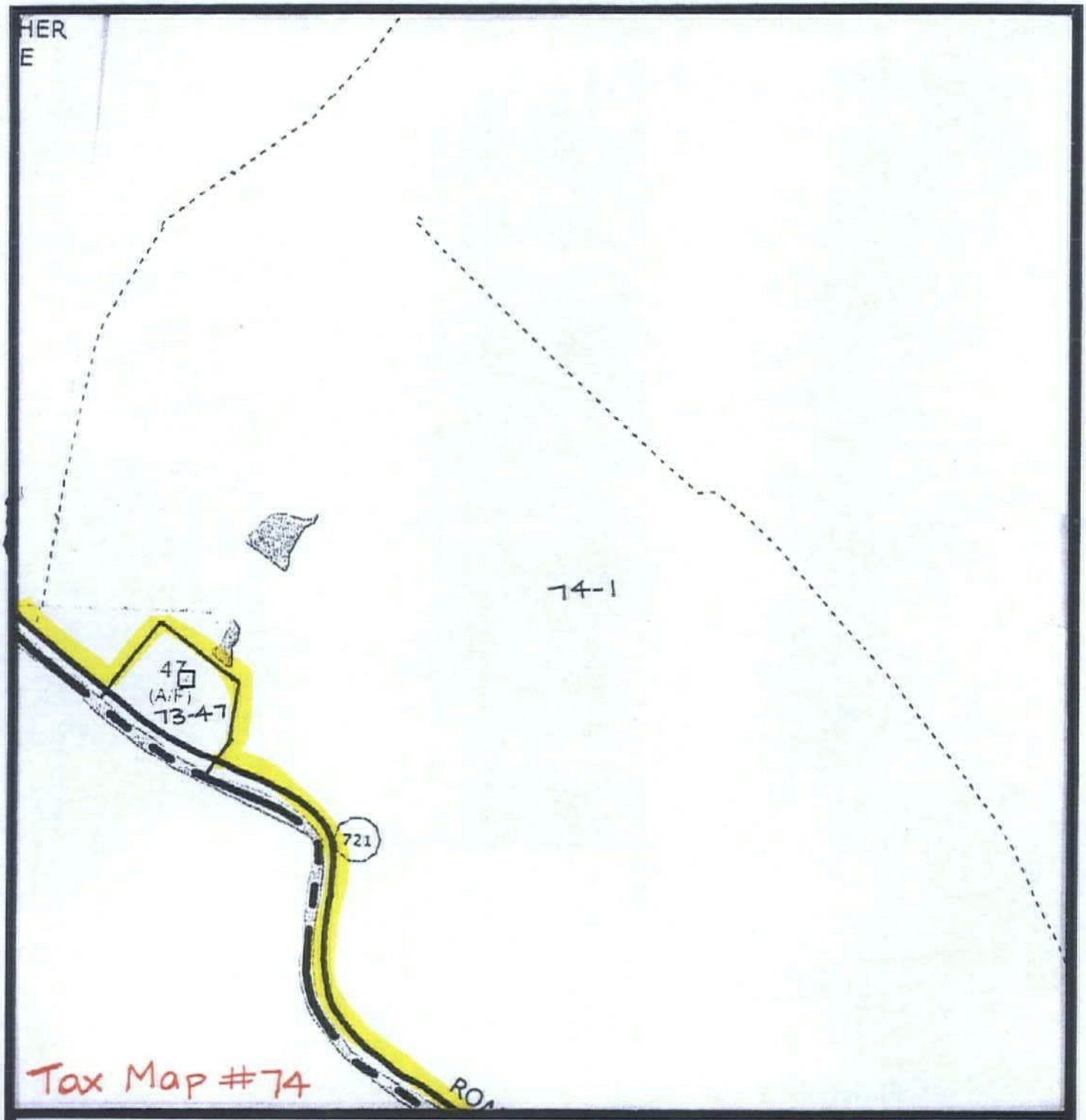
Scale: 1"= 660 ft.

CUWML 4-5

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



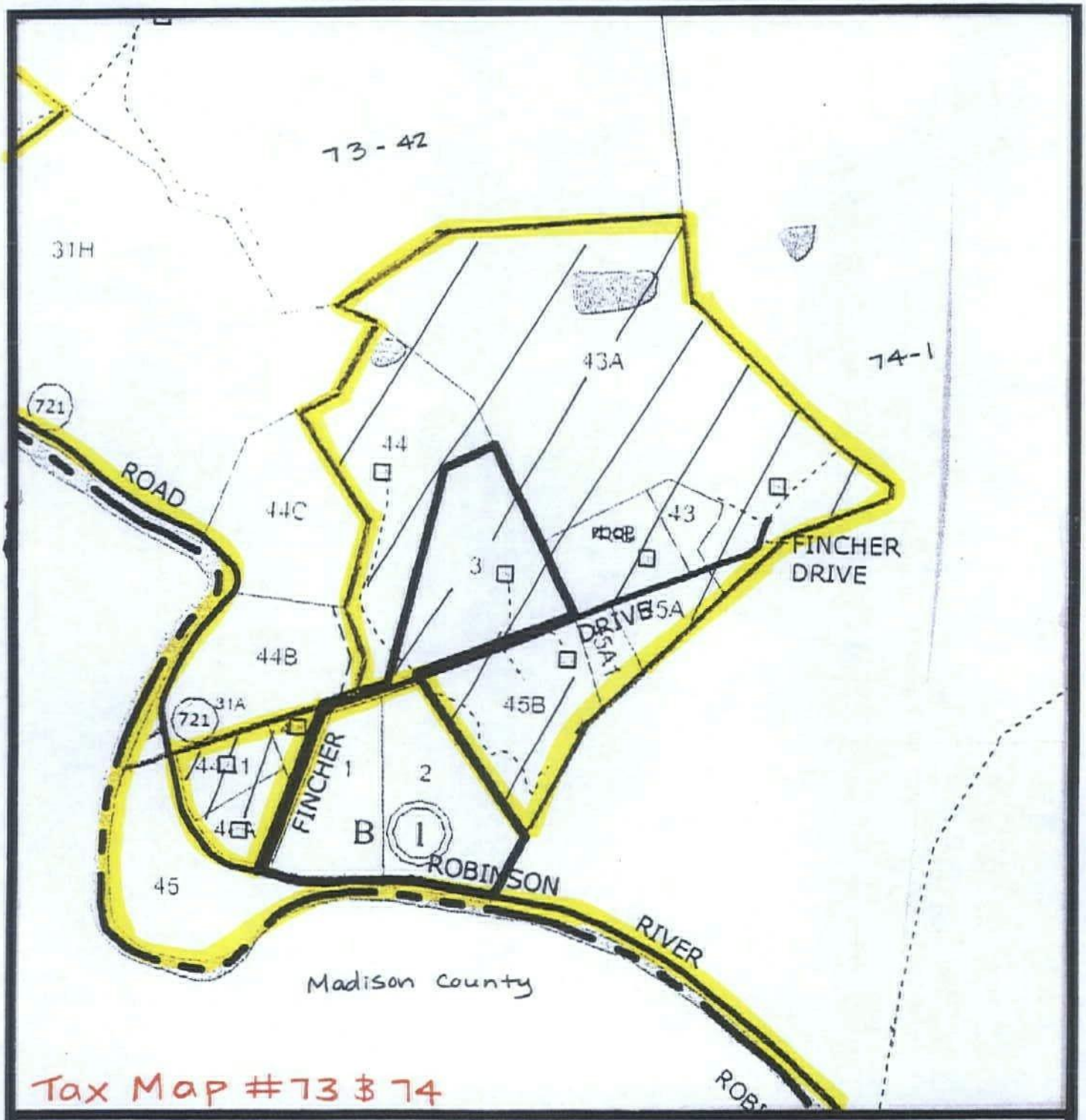
Scale: 1"= 660 ft.

CUWML 6-7, 10-12

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



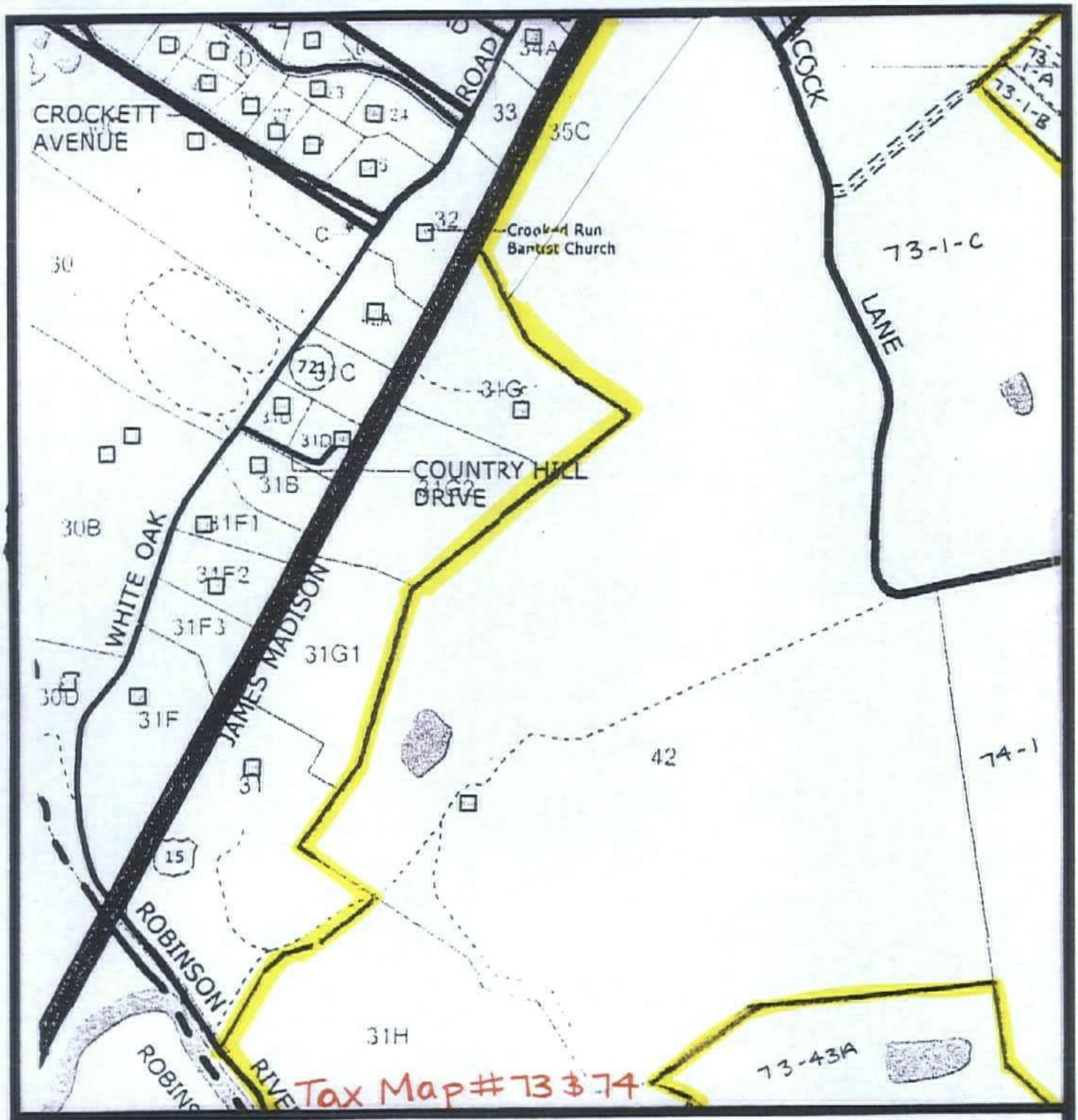
Scale: 1"= 660 ft.

CUWML 7-9, 25-27, 32

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



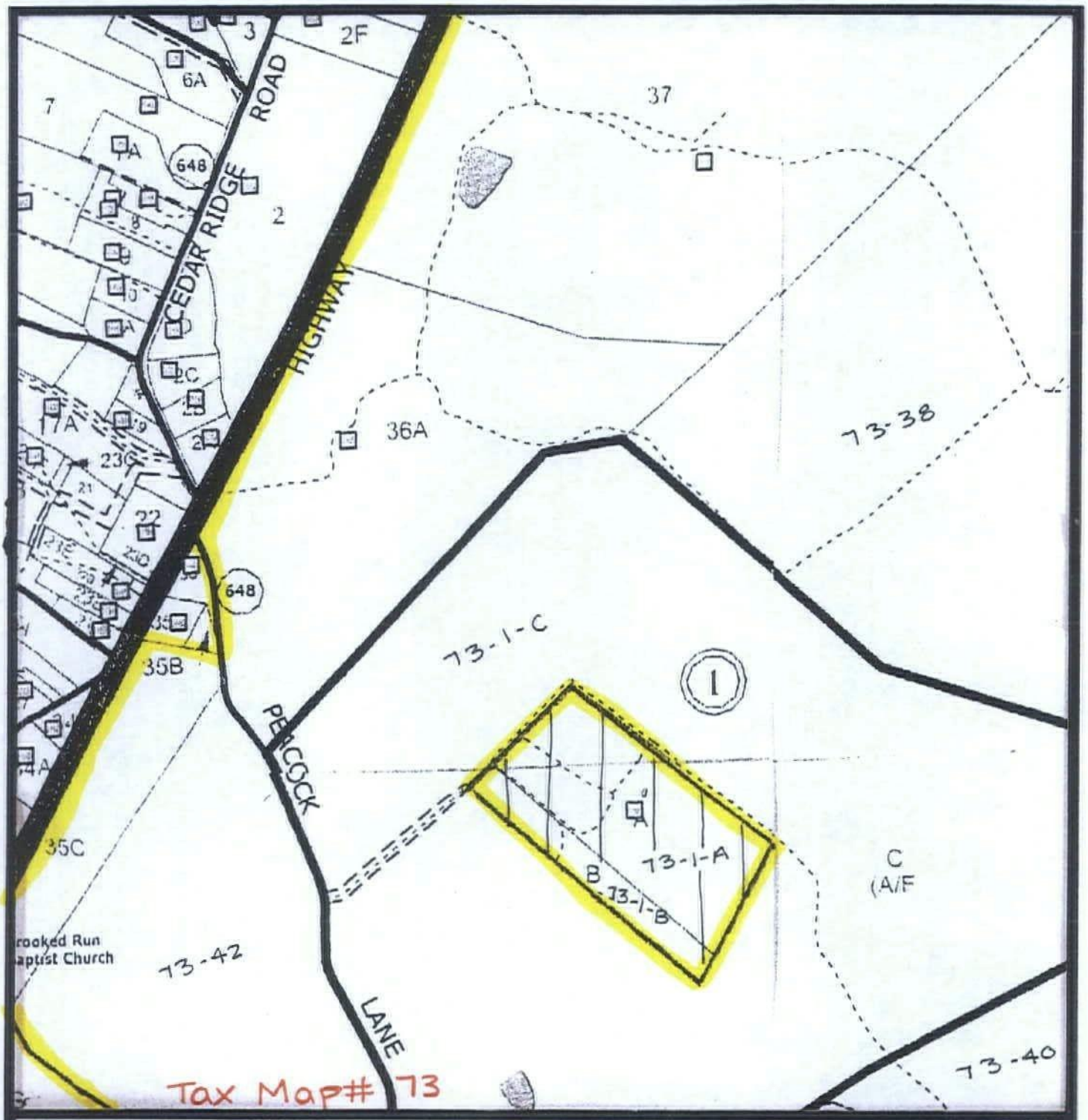
Scale: 1"= 660 ft.

CUWML 22-26, 28-29

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



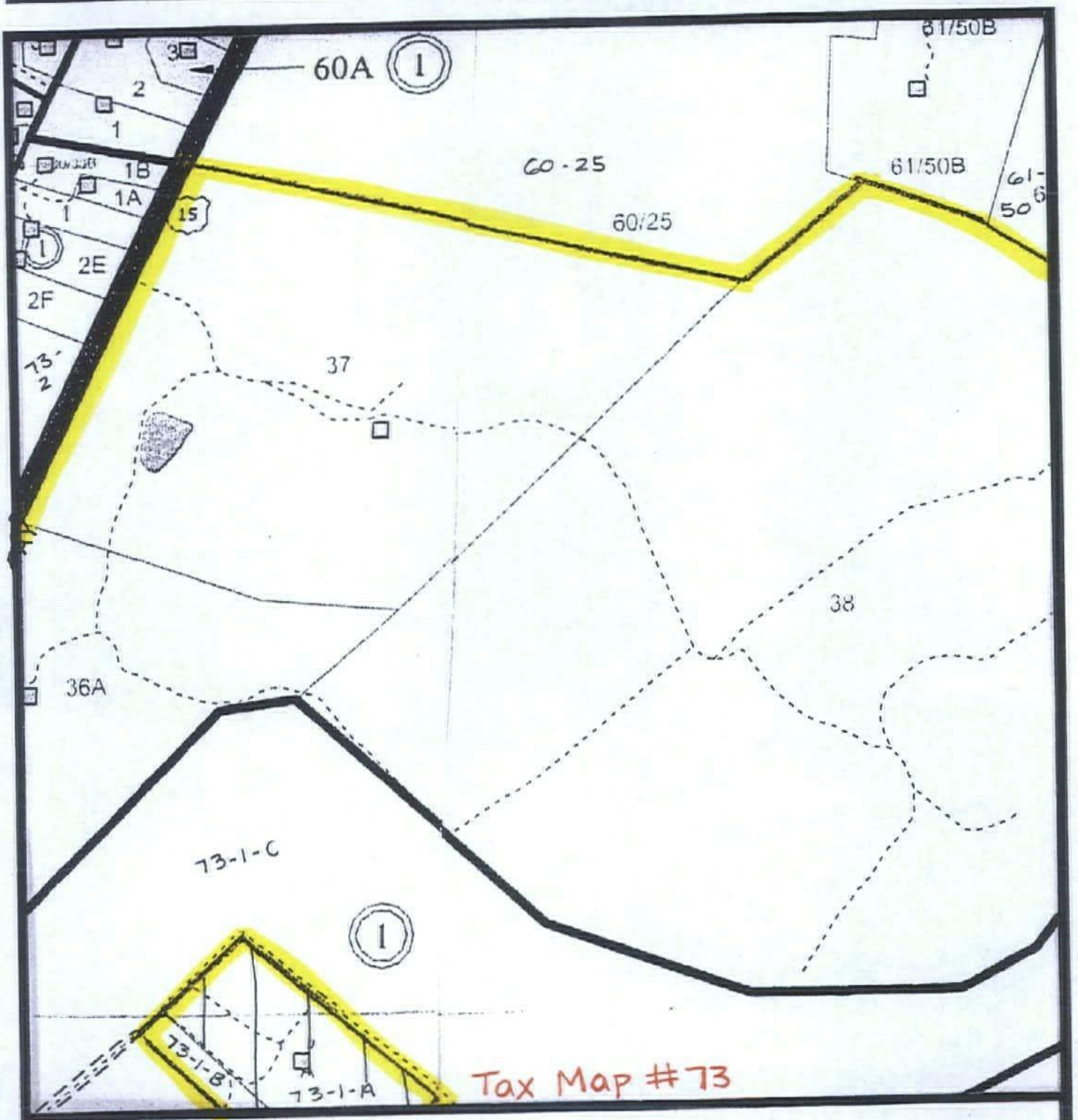
Scale: 1"= 660 ft.

CUWML 20, 28-31

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



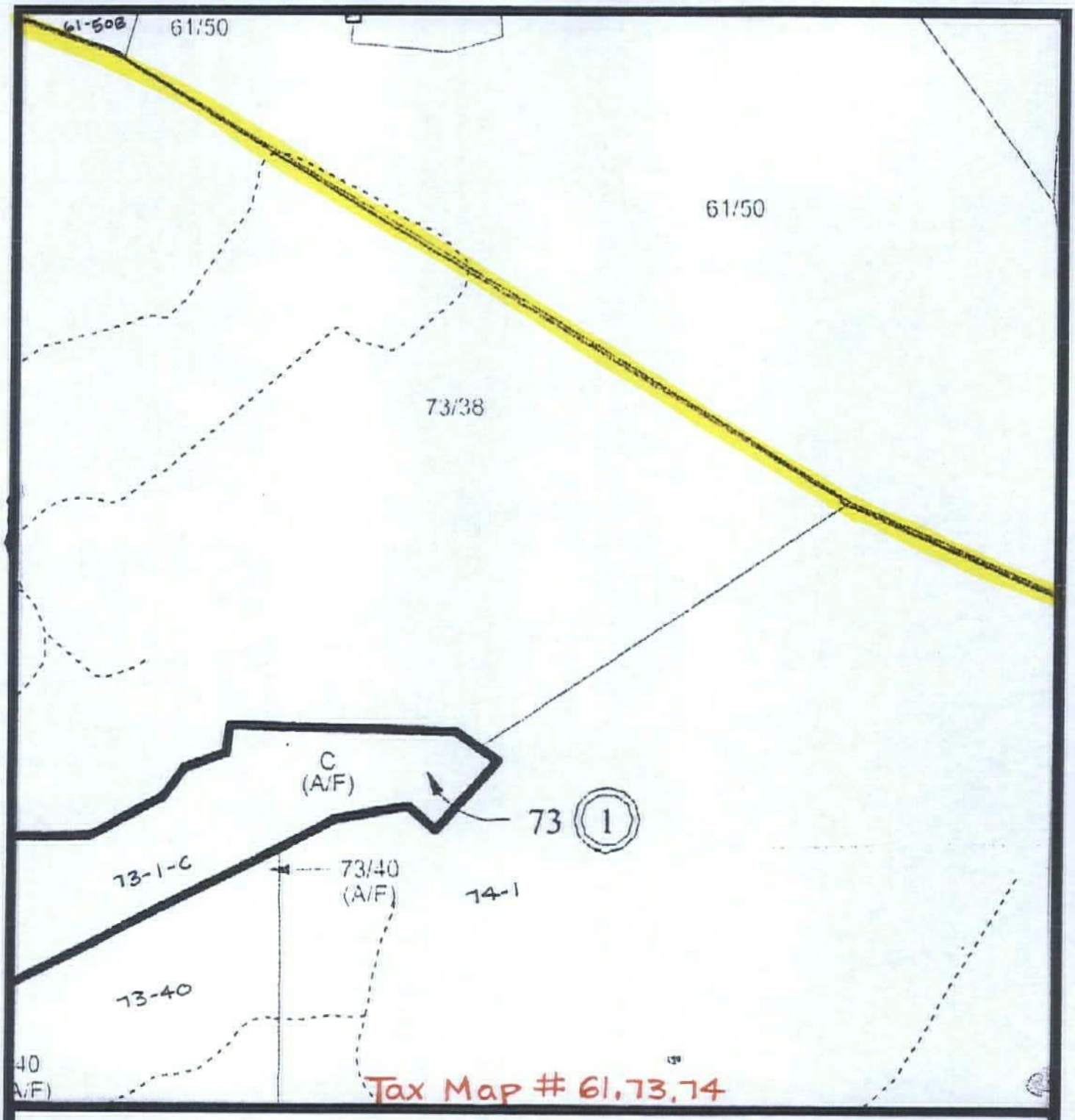
Scale: 1"= 660 ft.

CUWML 19, 21, 30

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



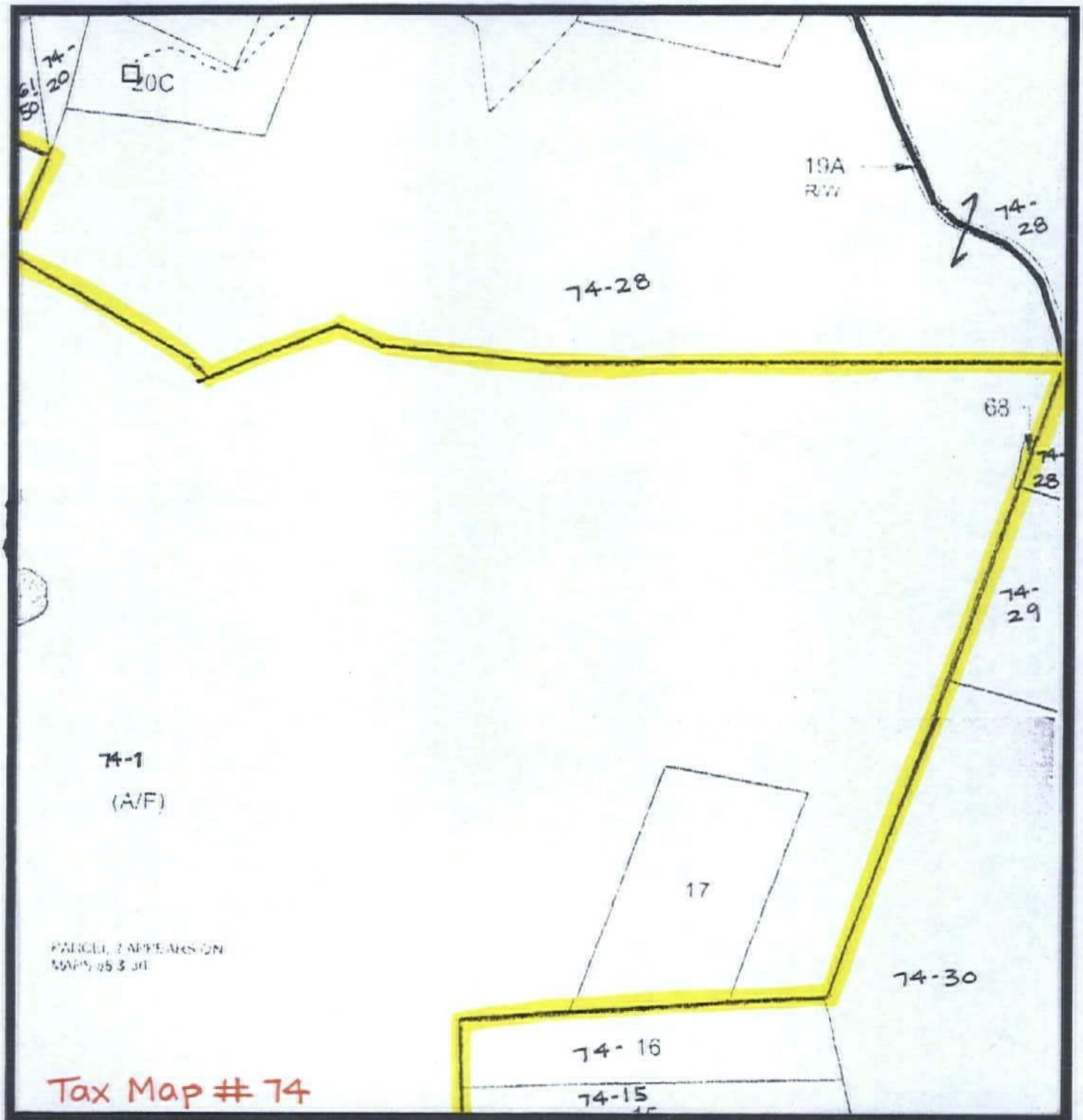
Scale: 1"= 660 ft.

CUWML 39

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



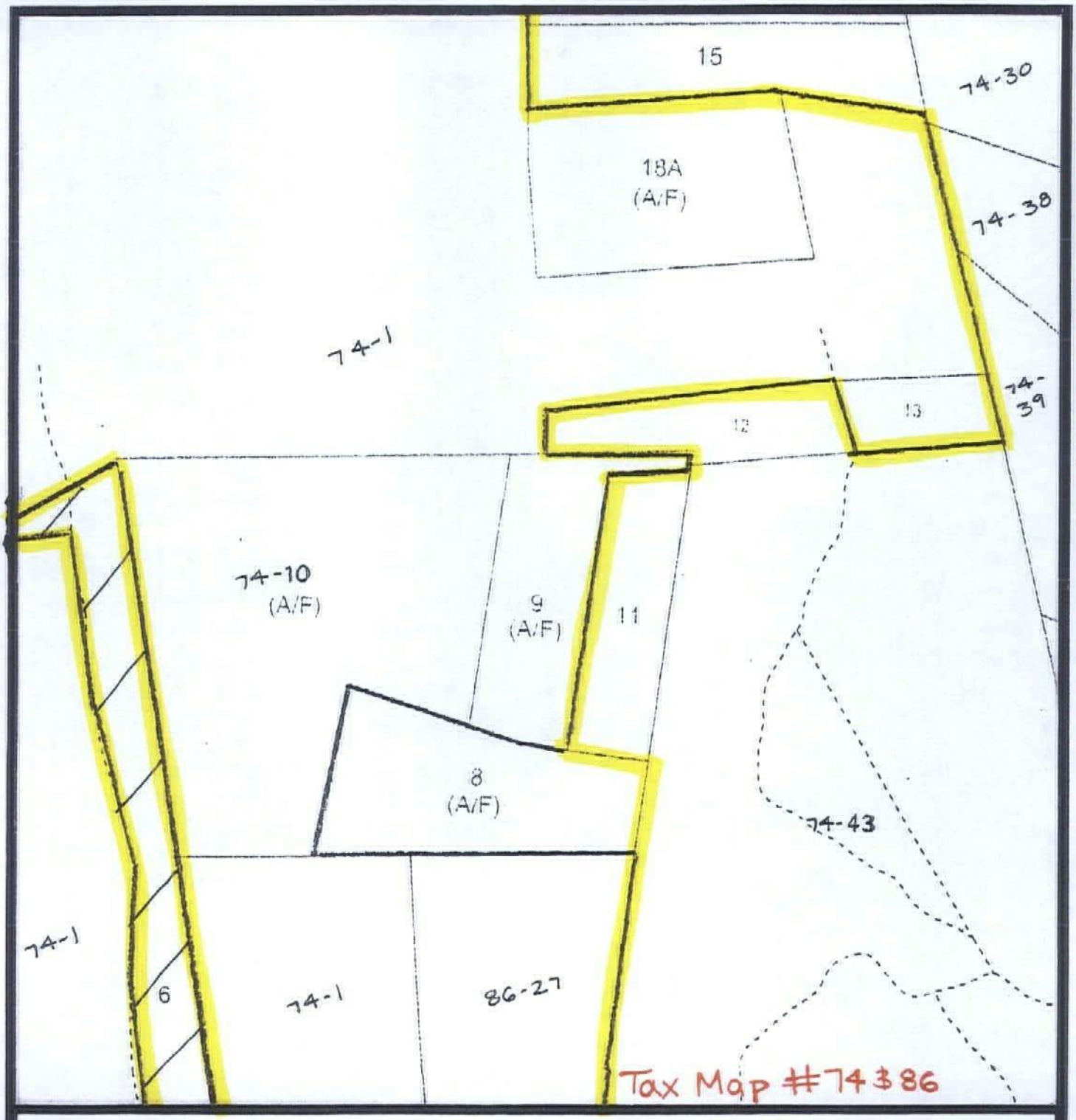
Scale: 1"= 660 ft.

CUWML 40-41

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



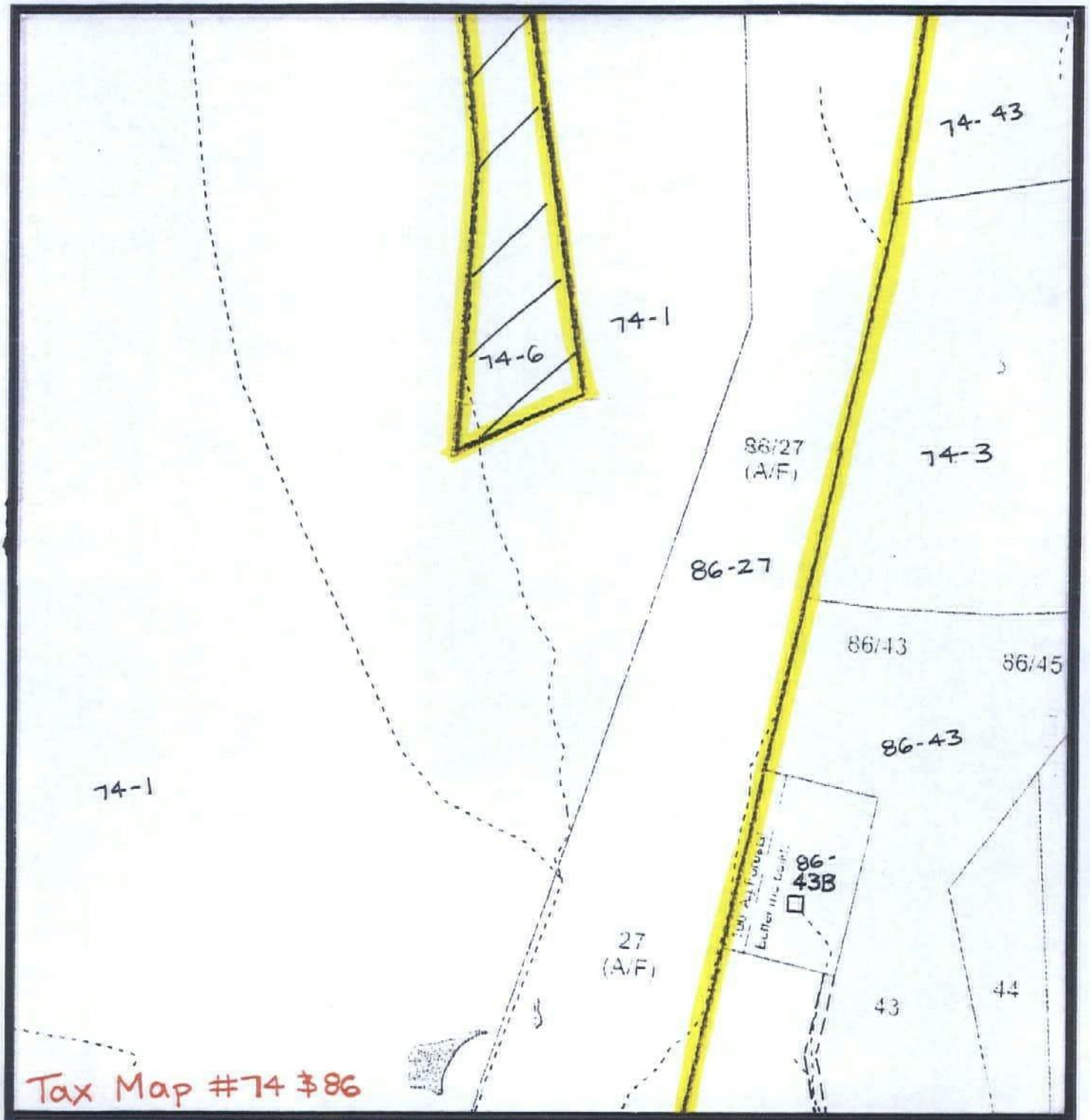
Scale: 1"= 660 ft.

CUWML

TAX MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 660 ft.

CUWML 3

TAX MAP

N

ADJOINING LANDOWNERS

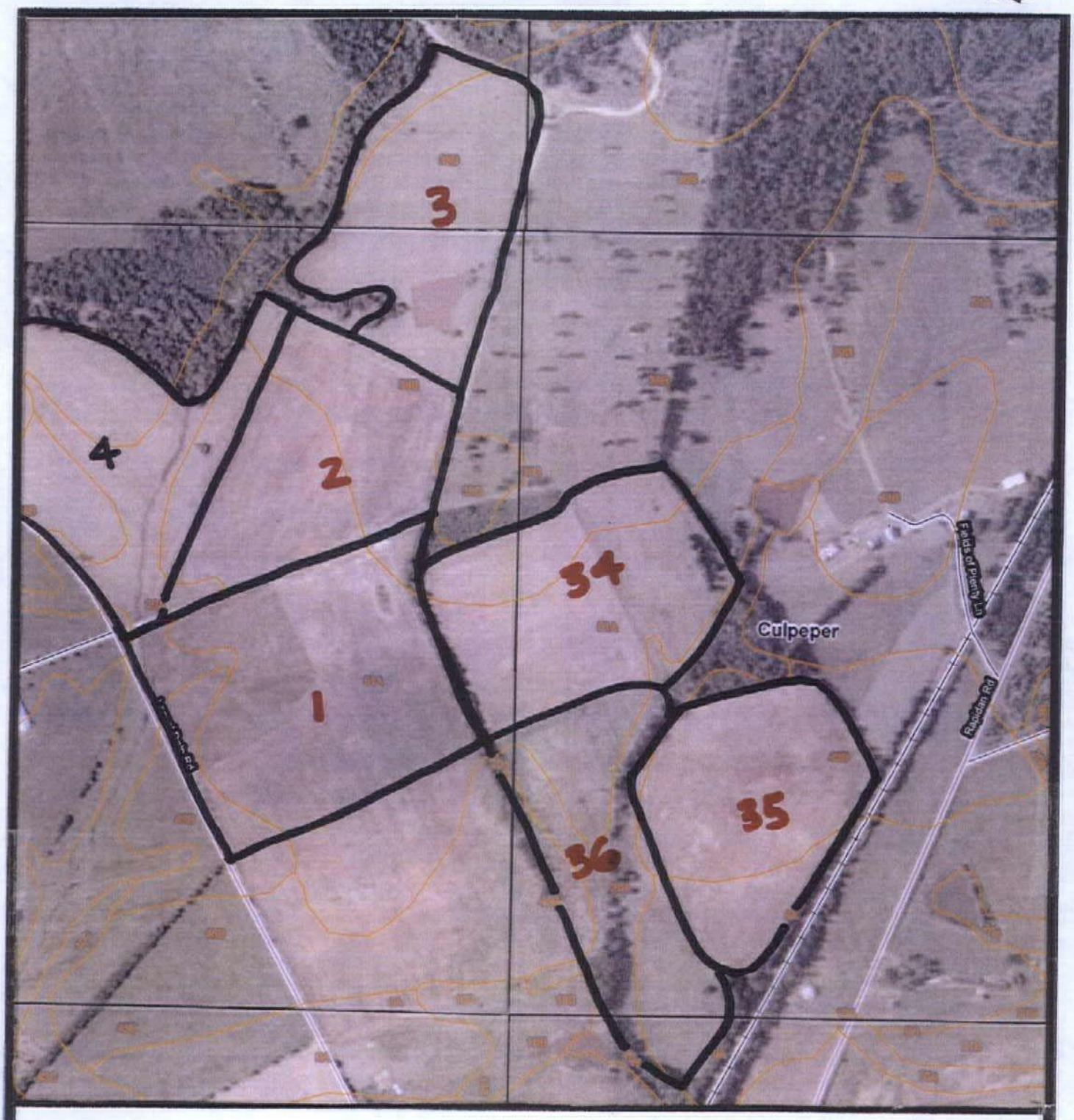
W. MIKE LONG

CULPEPER COUNTY

Tax Map	Parcel #	Owner Name(s)
60	25	Battle Park Farms c/o John R. Inskeep
60A-1	1	Jesse M. Christiansen et. ux.
61	50	Cedar Mountain LLC
	50B	Charles D. Barrell et. ux.
73	1	Richard A. Biche et. ux.
	1A	Nadine K. Bowyer
	1B	Brian S. Cooper
	2	Owen McKenzie et. ux.
	2A	John R. and Jean S. Corbin
	2E	Mia P. Tate
	2F	Toshua N. Jackson Vir.
	17A	Robert L. Woodson et. ux.
	22	Jamesetta R. Doby et. als.
	23B	Kenneth Hensley et. al.
	23C	Jeffrey L. Gibson et. ux.
	25A	Mike Anthony Gray et. al.
	31	Marshall C. Campbell
	31G	Kenneth W. Jenkins et. ux.
	31G1	Kenneth W. Jenkins Jr.
	31G2	Kenneth W. Jenkins Jr.
	32	Crooked Run Baptist
	33	Pembroke Washington
	34	George K. Harris
	34A	Richard A. Taylor Sr.
	35	James S. Withrow et. ux.
	35A	Stanley E. and Karen W. Frye
	35B	Stanley E. and Karen W. Frye
	43A	James F. Halley
	44	Raymond D. Zegley et. ux.

Tax Map	Parcel #	Owner Name(s)
73	44A	D. Leon Fincher et. al. Trustee
	44A1	Gwendolyn A. Henderson
	45A	D. Leon Fincher et. al. Trustee
	45A1	D. Leon Fincher et. al. Trustee
	45B	Donald I. Echols et. ux.
	46	Farrokh Ghovanlu et. ux.
	47	Maynard M. Ball
73-1	A	Robert G. Phillips et. ux.
	B	Robert G. Phillips et. ux.
74	1A	James C. Justice Companies Inc.
	2	James C. Justice Companies Inc.
	3	Tomb Stone Limited Partnership
	6	Paul W. Rohrer (Radm Usn Ret)
	11	Earl Tuel Jr.
	12	Cedar Mountain Stone Corporation
	15	Cedar Mountain Stone Corporation
	16	Cedar Mountain Stone Corporation
	28	Cedar Mountain Stone Corporation
	29	Cedar Mountain Stone Corporation
	30	Cedar Mountain Stone Corporation
	38	Theodore R. Moore III et. als.
	39	Tomb Stone Limited Partnership
	43	Tomb Stone Limited Partnership
86	2	James C. Justice Companies Inc.
	3	Paul W. Rohrer
	25	Joan Fincham Pannill
	27A	Thomas J. Blankenbaker
	29	David R. Evans et. ux.
	43	Donald C. and Virginia Lay
	43A	Donald C. and Virginia Lay
	43B	Julius A. Richards et. ux.

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 660 ft.

CUWML 1-3, 34-36

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

Scale: 1"= 660 ft.

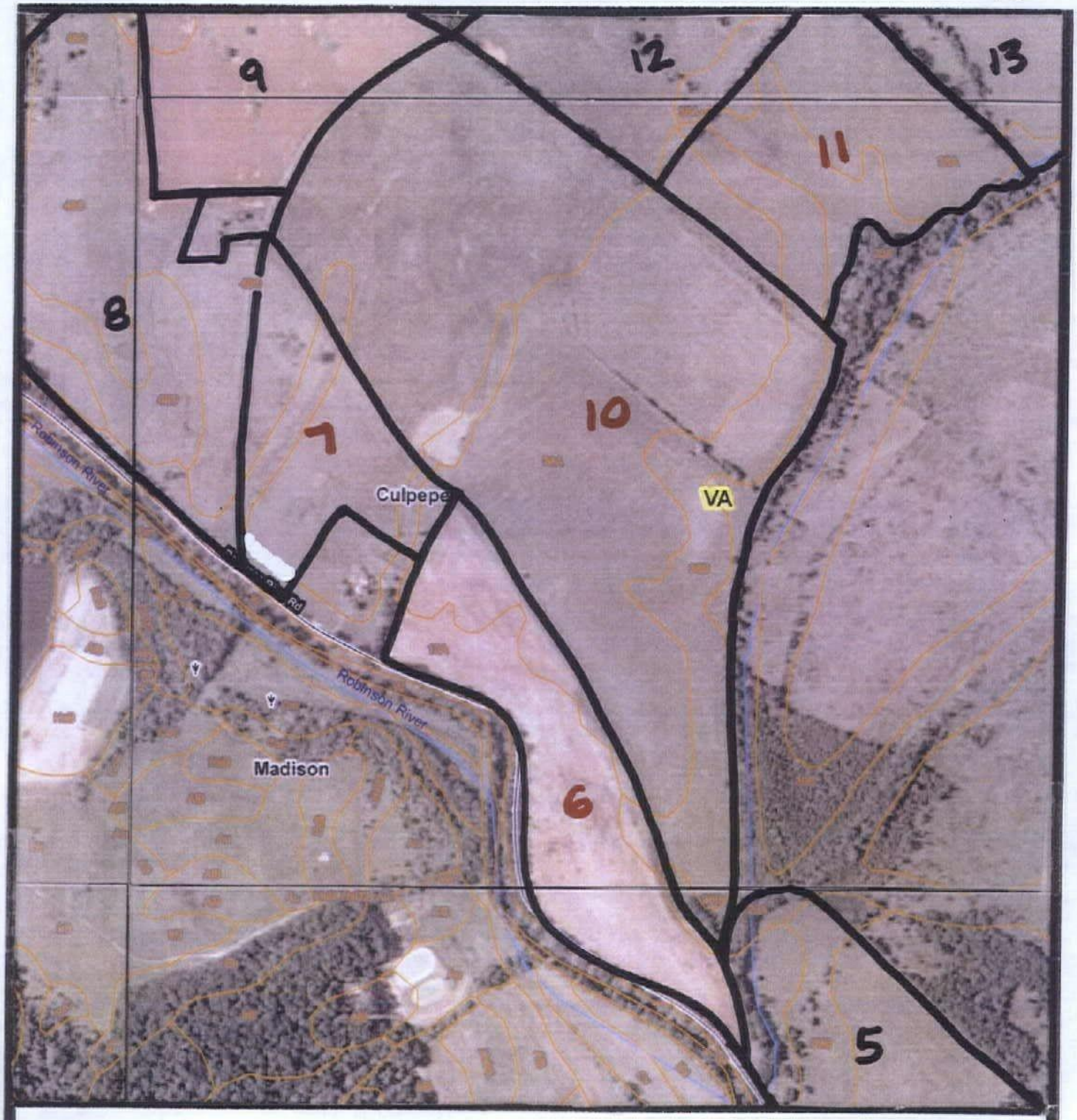
CUWML 4-5

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



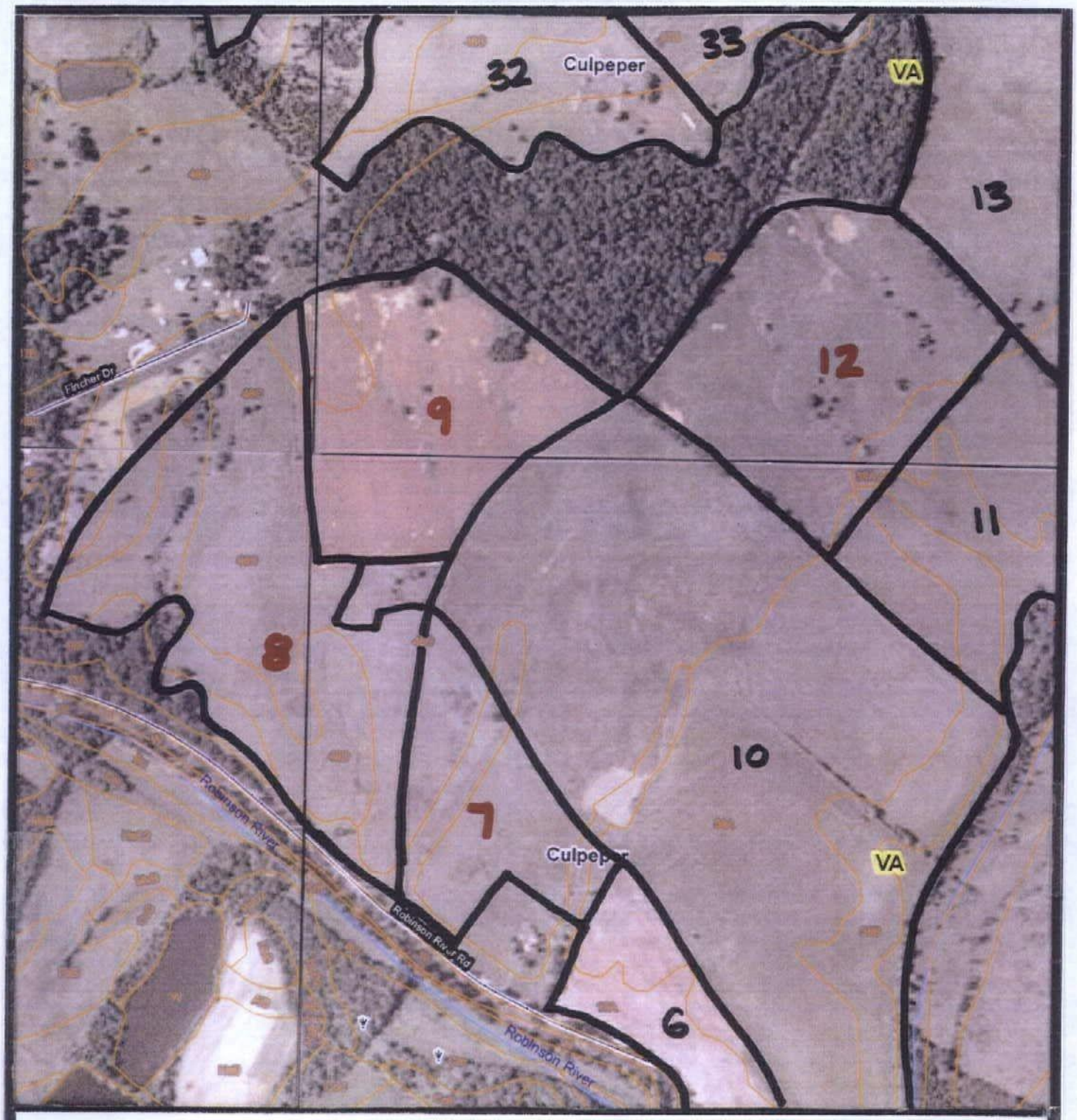
Scale: 1"= 660 ft.

CUWML 6-7, 10-11

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"=660 ft.

CUWML 7-9, 12

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1"= 660 ft.

CUWML 11-13

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

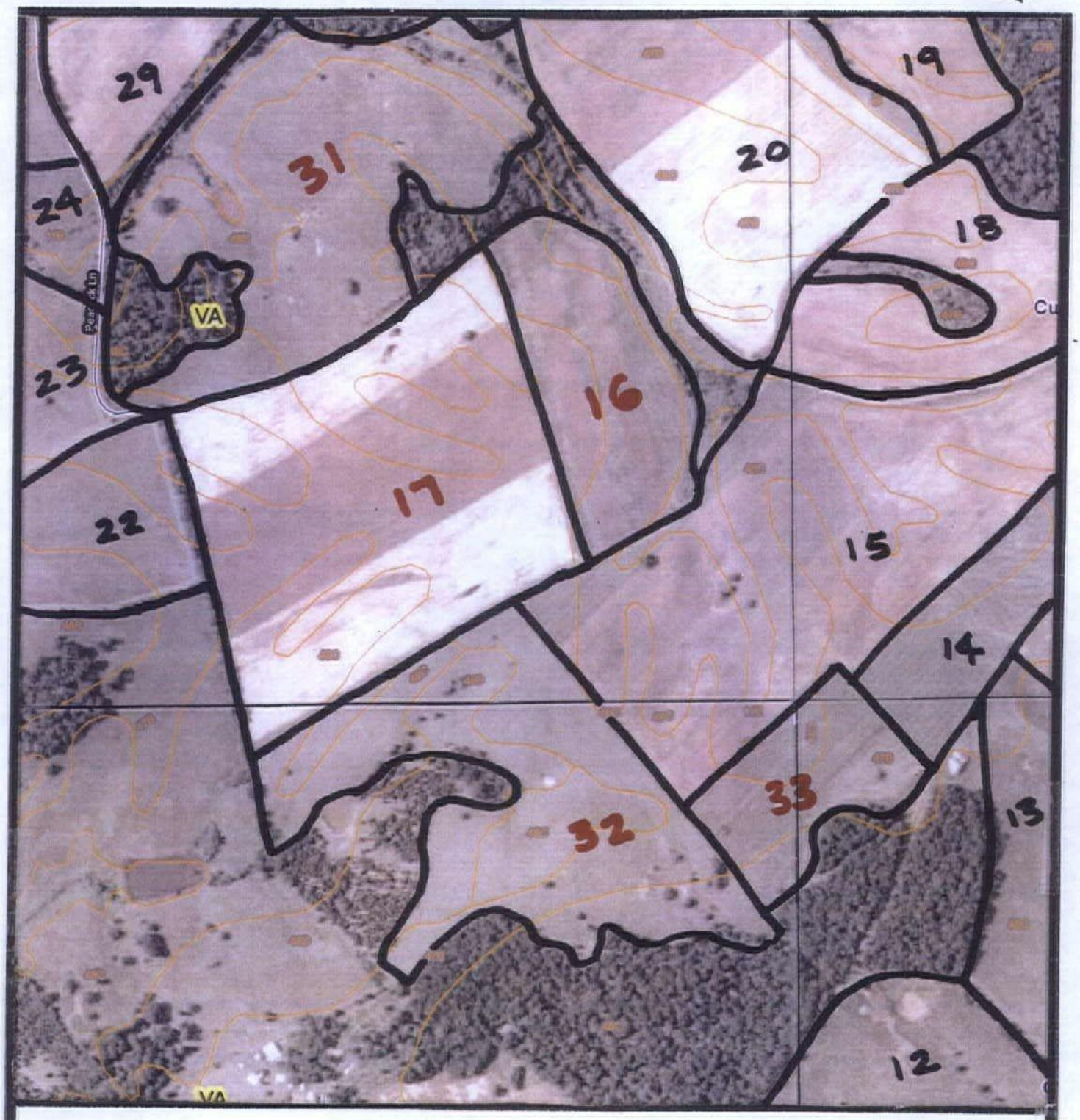
Scale: 1"= 660 ft.

CUWML 14-16, 18-21

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



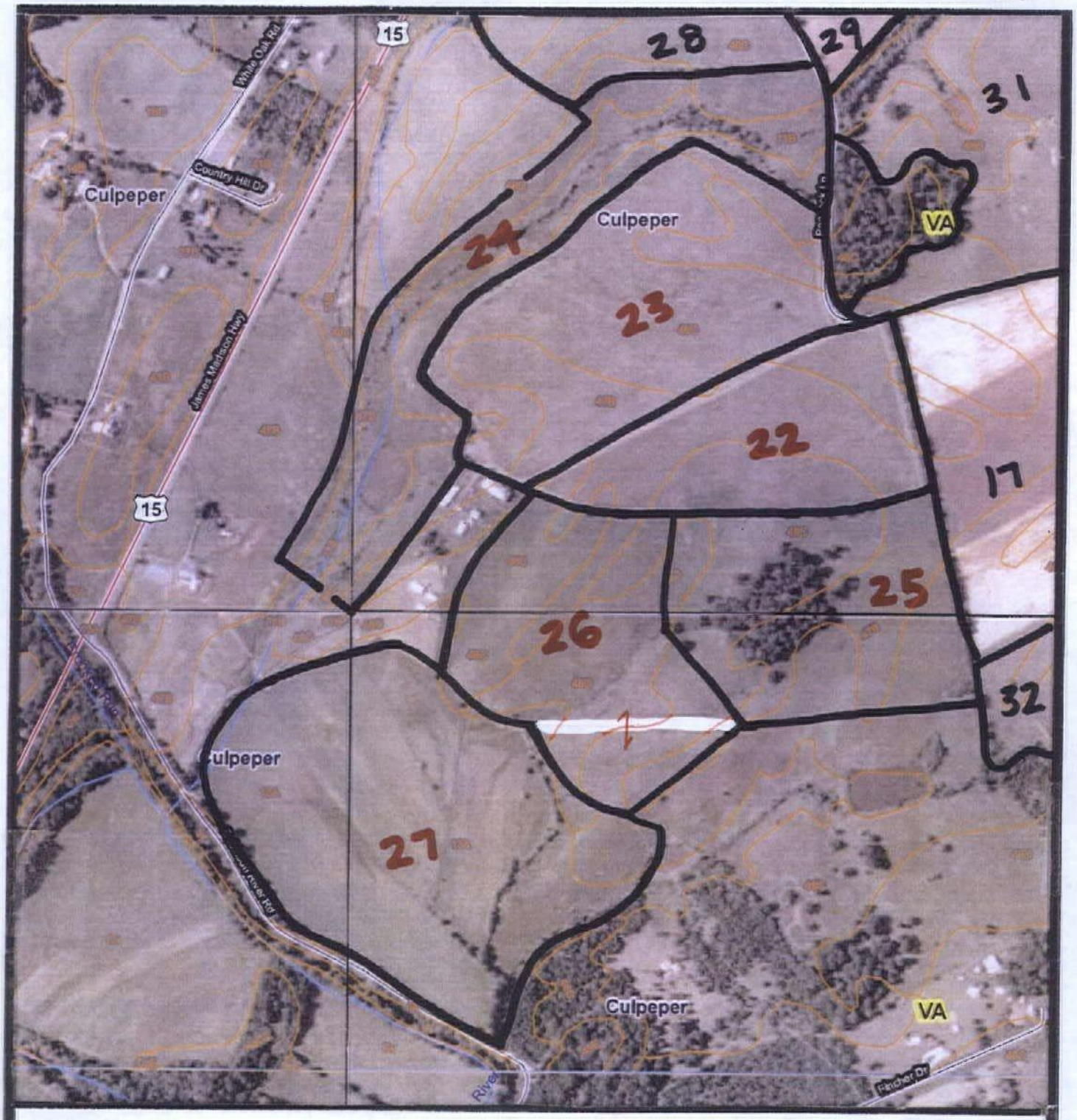
Scale: 1"= 660 ft.

CUWML 16-17, 31-33

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 660 ft.

CUWML 22-27

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

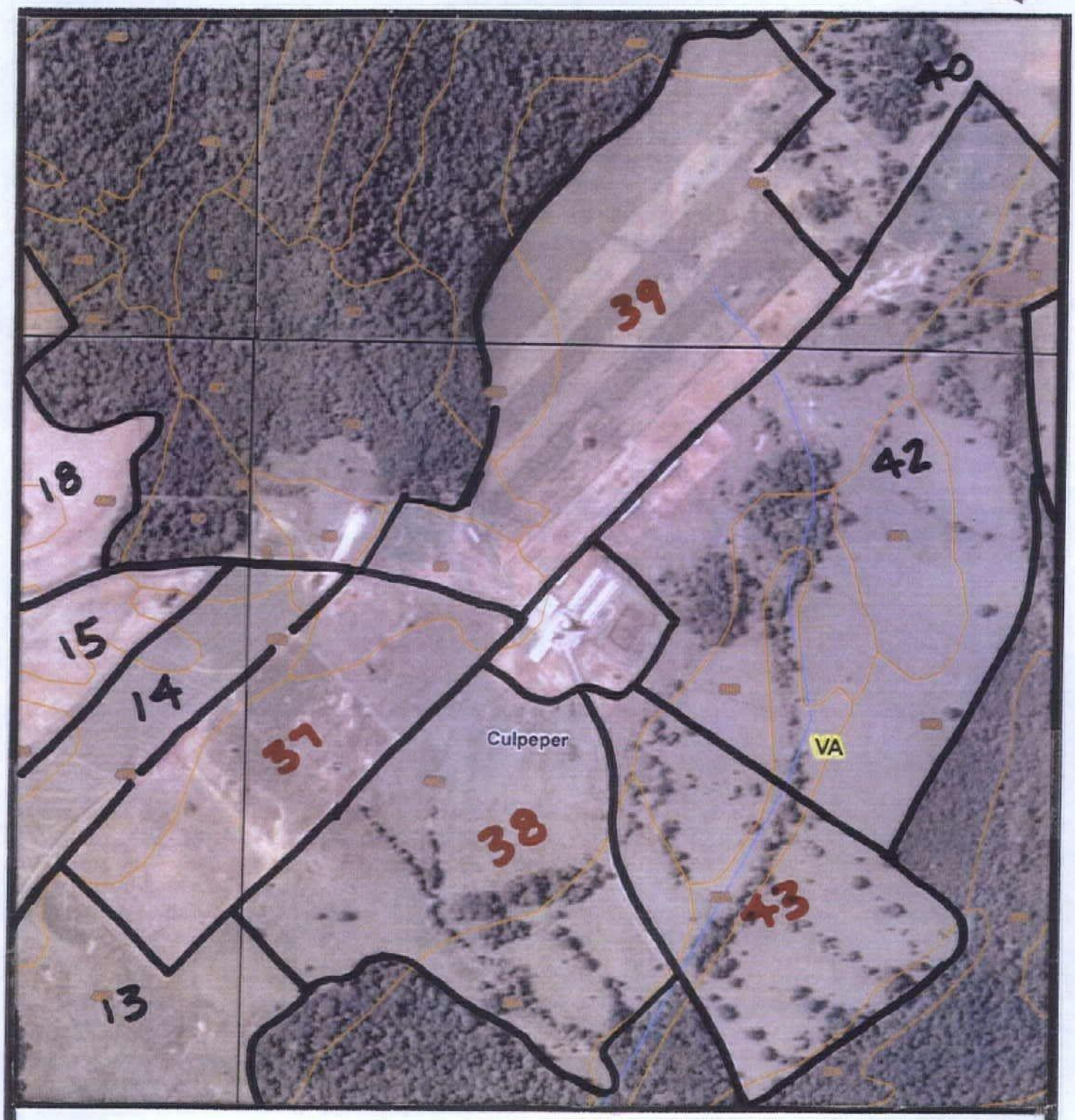
Scale: 1"= 660 ft.

CUWML 23, 28-31

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



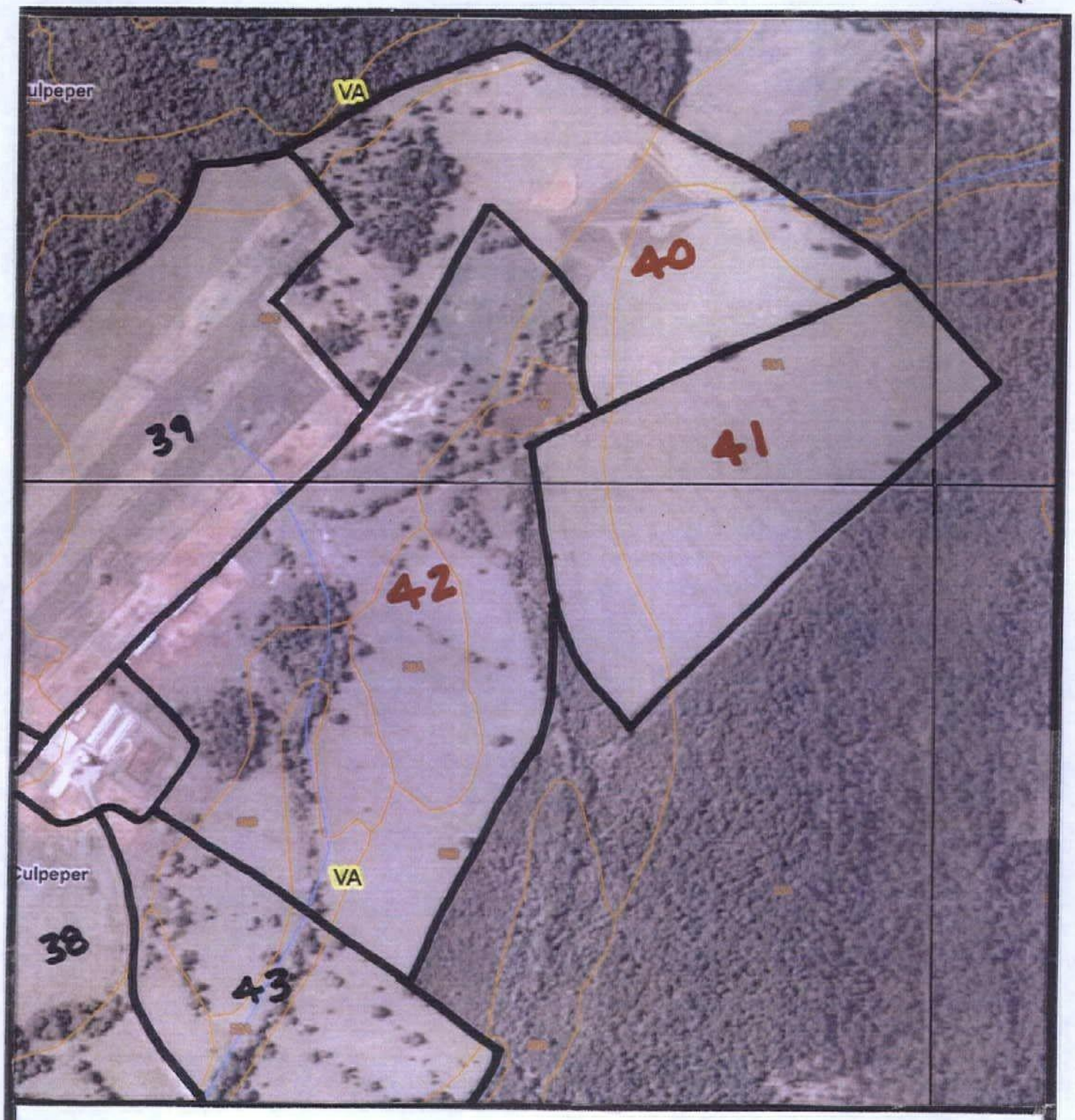
Scale: 1"= 660 ft.

CUWML 37-39, 43

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



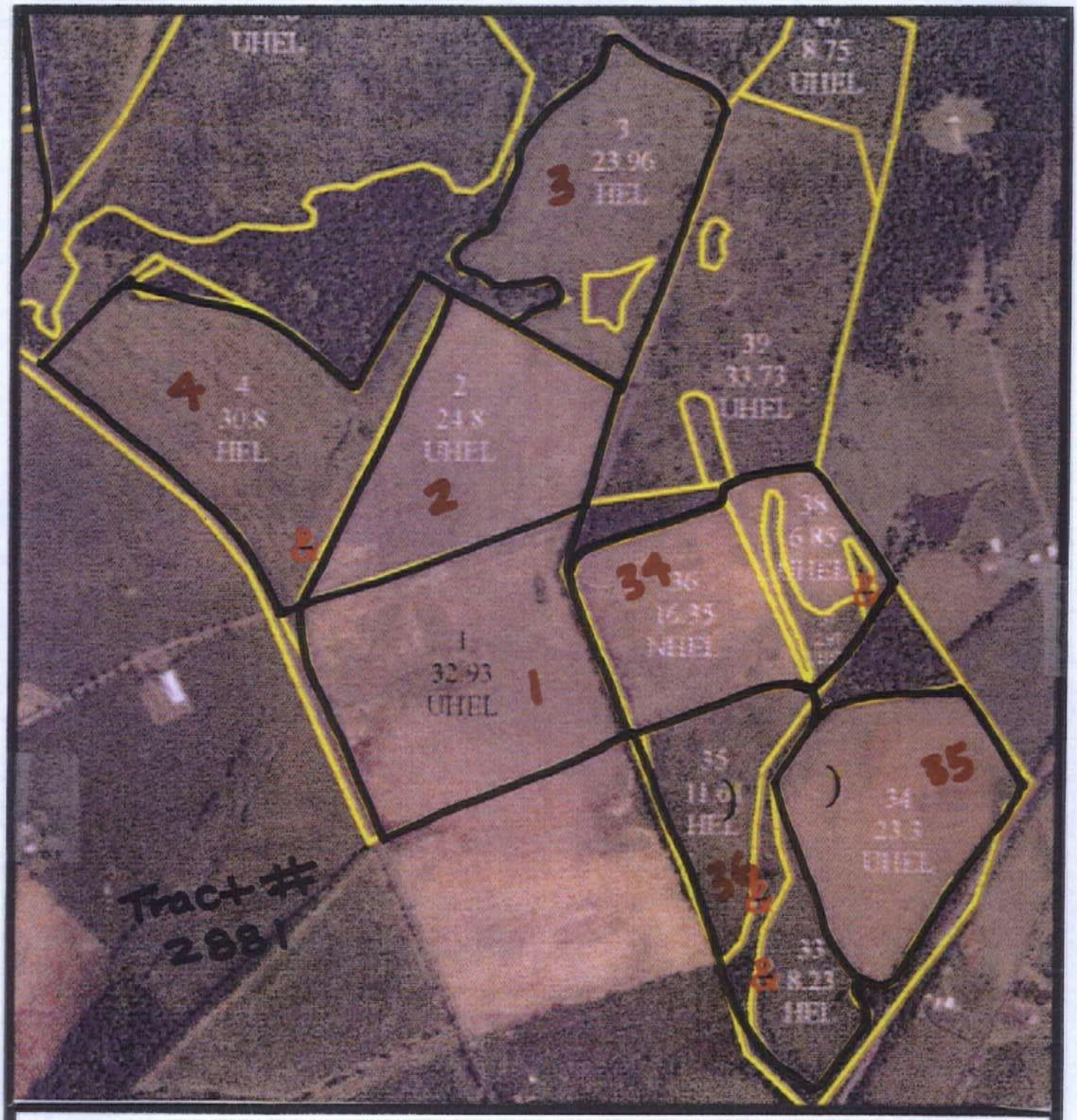
Scale: 1"= 660 ft.

CUWML 40-42

SOIL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



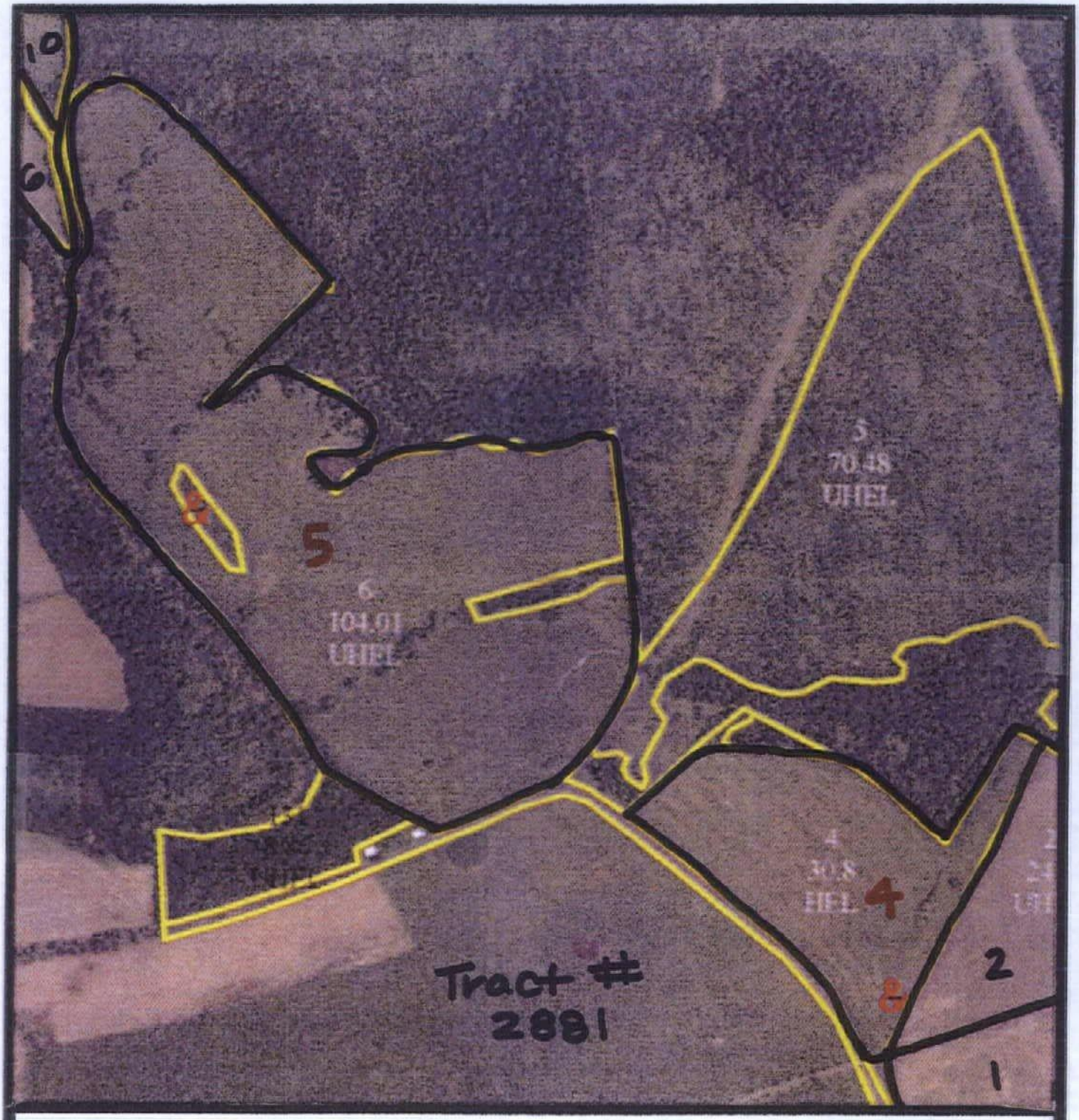
Scale: 1"= 660 ft.

CUWML 1-4, 34-36

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



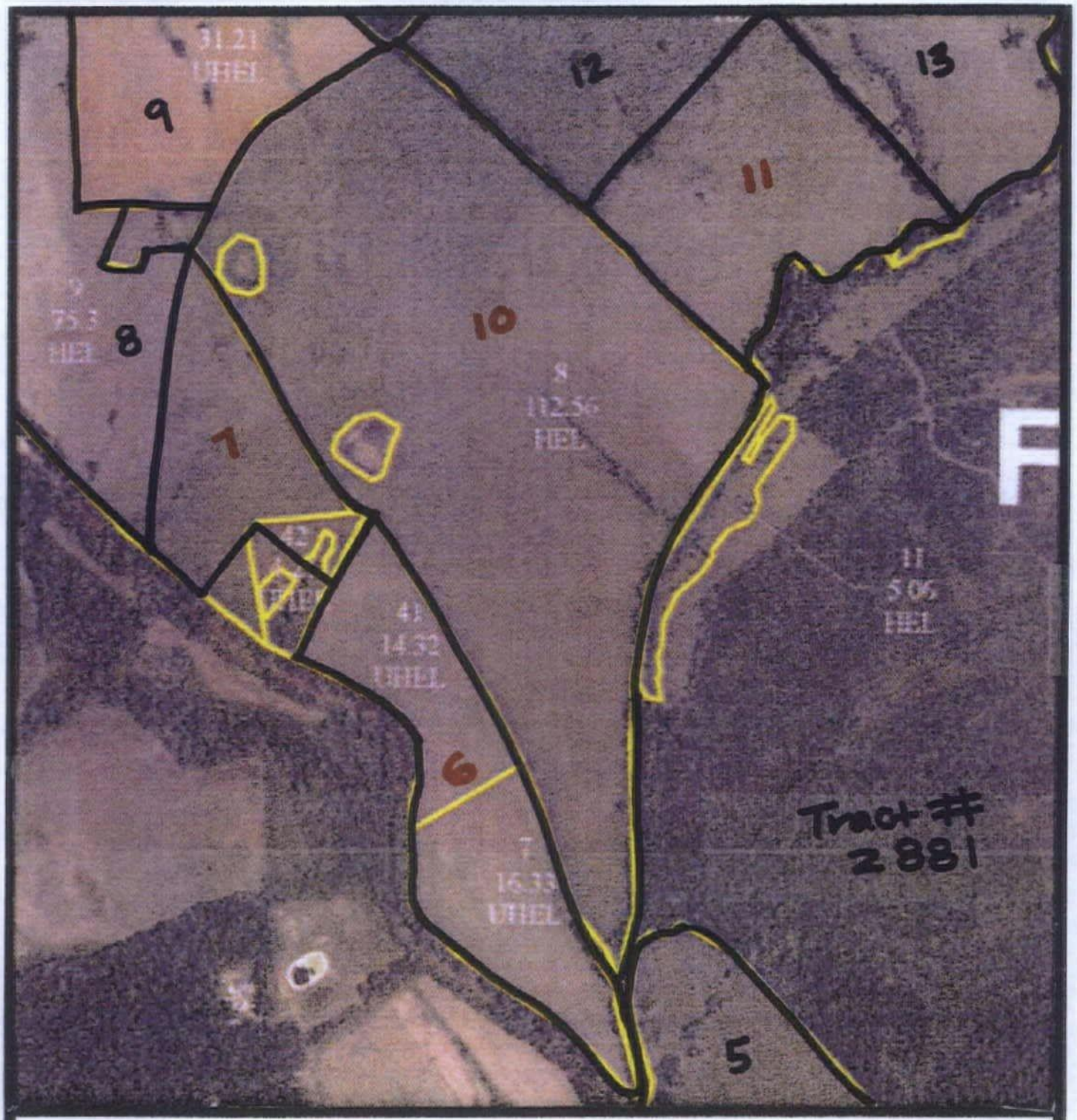
Scale: 1"= 660 ft.

CUWML 4-5

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

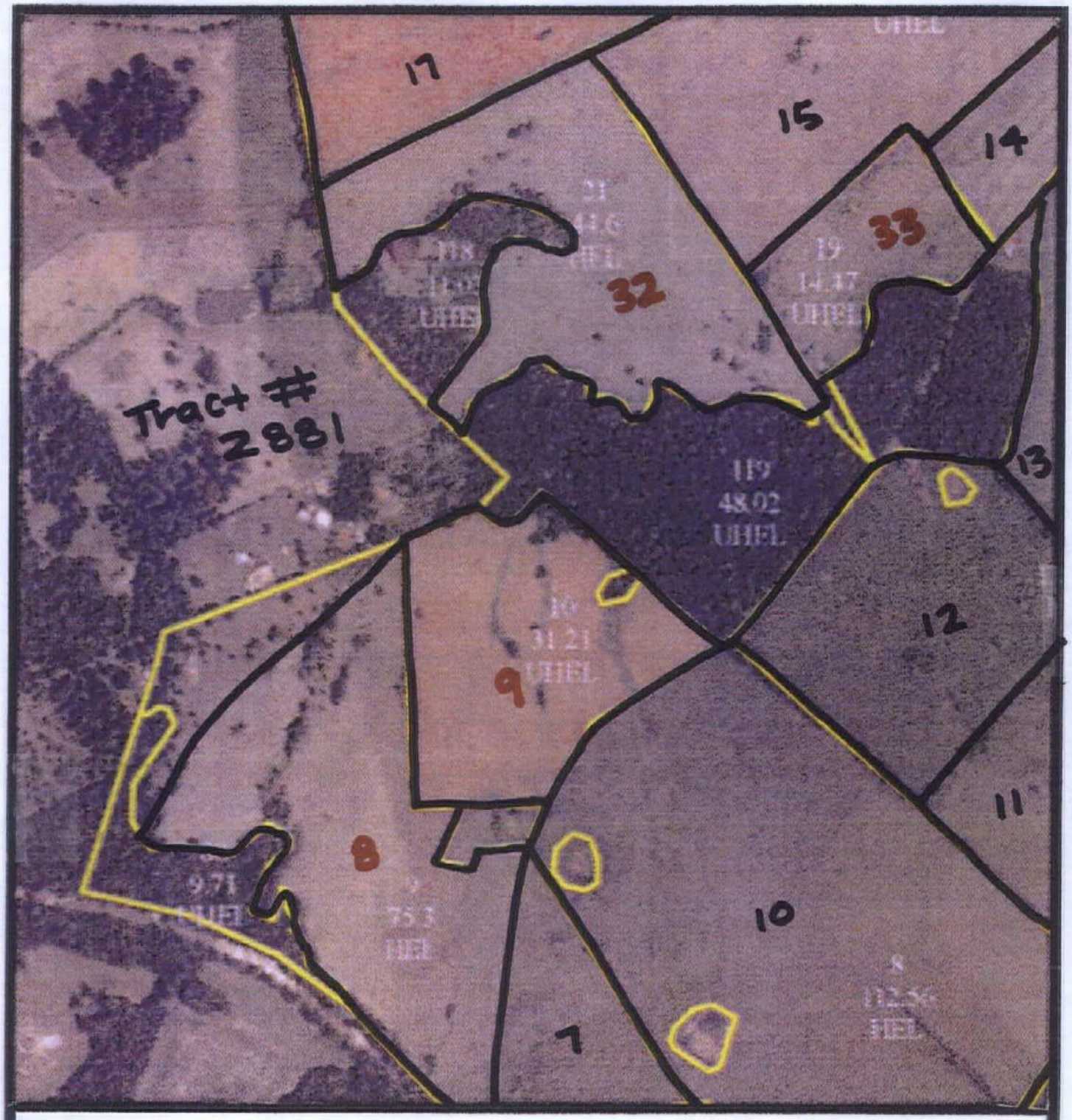


Scale: 1"= 660 ft. CUWML 6-7, 10-11

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



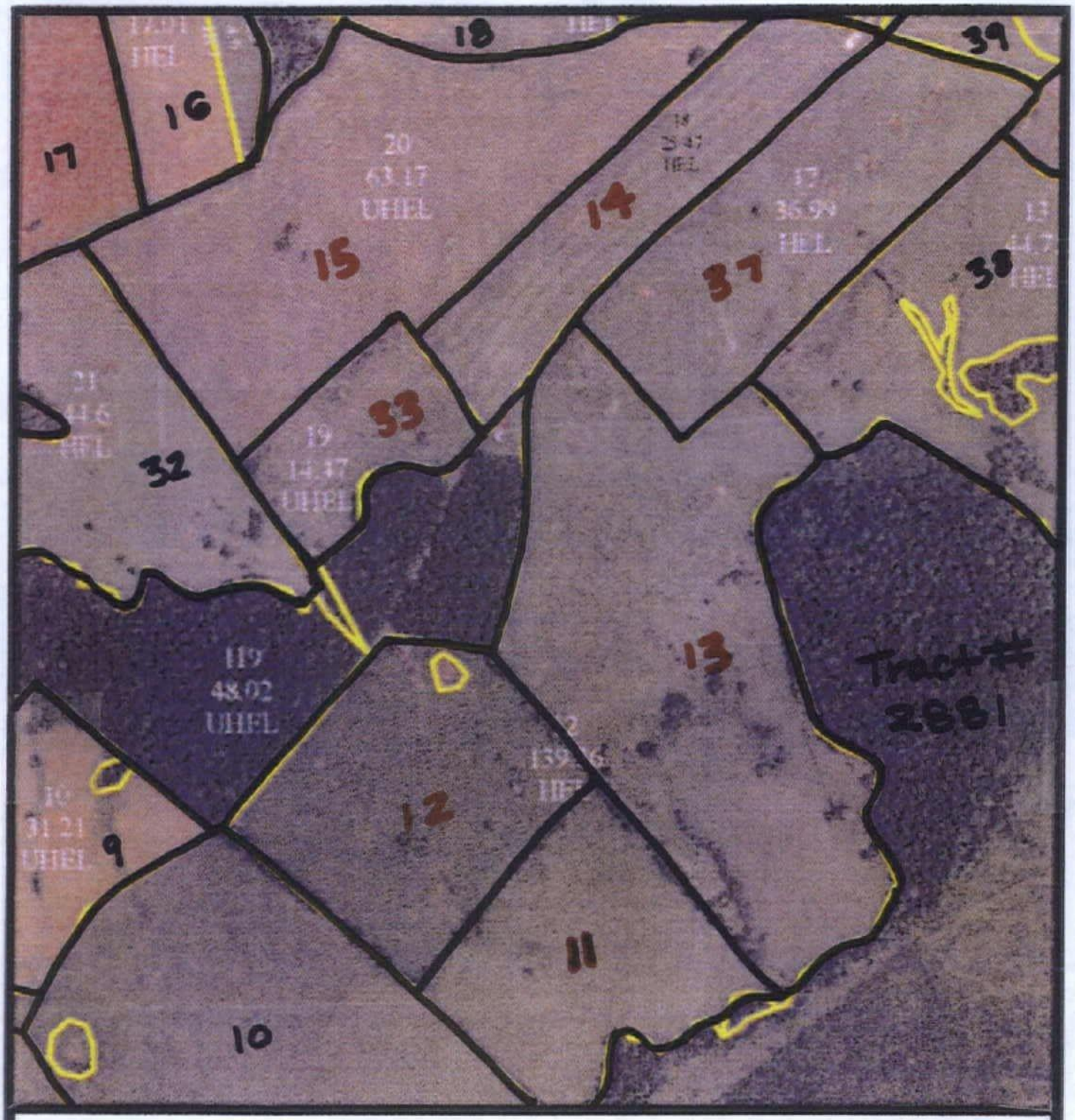
Scale: 1"= 660 ft.

CUWML 8-9, 32-33

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



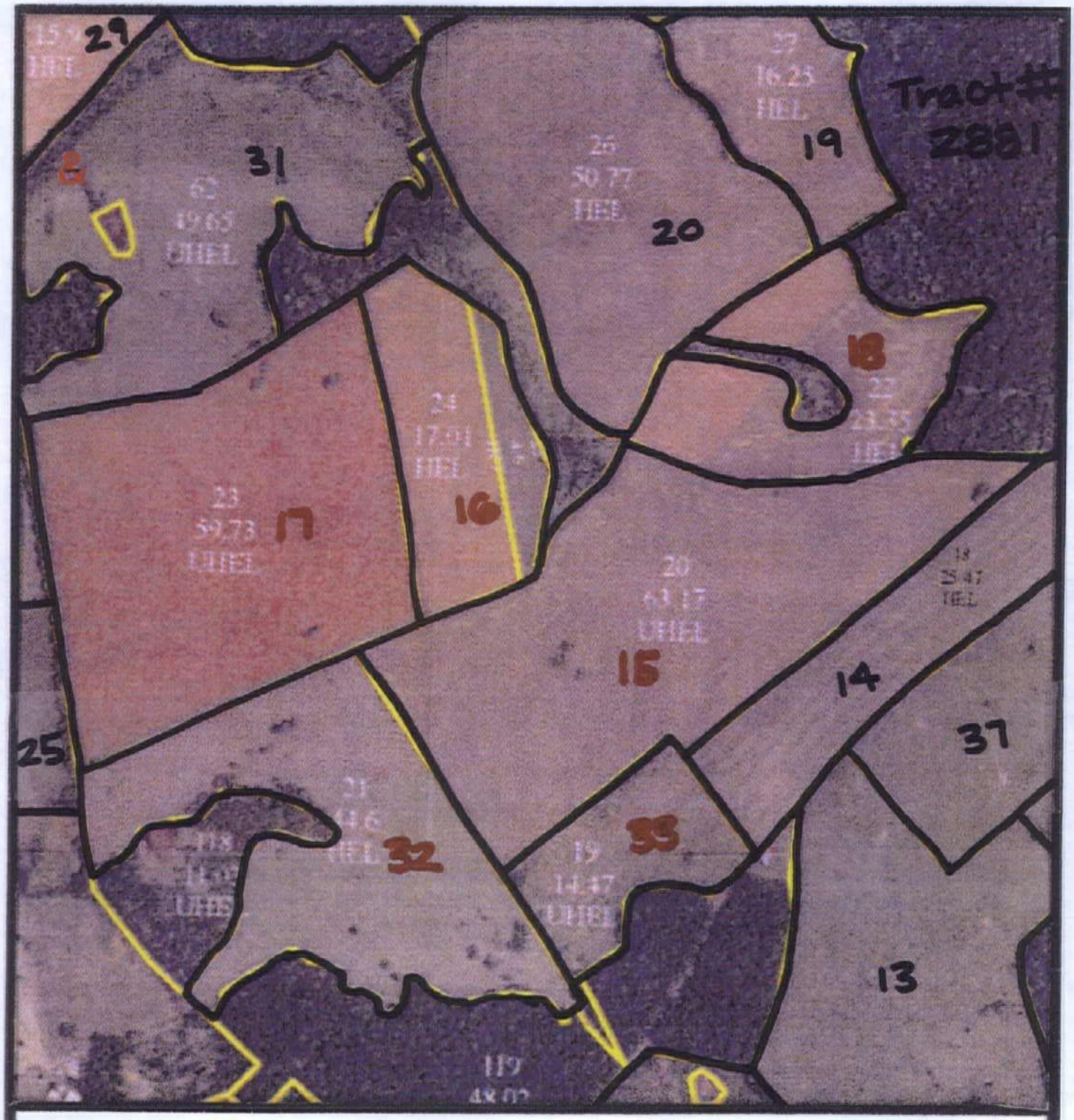
Scale: 1"= 660 ft.

CUWML 11-15, 33, 37

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



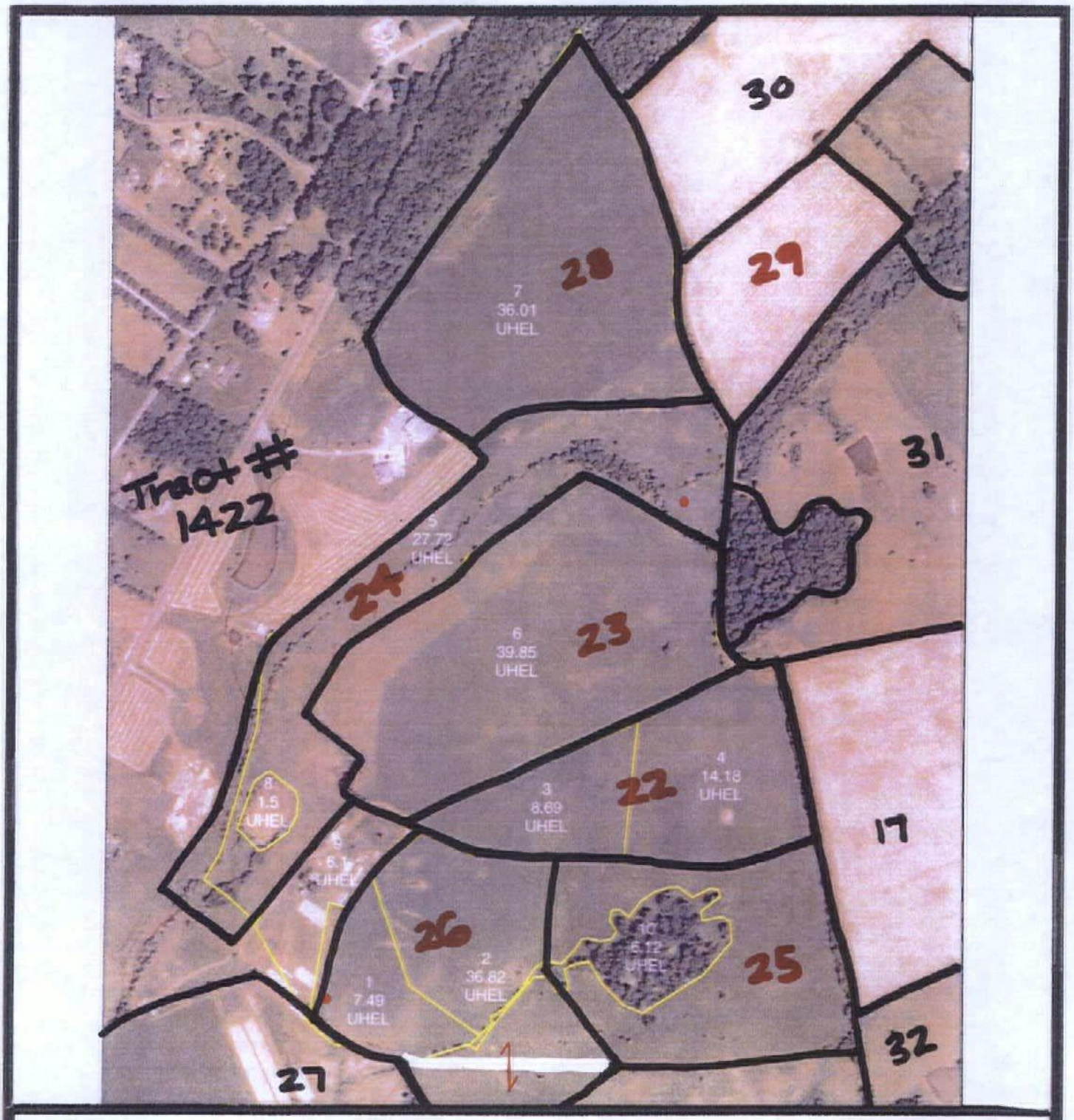
Scale: 1"= 660 ft.

CUWML 15-18, 32-33

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 660 ft.

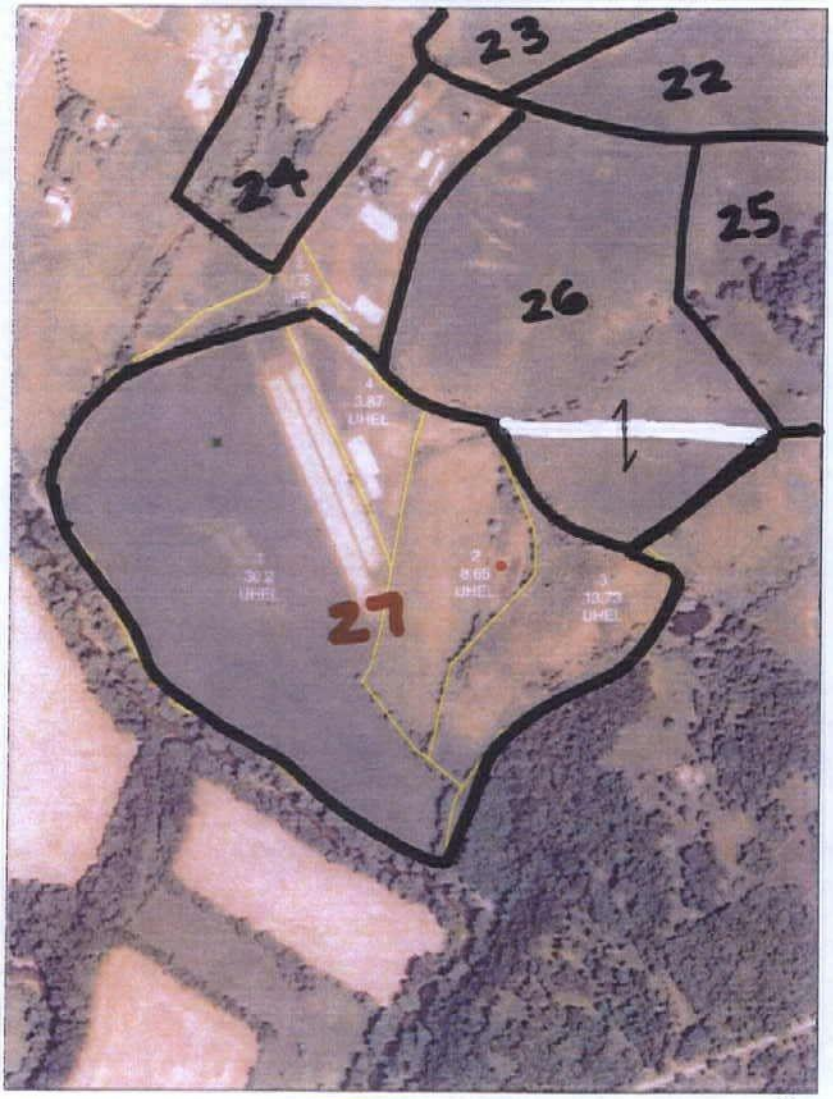
CUWML 22-26, 28-29

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)

USDA AGRICULTURE



FSN 2291 Tract 2842

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

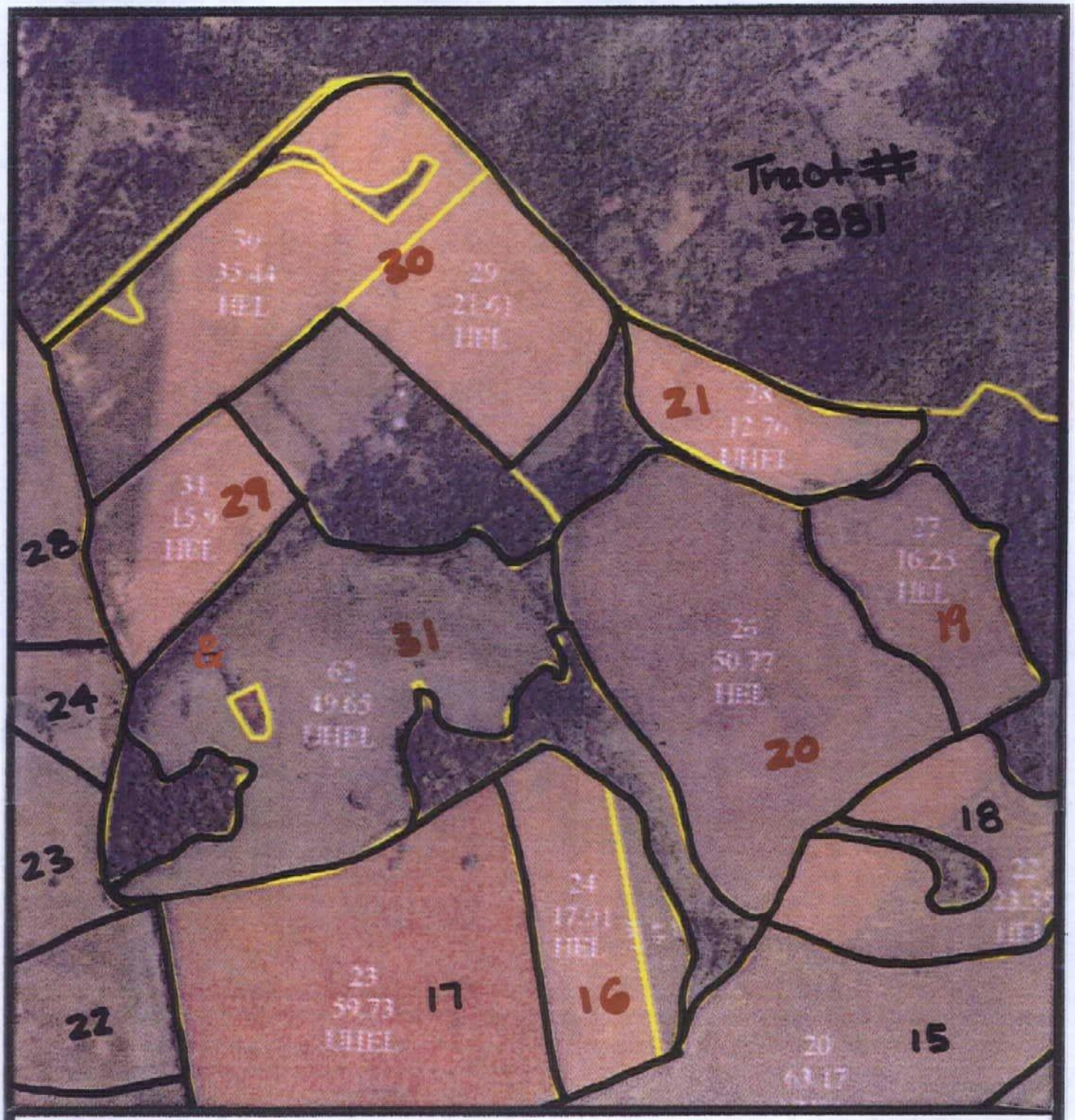
Scale: 1"= 660 ft.

CUWML 27

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



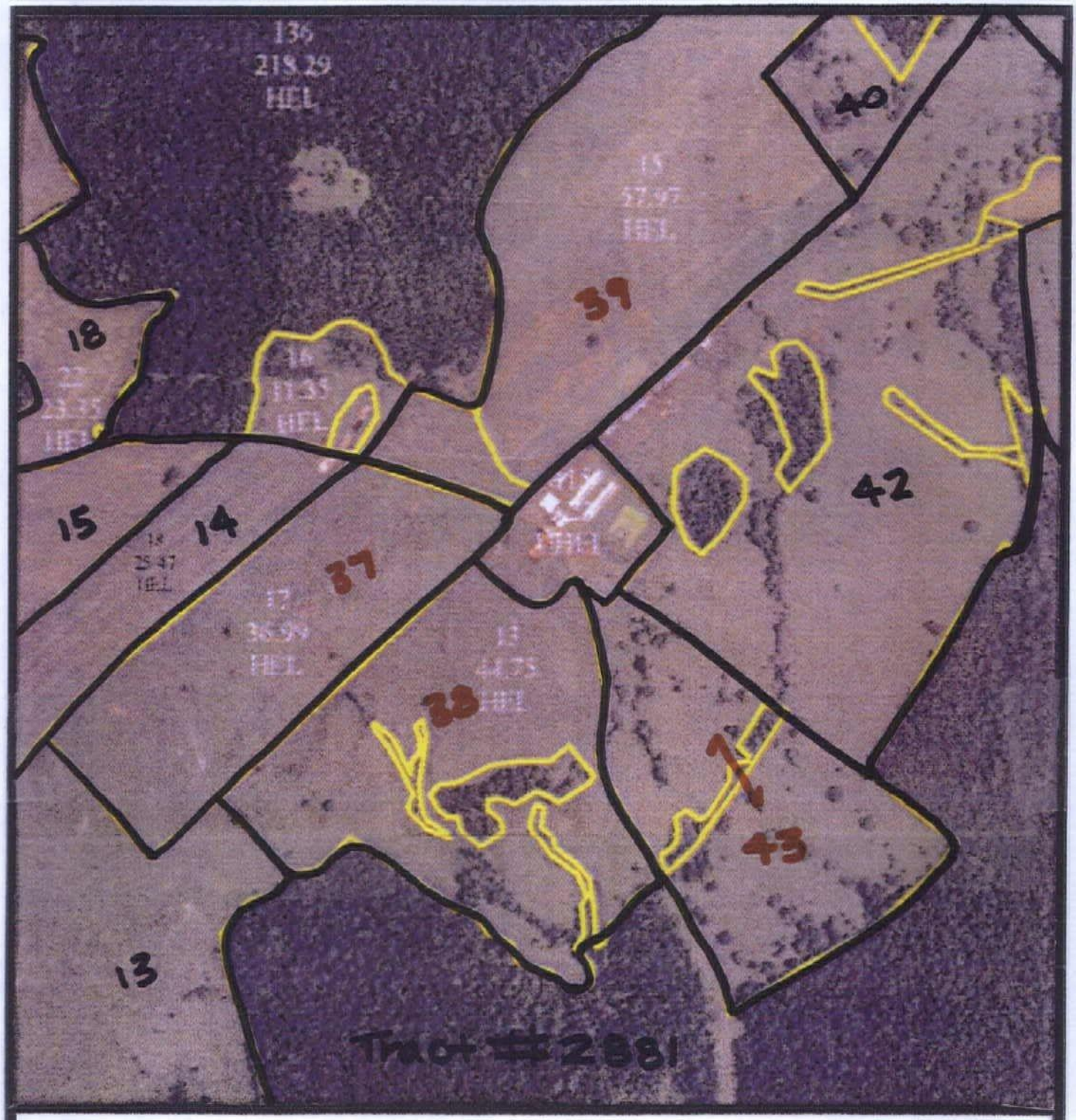
Scale: 1"= 660 ft.

CUWML 16, 20-21, 29-31

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



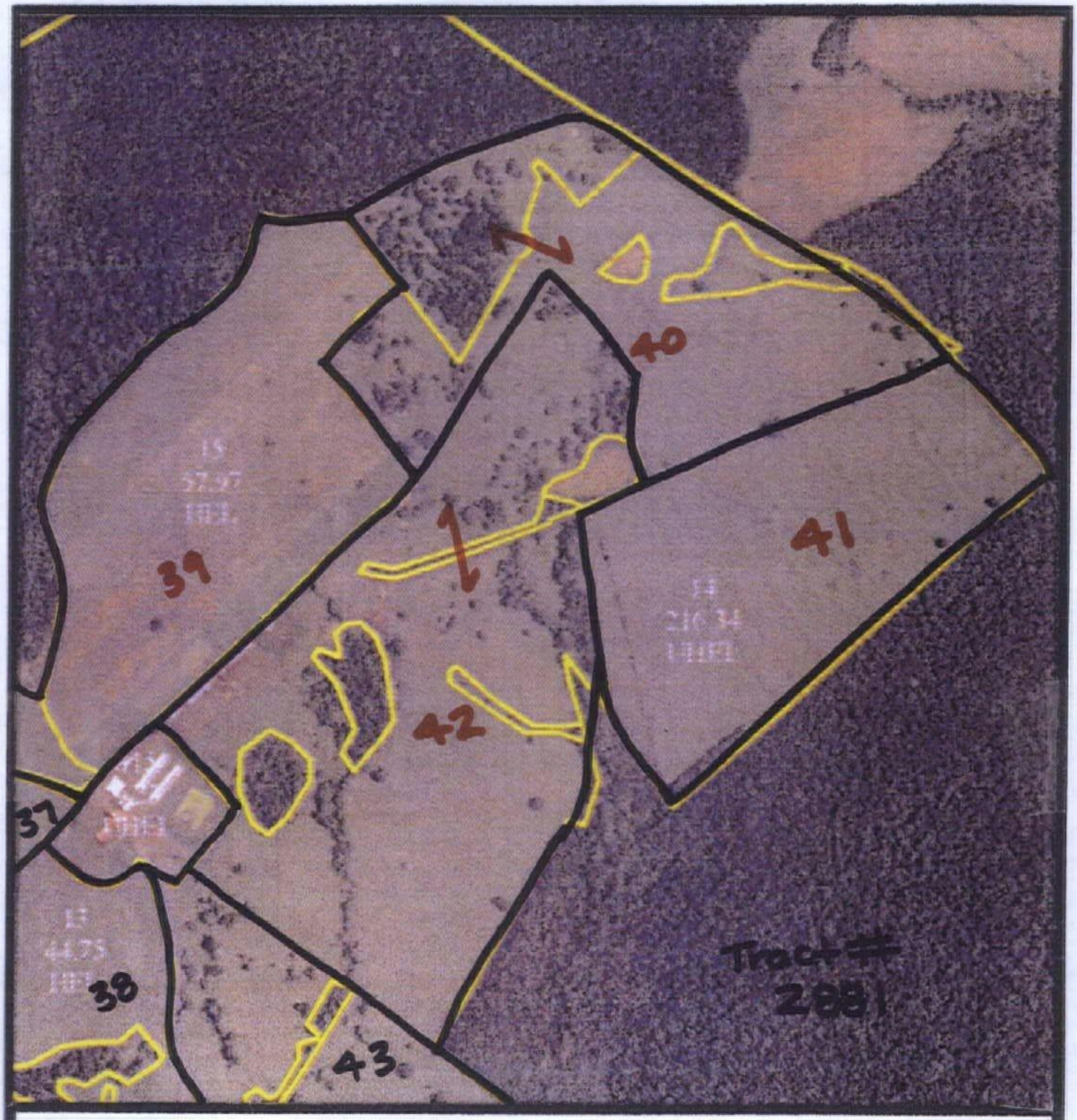
Scale: 1"= 660 ft.

CUWML 37-39, 43

AERIAL MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



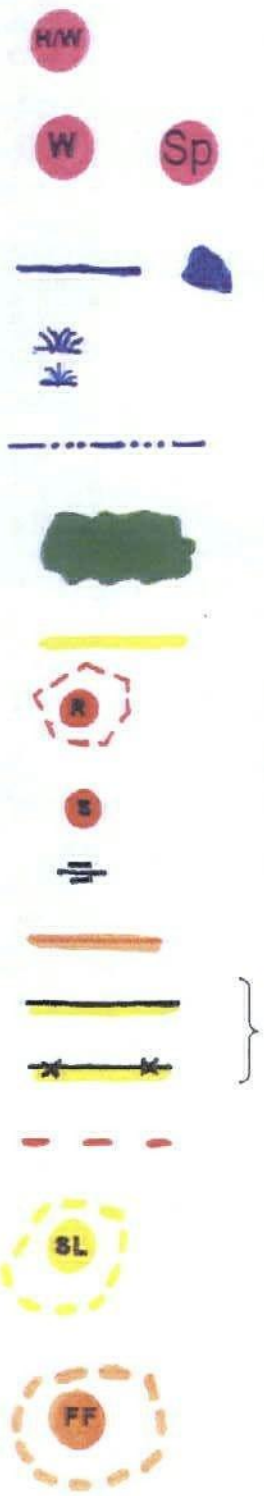
Scale: 1"= 660 ft.

CUWML 39-42

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

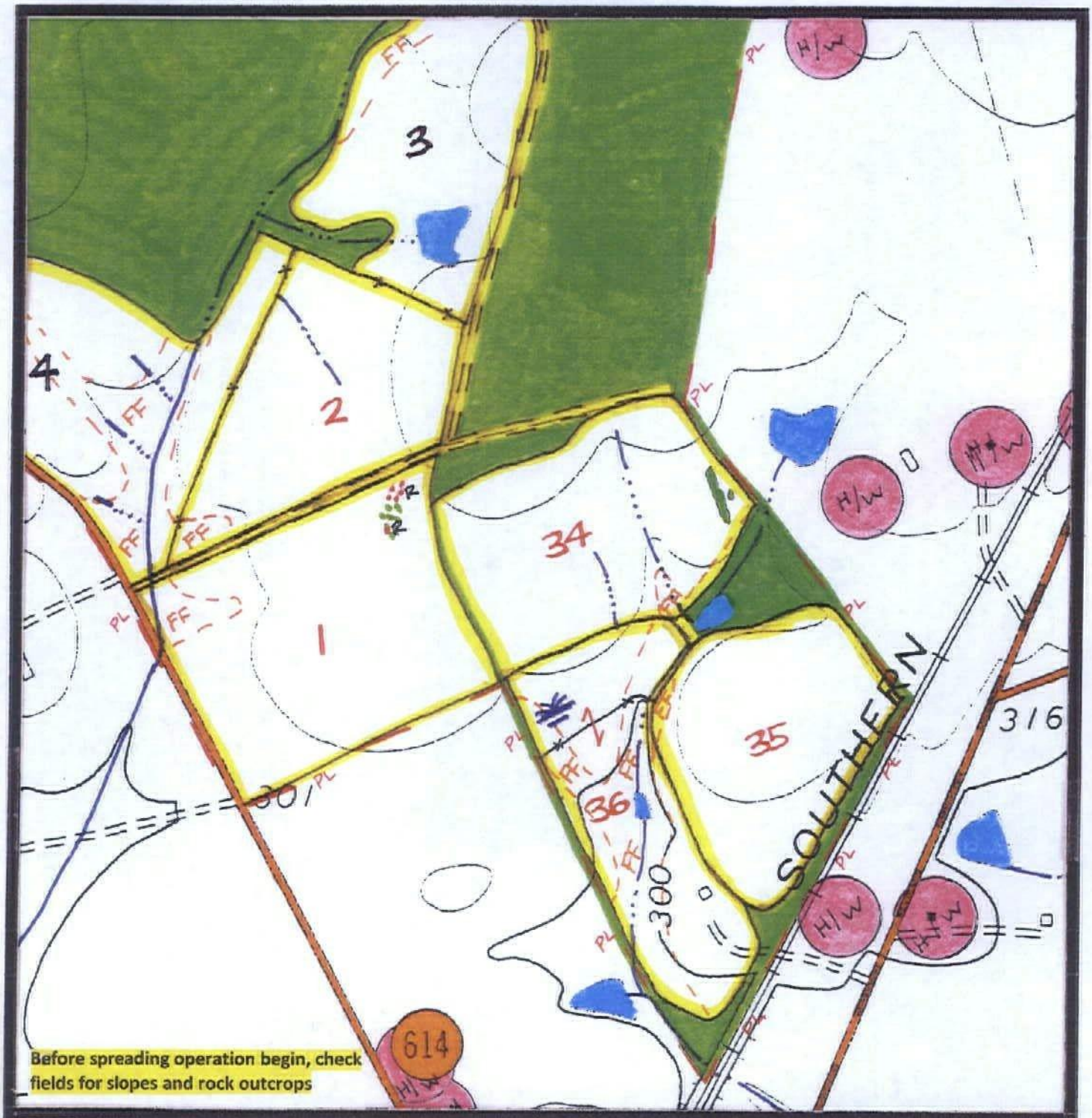
Field Boundary / Fence

Property Line

Slope

Frequent Flooded Soil

Recyc Systems™ Inc. (Biosolids Land Application)



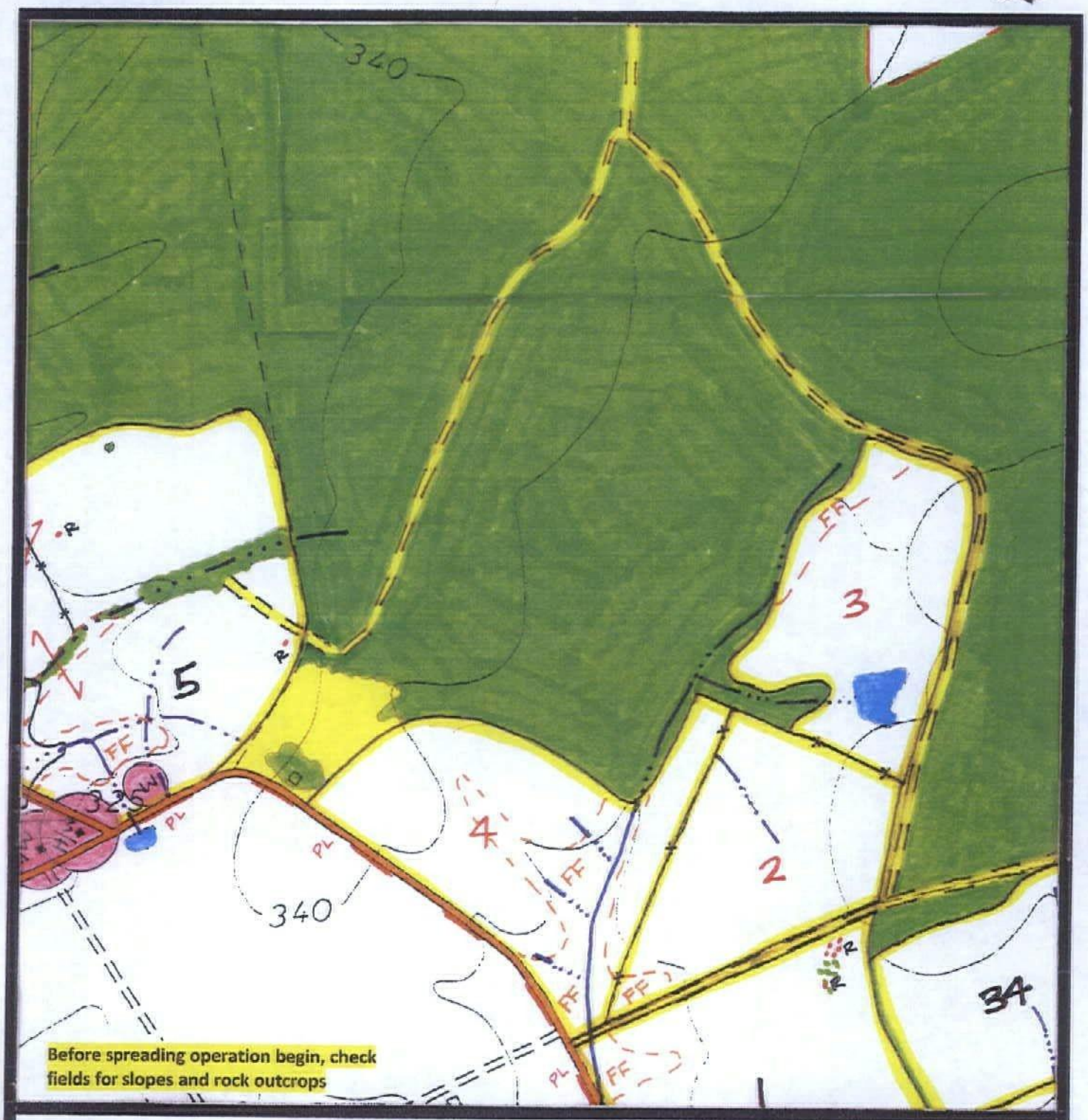
Scale: 1"= 660 ft.

CUWML 1-2, 34-36

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



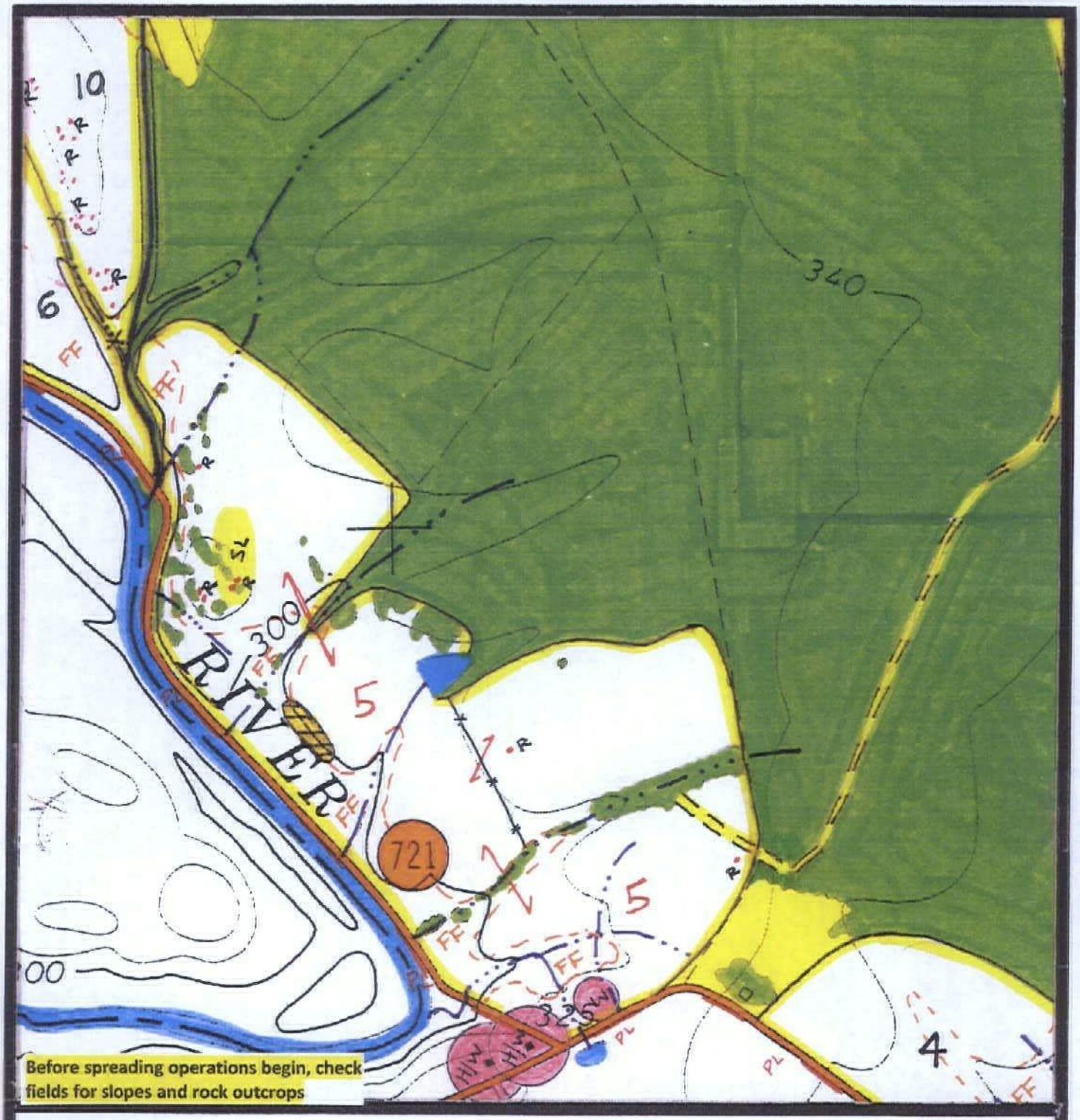
Scale: 1"= 660 ft.

CUWML 2-4

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



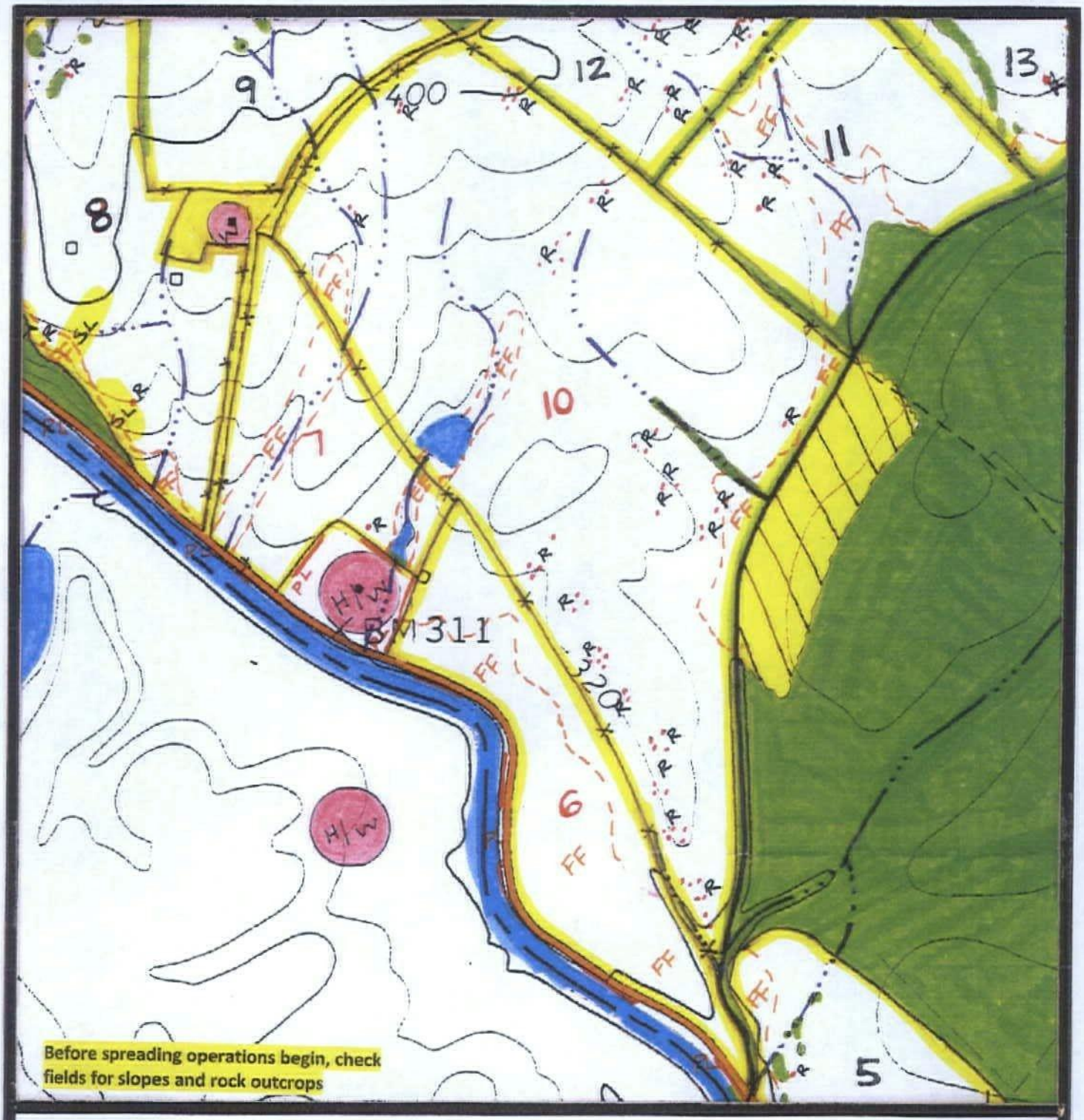
Scale: 1"= 660 ft.

CUWML 5

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



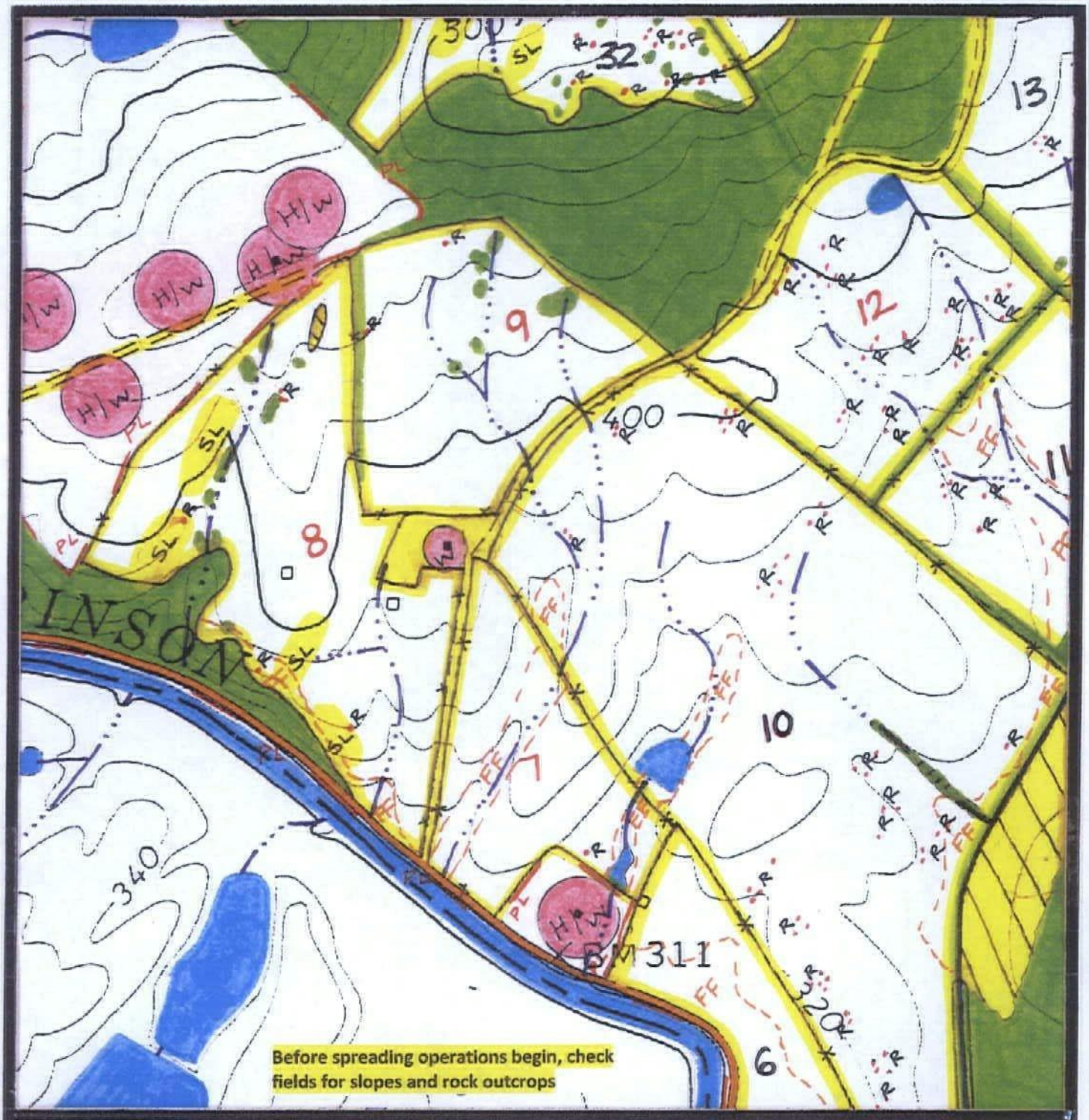
Scale: 1"= 660 ft.

CUWML 6-7, 10

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



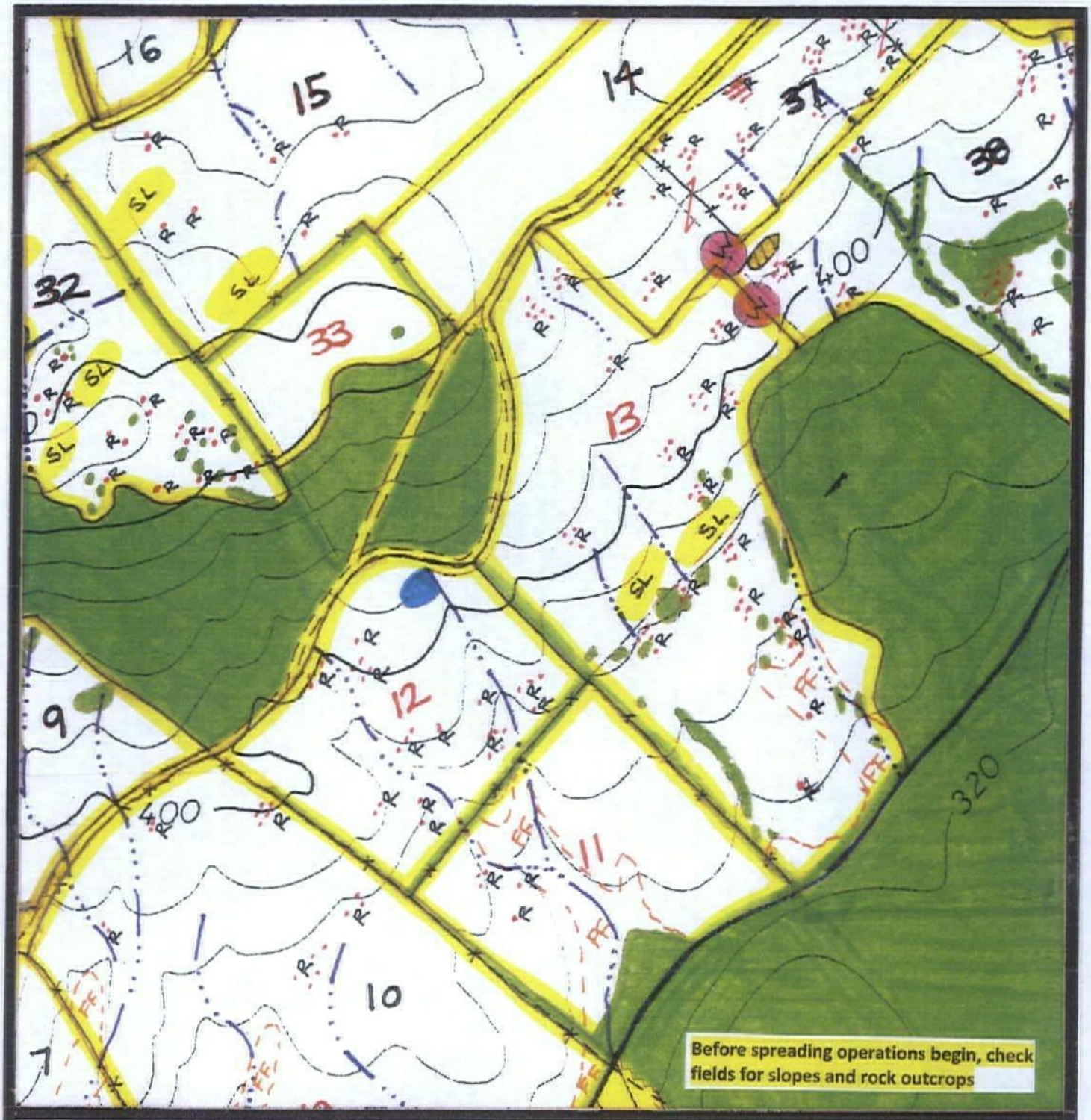
Scale: 1"= 660 ft.

CUWML 7-9, 12

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



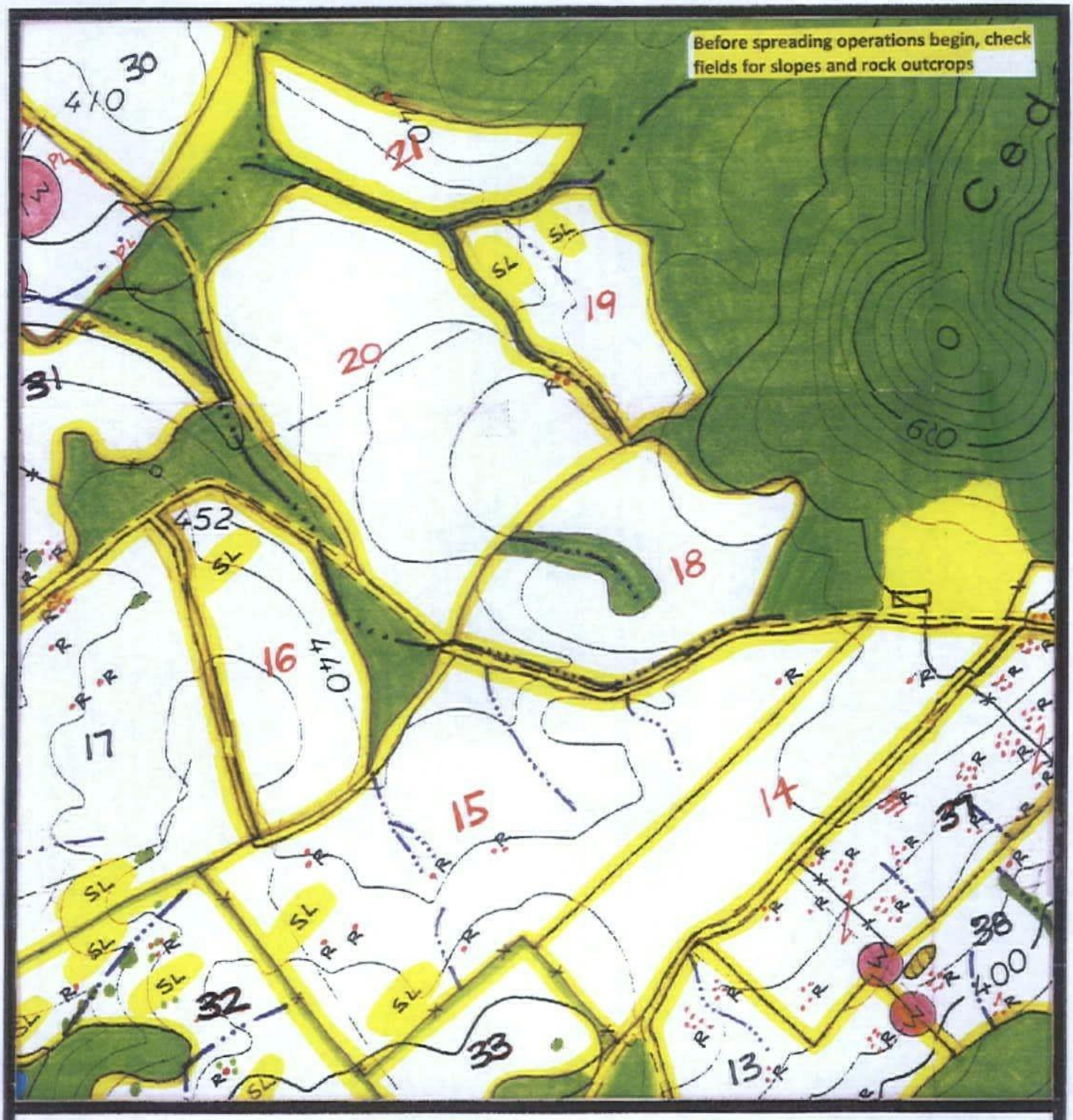
Scale: 1"= 660 ft.

CUWML 11-13, 33

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



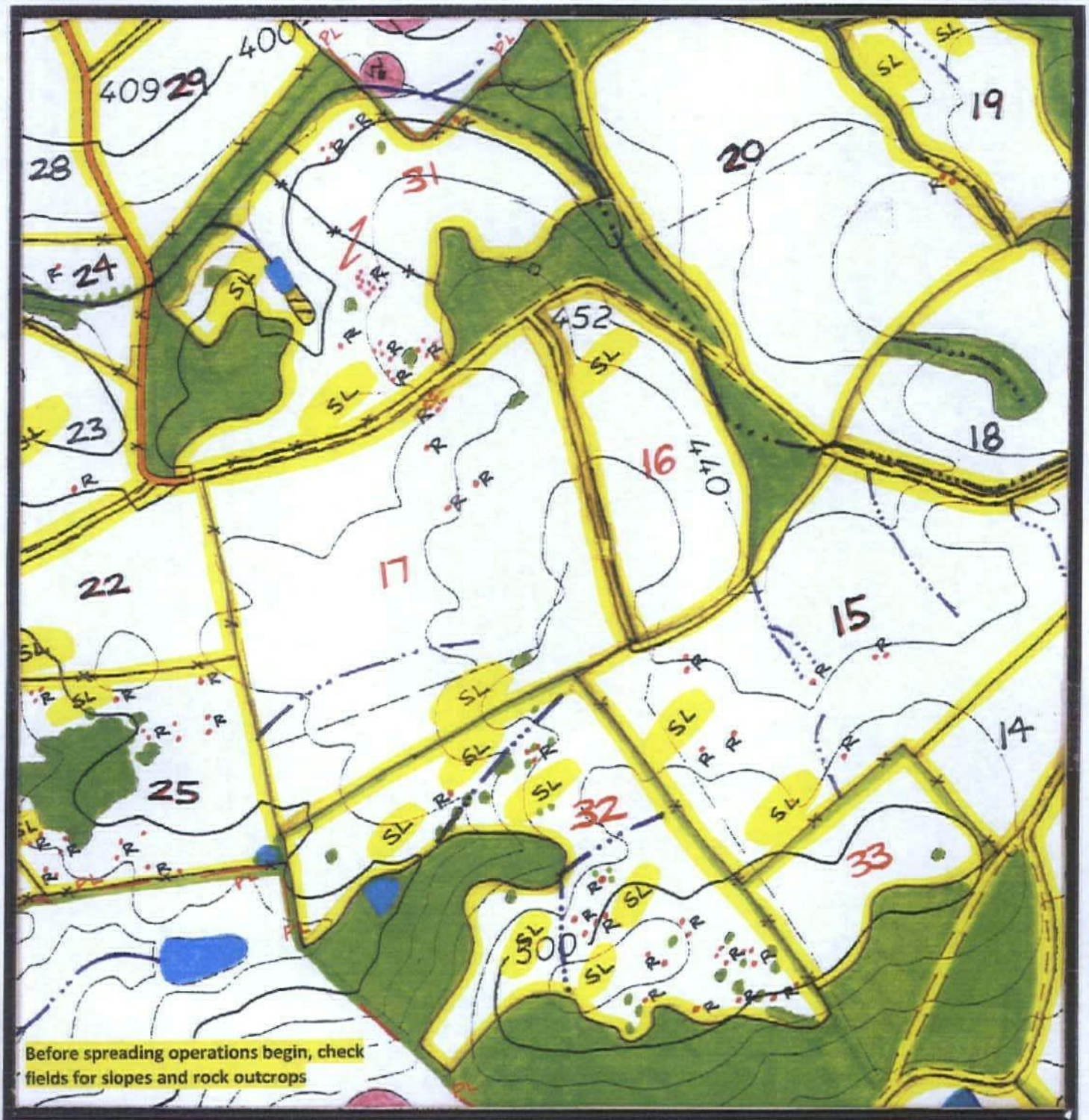
Scale: 1"= 660 ft.

CUWML 14-16, 18-21

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



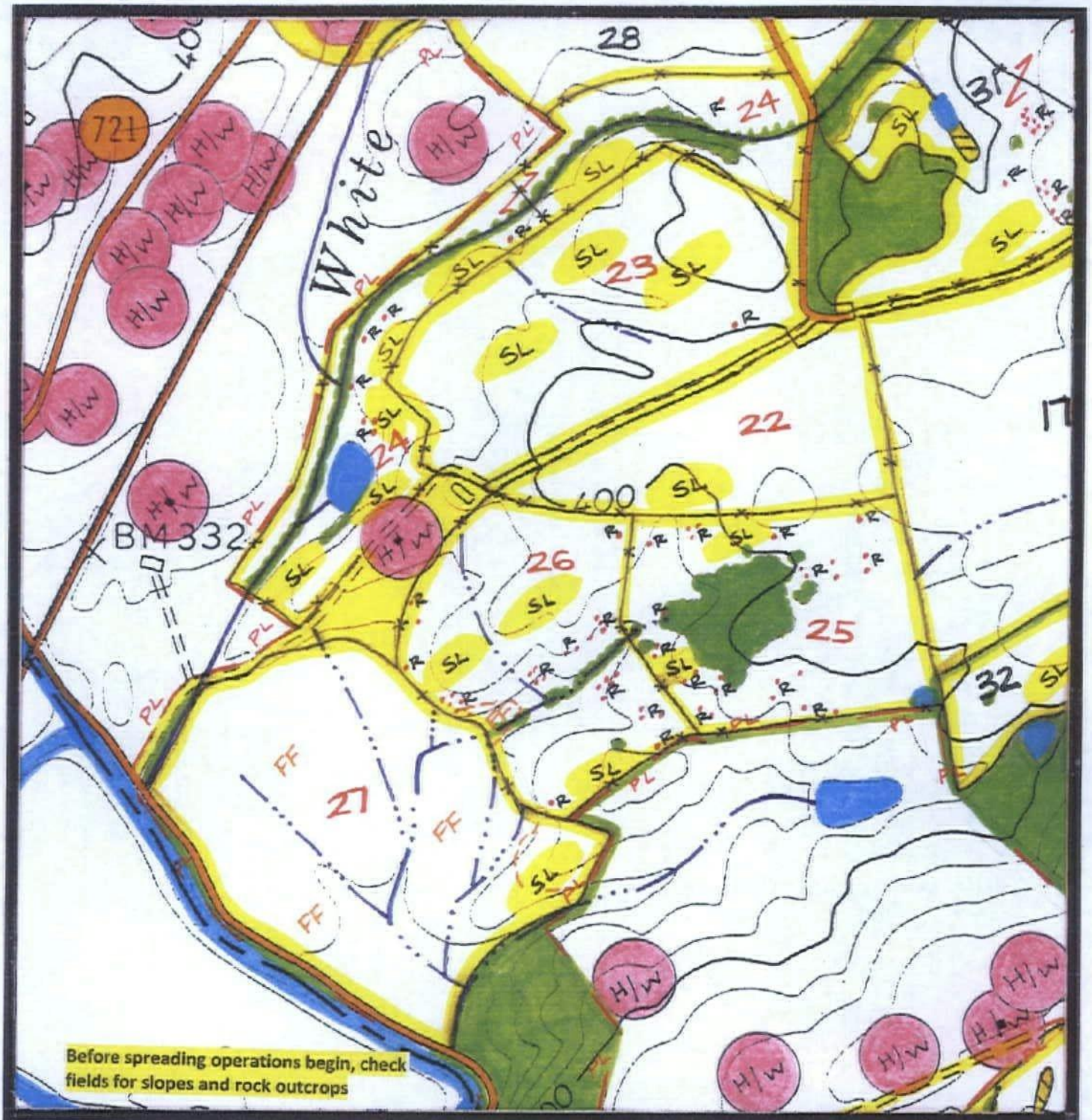
Scale: 1"= 660 ft.

CUWML 16-17, 31-33

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



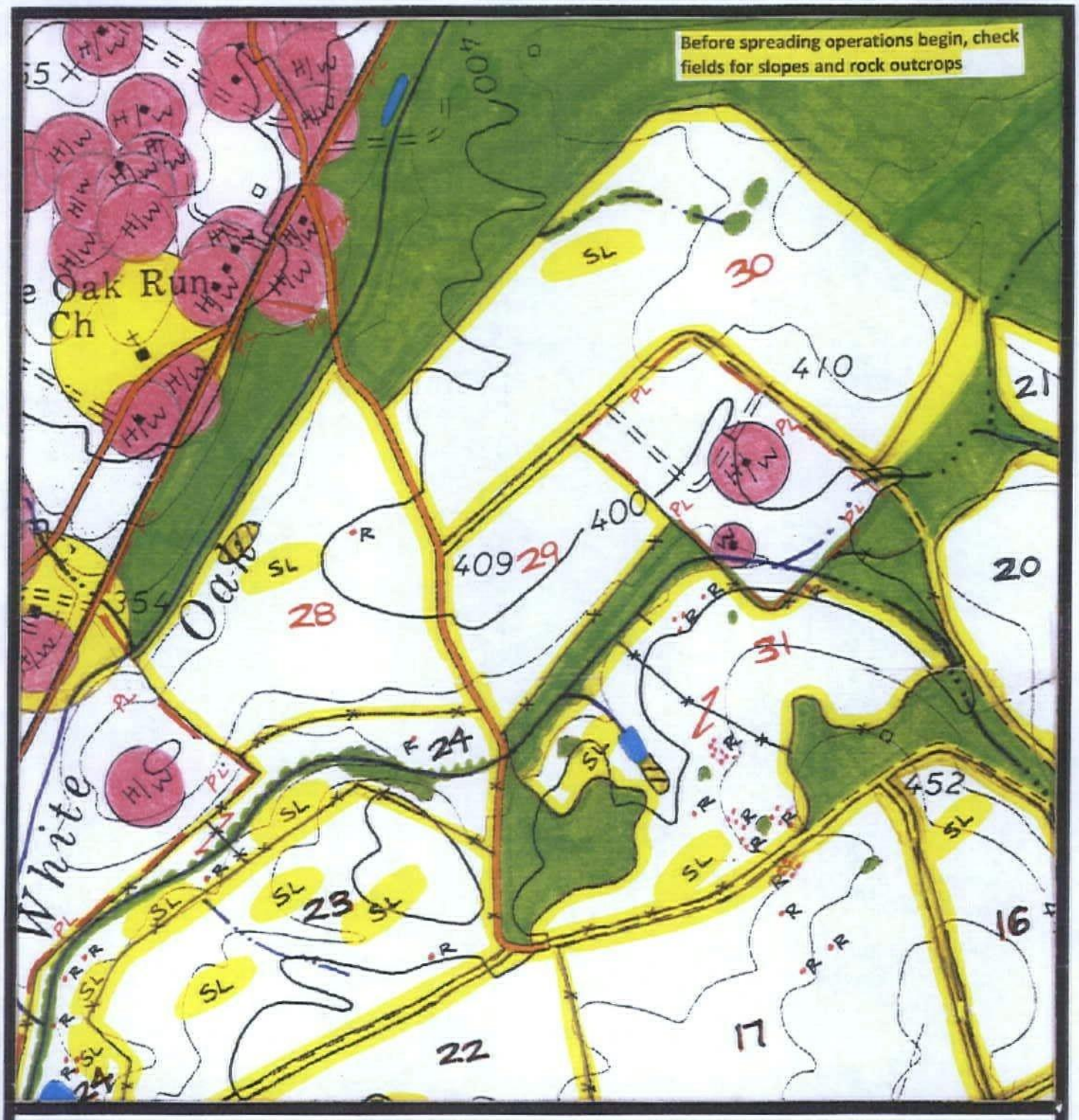
Scale: 1"= 660 ft.

CUWML 22-27

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



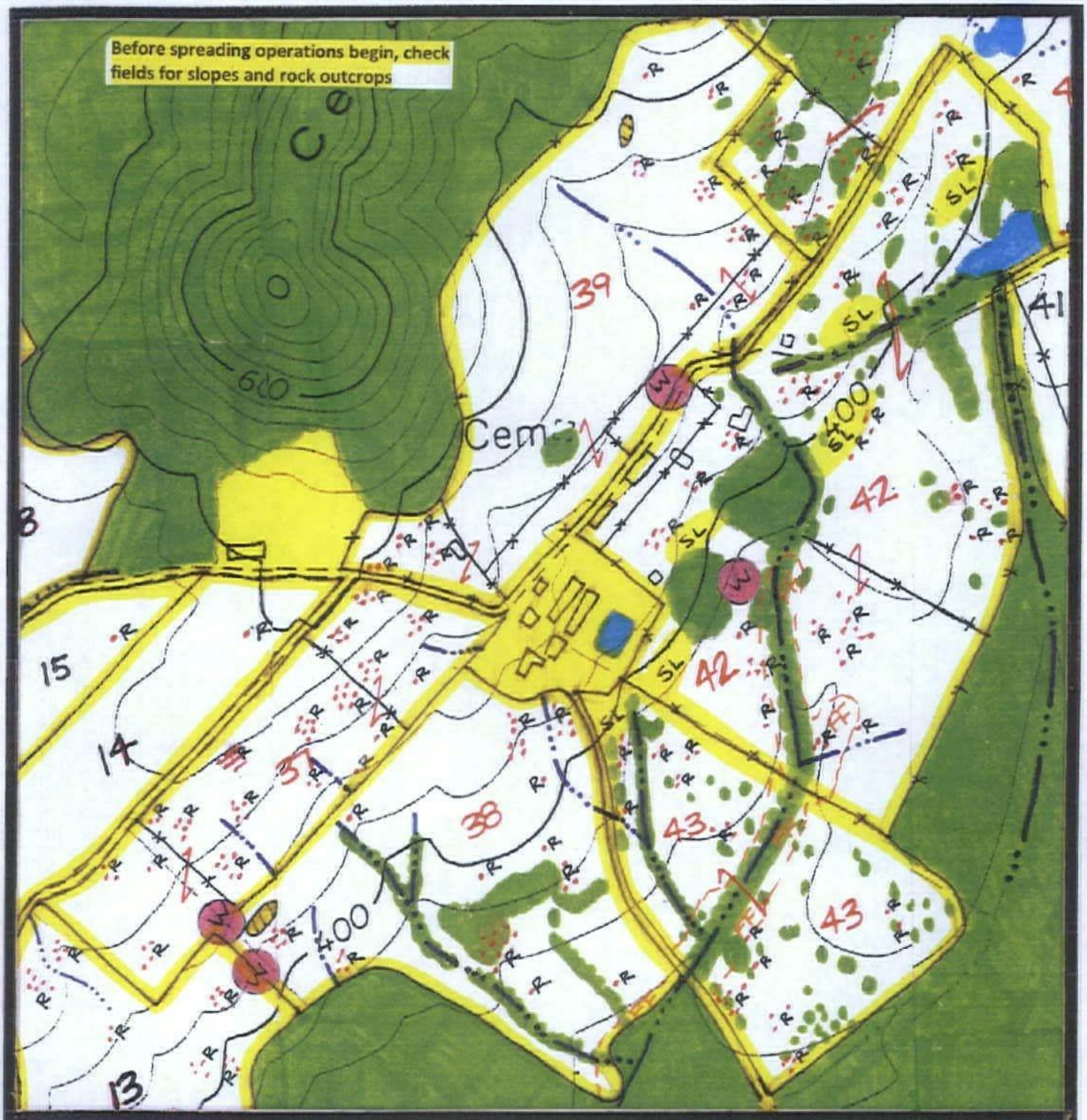
Scale: 1"= 660 ft.

CUWML 28-31

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



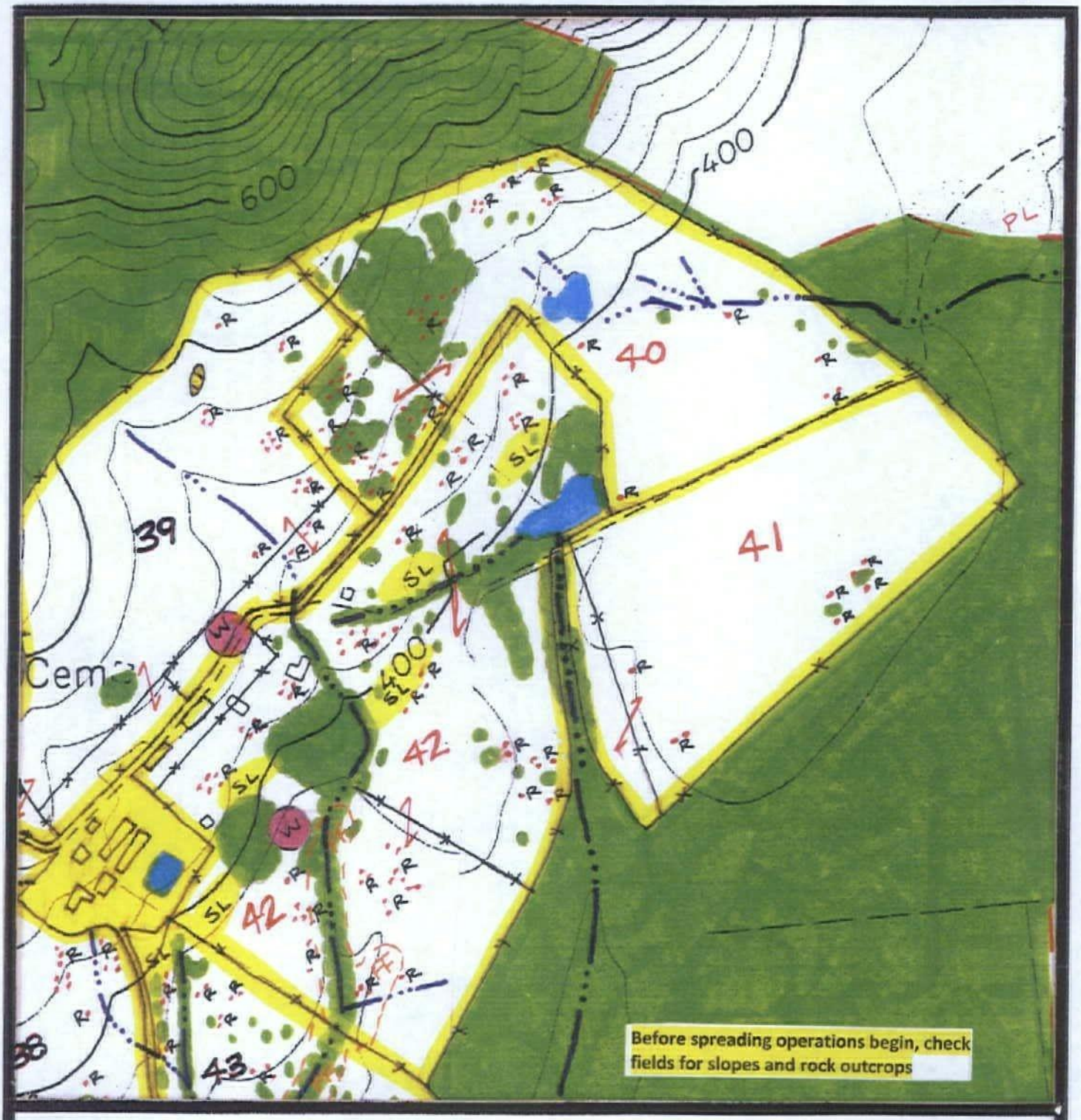
Scale: 1"= 660 ft.

CUWML 37-39, 42-43

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



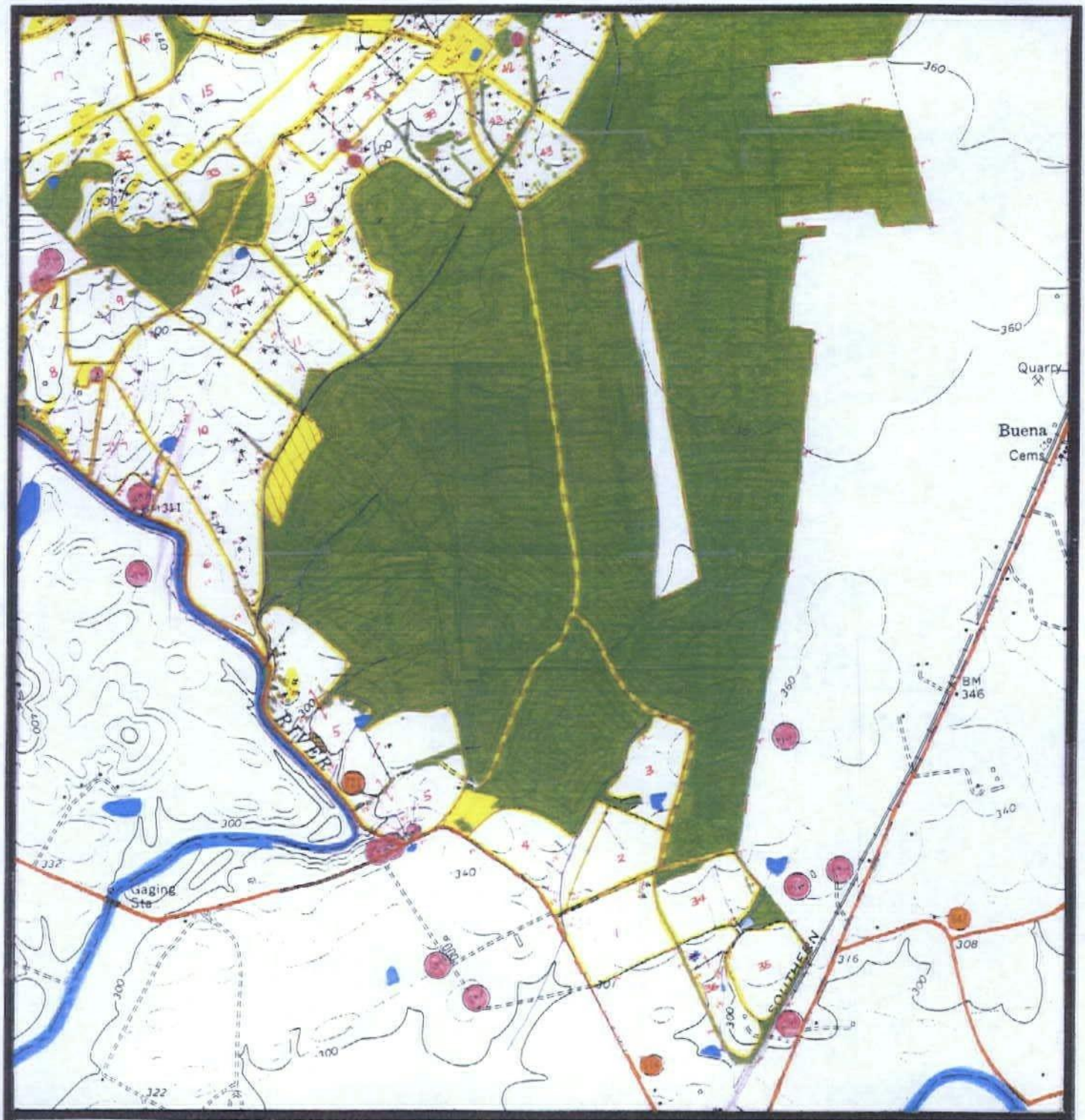
Scale: 1"= 660 ft.

CUWML 40-42

SITE PLAN

N

Recyc Systems™ Inc. (Biosolids Land Application)



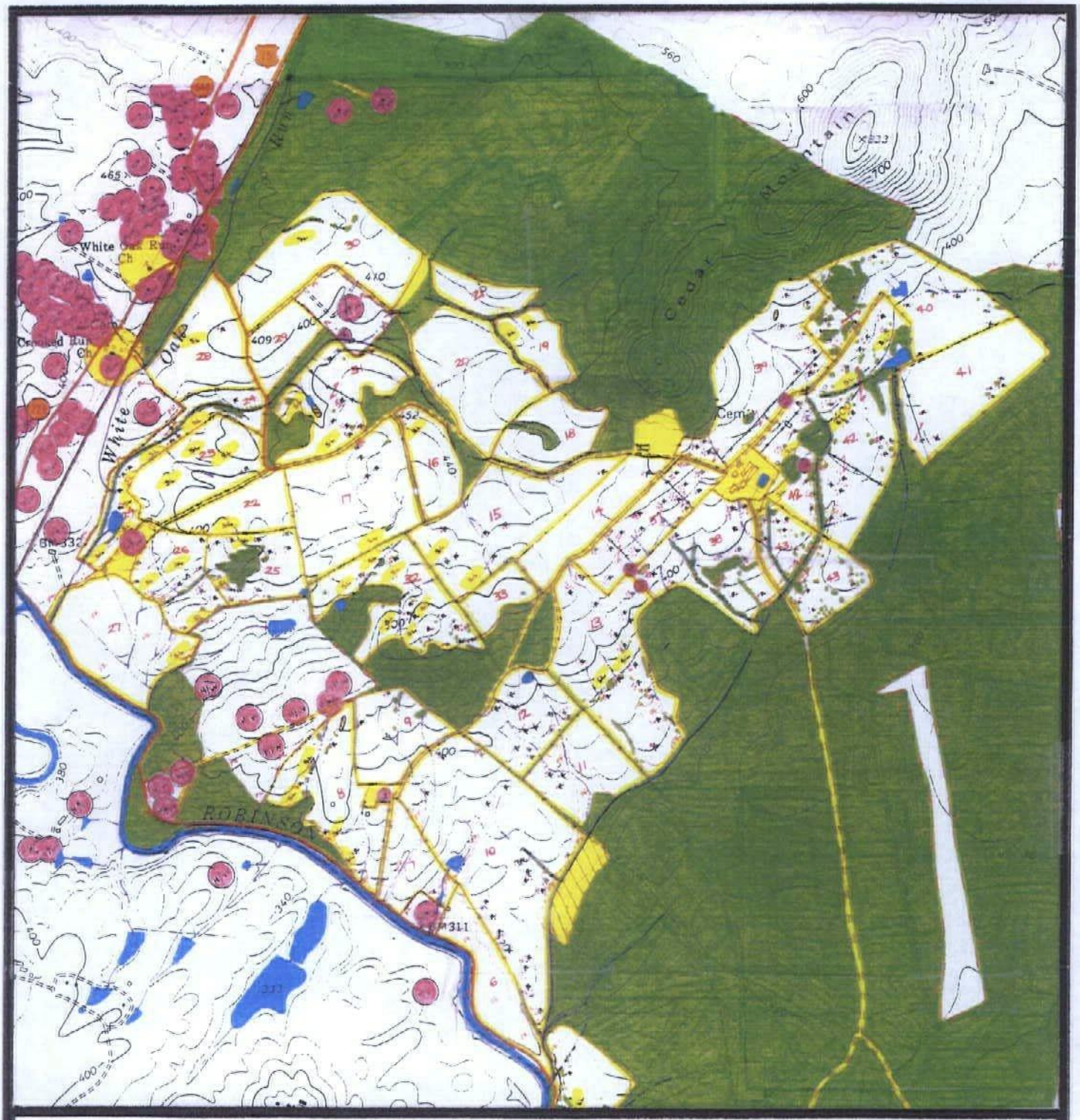
Scale: 1"= 2000 ft.

CUWML 1-15, 32-38, 43

TOPOGRAPHIC MAP

N

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 2000 ft.

CUWML 6-33, 37-43

TOPOGRAPHIC MAP

N