

LAND APPLICATION SITE

R W BRIDGMAN SITE

DWRWB 1

DINWIDDIE COUNTY

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

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

A. This land application agreement is made on 12-4-12 between RENNIE W. BRIDGMAN, JR referred to here as "Landowner", and Recyc Systems, Inc referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in DINWIDDIE, 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
TM 65, P29			

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

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

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

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

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

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

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

<u>RENNIE W. BRIDGMAN JR.</u> <u>JACKIE T. BRIDGMAN</u>	Signature	<u>17805 Old Cryders RD</u> <u>McKENNEY VA. 23872</u> 804-586-0840
Landowner - Printed Name, Title		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)

<u>Strumb</u>	Signature	<u>PO Box 562 Remington, Virginia 22734</u>
Permittee - Authorized Representative		Mailing Address
Printed Name		

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

Permittee: Recyc Systems, Inc County or City: DINWIDDIE
Landowner: RENNIE W. JR & JACKIE T. BRIDGMAN

Landowner Site Management Requirements:

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

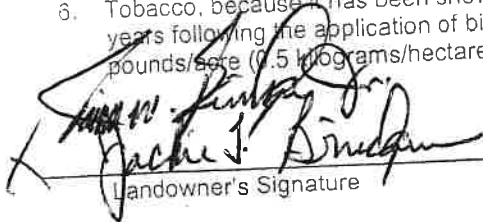
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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

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

Following biosolids application to pasture or hayland sites:

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


Landowner's Signature

12/4/12
Date

Farm Operator Signature

Mailing Address & Phone Number

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
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Landowner:

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<u>TM 65, P29</u>			

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

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

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

<u>RENNIE W. BRIDGMAN JR.</u>	<u>Jackie T. Bridgman</u>	<u>17805 Old Cryders RD</u>
<u>JACKIE T. BRIDGMAN</u>	<u>Jackie T. Bridgman</u>	<u>McKENNEY VA. 23892</u>
Landowner - Printed Name, Title	Signature	Mailing Address & Phone Number
		<u>804-586-0840</u>

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)

<u>Stromb</u>	<u>Stromb</u>	<u>PO Box 562 Remington, Virginia 22734</u>
Permittee - Authorized Representative	Signature	Mailing Address
Printed Name		

RECYC SYSTEMS, INC

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

This biosolids application agreement is made on 12-8-11 between R.W + JACKIE BRIDGMAN referred to here as "landowner", and Recyc Systems, Inc referred to here as the "Permittee".

Landowner is the owner of agricultural land shown on the map attached as Exhibit A and designated there as _____ ("landowner's land"). Permittee agrees to apply and landowner agrees to comply with certain permit requirements following application of biosolids on landowner's land in amounts and in a manner authorized by (VPA) (VPDES) permit number _____ which is held by the Permittee.

Landowner acknowledges that the appropriate application of biosolids will be beneficial in providing fertilizer and soil conditioning to the property and consents to the application of biosolids on his property. Moreover, landowner acknowledges having been expressly advised that, in order to protect public health:

1. Public access to landowner's land upon which biosolids have been applied should be controlled for at least 30 days following any application of biosolids and 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;
2. 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. 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, or 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation. Other food crops, feed crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
3. Following biosolids application to pasture or hayland sites, meat producing livestock should not be grazed or fed chopped foliage for 30 days and lactating dairy animals should be similarly restricted for a minimum of 60 days. Other animals should be restricted from grazing for 30 days;
4. Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids 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 to be supplied to the landowner by the permittee at the time of application of biosolids to a specific permitted site;
5. Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).
6. 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 the permitting authority.

The landowner agrees to allow county officials access to the area of the property permitted for biosolids, whenever necessary, to complete site inspections related to the scheduled biosolids program.

Permittee agrees to notify landowner or landowner designee of the proposed schedule for biosolids application and specifically prior to any particular application to landowner's land. This agreement may be terminated by either party upon written notice to the address specified below.

[Signature]
Landowner Signature:

Jackie S. Bridgman
Landowner Print Name

Mailing Address:
17805 Old Croyors RD.

McKENNEY, VA. 23872

Phone: 804-586-0840

Farm Operator Signature:

Farm Operator Print Name:

Mailing Address:

Phone:

Permittee:
Recyc Systems, Inc.

Mailing Address:
P.O. Box 562
Remington Virginia 22734
(540) 547-3300

RECYC SYSTEMS, INC

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

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Permittee agrees to notify landowner or landowner designee of the proposed schedule for biosolids application and specifically prior to any particular application to landowner's land. This agreement may be terminated by either party upon written notice to the address specified below.

Landowner Signature:

Landowner Print Name

Mailing Address:

Phone: _____

Mailing Address:
18401 OLD CRYORS RD

McKENNEY VA. 23872

Phone: 804-478-5728

Mailing Address:
P.O. Box 562
Remington Virginia 22734
(540) 547-3300

Claude Townsend
Farm Operator Signature:

CLAUDE V. TOWNSEND
Farm Operator Print Name:

Permittee:
Recyc Systems, Inc.

FARM DATA SHEET

SITE NAME:	R W Bridgman Site	COUNTY:	Dinwiddie
OWNER:	R.W., Jr. & Jackie T. Bridgman	OPERATOR:	Claude V. Townsend
OWNER'S ADDRESS:	17805 Old Cryors Rd. McKenney, VA 23872	OPERATOR'S ADDRESS:	18401 Old Cryors Rd McKenney, VA 23872
OWNER'S TELEPHONE:	804-586-0840	OPERATOR'S TELEPHONE:	804-478-5728
GENERAL FARM TYPE:	Hay	CELL PHONE:	804-691-0747
# CATTLE:	None	EMAIL:	
LAGOON or SLURRY:	None	LATITUDE:	37° 01' 42" <i>37.028</i>
TOPO QUAD:	Darvilles	LONGITUDE:	77° 48' 09" <i>-77.802</i>
COMMENTS:			

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #	FSA Field #
		Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood				
DWRWB 01	12.1	-	-	-	-	CU 11	65-29	404	1, 13, 14, 15
TOTAL ACRES IN SITE	12.1								

** Field ID abbreviated throughout book **

NUTRIENT MANAGEMENT PLAN IDENTIFICATION

Operator

Claude Townsend
18401 Old Cryors Road
McKenney, VA 23872
804-478-5728

Integrator:None

Farm Coordinates

Easting: 0, Northing: 0, zone: 17

Watershed Summary

watershed: CU11
county: Dinwiddie

Nutrient Management Planner

Recyc Systems Inc
Recyc Systems, Inc
P.O. Box 562
Remington, Virginia 22734
540.547.3300

Certification Code: None

Acreage Use Summary

Total Acreage in this plan: 12.1
Cropland: 0.
Hayland: 12.1
Pasture: 0.
Specialty: 0.

Livestock Summary

Beef Cattle 0
Dairy Cattle 0
Poultry 0
Swine 0
Other 0

Manure Production Balance

	Imported	Produced	Exported	Used	Net
kgals	0.	0.	0.	0.	0.
tons	0.	0.	0.	0.	0.

Plan written 12/28/2011

Valid until 12/28/2011

Signature: _____

Planner

_____ date

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2012-Summer, 2013)
RW Bridgman
Planner: Recyc Systems Inc

Tract: 404 Location: Dinwiddie
(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	
1,13,14,15/DWRW B 1(N)	12/12	2012	Fescue grass hay mt.	90-70-200	0/0				90-70-200	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

THE PLANNER IS NOT STATE CERTIFIED

RW Bridgman Narrative

This is Bridgman Farm located in Diniwiddie County. The farm consists of hay fields.

This is a partial plan written for the purpose of obtaining a biosolids permit. Biosolids application has not been shown since it is uncertain when a biosolids permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids applicaiton rate.

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
404	DWRWB 1	12	2011-Wi	M+ (41 P ppm)	L+ (47 K ppm)	A&L MIII	6.1		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
404	404/1,13, 14,	DWRWB 1	12	Cecil	IVa	II	III	II	

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, 2012 - Summer, 2013**

Farm Name: **RW Bridgman**
Location: Dinwiddie
Specialist: Recyc Systems Inc
N-based Acres: 12.1
P-based Acres: 0.0

Tract Name: **404**
FSA Number: 404
Location: Dinwiddie

Field Name: **DWRWB 1**
Total Acres: 12.10 Usable Acres: 12.10
FSA Number: 1,13,14,15
Tract: 404
Location: Dinwiddie
Slope Class: B Hydrologic Group: B

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

Conservation Practices:
Pasture (>75% cover)

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

Soil Test Results:

DATE	PH	P	K		Lab
Wi-2011	6.1	M+(41 P ppm)	L+(47 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
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44 2B Appling
56 4B Cecil

Field Warnings:

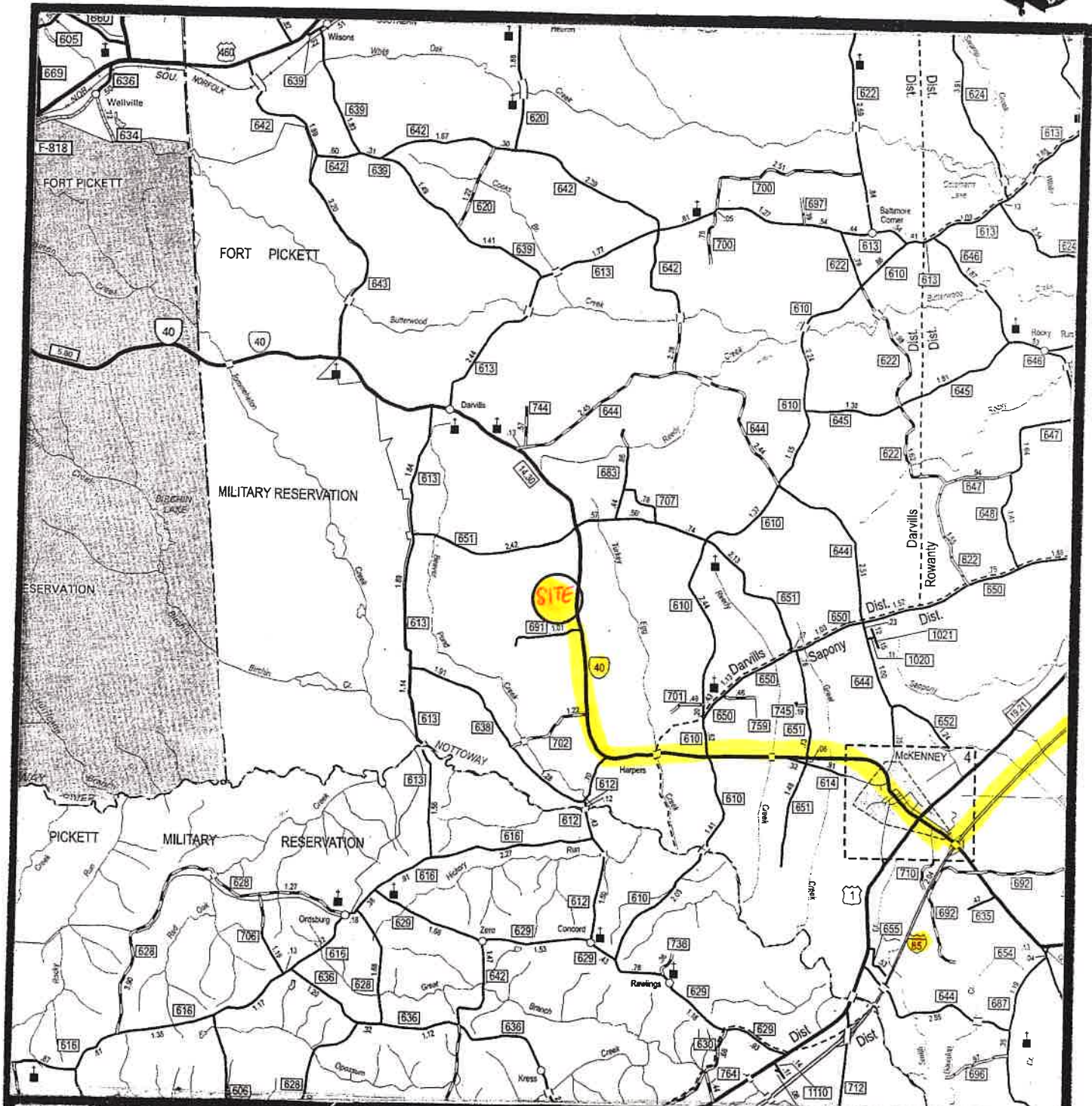
Crop Rotation:

PLANTED	YIELD	CROP NAME
2012-Sp	3.1 * tons	Fescue grass (hay), maint. - No Till

MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale:

1 inch = 2 miles

*Track Road
Yellow*

DWRWB 1

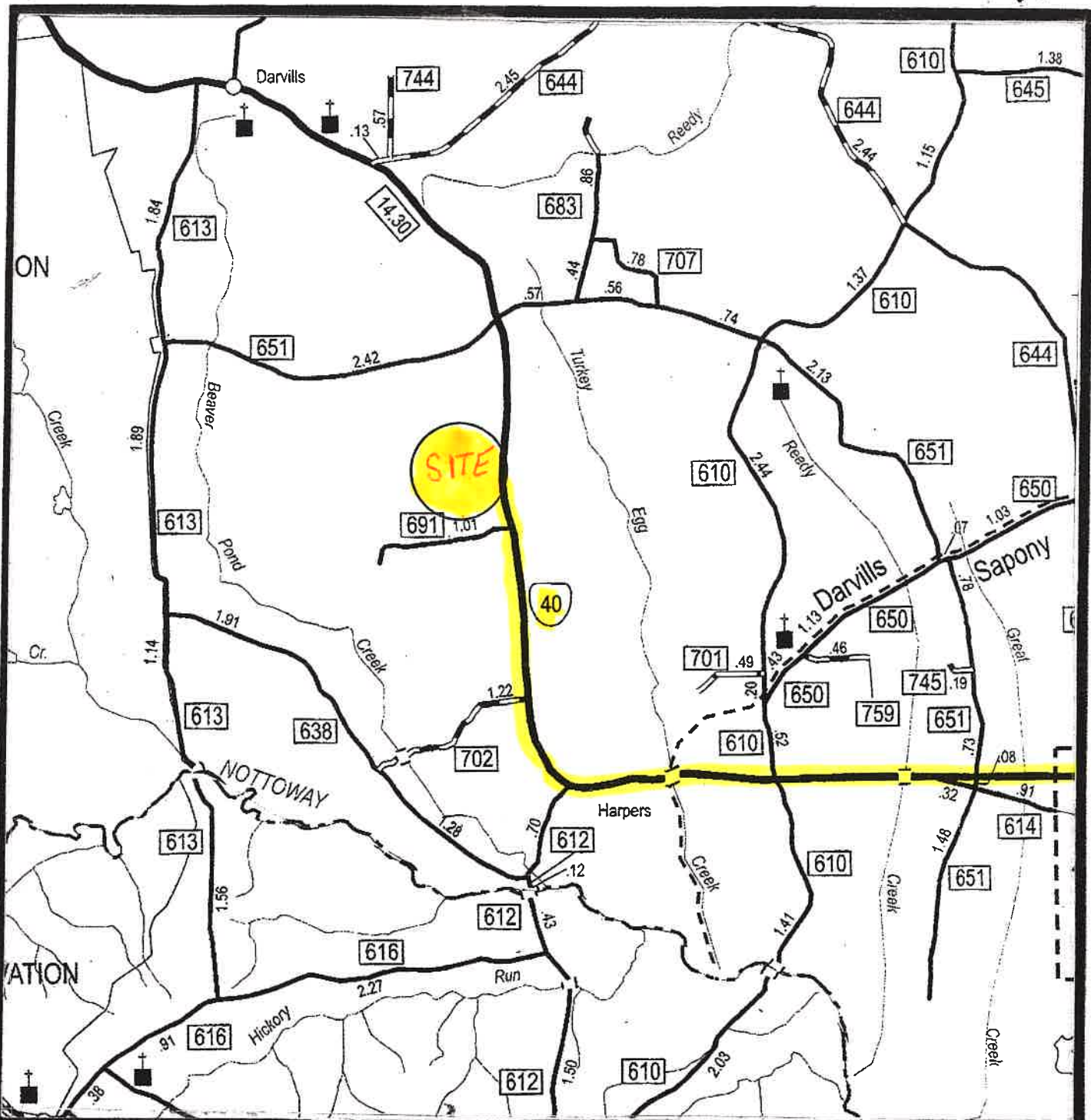
3-20-24

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale:

1 inch = 1 mile

Truck Route
Yellow

DWRWB 1

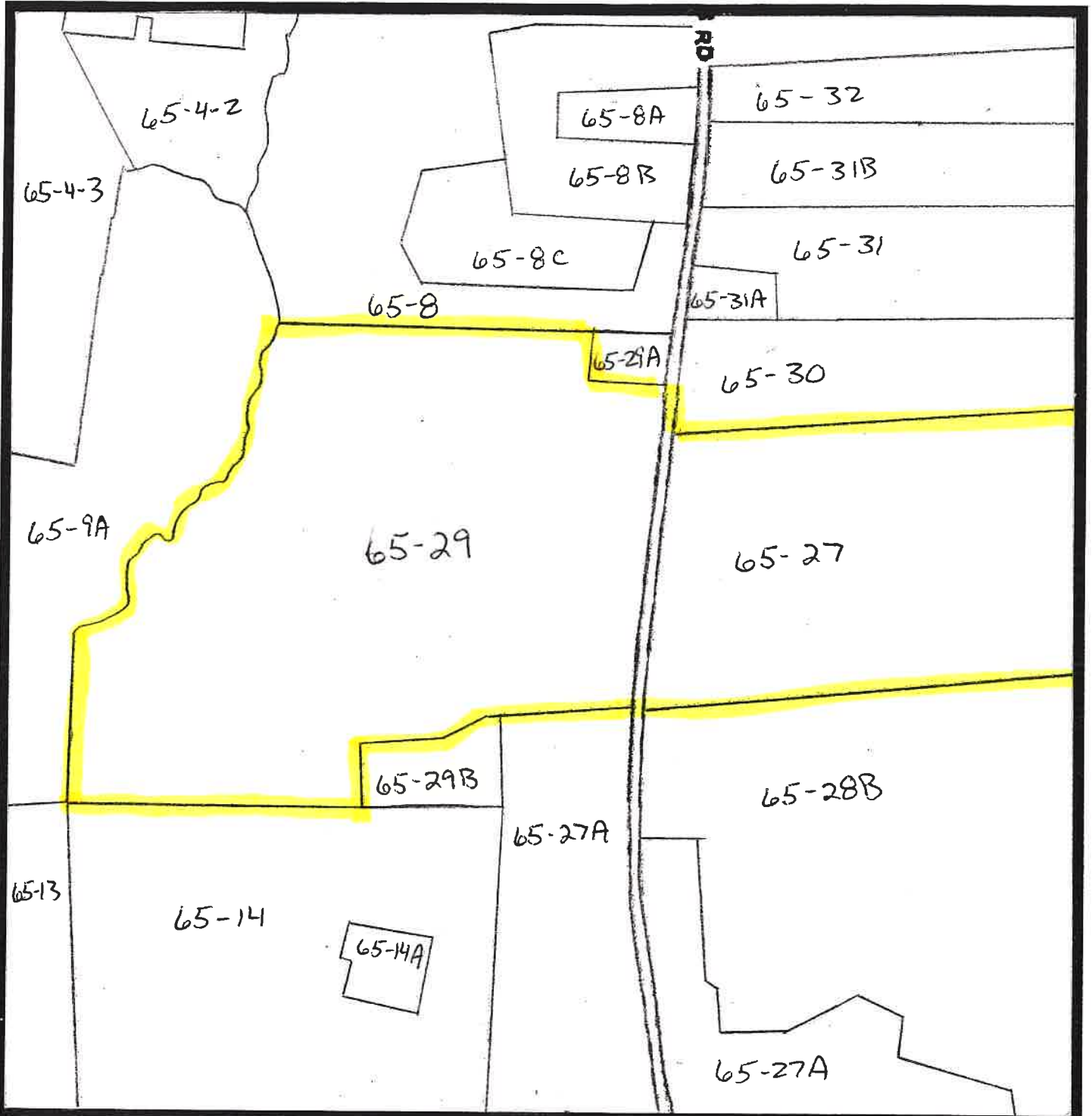
3-20-24

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale:

1 inch = 660 feet

DWRWB 1

3-20-24

TAX MAP



ADJOINING LANDOWNERS

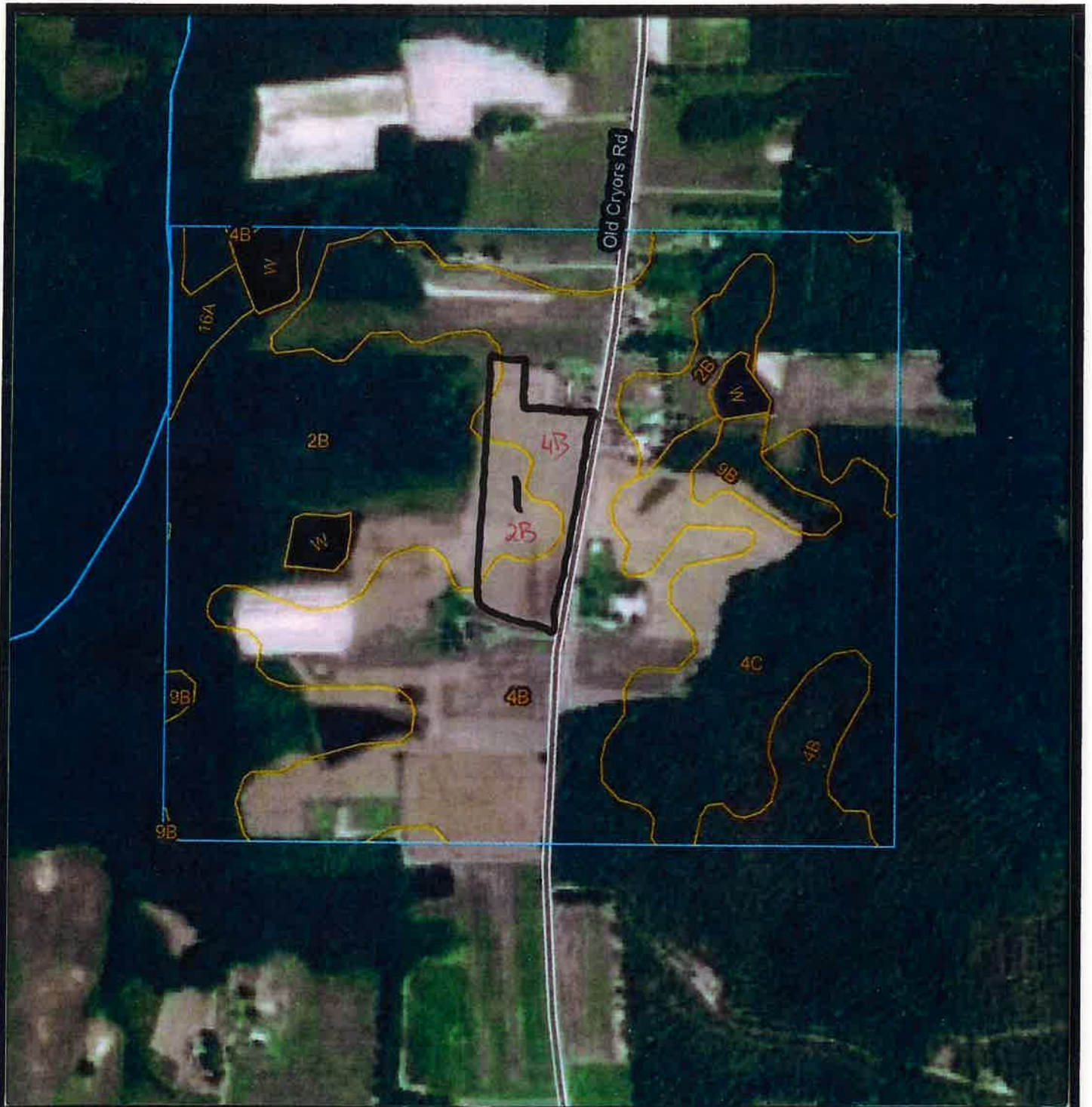
R W BRIDGMAN SITE

DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
65	8	Thomas D. & Susan P. Stone
	9A	John R., III & Barbara F. Ragsdale
	13	William H. Gammon & Janie G. Wilkins
	14	James T. Rasnake
	27A	Claude V. & Rita M. Townsend
	28B	TIAA Timberlands 1 LLCC
	29A	Margaret Stone Gibbs
	29B	Aubrey L., Jr. & Loura B. Henley
	30	Thomas D. & Susan P. Stone
	66	5

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale:

1 inch = 660 feet

DWRWB 1

3-20-24

SOIL MAP





DWRWB 12-1 acres



T404

Scale:

1 inch = 660 feet















DWRWB 1

3-20-24

AERIAL MAP



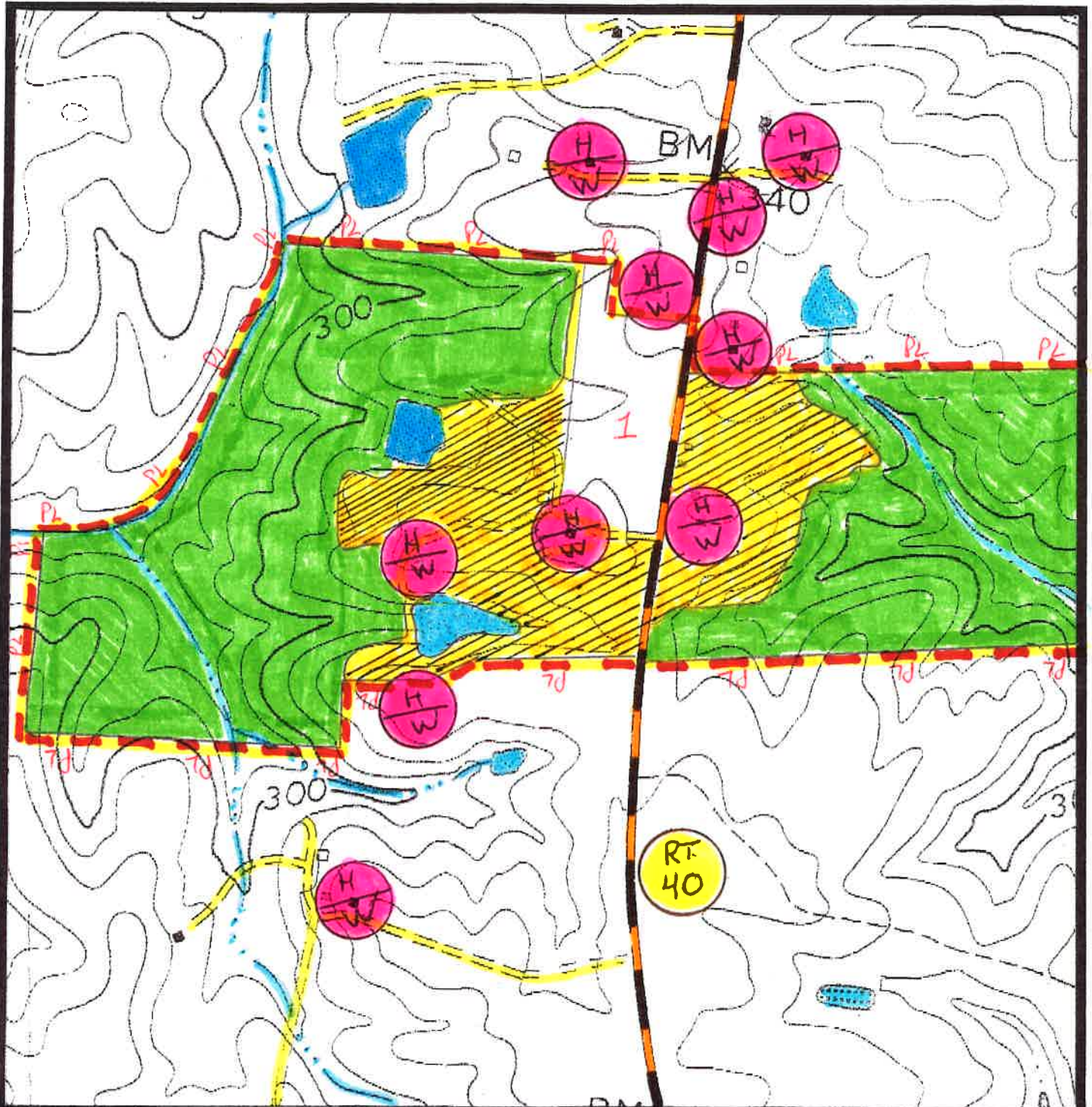
Legend For Site Plan

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

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

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale:

1 inch = 660 feet

DWRWB 1

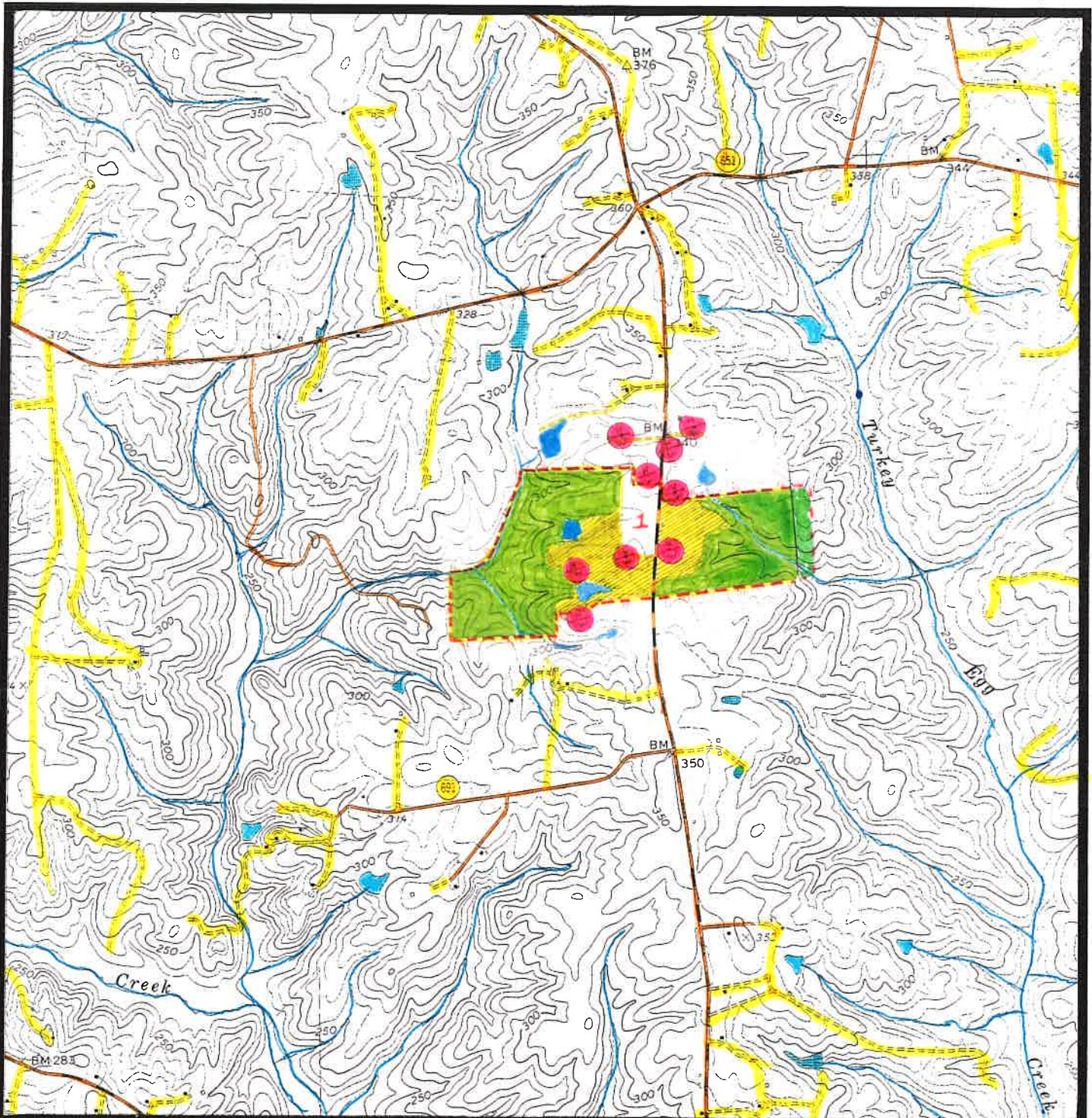
3-20-24

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale:

1 inch = 2,000 feet

DWRWB 1

3-20-24

TOPOGRAPHIC MAP

