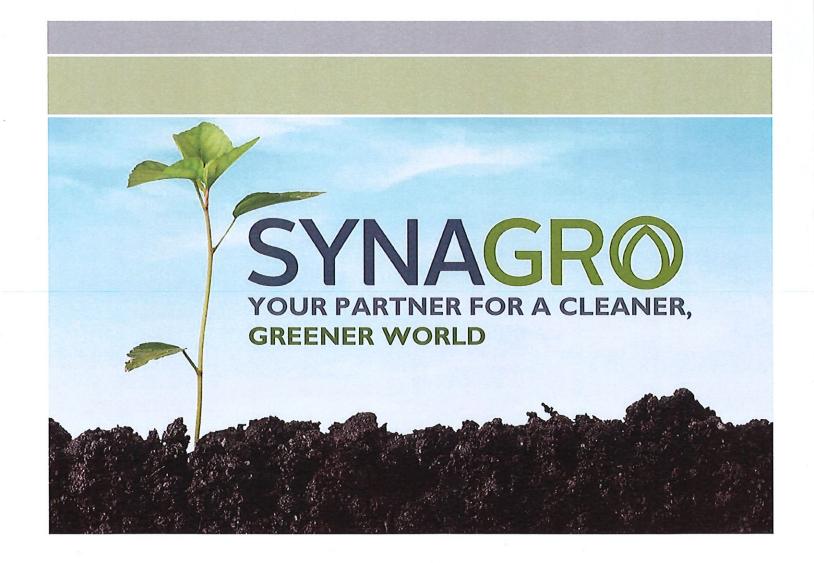
LAND APPLICATION OF BIOSOLIDS ED DUNCAN

CU 15 (FIELDS 01-07) CULPEPER COUNTY, VIRGINIA JULY 2023





JANUARY 23, 2024

Mr. John Thompson Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, Virginia 22193

Dear Mr. Thompson,

Transmitted herein for your consideration is land application site for Ed Duncan (designated as CU 15, fields 1-7), located in Culpeper County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

Carolanne M. Whiteside

(mwhiteside

Technical Services Coordinator



FIELD SUMMARY SHEET

Ed Duncan

CU 15

SYNAGRO FIELD #		NET ACRES	FSA TRACT #	FIELD TYPE	OWNER
15-01	12.0	12.0		Agriculture	Richard E Duncan, TR
15-02	15.0	15.0		Agriculture	Richard E Duncan, TR
15-03	32.6	32.6		Agriculture	Richard E Duncan, TR
15-04	45.7	45.7		Agriculture	Richard E Duncan, TR Brian E Duncan
15-05	16.8	16.8		Agriculture	Richard E Duncan, TR
15-06	32.5	32.5		Agriculture	Carl S Compton
15-07	21.7	21.7		Agriculture	Carl S Compton
TOTALS:	176.3	176.3		1	01/23/2024

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM OPERATOR: Richard E	- Dunan Tructue	PHONE 540	1547-27	58
ADDRESS: 5053 Dunce	Farm Estatee, LICO	10		
	W. Few	, 10)		
FARM LOCATION: Same				
FSA TRACT #:				
TOTAL ACRES:	COUNTY: _<	-u/peper		1,
months prior to incorporation prior to incorporation. e. Food crops, feed crops and f. Public access to land with limited to agricultural land to land with a high potential public contact site such as amended soil shall be exceadequate provisions are m g. Turf grown on land where when the harvested turf is otherwise specified by the h. Supplemental commercial such that the total crop ne- nutrient management plan the farm operator by Syna i. Tobacco, because it has be	e land for 30 days after the be allowed to graze on the beta-producing livestock shown to consumption with harves fiter the application of biosolan into the soil or 38 month of fiber crops shall not be hard low potential for public expand forests) shall be restricted for public exposure (land parks, playgrounds and governed to prevent public expositions are applied shall in placed on either land with a permitting authority, fertilizer or manure applicated from the time of application approved by the Virginia Engrowed by the Virginia Engrowed to accumulate of the service of land applying belication.	e application of biosolids. e land or be fed chopped ould not be fed chopped for the parts below the surfaction of biosolids remarks below the surfaction of biosolids remarks below the surfaction of biosolids remarks below the biosolids remarks when the biosolids remarks below the public uses frequently of courses and be restricted for 30 days after appeting the public uses frequently off courses and be restricted for 30 days following sure to soils, dusts or action of biosolids to a specific cadmium, should not be a coeding 0.45 lbs/acre. The parties to be a sale of the parties to be a sale of the parties to be a sale of the party variables, such as	In addition, anim foliage for 60 day pliage for 30 days ace of the land share and on the land surplication of biouses infrequently including but no icted for 1 year. Nor the biosolids approved by the weather, soil con and Recreation of the land with the biosolid properties of the land surplication of biosolids approved by the land with the biosolids approved by the land the land land the land land land land land land land land	als intended for a safter the after the after the all not be all not be surface ≥ 4 urface < 4 months osolids. Including but not a list. Public access to limited to a obiosolids-plication unless tion of biosolids who, unless alids applications are sheet or the into be supplied to ears following the ynagro is willing to appropriate ditions and
properly accommodating agricultu "Important Information About Usin this Request and Consent.	ral practices to biosolids uti g Biosolids as a Fertilizer" v	ilization are solely mine. which is on the reverse s	ide and incorpora	ted by reference in
COPERATOR'S SIGNATURE	pean		1-5-17 DATE	

IMPORTANT INFORMATION ABOUT USING BIOSOLIDS AS A FERTILIZER

Biosolids Generation

Biosolids are the accumulated, treated solids separated from water during the treatment of wastewater by public and private wastewater treatment plants (Generators). The Generator is responsible for supplying biosolids that are suitable for land application under state and federal regulations.

Benefits of Biosolids

Biosolids provide nitrogen in a form that can be taken up by plants during their growth cycle. Biosolids also add phosphorus to the soil. If lime is added to biosolids, the biosolids will have the added benefit of a liming agent. Biosolids contain primary, secondary and micronutrients that can be used by plants. Biosolids are primarily an organic material; when added to soil, they improve water and nutrient retention, reduce erosion potential and improve soil structure.

The Permitting Process

Once the farm operator requests biosolids, a Synagro representative initially evaluates the farm for truck access and field conditions. If the farm is found to be suitable and the Request for Biosolids and the Consent for Biosolids forms are signed, Synagro will collect soil samples and have them analyzed by an independent laboratory.

Synagro will then apply for any federal, state or local permits required for biosolids application. The permits will specifically identify the fields to which biosolids will be applied and will be issued to Synagro or the Generator.

After the permits are obtained (a process that may take several months or more) Synagro will apply biosolids, as they become available, to the fields. Availability of biosolids may vary because of weather conditions, contractual arrangements with biosolids generators and other factors. Although the company cannot guarantee biosolids application because of factors beyond its control, Synagro will use its best efforts to apply biosolids to the permitted fields.

The conditions outlined in the permit will apply to any and all biosolids applications made by Synagro. Synagro will not e responsible for biosolids application made by any other entity.

Periodic visits to the land application site(s) by federal, state and local regulatory staff and Synagro representatives may occur for the purpose of permitting the site, inspecting the site, applying biosolids, obtaining samples at the site and testing. Proper identification will be provided upon request.

Agronomic Considerations

Tractor-trailer units are used to deliver biosolids to the fields approved for biosolids applications. Soil compaction may occur on the travel areas used by the trucks and in areas where biosolids are unloaded for transfer to the applicator vehicle.

Since some biosolids contain lime, it is important to recognize any increase in soil pH where biosolids have been applied and exercise care in using certain herbicides. If considering the use of a sulfonylurea herbicide, particular attention should be paid to any label restrictions. High soil pH and dry weather may slow decomposition of these chemicals, resulting in carryover. For soils with low manganese levels, increased soil pH from lime addition (alone or in lime treated biosolids) may reduce manganese availability and thereby potentially reduce crop yields.

In planning a herbicide program, it should be noted that seeds may sometimes survive the biosolids treatment process — for example, tomato seeds. Also, the organic matter additions from biosolids application (organic matter tends to tie up certain herbicides) may require increased herbicide application rates. Consult your extension agent or chemical representative for a specific recommendation.

Biosolids contain salts. Biosolids applications alone rarely cause salt problems. However, if combined with other significant salt-increasing factors, such as drought, excessive soil compaction, saline irrigation water and salt-contain fertilizers, salts may reach levels that could negatively affect germination and growth of some crops.

While odors from biosolids applications are not usually significant, and typically less than that from livestock manure, it is possible that an odor from the decomposition of organic matter may be noticed. It this occurs, it generally disappears in a short time.

Since biosolids provide nitrogen that will be released slowly throughout the growing season with diminishing carryover in subsequent years, it is important to reduce the use of nitrogen and other fertilizers to appropriate levels.

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

S AND INDUSTRIAL RESIDUA	BIOSOLIDS	AGREEMENT	ICATION	AND APP	RT D-VI:	24
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A. This land application agreement is made on <u>I-5-17</u> between <u>R. Landowner</u> referred to here as "Landowner", and <u>Synagro</u> , 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 Colorfee Co., 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 aut	horized to receive biosolids,	water treatment residuals or ot	her industrial sludges					
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID					
37-161)								
37-16C		·						
		· · · · · · · · · · · · · · · · · · ·						
□ Additional parcels containing Lar	nd Application Sites are identified on	Supplement A (check if applicable)						
		ner of the properties identified h						
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 X Yes □ No X Yes □ No								
Kichard E. Duncan, Landowner - Printed Name, Titl	P Kiskers (Ds. Signature	Vices Trustee 30.53	<u>Duncan Traj Keja Va,</u> g Address 22735					
Permittee:		540-5	77-2788					
Synagro, 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 specifically prior to any particu	the Landowner or the Landowr lar application to the Landowne	ner's designee of the proposed sch r's land. Notice shall include the s	nedule for land application and cource of residuals to be applied.					
X I reviewed the document(s) document(s) available to DEQ	assigning signatory authority to for review upon request. (Do no	the person signing for landowner a of check this box if the landowner signs	above. I will make a copy of this this agreement)					
Jeff Doo	Ahrt Jef l	1 112	Tidewater Trail plain, VA 22438					
Permittee – Authorized Representative Signature Mailing Address Printed Name								

Permittee: Synagro	County or City: Col peper
Landowner: Richard E Duncar Tr	V 1

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.

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).

Richard & Duncar, Trustee Landowner's Signature

_5-/7 Date

Rev 9/14/2012 Page 2 of 2

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

A. This land application agreement is made on 1-10-17 between Brian 12 Duran referred to here a	ıs
"Landowner", and Synagro, 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 authorize	d
to receive biosolids or industrial residuals under this agreement.	
Landoumou	

Landowner:

The Landowner is the owner of record of the real property located in Copeper Co, 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				
37 16DI			4				
			· · ·				
		·					

☐ Additional parcels contair	ing Land Application	Sites are identified on	Supplement A	(check if applicable)
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	11	C	v	1	U	11	C	•

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
Y Voc	D No.

Water treatment residuals
X Yes □ No

Food processing waste X Yes □ No

Other industrial sludges
X Yes

No

Brian E. Duncan Landowner - Printed Name, Title

Signature

Mailing Address
540 - 661 - 7657

Permittee:

Synagro, 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.

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

Permittee – Authorized Representative

Signature

10647 Tidewater Trail Champlain, VA 22438

Mailing Address

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

Permittee: Synagro		County or City:_	Culpeper
Landowner: Brian	E. Duncan		Y .

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:

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.

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.

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.

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- 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

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

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

"Landowner", and Synagro, terminated in writing by eith event of a sale of one or mo identified in this agreement	referred to here as the "Permer party or, with respect to the parcels, until ownership of changes, those parcels for what is agreed to this agreed the parcels agreed this agreed the parcels agreed the parcels for what is agreed to the parcels for what is agreed to the parcels for what is agreed to the parcels for the parc	ittee". This agreement remose parcels that are retained all parcels changes. If own thich ownership has changed	I by the Landowner in the ership of individual parcels	
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real property or reclamation sites identified	y located in <u>Culp<i>eper Co</i></u> I below in Table 1 and ident	Virginia, which includes ified on the tax map(s)	
Table 1.: Parcels aut	horized to receive biosolids, w	vater treatment residuals or	other industrial sludges	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	
37 19				
			· ·	
Additional parcels containing Lan	d Application Sites are identified on S	Supplement A (check if applicable)	,	
	e Landowner is the sole owne e Landowner is one of multipl			
within 38 months of the late 1. Notify the purchase later than the date	wner sells or transfers all or pest date of biosolids application or transferee of the application of the property transfer; and e of the sale within two weeks	n, the Landowner shall: ble public access and crop r	management restrictions no	
notify the Permittee immed	er agreements for land applicately if conditions change such this agreement becomes inv	ch that the fields are no long	ger available to the Permittee	
agricultural sites identified inspections on the land ide	ints permission to the Permitte above and in Exhibit A. The L ntified above, before, during o mpliance with regulatory requi	andowner also grants perm or after land application of p	nission for DEQ staff to conduct ermitted residuals for the	
Class B biosolids Wate X Yes □ No X Yes			other industrial sludges CYes □ No	
CARL S. COL	140711	Somb	5200 DUNCAN TR	ALL
Landowner – Printed Name, Titl	e Signature	Ma Ma	5200 DUNCAN TR illing Address DEVA VA	22731
Permittee:	540	1-627-7902	100.11	
Synagro, the Permittee, agree by the VPA Permit Regulation		e rates identified in the nutrier	er's land in the manner authorized t management plan prepared for of Virginia	
			schedule for land application and e source of residuals to be applied.	
	assigning signatory authority to to for review upon request. (Do not	check this box if the landowner si		
Jeff Douthit	JHO C	w Cha	47 Tidewater Trail mplain, VA 22438	
Permittee – Authorized Represe Printed Name		. Ma	Page 1 of 2	
Rev 9/14/2012			Page 1 of 2	

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

Permittee: Synagro	County or City: Colpeper
Landowner: Carl S. Compton	_
Landowner Site Management Requiremen	ts:

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or a lawn, unless otherwise specified by DEQ.

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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).

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Landowner's Signatur

CU 15 Ed Duncan Synagro Central, LLC

TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Richard E Duncan, TR	15-01	37 16D
Richard E Duncan, TR	15-02	37 16D
Richard E Duncan, TR	15-03	37 16D
Richard E Duncan, TR	15-04	37 16D
Brian E Duncan	13-04	37 16D1
Richard E Duncan, TR	15-05	37 16D
Carl S Compton	15-06	37 19
Carl S Compton	15-07	37 19

Field Number	Latitude (North)	Longitude (West)
15-01	38.488°	-78.150°
15-02	38.489°	-78.148°
15-03	38.485°	-78.148°
15-04	38.482°	-78.150°
15-05	38.480°	-78.154°
15-06	38.471°	-78.150°
15-07	38.469°	-78.150°

Latitude/Longitude determined by GIS program

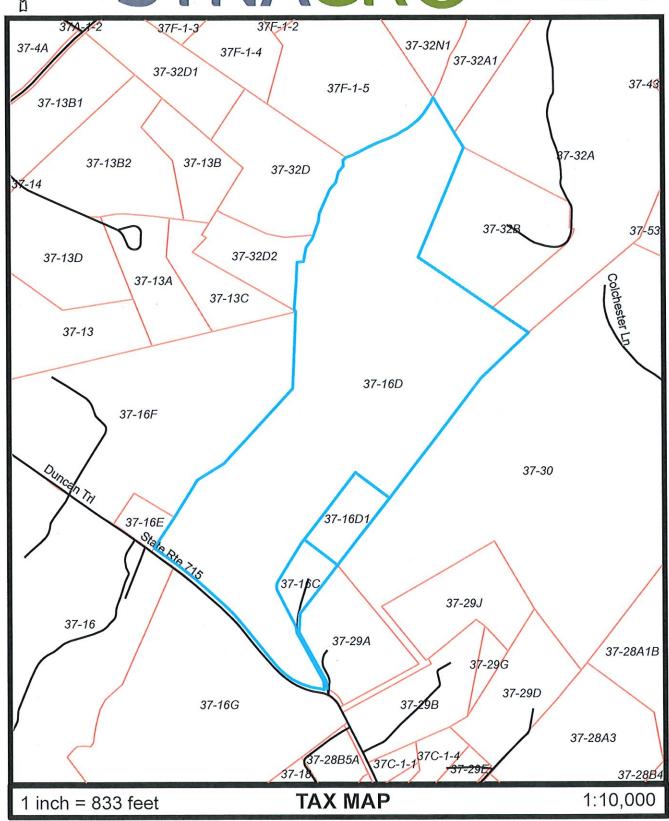
Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.

Page 1 of 1 01/23/2024



Ed Duncan CU 15 Fields 01-05

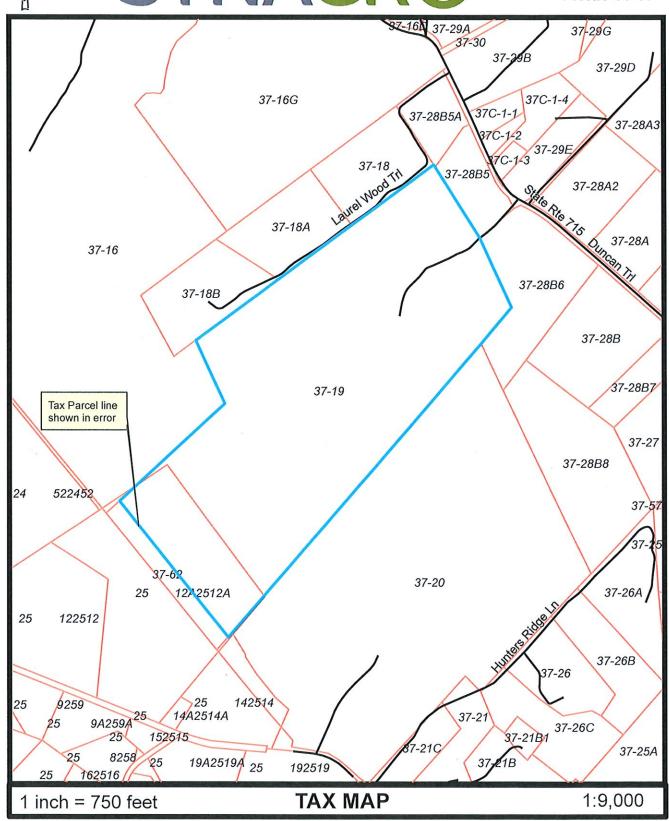


Created 7/25/2023

Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warranted for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.



Ed Duncan CU 15 Fields 06-07



Created 7/25/2023

Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warranted for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.

CU 15 Ed Duncan Synagro Central, LLC

Farm Summary Report

Plan: Revised Plan Spring, 2024 - Spring, 2025

Farm Name: CU 15 Location: Culpeper

Specialist: Jeffrey R Douthit

N-based Acres: 176.3 P-based Acres: 0.0

Tract Name: CU 15 FSA Number: 0

Location: Culpeper

Field Name: 15-01

Total Acres: 12.00 Usable Acres: 12.00

FSA Number: 2725 Tract: CU 15

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

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

94 12A Codorus 6 40C Meadowville

Field Warnings:

CU 15 Ed Duncan Synagro Central, LLC

Field Name: 15-02

Total Acres: 15.00 Usable Acres: 15.00

FSA Number: 2725 Tract: CU 15

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 [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
44 50C Mine Run Rhodhiss
34 12A Codorus
12 40C Meadowville
10 8B Clifford

Field Warnings:

Total Acres: 32.60 Usable Acres: 32.60

FSA Number: 2725 Tract: CU 15

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 [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
45 50C Mine Run Rhodhiss
24 12A Codorus
17 40C Meadowville
14 8B Clifford

Field Warnings:

Total Acres: 45.70 Usable Acres: 45.70

FSA Number: 2725 Tract: CU 15

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

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
58 50C Mine Run Rhodhiss
20 40C Meadowville
16 12A Codorus
6 8B Clifford

Field Warnings:

Total Acres: 16.80 Usable Acres: 16.80

FSA Number: 2725 Tract: CU 15

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 [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
66 50C Mine Run Rhodhiss
20 8B Clifford
11 11B Codorus Meadowville
3 12A Codorus

Field Warnings:

Total Acres: 32.50 Usable Acres: 32.50

FSA Number: 2725 Tract: CU 15

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 [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
46 50C Mine Run Rhodhiss
27 8C Clifford
24 8B Clifford

3 11B Codorus Meadowville

Field Warnings:

Total Acres: 21.70 Usable Acres: 21.70

FSA Number: 2725 Tract: CU 15

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

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
77 50C Mine Run Rhodhiss
19 11B Codorus Meadowville

4 8C Clifford

Field Warnings:

CU 15 Ed Duncan Synagro Central, LLC

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
15-01	High Water Table (Map Unit 12A - 94%)
	Frequent Flooding (Map Unit 12A - 94%)
15-02	High Water Table (Map Unit 12A - 34%)
	Frequent Flooding (Map Unit 12A - 34%)
15-03	High Water Table (Map Unit 12A - 24%)
	Frequent Flooding (Map Unit 12A - 24%)
15-04	High Water Table (Map Unit 12A - 16%)
	Frequent Flooding (Map Unit 12A - 16%)
15-05	High Water Table (Map Units 11B, 12A - 14%)
	Frequent Flooding (Map Unit 12A - 3%)
15-06	High Water Table (Map Unit 11B - 3%)
15-07	High Water Table (Map Unit 11B - 19%)

Culpeper County Soils that are Environmentally Sensitive

Soil Mon Unit	Series Name	Time of year		Environmental
Soil Map Unit		High Water	Flooded	Environmental
3D, 3E	Blocktown-Yellowbotto	m		Shallow
5B	Catoctin-Fletcherville			Shallow
6C, 6B	Catoctin-Alanthus			Shallow
7E	Catoctin-Alanthus (Ro	ck)		Shallow
10A	Codorus-Hatboro	Nov – April	Dec – April	
11B	Codorus-Meadowville	Nov – April		
12A	Codorus	Nov – April	Dec – April	
13A	Comus		Jan – May	
15A	Dulles-Kinkora	Dec – April		
16A, 16B	Dulles-Nestoria	Nov – March		
20A	Elbert	Nov – March		
30C, 31D, 31E	Griffinsburg-Edgemon	t		Shallow
38A, 38B	Jackland-Haymarket	Dec – April		
39A, 39B	Jackland-Haymarket	Dec – April		
51A	Sycoline-Kelly	Nov – May		

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Map Legend



House/Dwelling with a well

- 200' buffer-dwelling (with conditions for reduction)
- 100' buffer- from well

Rock Outcrop

- 25' buffer

Limestone Outcrop/Closed Sinkhole

- 50' buffer

Well/Spring/Open Sinkhole

- 100' buffer

Lake/Pond

- 35' w/vegetative buffer; 100' without vegetative buffer

Slope which exceeds 15%



Publicly Accessible Site/Odor Sensitive Site

- 200' buffer Publicly Accessible Site Property Line
- 400' buffer Odor Sensitive Site



Stream/River

- 35' w/vegetative buffer; 100' without vegetative buffer
- 1-1

Agricultural/Drainage Ditch

- 10' buffer



Roadway

- 10' improved highway buffer
- ___

Field Boundary



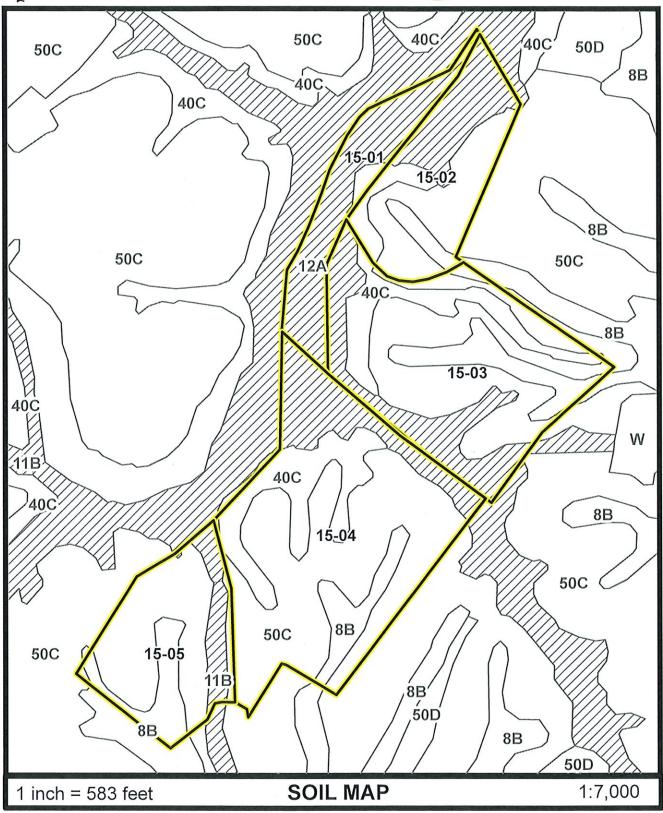
Property Line

- 100' buffer unless waiver issued



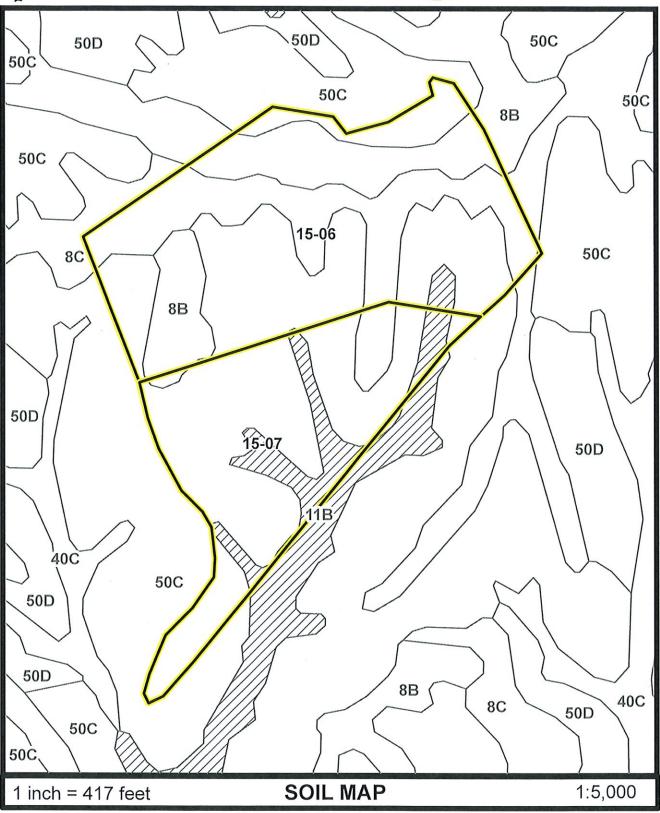


Ed Duncan CU 15 Fields 01-05



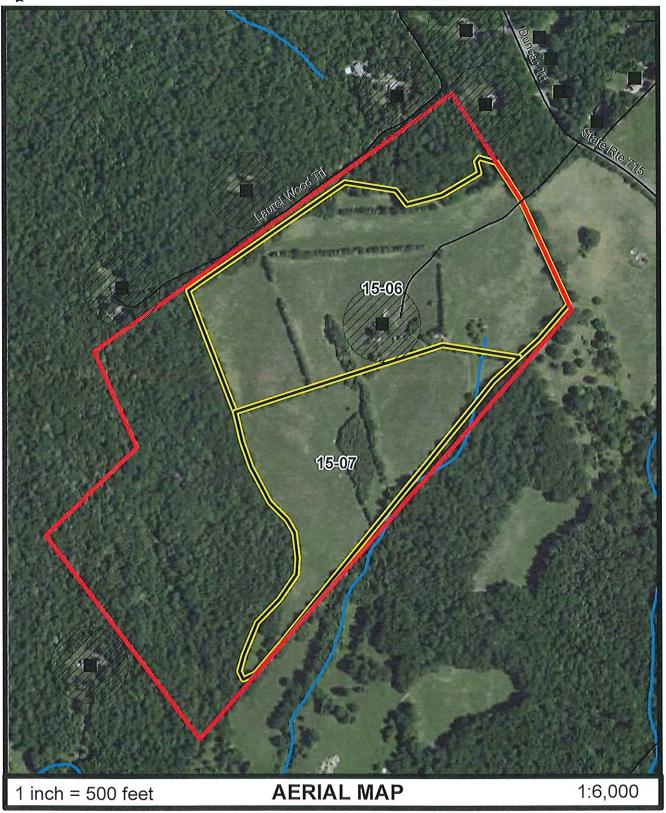


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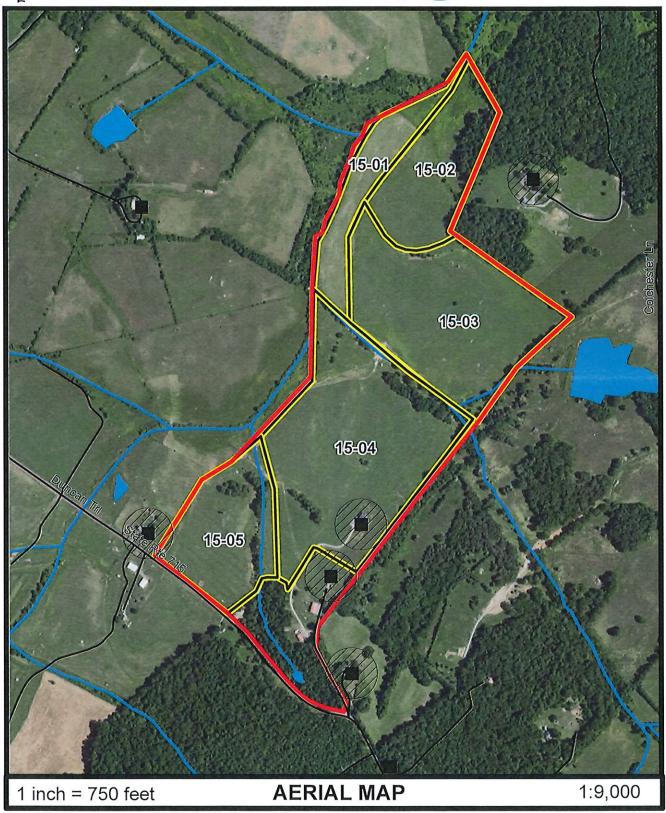


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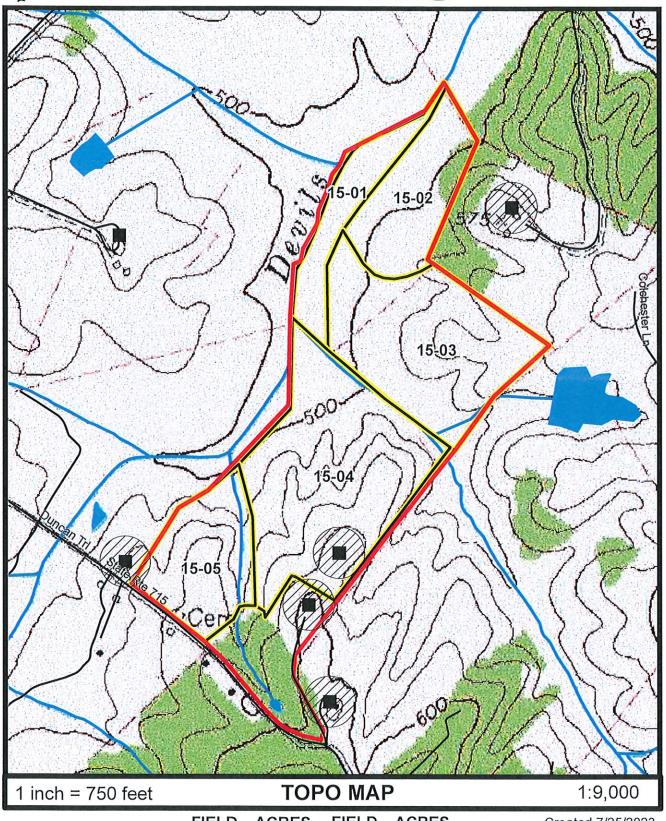


Ed Duncan CU 15 Fields 01-05





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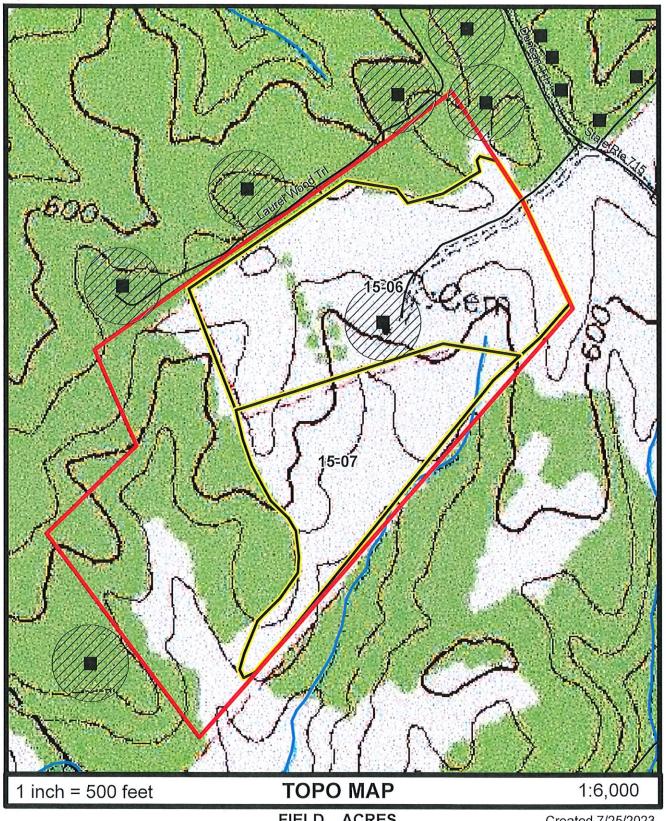


FIELD	ACRES	FIELD	ACRES
15-01	12.0	15-04	45.7
15-02	15.0	15-05	16.8
15-03	32.8		

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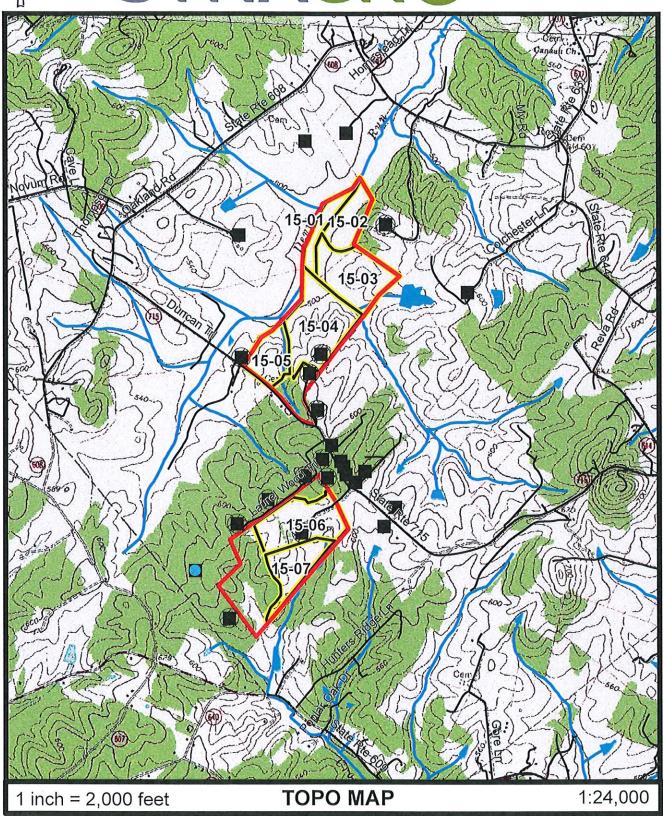


ACRES FIELD

15-06 32.5 15-07 21.7 Created 7/25/2023

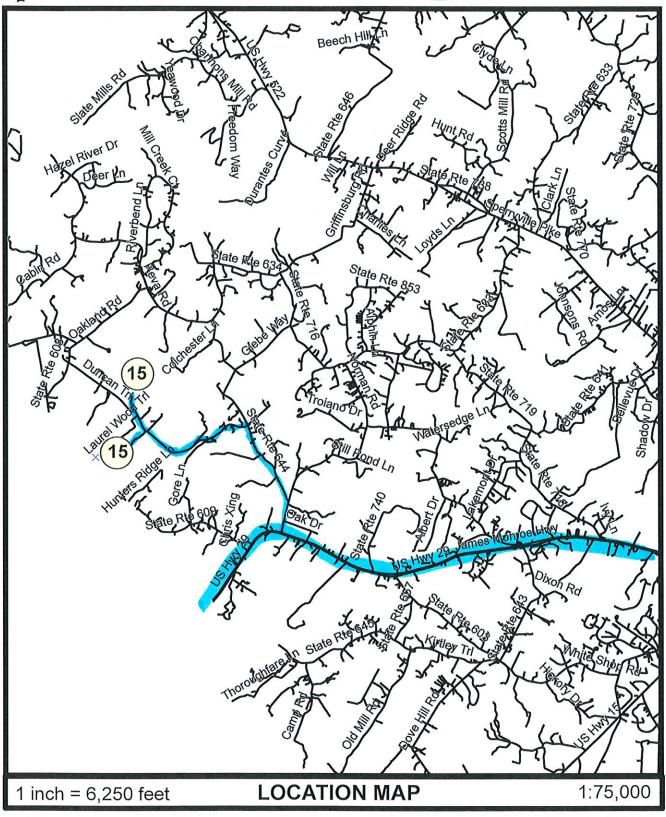


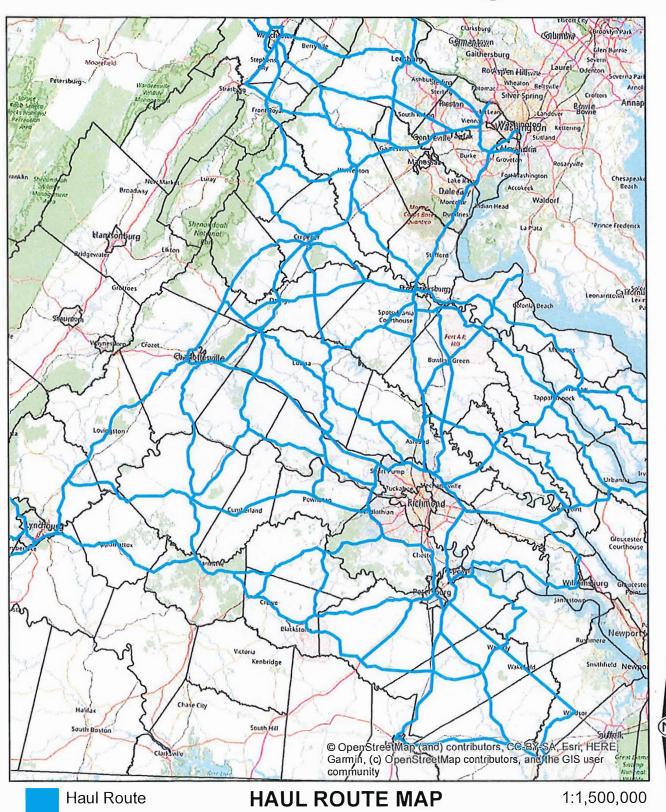
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This map highlights all major routes from approved generators to the locations of permitted sites. The Highlighted routes on the Location Map will pinpoint routes closer to the site.