LAND APPLICATION OF INDUSTRIAL RESIDUALS KEVIN ENGEL

KW 05 (FIELDS 01-08) KING WILLIAM COUNTY, VIRGINIA APRIL 2024





APRIL 1, 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 Kevin Engel (designated as KW 5, fields 01-08), located in King William 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 (410) 553-7217 should you have any questions or require additional information.

Sincerely,

Caleb Snyder

Technical Services Manager

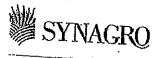
FIELD SUMMARY SHEET

Kevin Engel

KW 05

SYNAGRO	GROSS	NET	FSA	FIELD	
FIELD	ACRES	ACRES	TRACT	TYPE	OWNER
#			#		
05-1	46.5	46.5		Agriculture	Campbell Virginia Properties LLC
05-2	31.5	31.5		Agriculture	Campbell Virginia Properties LLC
05-3	94.7	94.7		Agriculture	Campbell Virginia Properties LLC
05-4	63.4	63.4		Agriculture	Campbell Virginia Properties LLC
05-5	50.7	50.7		Agriculture	Campbell Virginia Properties LLC
05-6	12.9	12.9		Agriculture	Campbell Virginia Properties LLC
05-7	41.6	41.6		Agriculture	Campbell Virginia Properties LLC
05-8	39.9	39.9		Agriculture	Campbell Virginia Properties LLC

TOTALS:	381.2	381.2			Revised 10/12/2022



A Residuals Management Company

VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

FARM ODERATED CONSENT FOR BIOSOLIDS
CERATOR F man of In the
AUDRESS: PLONE DAIL GOLD PHONE DAIL GOLD CO.
FARM LOCATION: Cano Ad a Manover VA 23069
TOWN LUGATION AT THE TOTAL TOT
()
TOTAL ACREAGE: 6//
CROPS: CORN, wheat say Beams Mils
CORN, whether say Beams MILS
The state of the s
I agree to be responsible for adhering to the following conditions, where applicable: a: The soil pH will be adjusted to > 6.0 when blosolids are applied. (This
a. The soil pH will be adjusted to > 6.0 when biosolids are applied. (This may be accomplished through the bound of graze animals on the land for 30 days after the second of the specific of the product of the second of the sec
application of lime transaction is applicable;
b. Do not graze onionic realed biosolids.)
b. Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intend application of biosolids. Meat-producing livestock should not be fed chopped foliage for 60 days after the application of biosolids. c. Food crops for direct human consumption that are all.
c. Food crops for direct himself the
d. Food crops for direct human of biosolids.
d. Food crops for direct human consumption with harvested parts below the surface of the land shall not be months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface > 4 f. Public pages, feed crops and fiber crops shall not be the surface of the land surface > 4 f. Public pages.
e. Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids. Public access to land with a low potential for public exposure shall be restricted for 30 days. Public access be excavated or removed from the site for 30 days following the biosolids application unless adequate. Turf group on the site for 30 days following the biosolids application unless adequate.
biosolids when the hard piosolids are applied shall not be here.
unless otherwise and vested turf is placed on either lead a liarvested for one year after application of
sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation site. Tobacco because it
to be supplied to the standard management plan approved by the visual in acceeded as identified on the nutrient between
site.
to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted the application of biosolids to a specific permitted the application of biosolids to a specific permitted
Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following willing to provide to me without about contemplated by the parties to be a specific permitted.
I understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is appropriate regulatory agencies for land application.
willing to provide to me without charge the service of land applying biosolids which have been approved by the specific farming processful crop production depends on meaning that successful crop production depends on meaning process.
appropriate mandation of the willout charge the service of the parties to be a sale of goods, and that of
I understand that successful crop production depends on many variables, such as weather, soil conditions and read and understand that while Synagro has experience with land application of biosolids the
specific farming practices and that while Synagro has experience with land application of biosolids, the read and understand the "Important Information About 14 to biosolids utilization are solely mineral and incompared.
responsibility for property and that while Synagro has experience and the synagro has experie
read and understand the discommodating agricultural practice with land application of biosolide, the
and incorporated by a filmportant Information About Hoise Di biosolids utilization are solely mine.
responsibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also and incorporated by reference in this Request and Consent.
read and understand the "Important Information About Using Blosolids as a Fertilizer" which is on the reverse side
OPERATORIO
DATE DATE
DATE
Synagro • 601 Caroline Street #601 • Frank I.

Synagro • 601 Caroline Street, #601 • Fredericksburg, VA 22401 • 540.371.9050

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 note 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 of 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 rarefy 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 carry-over in subsequent years, it is important to reduce the use of nitrogen and other fertilizers to appropriate levels.

ent entermination agreement - biosolius and industrial residuals							
A. This land application agreement is made on 1 12/2021 between Campbell VA Properties LLC referred to here as "Landowner", and Synagro Central, LLC , 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 blosolide or industrial residuals under this agreement.							
Landowner: The Landowner is the owner of record of the real properly located in <u>King William</u> , Virginia, which includes the agricultural, slivicultural or reclamation sites identified below in Table 1 and identified on the tax map(e) with county documentation identifying owners, attached as Exhibit A.							
Table 1.: Parcele aut	horized to recely						
Tax Parcel ID	Tax Par	cel ID	Tex Percel ID	Sylvetiment of the time?	Tax Parcel ID		
32-4	ļ]						
28-74							
					1 the second sec		
Cl Additional parcels containing La	ıd Appiloallon Siles ı	aro Idenlified on Su	ploment A (check if appli	onble)	Anna Januara Maria Maria Landa Landa and Article Commend		
			o properties identified ors of the properties i		eln.		
In the event that the Landow within 30 months of the lates 1. Notify the purchaser than the date of the 2. Notify the Permillee	it date of blosolid or transferee of property transfer	ls application, ti the applicable ; ; and	ne Landowner shall; public access and cro	op managem	have been applied ent restrictions no later		
The Landowner has no othe nollfy the Permittee immedia application or any part of this	itely if conditions	change such th	nat the fields are no l	onger avallal	ole to the Permittee for		
agricultural sites identified a	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 blosolids Water treatment residuals Food processing waste Other industrial studges X Yes D No X Yes D No X Yes D No							
Printed name Campbell VA Properties LLC By: ELICENE L CAMPBELL IN VILLIAM, VA 23478 Phone No. 204 365 1. This Phone No. 204 365 1. This Landowner Signature Phone No. 204 365 1. This Phone No. 204 365 1. This Landowner Signature Phone No. 204 365 1. This Phone No. 204 365							
Permittee: Synagro Central, LLC 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 Vinibia.							
The Permillee agrees to notify the Landowner or the Landowner's designed of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.							
Printed nome Hunter Davis.	Printed nome Mailing Address: 1601 Tappahannook Permittee-Authorized Representative Signature						
Title Technical Services Specialis	it i	Phono No. 448-217	0	Time	Dong		

Landowner:	Campbell VA	Proportion LLC	
MINITIO BYFIUTE			

Landowner Site Wanagement Requirements:

I, the Landowner, I have received a DEG Bloselids Fact Sheet that includes information regarding regulations governing the land application of bioselids, the components of bioselids and proper handling and land application of bioselids.

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 blosolids 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 blosolids at the site:

Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
as a blosolids land application site, unless requested by the Permittee, until at least 30 days after land
application at that site is completed.

2. Public Access

 Public access to and with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.

Public access to fand with a low potential for public exposure shall be restricted for at least 30 days
following any application of blosolids. No blosolids 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;

exposure to soll, dusts or aerosols;

c. Turf grown on land where blosolids are applied shall not be harvested for one year after application of blosolids 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;

 Food crops with harvested parts that touch the blosolids/soll mixture and are totally above the land surface shall not be harvested for 14 months after the application of blosolids.

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 firme 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 hervested for 38 months when the blosolide remain on the land surface for a time period of less than four (4) months prior to incorporation.

d. Other food grops and fiber grops shall not be harvested for 30 days after the application of biosolids;

 Feed crops shall not be harvested for 30 days after the application of blosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following blosolids application to pasture or hayland sites:

a. Meat producing livestock shall not be grazed for 30 days.

b. Lactaling dairy animals shall not be grazed for a minimum of 60 days.

o. 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 nutriente 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;

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
excepting 0.46 pounds/acre (0.6 kilograms/nectare).

Landowylor's Signature Sturger

Dato

Pago 2 of 2

Rev 6/11/2010b

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* form with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

This form is not required when Form D - VPA Permit Application Workbook, Tabs 13.a and/or 13.b, are submitted. The information on that form supersedes the need to complete this Landowner Coordination Form.

Permittee: Synagro Central, LLC Please Print	County or City: Industrial (KW 05) (Signatures not required on this page
Tax Parcel ID(s)	<u>Landowner(s)</u>
26-74	CAMPBELL VIRGINIA PROPERTIES LLC
32-4	CAMPBELL VIRGINIA PROPERTIES LLC

Rev 6/11/2018b Page 1 of 1



441 Landing Road

Parcel Information

Parcel Address:441 Landing RoadParcel ID:26-74Parcel City ST Zip:MANQUIN, VA 23106Total Acres:168Description 1:GROVEDeed Book:0Description 2:Agric ConservationDeed Page:0

Valuation

Land: \$631,200

Building: \$179,300

Improvements: \$1,800

Total: \$812,300

Ownership

Owner Name: CAMPBELL VIRGINIA PROPERTIES LLC Mailing Address: P O BOX 95

Owner Name 2: N/A Mailing City ST Zip: KING WILLIAM VA 23086-95

Owner Name 3: N/A

Building Information

Year Built: 1770

Occupancy Type: RESIDENTIAL

Number of Bedrooms: 3

Class Type: Agricultural > 100 Acres

Number of Full Baths: 2

Structure Type: Colonial

Number of Half Baths: N/A

Stories: 2

Number of Chimneys: N/A

Number of Fireplaces: N/A

Parcel ID: 26-74 1 | Page



0 Unassigned

Parcel Information

Parcel Address:0 UnassignedParcel ID:32-4Parcel City ST Zip:N/ATotal Acres:430Description 1:LU 19-132Deed Book:254Description 2:Agric ConservationDeed Page:484

Valuation

Land: \$593,400 Building: N/A

Improvements: N/A Total: \$593.400

Ownership

Owner Name: CAMPBELL VIRGINIA PROPERTIES LLC Mailing Address: 441 LANDING ROAD

Owner Name 2: N/A Mailing City ST Zip: MANQUIN VA 23106

Owner Name 3: N/A

Building Information

Year Built: N/A

Occupancy Type: VACANT

Class Type: Agricultural > 100 Acres

Number of Full Baths: N/A

Structure Type: N/A

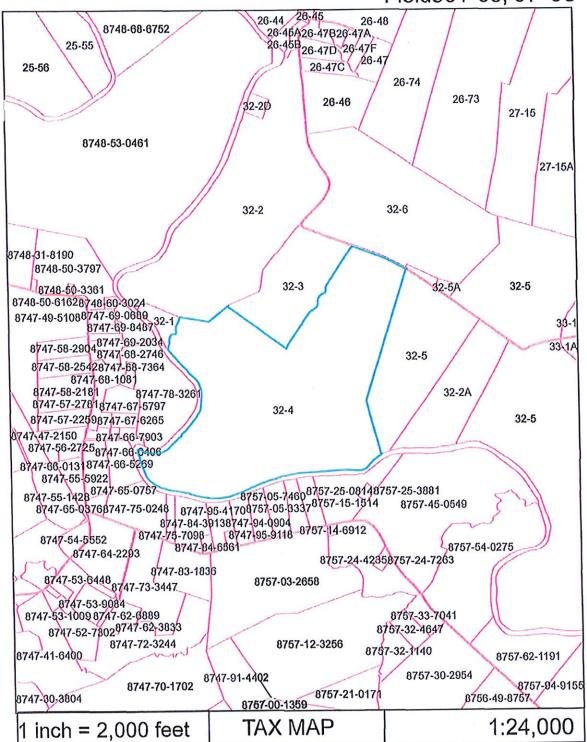
Number of Half Baths: N/A

Number of Chimneys: N/A

Number of Fireplaces: N/A

Parcel ID: 32-4 1 | Page

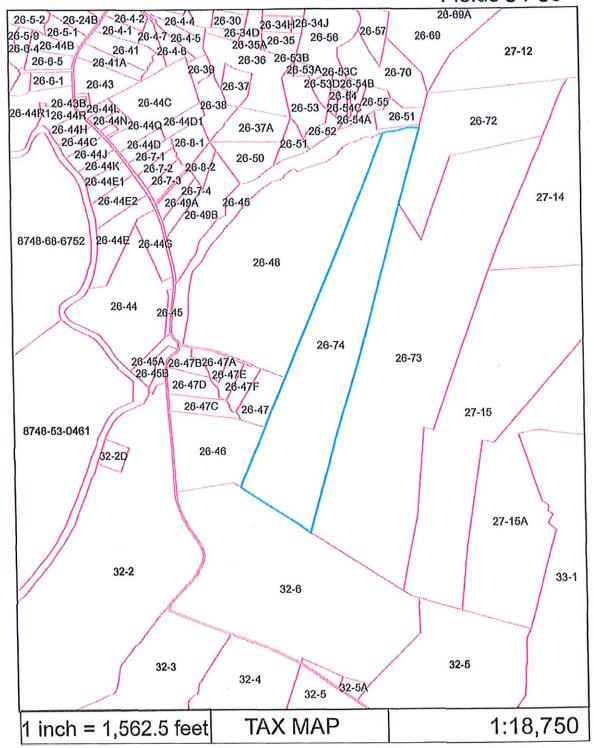
Kevin Engel KW 0**5** Fields 01-03, 07-08



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 warrented 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.



Kevin Engel KW 05 Fields 04-06



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 warrented 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.

04/17/2024

KW 05 Kevin Engel

PARCEL ID	OWNER	OWNER	ADDRESS	CITY	STATE	ZIP
26-45	BARBARA C CAMPBELL		4416 DABNEYS MILL RD	MANQUIN	VA	23106
26-46	HUGH B TOWNSEND III	LISA G TOWNSEND	3975 DABNEYS MILL RD	MANQUIN	VA	23106
26-47	JOHN P HUDNALL SR	SANDRA H HUDNALL	426 LANDING RD	MANQUIN	VA	23106
26-48	COASTAL FARM SERVICE, LLC	FOUR C ENTERPRISES	PO BOX 534	MECHANICSVILLE	VA	23111
26-72	LUCUS TUCKER	KRISTIN CAMPBELL TUCKER	3859 MANSFIELD RD	AYLETT	VA	23009
26-73	H BARNES TOWNSEND JR FAMILY ASSOCIATE LLC		6459 DABNEY'S MILL RD	MANQUIN	VA	23106
32-1	HUGH BARNES TOWNSEND JR		3459 DABNEYS MILL RD	MANQUIN	VA	23106
32-2	HOWARD A TOWNSEND ET AL		2121 DABNEYS MILL RD	MANQUIN	VA	23106
32-2A	HOWARD A TOWNSEND SR		2121 DABNEYS MILL RD	MANQUIN	VA	23106
32-3	H BARNES TOWNSEND JR FAMILY	ASSOCIATE LLC	3459 DABNEYS MILL RD	MANQUIN	VA	23106
32-5	HOWARD A TOWNSEND ET AL		2121 DABNEYS MILL RD	MANQUIN	VA	23106
32-6	H BARNES TOWNSEND JR FAMILY	ASSOCIATE LLC	3459 DABNEYS MILL RD	MANQUIN	VA	23106

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TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Campbel Virginia Properties LLC	05-01	32-4
Campbel Virginia Properties LLC	05-02	32-4
Campbel Virginia Properties LLC	05-03	32-4
Campbel Virginia Properties LLC	05-04	26-74
Campbel Virginia Properties LLC	05-05	26-74
Campbel Virginia Properties LLC	05-06	26-74
Campbel Virginia Properties LLC	05-07	32-4
Campbel Virginia Properties LLC	05-08	32-4

Field Number	Latitude (North)	Longitude (West)	
05-01	37.696°	-77.225°	
05-02	37.694°	-77.228°	
05-03	37.692°	-77.233°	
05-04	37.711°	-77.221°	
05-05	37.722°	-77.216°	
05-06	37.716°	-77.219°	
05-07	37.699°	-77.224°	
05-08	37.695°	-77.236°	

^{*}Latitude and Longitude are a random point determined by ArcView 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.

Farm Summary Report

Plan: New Plan Winter, 2022 - Winter, 2023

Farm Name: KW 05
Location: King William
Specialist: Hunter Davis

N-based Acres 380.0 P-based Acres: 0.0

Tract Name: KW 05

FSA Number: 0

Location: King William

Field Name: 05-01

Total Acres: 46.50 Usable Acres: 46.50

FSA Number: 0 Tract: KW 05

Location: King William

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
8 1A Altavista
6 5A Bojac1
73 27A STATE1
13 30A Tomotley

05-02

Total Acres: 30.30 Usable Acres: 30.30

FSA Number: 0

Tract:

KW 05

Location:

King William

Slope Class: B

Hydrologic Group:

С

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

PΗ Ρ Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES Bojac1

91 9

5A 29D

Tarboro

Field Warnings:

Environmentally Sensitive Soils due to:

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

Soils with perent slope in excess of 15%

05-03

Total Acres:

94.70 Usable Acres: 94.70

FSA Number: 0

Tract:

KW 05

Location:

King William

Slope Class: A

Hydrologic Group: Α

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

Ρ PΗ

Κ

Lab

[NO TEST]

Soils:

SYMBOL SOIL SERIES PERCENT Altavista 1A 3 23A Riverview 68 Seabrook 25A 1 17 27A STATE1 Wehadkee 11 32A

05-04

Total Acres: 63.40 Usable Acres: 63.40

FSA Number: 0

KW 05

ract: Location:

King William

Hydrologic Group: Slope Class: A

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

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

С

Soil Test Results:

DATE

Ρ

Κ

Lab

[NO TEST]

Soils:

SOIL SERIES PERCENT SYMBOL Altavista 59 1A Munden 17A 2 Roanoke 32 24A STATE1 6 27A

05-05

Total Acres: 50.70 Usable Acres: 50.70

FSA Number: 0

rract: KW 05 Location:

King William

Slope Class: B

Hydrologic Group:

С

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

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P

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Lab

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
27	1A	Altavista
26	1B	Altavista
32	9A	Daleville
2	27A	STATE1
3	27B	STATE1
8	30A	Tomotley
1	22F	Nevarc Remlik

Field Name: 05-06

Total Acres: 12.90 Usable Acres: 12.90

FSA Number: 0 Tract: KW 05

Tract: KW 05 Location: King William

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
7 22F Nevarc Remlik
41 24A Roanoke
28 1A Altavista
24 1B Altavista

Field Warnings:

6 of 8 06/07/2024

05-07

Total Acres: 41.60 Usable Acres: 41.60

FSA Number: 0

Tract: Location: KW 05

King William

Hydrologic Group: Slope Class: A

С

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

Р

Κ

Lab

[NO TEST]

Soils:

PERCENT SYMBOL 9 6A

25A 18 60 27A 13 30A Bojac1 Seabrook STATE1 Tomotley

SOIL SERIES

05-08 Total Acres: 39.90 Usable Acres: 39.90

FSA Number: 0 KW 05 Tract:

King William Location:

Hydrologic Group: В Slope Class: A

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:

Lab Κ Р DATE

[NO TEST]

Soils:

SYMBOL SOIL SERIES PERCENT 1A Altavista 26 Riverview 30 23A 25A Seabrook 6 39 27A STATE1

ENVIRONMENTALLY SENSITIVE AREAS

Field	Reason for Sensitive Area
05-01	High Water Table (Map Units 5A, 30A - 18%) Leaching Potential (Map Unit 5A - 8%)
05-02	High Water Table (Map Units 5A, 3A - 91%) Leaching Potential (Map Units 5A, 29D - 99%)
05-03	High Water Table (Map Units 5A, 32A - 9%)
	Leaching Potential (Map Units 5A, 29D - 99%)
05-04	High Water Table (Map Unit 24A - 32%)
05-05	High Water Table (Map Units 9A, 30A - 37%)
	Leaching Potential (Map Units 22F, 30A -10%)
05-06	High Water Table (Map Units 24A - 40%)
	Leaching Potential (Map Units 22F - 9%)
05-07	High Water Table (Map Units 30A - 11%) Leaching Potential (Map Units 6A - 9%)
	Leading Fotential (Map Office OA - 070)
05-08	Flooded Soils (Map Unit 23A - 29%)

King William County Soils that are Environmentally Sensitive

0 2 1 1 1	Carles Name Time of year			Environmental	
Soil Map Unit	Series Name	High Water	Flooded	Lilyii Oliilileii (di	
3A	Bibb/Kinston	Nov - June	Nov – June	Drainage	
4A	Bohicket	Nov - June	Nov – June		
5A	Bojac	Jan-Dec		Leaching	
6A, 6B	Bojac			Leaching	
7A	Catpoint			Leaching	
8A	Conetoe			Leaching	
9A	Daleville	Nov - May			
14A	Kenansville			Leaching	
15A	Lanexa	Jan-Dec	Jan-Dec	Drainage	
16A	Mattan	Jan-Dec	Jan-Dec	Drainage	
18A	Myatt	Nov - April			
20A	Osier	Nov - March		Drainage	
22D, 22F	Remilk/Nevaro	;		Leaching	
23A	Riverview		Dec - March		
24A	Roanoke	Nov - May			
29B, 29D, 29F	Tarboro			Leaching	
30A	Tomotley	Nov - April			
32A	Wehadkee	Nov - May	Nov - May		

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



Agricultural/Drainage Ditch

- 10' buffer



Roadway

- 10' improved highway buffer



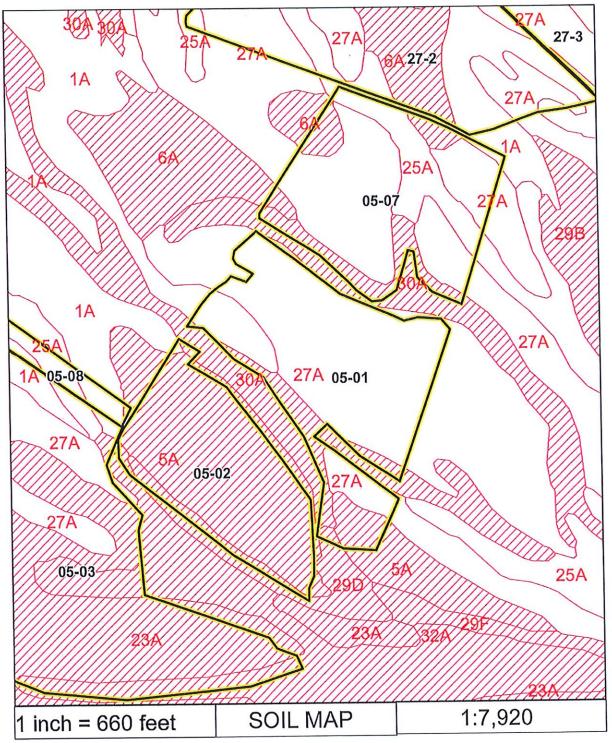
Field Boundary



- 100' buffer unless waiver issued



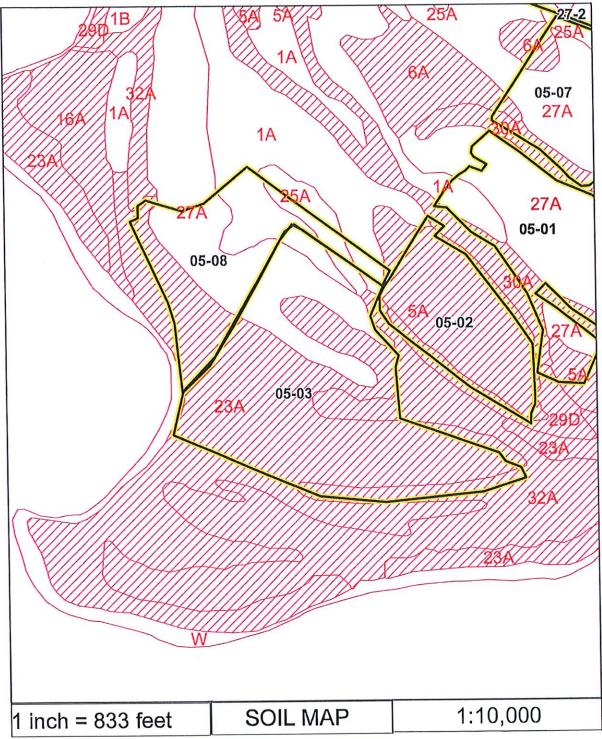
Kevin Engel KW 0 5 Fields 01-02, 07



1 <u>1</u>

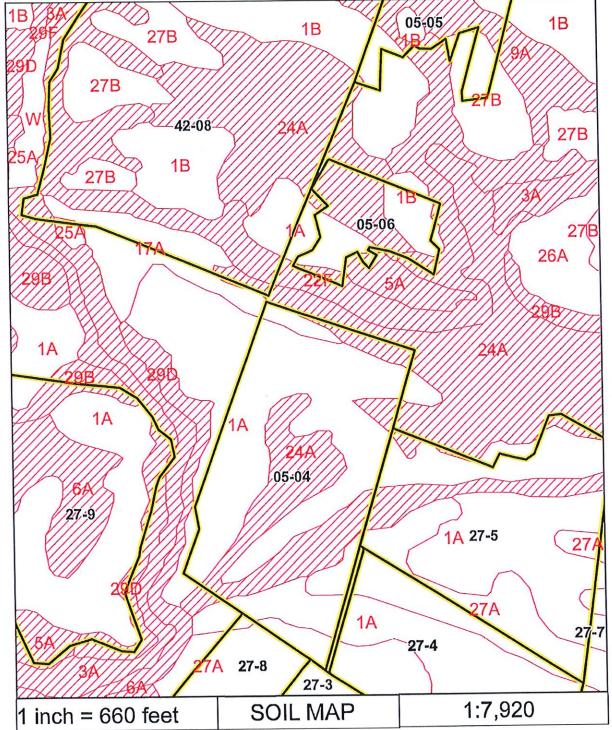
Environmentally Sensative Soil

Kevin Engel KW 05 Fields 03, 08





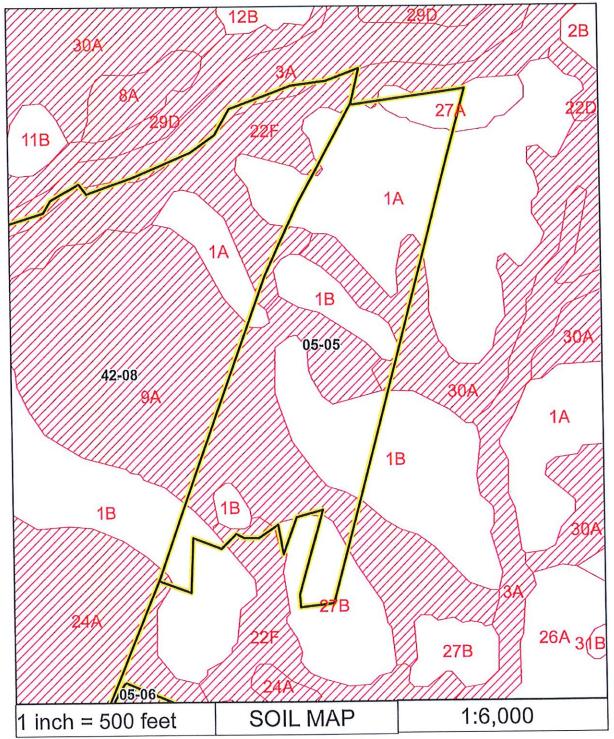
Kevin Engel KW 05 Fields 04, 06



1

Environmentally Sensative Soil

Kevin Engel KW 05 Field 05



Kevin Engel KW 05 Fields 01-02, 07



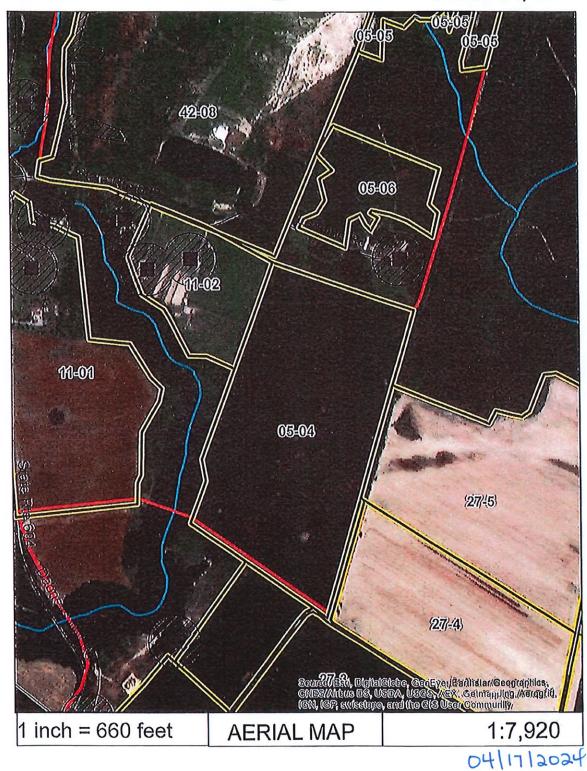


Kevin Engel KW 05 Fields 03, 08



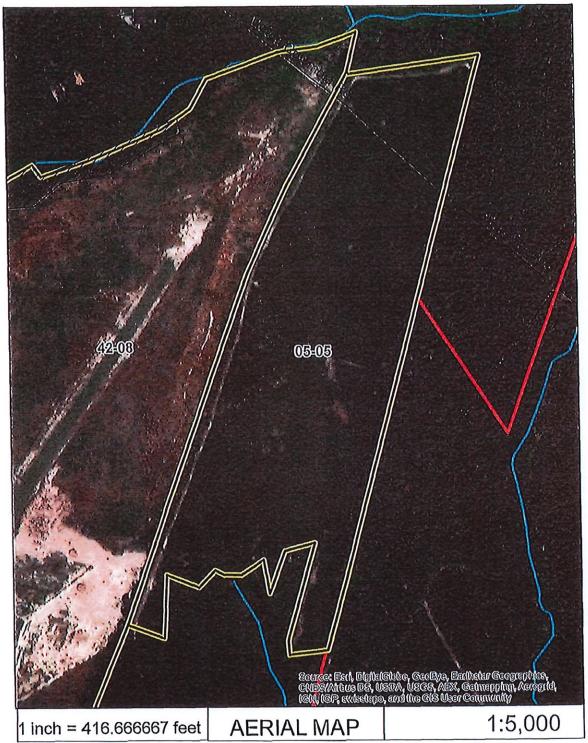


Kevin Engel KW 05 Fields 04, 06



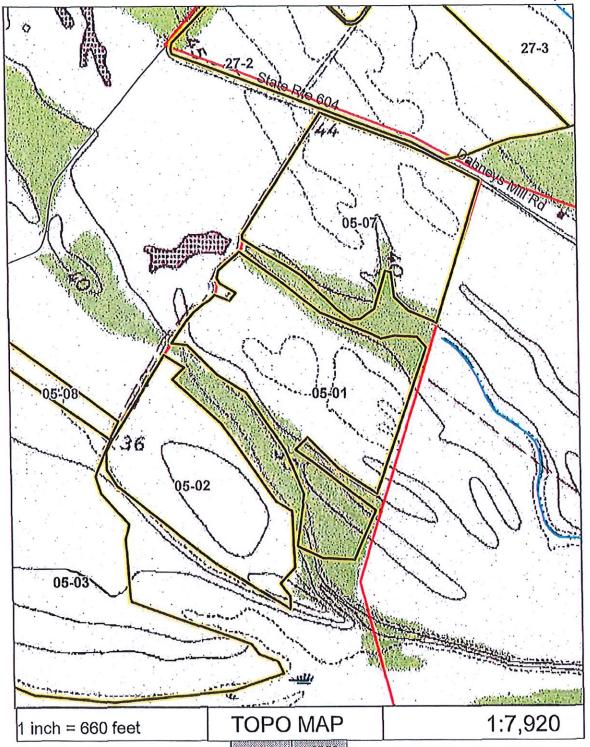


Kevin Engel KW05 Field05





Kevin Engel KW 05 Fields 01-02, 07



(2)

FIELD ACRES

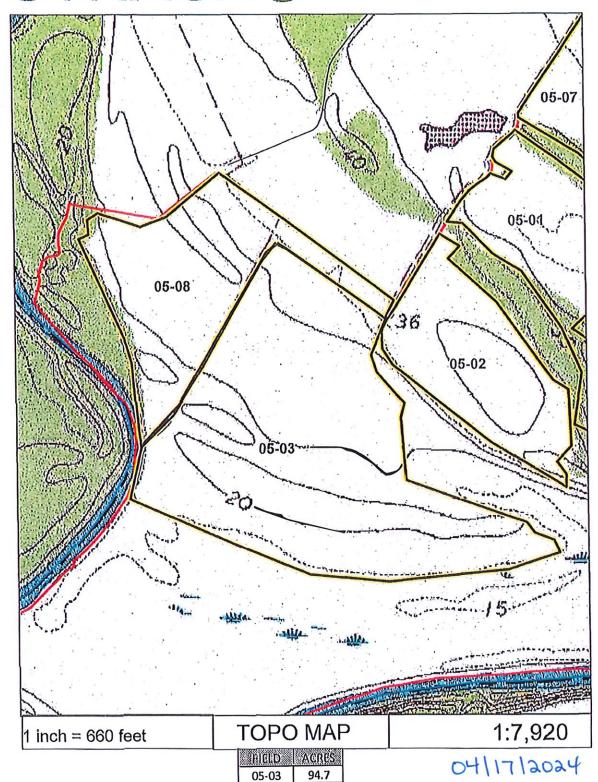
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05-02 31.5

05-07 42.1

04/17/2024

Kevin Engel KW 05 Fields 03, 08

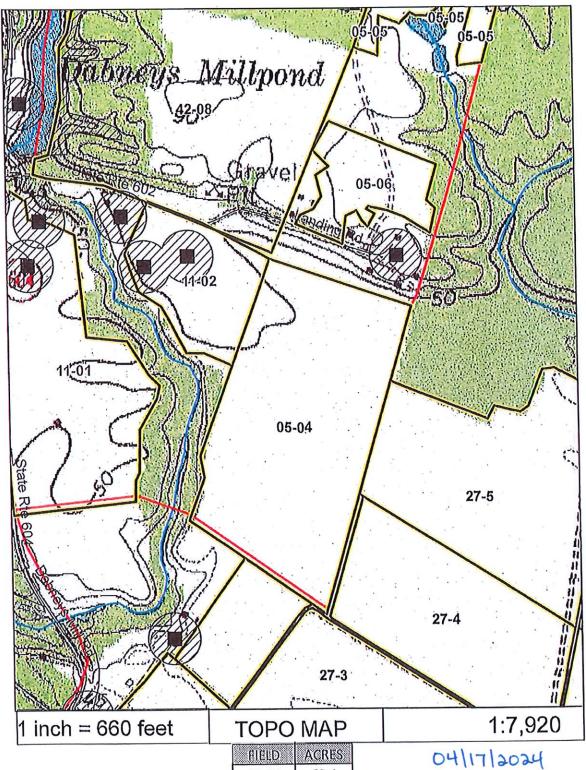


05-08

39.9



Kevin Engel KW 05 Fields 04, 06



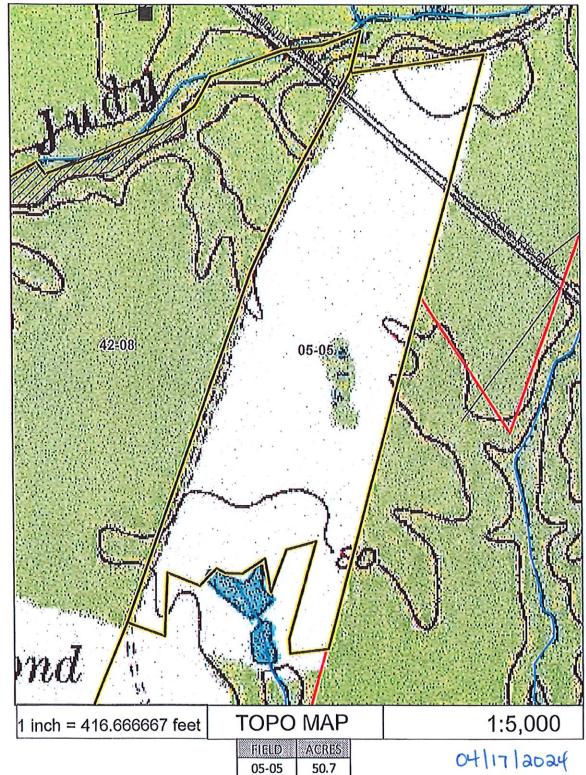
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05-06

63.4 12.9

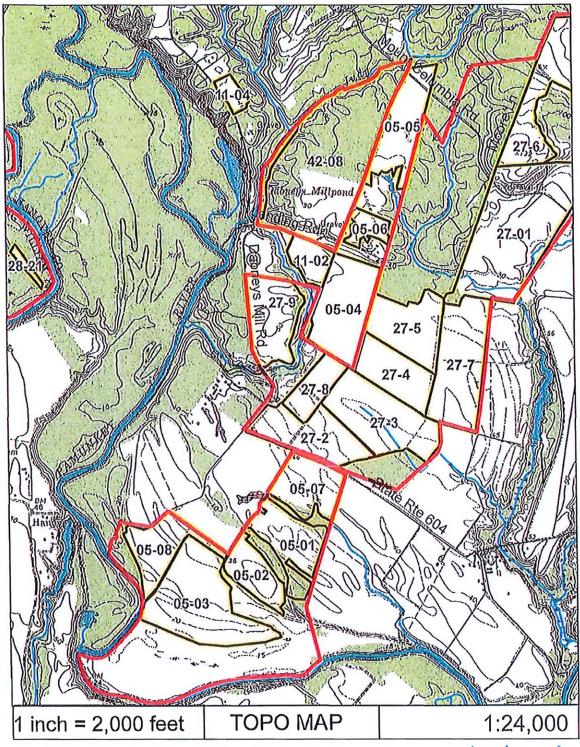


Kevin Engel KW 05 Field 05



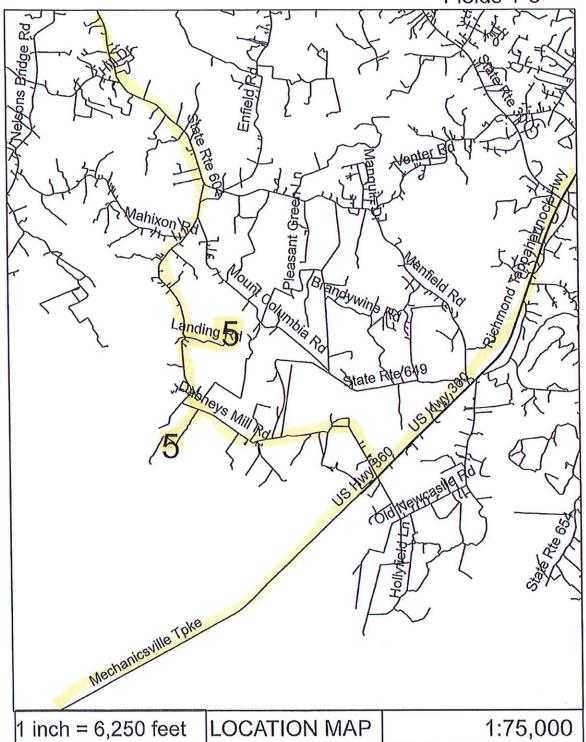


Kevin Engel KW 05 Fields 01-08

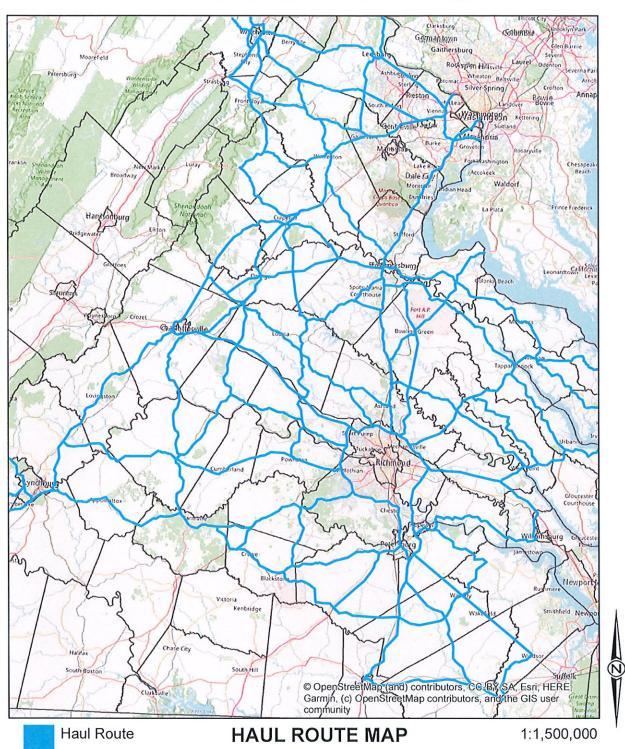




Kevin Engel KW 5 Fields 1-8







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.