

**LAND APPLICATION SITE**

**TOMMY O. LONGEST, JR.**

**KQTLJ 1 - 29**

**KING & QUEEN 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 2-21-18 between Thomas Ornel Longest Jr. etals 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 King & Queen 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 |
| <u>1623-139L-1301</u>  |               |               |               |
| <u>1623-159R-739</u>   |               |               |               |

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 |

P.O. Box 126

Thomas Ornel Longest Jr. etals      Thomas Ornel Longest Jr.      King & Queen C.H., Va. 23085  
 Landowner - Printed Name, Title      Signature      Mailing Address & Phone Number

**Permittee:**

Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

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

[Signature]  
 Permittee - Authorized Representative  
 Printed Name

[Signature]  
 Signature

PO Box 562 Remington, Virginia 22734  
 Mailing Address

Thomas O'Neil Longest, Jr. et als  
Title of Landowner

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Thomas O'Neil Longest Jr  
Signature

Thomas O'Neil Longest, Jr  
Printed Name of Signer

2-21-18  
Date

**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 3-13-18 between Thomas Ornel Longest Jr. et al 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 King & Queen Co Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 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 |
| <u>1623-139C-1301</u>  |               |               |               |
| <u>1623-159R-739</u>   |               |               |               |

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

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

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

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

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

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

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

Thomas Ornel Longest Jr. et al    Richard Bryan Longest    King & Queen C.H. Co. 23085  
 Landowner - Printed Name, Title    Signature    Mailing Address & Phone Number

**Permittee:**

Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

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

[Signature]    [Signature]    PO Box 562 Remington, Virginia 22734  
 Permittee - Authorized Representative    Signature    Mailing Address  
 Printed Name

Thomas Daniel Longest, Jr. et al  
Title of Landowner

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Richard Bryan Longest  
Signature

Richard Bryan Longest  
Printed Name of Signer

3-13-18  
Date



Thomas O'Neil Longest, Jr. et al  
Title of Landowner

Power, Capacity and Authority. Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Laverne S. Longest  
Signature

Laverne S. Longest  
Printed Name of Signer

3-13-81  
Date

**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 2-21-18 between T. Oniel Longest, Jr., Trustee 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 King & Queen 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 |
| <u>1623-158R-685</u>   | <u>1623-160L-733</u>       |               |               |
| <u>1623-158R-689, 689A</u>   | <u>1623-160R-717, 717A</u> |               |               |
| <u>1623-159L-846</u>   |                            |               |               |
| <u>1623-159R-701</u>   |                            |               |               |

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 |

T. Oniel Longest, Jr., Trustee  
Landowner - Printed Name, Title

T. Oniel Longest Jr, Trustee  
Signature

P.O. Box 126  
King & Queen C.H., Va. 23085  
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)

[Signature]  
Permittee - Authorized Representative  
Printed Name

[Signature]  
Signature

PO Box 562 Remington, Virginia 22734  
Mailing Address

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

Permittee: Recyc Systems, Inc County or City: King & Queen Co.  
Landowner: T. O'Neil Longest, Jr. Trustee

**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).

T. O'Neil Longest Jr Trustee  
Landowner's Signature

2-21-18  
Date

T. O'Neil Longest Jr Trustee  
Farm Operator Signature

\_\_\_\_\_  
Mailing Address & Phone Number

T. O'Neil Longest, Jr. Trustee

Title of Landowner

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

T. O'Neil Longest Jr. Trustee

Signature

T. O'Neil Longest, Jr. Trustee

Printed Name of Signer

2-21-18

Date

**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 2-21-18 between Thomas O. Longest, 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 King & Queen 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 |
| <u>1623-160L-733D</u>  |               |               |               |
| <u>1624-52L-526</u>  |               |               |               |
|  |               |               |               |
|  |               |               |               |

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.

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|   |   |   |   |
|---|---|---|---|
| <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 |

|                                      |                              |                                |
|--------------------------------------|------------------------------|--------------------------------|
| <u>Thomas O. Longest Jr.</u> (Owner) | <u>Thomas O. Longest Jr.</u> | <u>P.O. Box 126</u>            |
| Landowner - Printed Name, Title      | Signature                    | Mailing Address & Phone Number |

**Permittee:**

Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

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

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

Permittee: Recyc Systems, Inc

County or City: King & Queen Co.

Landowner: Thomas O. Longest, Jr.

**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:

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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).

Thomas O. Longest Jr.  
Landowner's Signature

2-21-18  
Date

Farm Operator Signature

Mailing Address & Phone Number

Thomas O. Longest, Jr.  
Title of Landowner

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Thomas O. Longest Jr  
Signature

Thomas O. Longest, Jr.  
Printed Name of Signer

2-21-18  
Date

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FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

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

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**Landowner:**

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| Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges |                      |                      |                      |
|--|----------------------|----------------------|----------------------|
| <u>Tax Parcel ID</u>   | <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> |
| <u>1623-158R-690</u>   |                      |                      |                      |
| <u>1623-159R-700,700A</u>  |                      |                      |                      |
| <u>1624-33L-1064</u>   | <u>1623-162R-984</u> |                      |                      |

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:

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|   |   |   |   |
|---|---|---|---|
| <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 |

P.O. Box 126

Thomas O'niel Longest, Jr. (Owner)      Thomas O'niel Longest Jr      King & Queen C.H. Va. 23085  
 Landowner - Printed Name, Title      Signature      Mailing Address & Phone Number

**Permittee:**

Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

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

[Signature]      [Signature]      PO Box 562 Remington, Virginia 22734  
 Permittee - Authorized Representative      Signature      Mailing Address  
 Printed Name

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

Permittee: Recyc Systems, Inc County or City: King & Queen Co.  
Landowner: Thomas O'Neil Longest, Jr.

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).

Thomas O'Neil Longest Jr  
Landowner's Signature

2-21-18  
Date

Thomas O'Neil Longest Jr  
Farm Operator Signature

Mailing Address & Phone Number

Thomas O'Neil Longest, Jr.  
Title of Landowner

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Thomas O'Neil Longest Jr.  
Signature

Thomas O'Neil Longest, Jr.  
Printed Name of Signer

2-21-18  
Date

**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 2-21-18 between Deborah F. Longest 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 King & Queen 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 |                       |                      |                      |
|--|-----------------------|----------------------|----------------------|
| <u>Tax Parcel ID</u>   | <u>Tax Parcel ID</u>  | <u>Tax Parcel ID</u> | <u>Tax Parcel ID</u> |
| <u>1623-158R-690</u>   |                       |                      |                      |
| <u>1623-159R-700, 700A, 739</u>  |                       |                      |                      |
| <u>1624-33L-1064</u>   | <u>1623-139L-1301</u> |                      |                      |

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 |

P.O. Box 126

Deborah F. Longest (owner) Deborah F. Longest King & Queen C.H. Co, 23085  
 Landowner -- Printed Name, Title                      Signature                      Mailing Address & Phone Number

**Permittee:**

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

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

[Signature] [Signature] PO Box 562 Remington, Virginia 22734  
 Permittee -- Authorized Representative                      Signature                      Mailing Address  
 Printed Name

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

Permittee: Recyc Systems, Inc

County or City: King & Queen Co

Landowner: Deborah F. Longest

**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).

Deborah F. Longest  
Landowner's Signature

2-21-18  
Date

Farm Operator Signature

Mailing Address & Phone Number

Deborah F. Longest  
Title of Landowner

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Deborah F. Longest  
Signature

Deborah F. Longest  
Printed Name of Signer

2-21-18  
Date

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

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

*Robert E. Gibson Trustee*

A. This land application agreement is made on 10-31-17 between \_\_\_\_\_ 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 King & Queen Co. Essex 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        |
| <i>Tax Map 23-162R-1375</i>  | <i>23-137R-1219</i> |                      |                      |
| <i>K&amp;Q 23-163R-1237</i>  | <i>23-162L-983</i>  | <i>Essex Co.</i>     | <i>1623-162R-984</i> |
| <i>23-163R-987</i>   | <i>23-137L-1207</i> | <i>Tax Map 52-76</i> |                      |
| <i>24-53R-70</i>   | <i>23-163R-996</i>  |                      |                      |
| <i>23-157L-646</i>   |                     |                      |                      |

- 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 |

*Robert E. Gibson Trustee*      *Robert E. Gibson TRUSTEE*      *26841 The Trail*  
 Landowner - Printed Name, Title      Signature      Mailing Address & Phone Number  
*Mattaponi VA, 23111*

**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)

*[Signature]*      *[Signature]*      PO Box 562 Remington, Virginia 22734  
 Permittee - Authorized Representative      Signature      Mailing Address  
 Printed Name

Robert E. Gibson Trustee  
Landowner as shown on Deed

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Robert E. Gibson  
Signature

ROBERT E GIBSON  
Printed Name of Signer

11-21-17  
Date



Nettie C. Gibson Trustee

Landowner as shown on Deed

**Power, Capacity and Authority.** Such Party has the right, power, legal capacity, and authority to execute and enter into this Agreement and to execute all other documents and perform all other acts as may be necessary in connection with the performance of this Agreement.

Nettie C. Gibson

Signature

Nettie C. Gibson

Printed Name of Signer

11-21-17

Date

# FARM DATA SHEET

|                           |  |                                 |   |
|---------------------------|--|---------------------------------|---|
| <b>SITE NAME:</b>         | Tommy O. Longest, Jr.                            | <b>COUNTY:</b>                  | King & Queen  |
| <b>OWNER:</b>             | See Attached List                                | <b>OPERATOR:</b>                | Tommy O. Longest, Jr.   |
| <b>OWNER'S ADDRESS:</b>   | P.O. Box 126<br>King and Queen C.H., VA<br>23085 | <b>OPERATOR'S ADDRESS:</b>      | P.O. Box 126<br>King & Queen C.H., VA<br>23085  |
| <b>OWNER'S TELEPHONE:</b> | 804-785-9881 Home<br>804-785-6620 Shop           | <b>OPERATOR'S TELEPHONE:</b>    | 804-785-9881 Home<br>804-785-6620 Shop  |
| <b>GENERAL FARM TYPE:</b> | Row Crops  | <b>CELL PHONE:</b>              | 804-824-4712  |
| <b># CATTLE:</b>          | None   | <b>EMAIL:</b>                   | -   |
| <b>LAGOON or SLURRY:</b>  | N/A  | <b>LATITUDE:</b>                | F 1-5, 25 37.741<br>F 6-9, 26 37.707<br>F 10 37.705<br>F 11-13 37.697<br>F 14 37.684<br>F 15 37.682<br>F 16-17 37.721<br>F 18 37.707<br>F 19-22, 27-29 37.709<br>F 23-24 37.608           |
| <b>TOPO QUAD:</b>         | Church View, Truhart, King & Queen Courthouse    | <b>LONGITUDE:</b>               | F 1-5, 25 -76.764<br>F 6-9, 26 -76.768<br>F 10 -76.785<br>F 11-13 -76.780<br>F 14 -76.756<br>F 15 -76.743<br>F 16-17 -76.885<br>F 18 -76.777<br>F 19-22, 27-29 -76.937<br>F 23-24 -76.774 |
| <b>COMMENTS:</b>          |  | <b>METHOD OF DETERMINATION:</b> | Online Maps   |
|                           |  |                                 |   |
|                           |  |                                 |   |

SD

1-3-18

**OWNER LIST**

| <b>Parcel</b>   | <b>Owner</b>  |
|---|---|
| 1623-159R-739<br>1623-139L-1301   | Thomas O’Niel Longest, Jr. et als.                              |
| 1623-159L-846<br>1623-158R-685<br>1623-158R-689A<br>1623-159R-701<br>1623-160L-733<br>1623-160R-717<br>1623-160R-717A | T. O’Niel Longest, Jr. Trustee                                  |
| 1623-160L-733D  | T. O. Longest, Jr.  |
| 1624-52L-526  | Thomas O. Longest, Jr.  |
| 1623-158R-690<br>1623-159R-700<br>1623-159R-700A<br>1624-33L-1064   | Thomas O’Niel Longest, Jr. and<br>Deboarah F.                   |
| 1623-162R-984   | Robert E. and Nettie C. Gibson<br>Trustees<br>T.O. Longest, Jr. |

**Tommy O. Longest, Jr.**  
**King & Queen County**  
**Field Changes**

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**Field 25 is a part of old Field 2.**

**Field 26 is a part of old Field 6.**

**Field 27 and 28 are a part of old Field 20.**

**Field 29 is a part of old Field 19.**

Landowner Coordination Form

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

Permittee: Recyc Systems, Inc

Site Name: Thomas O. Longest, Jr.

County or City: King & Queen Co.

Please Print

Signature not required on this page

| <u>Tax Parcel ID(s)</u> | <u>Landowners (s)</u>                                      |
|-------------------------|--|
| 1623-139L-1301          | Thomas O’Niel Longest, Jr. et. als.                        |
| 1623-159L-846           | T. O’Niel Longest, Jr. Trustee                             |
| 1623-158R-685           | T. O’Niel Longest, Jr. Trustee                             |
| 1623-158R-689A          | T. O’Niel Longest, Jr. Trustee                             |
| 1623-158R-690           | Thomas O. Longest, Hr. and Deborah F.                      |
| 1623-159R-700           | Thomas O’Niel Longest, Jr. and Deborah F.                  |
| 1623-159R-700A          | Thomas O’Niel Longest, Jr. and Deborah F.                  |
| 1623-159R-701           | T. O’Niel Longest, Jr. Trustee                             |
| 1623-159R-739           | Thomas O’Niel Longest, Jr. et. als.                        |
| 1623-160L-733           | T. O’Niel Longest, Jr. Trustee                             |
| 1623-160L-733D          | T. O. Longest, Jr.   |
| 1623-160R-717           | T. O’Niel Longest, Jr. Trustee                             |
| 1623-160R-717A          | T. O’Niel Longest, Jr. Trustee                             |
| 1624-33L-1064           | T. O’Niel Longest, Jr. and Deborah F.                      |
| 1624-52L-526            | Thomas O. Longest, Jr.                                     |
| 1623-162R-984           | Robert E. and Nettie C. Gibson Trustees; T.O. Longest, Jr. |
|                         |  |
|                         |  |

# RECYC SYSTEMS, INC

## FIELD DATA SHEET

| Field Identification | Gross Acres | Environmentally Sensitive Soils                 |                  |            |            | Hydro Map | Tax Map #  | FSA Tract #  |
|----------------------|-------------|---|------------------|------------|------------|-----------|--|--------------|
|                      |             | Water Table                                     | Bed Rock/Shallow | Surf/Leach | Freq Flood |           |  |              |
| KQTLJ 1              | 47.2        | 5E Nov.-Apr.                                    | -                | -          | -          | CB 06     | 1623-158R-685                                    | T 612<br>F 1 |
| KQTLJ 2              | 18.4        | 15A Nov.-Apr.<br>15B Nov.-Apr.                  | -                | -          | -          | CB 06     | 1623-158R-689A                                   | T 612<br>F 2 |
| KQTLJ 3              | 10.9        | 15A Nov.-Apr.<br>15B Nov.-Apr.                  | -                | -          | -          | CB 06     | 1623-158R-689A                                   | T 612<br>F 3 |
| KQTLJ 4              | 11.2        | 15A Nov.-Apr.<br>15B Nov.-Apr.<br>21A Dec.-Mar. | -                | -          | -          | CB 06     | 1623-158R-689A                                   | T 612<br>F 4 |
| KQTLJ 5              | 11.6        | 15A Nov.-Apr.<br>15B Nov.-Apr.<br>21A Dec.-Mar. | -                | -          | -          | CB 06     | 1623-158R-689A                                   | T 612<br>F 5 |
| KQTLJ 6              | 16.6        | 5D Nov.-Apr.<br>15A Nov.-Apr.<br>15B Nov.-Apr.  | -                | -          | -          | CB 08     | 1623-159R-700<br>1623-159R-700A<br>1623-159R-701 | T 607<br>F 1 |

8/8/20

| Field Identification | Gross Acres | Environmentally Sensitive Soils |                  |            |            | Hydro Map | Tax Map #                       | FSA Tract #     |
|----------------------|-------------|---------------------------------|------------------|------------|------------|-----------|---------------------------------|-----------------|
|                      |             | Water Table                     | Bed Rock/Shallow | Surf/Leach | Freq Flood |           |                                 |                 |
| KQTLJ 7              | 2.9         | 5D Nov.-Apr.                    | -                | -          | -          | CB 08     | 1623-159R-701                   | T 412<br>F 4    |
| KQTLJ 8              | 11.3        | 15B Nov.-Apr.                   | -                | -          | -          | CB 08     | 1623-159R-701                   | T 412<br>F 2    |
| KQTLJ 9              | 23.5        | 5D Nov.-Apr.<br>15B Nov.-Apr.   | -                | -          | -          | CB 08     | 1623-159R-701                   | T 412<br>F 2    |
| KQTLJ 10             | 7.2         | 15A Nov.-Apr.                   | -                | -          | -          | CB 08     | 1623-159L-846                   | T 404<br>F 1, 2 |
| KQTLJ 11             | 26.9        | 5D Nov.-Apr.<br>15B Nov.-Apr.   | -                | -          | -          | CB 08     | 1623-160L-733                   | T 401<br>F 1    |
| KQTLJ 12             | 13.7        | -                               | -                | -          | -          | CB 08     | 1623-160L-733                   | T 401<br>F 2    |
| KQTLJ 13             | 12.9        | 5D Nov.-Apr.                    | -                | -          | -          | CB 08     | 1623-160L-733<br>1623-160L-733D | T 401<br>F 2    |
| KQTLJ 14             | 45.5        | 3B Dec.-Apr.<br>5D Nov.-Apr.    | -                | -          | -          | CB 08     | 1623-160R-717<br>1623-160R-717A | T 400<br>F 1    |
| KQTLJ 15             | 64.1        | 15B Nov.-Apr.<br>20A Nov.-Apr.  | -                | -          | -          | CB 08     | 1623-139L-1301                  | T 2199<br>F 1   |
| KQTLJ 16             | 18.1        | 15B Nov.-Apr.                   | -                | -          | -          | CB 07     | 1624-33L-1064                   | T 474<br>F 1    |
| KQTLJ 17             | 7.1         | 5E Nov.-Apr.<br>15B Nov.-Apr.   | -                | -          | -          | CB 07     | 1624-33L-1064                   | T 474<br>F 2    |

2/9/20

| Field Identification | Gross Acres | Environmentally Sensitive Soils                |                  |            |            | Hydro Map | Tax Map #     | FSA Tract #                 |
|----------------------|-------------|--|------------------|------------|------------|-----------|---------------|-----------------------------|
|                      |             | Water Table                                    | Bed Rock/Shallow | Surf/Leach | Freq Flood |           |               |                             |
| KQTLJ 18             | 19.3        | 15A Nov.-Apr.<br>15B Nov.-Apr.                 | -                | -          | -          | CB 08     | 1623-159R-739 | T 2228<br>F 1               |
| KQTLJ 19             | 15.7        | 7A Nov.-June<br>10B Dec.-Apr.<br>21A Dec.-Mar. | -                | -          | -          | YO 59     | 1624-52L-526  | T 636<br>F 2                |
| KQTLJ 20             | 19.9        | 10B Dec.-Apr.<br>21A Dec.-Mar.                 | -                | -          | -          | YO 59     | 1624-52L-526  | T 636<br>F 1                |
| KQTLJ 21             | 43.7        | 3B Dec.-Apr.<br>10B Dec.-Apr.                  | -                | -          | -          | YO 59     | 1624-52L-526  | T 543<br>F 2                |
| KQTLJ 22             | 10.3        | 21A Dec.-Mar.                                  | -                | -          | -          | YO 59     | 1624-52L-526  | T 543<br>F 3                |
| KQTLJ 23             | 13.6        | -  | -                | -          | -          | YO 61     | 1623-162R-984 | T 438<br>F 1                |
| KQTLJ 24             | 53.9        | 5E Nov.-Apr.                                   | -                | -          | -          | YO 61     | 1623-162R-984 | T 438<br>F 2, 3, 4, 5,<br>6 |
| KQTLJ 25             | 28.5        | 15A Nov.-Apr.<br>15B Nov.-Apr.                 | -                | -          | -          | CB 06     | 1623-158R-690 | T 2752<br>F 2               |

| Field Identification | Gross Acres | Environmentally Sensitive Soils                |                  |            |            | Hydro Map | Tax Map #     | FSA Tract #   |
|----------------------|-------------|--|------------------|------------|------------|-----------|---------------|---------------|
|                      |             | Water Table                                    | Bed Rock/Shallow | Surf/Leach | Freq Flood |           |               |               |
| KQTLJ 26             | 19.7        | 5D Nov.-Apr.<br>15A Nov.-Apr.<br>15B Nov.-Apr. | -                | -          | -          | CB 08     | 1623-159R-701 | T 412<br>F 1  |
| KQTLJ 27             | 26.5        | 10B Dec.-Apr.<br>21A Dec.-Mar.                 | -                | -          | -          | YO 59     | 1624-52L-526  | T 543<br>F 1  |
| KQTLJ 28             | 11.4        | 10B Dec.-Apr.<br>21A Dec.-Mar.                 | -                | -          | -          | YO 59     | 1624-52L-526  | T 1888<br>F 1 |
| KQTLJ 29             | 2.9         | 7A Nov.-June<br>10B Dec.-Apr.<br>21A Dec.-Mar. | -                | -          | -          | YO 59     | 1624-52L-526  | T 636<br>F 0  |
| TOTAL ACRES IN SITE  | 614.5       |  |                  |            |            |           |               |               |

8/3/22

## NUTRIENT MANAGEMENT PLAN IDENTIFICATION

### Operator

Tommy Longest  
P.O. Box 126  
King and Queen C.H., VA 23085  
804-824-4712

**Integrator:**None

### Farm Coordinates

Easting: 0, Northing: 0, zone: 17

### Watershed Summary

watershed: CB06  
county: King & Queen

### Nutrient Management Planner

John Doe  
123 Main St.  
Suite #5  
Blacksburg, VA 24060

Certification Code: 103

### Acreage Use Summary

Total Acreage in this plan: 614.5  
Cropland: 611.6  
Hayland: 2.9  
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 1/3/2018  
Valid until 1/3/2020

Signature: \_\_\_\_\_

Planner

date

**Nutrient Management Plan Balance Sheet  
(Spring, 2018-Summer, 2020)**

**Tommy O. Longest, Jr.**

**Planner: John Doe (cert. No. 103)**

Tract: 400      Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTLJ 14(N)              | 46/46                          | 2018 | Corn (grain) | 130-30-60                  | 20/0                 |  |           |                               | 110-30-60                                | N/A                     |                                 |       |

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 401      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop          | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|---------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTLJ 11(N)              | 27/27                          | 2018 | Wheat (grain) | 100-30-60                  | 0/0                  |  |           |                               | 100-30-60                                | N/A                     |                                 |       |
| 2/KQTLJ 12(N)              | 14/14                          | 2018 | Wheat (grain) | 100-30-60                  | 0/0                  |  |           |                               | 100-30-60                                | N/A                     |                                 |       |
| 2/KQTLJ 13(N)              | 13/13                          | 2018 | Wheat (grain) | 100-20-80                  | 0/0                  |  |           |                               | 100-20-80                                | N/A                     |                                 |       |

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

Notes:

Tract: 404      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop          | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|---------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1, 2/KQTLJ 10(N)           | 7/7                            | 2018 | Wheat (grain) | 100-80-40                  | 0/0                  |  |           |                               | 100-80-40                                | N/A                     |                                 |       |

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

Notes:

Tract: 412      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop                    | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|-------------------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTLJL 26(N)             | 20/20                          | 2018 | Corn (grain)            | 140-60-60                  | 20/0                 |  |           |                               | 120-60-60                                | N/A                     |                                 |       |
| 4/KQTLJ 7(N)               | 3/3                            | 2018 | Fescue grass hay<br>mt. | 90-80-170                  | 0/0                  |  |           |                               | 90-80-170                                | N/A                     |                                 |       |
| 2/KQTLJ 8(N)               | 11/11                          | 2018 | Corn (grain)            | 150-20-80                  | 20/0                 |  |           |                               | 130-20-80                                | N/A                     |                                 |       |
| 2/KQTLJ 9(N)               | 24/24                          | 2018 | Corn (grain)            | 140-20-60                  | 20/0                 |  |           |                               | 120-20-60                                | N/A                     |                                 |       |

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

Notes:

Tract: 438      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name   | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|------------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTLJ 23(N)                | 14/14                          | 2018 | Corn (grain) | 140-20-60                  | 20/0                 |  |           |                               | 120-20-60                                | N/A                     |                                 |       |
| 2, 3, 4, 5, 6/KQTLJ<br>24(N) | 54/54                          | 2018 | Corn (grain) | 140-40-60                  | 20/0                 |  |           |                               | 120-40-60                                | N/A                     |                                 |       |

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

Notes:

Tract: 474      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop          | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|---------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTLJ 16(N)              | 18/18                          | 2018 | Wheat (grain) | 100-60-60                  | 0/0                  |  |           |                               | 100-60-60                                | N/A                     |                                 |       |
| 2/KQTLJ 17(N)              | 7/7                            | 2018 | Wheat (grain) | 100-60-60                  | 0/0                  |  |           |                               | 100-60-60                                | N/A                     |                                 |       |

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

Tract: 543

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |  |
|----------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|--|
| 1/KQTJL 27(N)              | 27/27                          | 2018 | Corn (grain) | 160-80-80                  | 20/0                 |  |           |                               | 140-80-80                                | N/A                     |                                 |       |  |
| 2/KQTLJ 21(N)              | 44/44                          | 2018 | Corn (grain) | 140-30-60                  | 20/0                 |  |           |                               | 120-30-60                                | N/A                     |                                 |       |  |
| 3/KQTLJ 22(N)              | 10/10                          | 2018 | Corn (grain) | 160-20-80                  | 20/0                 |  |           |                               | 140-20-80                                | N/A                     |                                 |       |  |

**Commercial Application Methods:**

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 607

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |  |
|----------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|--|
| 1/KQTLJ 6(N)               | 17/17                          | 2018 | Corn (grain) | 140-20-60                  | 20/0                 |  |           |                               | 120-20-60                                | N/A                     |                                 |       |  |

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 612      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop          | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|---------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTLJ 1(N)               | 47/47                          | 2018 | Wheat (grain) | 100-30-80                  | 0/0                  |  |           |                               | 100-30-80                                | N/A                     |                                 |       |
| 2/KQTLJ 2(N)               | 18/18                          | 2018 | Wheat (grain) | 100-30-80                  | 0/0                  |  |           |                               | 100-30-80                                | N/A                     |                                 |       |
| 3/KQTLJ 3(N)               | 11/11                          | 2018 | Wheat (grain) | 100-20-100                 | 0/0                  |  |           |                               | 100-20-100                               | N/A                     |                                 |       |
| 4/KQTLJ 4(N)               | 11/11                          | 2018 | Wheat (grain) | 100-20-80                  | 0/0                  |  |           |                               | 100-20-80                                | N/A                     |                                 |       |
| 5/KQTLJ 5(N)               | 12/12                          | 2018 | Wheat (grain) | 100-30-80                  | 0/0                  |  |           |                               | 100-30-80                                | N/A                     |                                 |       |

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

Notes:

Tract: 636      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 0/KQTJL 29(N)              | 3/3                            | 2018 | Corn (grain) | 150-80-80                  | 20/0                 |  |           |                               | 130-80-80                                | N/A                     |                                 |       |
| 2/KQTLJ 19(N)              | 16/16                          | 2018 | Corn (grain) | 100-20-80                  | 20/0                 |  |           |                               | 80-20-80                                 | N/A                     |                                 |       |
| 1/KQTLJ 20(N)              | 20/20                          | 2018 | Corn (grain) | 160-20-80                  | 20/0                 |  |           |                               | 140-20-80                                | N/A                     |                                 |       |

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

Notes:

Tract: 1888      Location: King & Queen  
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTJL 28(N)              | 11/11                          | 2018 | Corn (grain) | 170-80-80                  | 0/0                  |  |           |                               | 170-80-80                                | N/A                     |                                 |       |

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

Notes:

Tract: 2199

Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |  |
|----------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|--|
| 1/KQTLJ 15(N)              | 64/64                          | 2018 | Corn (grain) | 140-30-80                  | 20/0                 |  |           |                               | 120-30-80                                | N/A                     |                                 |       |  |

**Commercial Application Methods:**

br - Broadcast ba - Banded sd - Sidedress

**Notes:**

Tract: 2228 Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop         | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|--------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 1/KQTLJ 18(N)              | 19/19                          | 2018 | Corn (grain) | 150-80-100                 | 20/0                 |  |           |                               | 130-80-100                               | N/A                     |                                 |       |

**Commercial Application Methods:**

br - Broadcast ba - Banded sd - Sidedress

**Notes:**

Tract: 2752 Location: King & Queen

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

| Field<br>CFSA No.<br>/Name | Size<br>(ac)<br>Total/<br>Used | Yr.  | Crop          | Needs<br>N-P-K<br>(lbs/ac) | Leg<br>/Man<br>Resid | Manure/Biosld<br>Rate & Type<br>(season) | IT<br>(d) | Man/Bios<br>N-P-K<br>(lbs/ac) | Net = Needs -<br>appld N-P-K<br>(lbs/ac) | Sum<br>P<br>rem<br>cred | Commercial<br>N-P-K<br>(lbs/ac) | Notes |
|----------------------------|--------------------------------|------|---------------|----------------------------|----------------------|--|-----------|-------------------------------|--|-------------------------|---------------------------------|-------|
| 2/KQTJL 25(N)              | 29/29                          | 2018 | Wheat (grain) | 100-60-60                  | 0/0                  |  |           |                               | 100-60-60                                | N/A                     |                                 |       |

**Commercial Application Methods:**

br - Broadcast ba - Banded sd - Sidedress

**Notes:**

**Soil Test Summary**

| Tract | Field    | Acre | Date      | P2O5           | K2O            | Lab      | Soil pH | Lime Date | rec. lime tons/Ac |
|-------|----------|------|-----------|----------------|----------------|----------|---------|-----------|-------------------|
| 400   | KQTLJ 14 | 46   | 2015-Fa   | H (94 P ppm)   | M (94 K ppm)   | A&L MIII | 6.6     |           |                   |
| 401   | KQTLJ 11 | 27   | 2015-Fa   | H (75 P ppm)   | M (82 K ppm)   | A&L MIII | 6.9     |           |                   |
| 401   | KQTLJ 12 | 14   | 2015-Fa   | H (95 P ppm)   | M (78 K ppm)   | A&L MIII | 6.9     |           |                   |
| 401   | KQTLJ 13 | 14   | 2016-Fa   | H+ (114 P ppm) | M- (62 K ppm)  | A&L MIII | 6.      |           |                   |
| 404   | KQTLJ 10 | 7    | 2015-Fa   | M- (28 P ppm)  | M+ (114 K ppm) | A&L MIII | 6.3     |           |                   |
| 412   | KQTJL 26 | 19   | [No Test] |                |                |          |         |           |                   |
| 412   | KQTLJ 7  | 4    | [No Test] |                |                |          |         |           |                   |
| 412   | KQTLJ 8  | 15   | 2014-Fa   | H+ (119 P ppm) | M (96 K ppm)   | A&L MIII | 7.      |           |                   |
| 412   | KQTLJ 9  | 19   | 2014-Fa   | H+ (119 P ppm) | M (75 K ppm)   | A&L MIII | 6.2     |           |                   |
| 438   | KQTLJ 23 | 15   | 2016-Fa   | H+ (103 P ppm) | M (85 K ppm)   | A&L MIII | 6.      |           |                   |
| 438   | KQTLJ 24 | 54   | 2016-Fa   | H- (64 P ppm)  | M (73 K ppm)   | A&L MIII | 5.5     |           |                   |
| 474   | KQTLJ 16 | 20   | [No Test] |                |                |          |         |           |                   |
| 474   | KQTLJ 17 | 9    | [No Test] |                |                |          |         |           |                   |
| 543   | KQTJL 27 | 25   | [No Test] |                |                |          |         |           |                   |
| 543   | KQTLJ 21 | 44   | 2016-Fa   | H (70 P ppm)   | M (77 K ppm)   | A&L MIII | 6.6     |           |                   |
| 543   | KQTLJ 22 | 10   | 2016-Fa   | H+ (116 P ppm) | M (90 K ppm)   | A&L MIII | 5.6     |           |                   |
| 607   | KQTLJ 6  | 18   | 2014-Fa   | H+ (109 P ppm) | M (81 K ppm)   | A&L MIII | 6.6     |           |                   |
| 612   | KQTLJ 1  | 47   | 2016-Fa   | H (71 P ppm)   | M- (56 K ppm)  | A&L MIII | 6.      |           |                   |
| 612   | KQTLJ 2  | 16   | 2016-Fa   | H (95 P ppm)   | L+ (51 K ppm)  | A&L MIII | 6.6     |           |                   |
| 612   | KQTLJ 3  | 10   | 2016-Fa   | H+ (126 P ppm) | L (37 K ppm)   | A&L MIII | 6.4     |           |                   |
| 612   | KQTLJ 4  | 12   | 2015-Fa   | H+ (109 P ppm) | M- (70 K ppm)  | A&L MIII | 6.4     |           |                   |
| 612   | KQTLJ 5  | 12   | 2015-Fa   | H (88 P ppm)   | M- (58 K ppm)  | A&L MIII | 6.6     |           |                   |
| 636   | KQTJL 29 | 2    | [No Test] |                |                |          |         |           |                   |
| 636   | KQTLJ 19 | 16   | 2016-Fa   | H+ (112 P ppm) | M- (56 K ppm)  | A&L MIII | 6.1     |           |                   |
| 636   | KQTLJ 20 | 21   | 2016-Fa   | H+ (105 P ppm) | M (72 K ppm)   | A&L MIII | 6.5     |           |                   |
| 1888  | KQTJL 28 | 14   | [No Test] |                |                |          |         |           |                   |
| 2199  | KQTLJ 15 | 70   | 2016-Fa   | H (73 P ppm)   | L+ (53 K ppm)  | A&L MIII | 6.4     |           |                   |
| 2228  | KQTLJ 18 | 19   | 2014-Fa   | M (38 P ppm)   | M- (60 K ppm)  | A&L MIII | 6.2     |           |                   |
| 2752  | KQTJL 25 | 29   | [No Test] |                |                |          |         |           |                   |

Test]

### Field Productivities for Major Crops

| Tract Name | Tract/<br>Field | Field Name | Acres | Predominant Soil<br>Series | Corn | Small<br>Grain | Alfalfa       | Grass<br>Hay | Environmental Warnings    |
|------------|-----------------|------------|-------|----------------------------|------|----------------|---------------|--------------|---------------------------|
| 400        | 400/1           | KQTLJ 14   | 46    | Emporia                    | IIIb | II             | III           | II           |                           |
| 401        | 401/1           | KQTLJ 11   | 27    | Slagle                     | IIIa | I              | III           | I            |                           |
|            | 401/2           | KQTLJ 12   | 14    | Emporia                    | IIIa | II             | III           | II           |                           |
|            | 401/2           | KQTLJ 13   | 14    | Emporia                    | IIIb | II             | III           | II           |                           |
| 404        | 404/1, 2        | KQTLJ 10   | 7     | Slagle                     | IIb  | I              | III           | I            |                           |
| 412        | 412/1           | KQTJL 26   | 19    | Emporia                    | IIIa | II             | III           | II           | High Slope                |
|            | 412/4           | KQTLJ 7*   | 4     | Emporia                    | IVa  | III            | III           | III          |                           |
|            | 412/2           | KQTLJ 8    | 15    | Slagle                     | IIb  | I              | III           | I            |                           |
|            | 412/2           | KQTLJ 9    | 19    | Emporia                    | IIIa | II             | III           | II           |                           |
| 438        | 438/1           | KQTLJ 23   | 15    | Emporia                    | IIIa | II             | III           | II           |                           |
|            | 438/2, 3,<br>4, | KQTLJ 24   | 54    | Emporia                    | IIIa | II             | III           | II           |                           |
| 474        | 474/1           | KQTLJ 16   | 20    | Slagle                     | IIb  | I              | III           | I            |                           |
|            | 474/2           | KQTLJ 17   | 9     | Slagle                     | IIb  | I              | III           | I            |                           |
| 543        | 543/1           | KQTJL 27   | 25    | State1                     | IIa  | II             | III           | II           |                           |
|            | 543/2           | KQTLJ 21   | 44    | State1                     | IIIa | II             | III           | III          |                           |
|            | 543/3           | KQTLJ 22   | 10    | State1                     | IIa  | I              | II            | II           |                           |
| 607        | 607/1           | KQTLJ 6    | 18    | Emporia                    | IIIa | II             | III           | II           |                           |
| 612        | 612/1           | KQTLJ 1    | 47    | Slagle                     | IIb  | I              | III           | I            |                           |
|            | 612/2           | KQTLJ 2    | 16    | Slagle                     | IIb  | I              | III           | I            |                           |
|            | 612/3           | KQTLJ 3    | 10    | Slagle                     | IIIa | II             | III           | II           |                           |
|            | 612/4           | KQTLJ 4    | 12    | Slagle                     | IIIb | II             | III           | III          |                           |
|            | 612/5           | KQTLJ 5    | 12    | Slagle                     | IIIa | II             | III           | II           |                           |
| 636        | 636/0           | KQTJL 29   | 2     | Munden                     | IIb  | II             | III           | III          | High Leaching, Poor Drain |
|            | 636/2           | KQTLJ 19*  | 16    | Bojac1                     | IVb  | II             | Not<br>Suited | III          |                           |
|            | 636/1           | KQTLJ 20   | 21    | State1                     | IIa  | II             | III           | II           |                           |
| 1888       | 1888/1          | KQTJL 28   | 14    | Munden                     | Ib   | I              | III           | II           |                           |
| 2199       | 2199/1          | KQTLJ 15   | 70    | Emporia                    | IIIa | II             | III           | II           |                           |
| 2228       | 2228/1          | KQTLJ 18   | 19    | Slagle                     | IIb  | I              | III           | I            |                           |
| 2752       | 2752/2          | KQTJL 25   | 29    | Slagle                     | IIb  | I              | III           | I            |                           |

\* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

### *Yield Range*

| <b>Field Productivity Group</b> | <b>Corn Grain Bu/Acre</b> | <b>Barley/Intensive Wheat Bu/Acre</b> | <b>Std. Wheat Bu/Acre</b> | <b>Alfalfa Tons/Acre</b> | <b>Grass/Hay Tons/Acre</b> |
|---------------------------------|---------------------------|---------------------------------------|---------------------------|--------------------------|----------------------------|
| 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, 2018 - Summer, 2020

**Farm Name:** Tommy O. Longest, Jr.

Location: King & Queen

Specialist: John Doe

N-based Acres: 628.7

P-based Acres: 0.0

**Tract Name:** 400

FSA Number: 400

Location: King & Queen

**Field Name:** KQTLJ 14

Total Acres: 45.50 Usable Acres: 45.50

FSA Number: 1

Tract: 400

Location: King & Queen

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      |
|---------|-----|-------------|-------------|----------|
| Fa-2015 | 6.6 | H(94 P ppm) | M(94 K ppm) | A&L MIII |

### **Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 12      | 3B     | Craven      |
| 73      | 4B     | Emporia     |
| 2       | 4C     | Emporia     |

1 5D Emporia Slagle  
13 17B Suffolk

**Field Warnings:**

**Tract Name:** 401  
**FSA Number:** 401  
**Location:** King & Queen

**Field Name:** KQTLJ 11  
**Total Acres:** 27.20 **Usable Acres:** 27.20  
**FSA Number:** 1  
**Tract:** 401  
**Location:** King & Queen  
**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 |
|---------|-----|-------------|-------------|----------|-----|
| Fa-2015 | 6.9 | H(75 P ppm) | M(82 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 53      | 15B    | Slagle         |
| 4       | 4A     | Emporia        |
| 42      | 4B     | Emporia        |
| 2       | 5D     | Emporia Slagle |

**Field Warnings:**

**Field Name:** KQTLJ 12  
**Total Acres:** 13.80 **Usable Acres:** 13.80

FSA Number: 2  
Tract: 401  
Location: King & Queen  
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      |
|---------|-----|-------------|-------------|----------|
| Fa-2015 | 6.9 | H(95 P ppm) | M(78 K ppm) | A&L MIII |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 8       | 4A     | Emporia     |
| 92      | 4B     | Emporia     |

**Field Warnings:**

**Field Name:** KQTLJ 13

Total Acres: 14.40 Usable Acres: 14.40

FSA Number: 2

Tract: 401

Location: King & Queen

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 |
| Fa-2016 | 6.0 | H+(114 P ppm) | M-(62 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 3       | 4A     | Emporia        |
| 75      | 4B     | Emporia        |
| 22      | 5D     | Emporia Slagle |

**Field Warnings:**

**Tract Name:** 404  
**FSA Number:** 404  
**Location:** King & Queen

**Field Name:** KQTLJ 10  
**Total Acres:** 6.70 **Usable Acres:** 6.70  
**FSA Number:** 1, 2  
**Tract:** 404  
**Location:** King & Queen  
**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 |
| Fa-2015 | 6.3 | M-(28 P ppm) | M+(114 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 100     | 15A    | Slagle      |

**Field Warnings:**

**Tract Name:** 412  
**FSA Number:** 412  
**Location:** King & Queen

**Field Name:** KQTJL 26  
**Total Acres:** 18.80 **Usable Acres:** 18.80  
**FSA Number:** 1  
**Tract:** 412  
**Location:** King & Queen  
**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    |
|---------|--------|----------------|
| 8       | 4A     | Emporia        |
| 52      | 4B     | Emporia        |
| 16      | 5D     | Emporia Slagle |
| 13      | 15A    | Slagle         |
| 11      | 15B    | Slagle         |

**Field Warnings:**

**Field Name:** KQTLJ 7  
**Total Acres:** 3.60 **Usable Acres:** 3.60  
**FSA Number:** 4

Tract: 412  
Location: King & Queen  
Slope Class: D Hydrologic Group: C

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

**Conservation Practices:**  
Pasture (>75% cover)

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

**Soil Test Results:**  
DATE PH P K Lab  
[NO TEST]

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 23      | 4B     | Emporia        |
| 77      | 5D     | Emporia Slagle |

**Field Warnings:**  
*Environmentally Sensitive Soils due to:*

*Soils with percent slope in excess of 15%*

**Field Name:** KQTLJ 8  
Total Acres: 15.40 Usable Acres: 15.40  
FSA Number: 2  
Tract: 412  
Location: King & Queen  
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 |
| Fa-2014 | 7.0 | H+(119 P ppm) | M(96 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 6       | 4B     | Emporia        |
| 1       | 5D     | Emporia Slagle |
| 93      | 15B    | Slagle         |

**Field Warnings:**

**Field Name:** KQTLJ 9

Total Acres: 19.40 Usable Acres: 19.40

FSA Number: 2

Tract: 412

Location: King & Queen

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 |
| Fa-2014 | 6.2 | H+(119 P ppm) | M(75 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 47      | 4A     | Emporia        |
| 33      | 4B     | Emporia        |
| 2       | 5D     | Emporia Slagle |
| 18      | 15B    | Slagle         |

**Field Warnings:**

**Tract Name:** 438  
**FSA Number:** 438  
**Location:** King & Queen

**Field Name:** KQTLJ 23  
**Total Acres:** 14.60 **Usable Acres:** 14.60  
**FSA Number:** 1  
**Tract:** 438  
**Location:** King & Queen  
**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      |
|---------|-----|---------------|-------------|----------|
| Fa-2016 | 6.0 | H+(103 P ppm) | M(85 K ppm) | A&L MIII |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 47      | 4A     | Emporia        |
| 48      | 4B     | Emporia        |
| 5       | 5E     | Emporia Slagle |

**Field Warnings:**

**Field Name: KQTLJ 24**

Total Acres: 53.50 Usable Acres: 53.50

FSA Number: 2, 3, 4, 5, 6

Tract: 438

Location: King & Queen

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 |
|---------|-----|--------------|-------------|----------|-----|
| Fa-2016 | 5.5 | H-(64 P ppm) | M(73 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 92      | 4B     | Emporia        |
| 8       | 5E     | Emporia Slagle |

**Field Warnings:**

**Tract Name: 474**

FSA Number: 474

Location: King & Queen

**Field Name: KQTLJ 16**

Total Acres: 20.00 Usable Acres: 20.00

FSA Number: 1

Tract: 474

Location: King & Queen

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 |
|---------|--------|-------------|
| 45      | 4B     | Emporia     |
| 55      | 15B    | Slagle      |

**Field Warnings:**

**Field Name:** KQTLJ 17

Total Acres: 9.20 Usable Acres: 9.20

FSA Number: 2

Tract: 474

Location: King & Queen

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 |
|---------|--------|-------------|
|---------|--------|-------------|

98            15B    Slagle  
2            5E     Emporia Slagle

**Field Warnings:**

**Tract Name:** 543  
**FSA Number:** 543  
**Location:** King & Queen

**Field Name:** KQTJL 27  
**Total Acres:** 24.70    **Usable Acres:** 24.70  
**FSA Number:** 1  
**Tract:** 543  
**Location:** King & Queen  
**Slope Class:** B        **Hydrologic Group:** B

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 |
|---------|--------|-------------|
| 40      | 10B    | Munden      |
| 11      | 16A    | State1      |
| 37      | 16B    | State1      |
| 12      | 21A    | Wahee       |

**Field Warnings:**

**Field Name:** KQTLJ 21  
**Total Acres:** 44.00    **Usable Acres:** 44.00

FSA Number: 2  
Tract: 543  
Location: King & Queen  
Slope Class: B Hydrologic Group: B

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      |
|---------|-----|-------------|-------------|----------|
| Fa-2016 | 6.6 | H(70 P ppm) | M(77 K ppm) | A&L MIII |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 21      | 3B     | Craven         |
| 6       | 5D     | Emporia Slagle |
| 15      | 10B    | Munden         |
| 41      | 16B    | State1         |
| 17      | 21A    | Wahee          |

**Field Warnings:**

**Field Name: KQTLJ 22**

Total Acres: 10.40 Usable Acres: 10.40  
FSA Number: 3  
Tract: 543  
Location: King & Queen  
Slope Class: B Hydrologic Group: B

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 |
| Fa-2016 | 5.6 | H+(116 P ppm) | M(90 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 15      | 3B     | Craven         |
| 6       | 5D     | Emporia Slagle |
| 2       | 10B    | Munden         |
| 77      | 16B    | State1         |

**Field Warnings:**

**Tract Name:** 607  
**FSA Number:** 607  
**Location:** King & Queen

**Field Name:** KQTLJ 6  
**Total Acres:** 18.00 **Usable Acres:** 18.00  
**FSA Number:** 1  
**Tract:** 607  
**Location:** King & Queen  
**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 |
| Fa-2014 | 6.6 | H+(109 P ppm) | M(81 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 24      | 4A     | Emporia        |
| 54      | 4B     | Emporia        |
| 11      | 5D     | Emporia Slagle |
| 7       | 15A    | Slagle         |
| 4       | 15B    | Slagle         |

**Field Warnings:**

**Tract Name:** 612

FSA Number: 612

Location: King & Queen

**Field Name:** KQTLJ 1

Total Acres: 47.20 Usable Acres: 47.20

FSA Number: 1

Tract: 612

Location: King & Queen

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 |
|---------|-----|-------------|--------------|----------|-----|
| Fa-2016 | 6.0 | H(71 P ppm) | M-(56 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES    |
|---------|--------|----------------|
| 11      | 4B     | Emporia        |
| 13      | 4C     | Emporia        |
| 9       | 5E     | Emporia Slagle |

46            15A    Slagle  
21            15B    Slagle

**Field Warnings:**

**Field Name:**        **KQTLJ 2**  
Total Acres:    16.30    Usable Acres:    16.30  
FSA Number:    2  
Tract:            612  
Location:            King & Queen  
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 |
|---------|-----|-------------|--------------|----------|-----|
| Fa-2016 | 6.6 | H(95 P ppm) | L+(51 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 3       | 3B     | Craven      |
| 13      | 4B     | Emporia     |
| 5       | 4C     | Emporia     |
| 80      | 15B    | Slagle      |

**Field Warnings:**

**Field Name:**        **KQTLJ 3**  
Total Acres:    9.80    Usable Acres:    9.80  
FSA Number:    3  
Tract:            612  
Location:            King & Queen  
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 |
| Fa-2016 | 6.4 | H+(126 P ppm) | L(37 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 55      | 15B    | Slagle      |
| 45      | 4C     | Emporia     |

**Field Warnings:**

**Field Name:** KQTLJ 4

Total Acres: 12.10 Usable Acres: 12.10

FSA Number: 4

Tract: 612

Location: King & Queen

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 |
| Fa-2015 | 6.4 | H+(109 P ppm) | M-(70 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 34      | 4C     | Emporia     |
| 45      | 15B    | Slagle      |
| 21      | 18B    | Tarboro     |

**Field Warnings:**

**Field Name:** KQTLJ 5

Total Acres: 12.20 Usable Acres: 12.20

FSA Number: 5

Tract: 612

Location: King & Queen

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 |
|---------|-----|-------------|--------------|----------|-----|
| Fa-2015 | 6.6 | H(88 P ppm) | M-(58 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 39      | 4B     | Emporia     |
| 2       | 4C     | Emporia     |
| 49      | 15B    | Slagle      |
| 3       | 18B    | Tarboro     |
| 7       | 21A    | Wahee       |

**Field Warnings:**

**Tract Name:** 636

FSA Number: 636  
Location: King & Queen

**Field Name: KQTJL 29**  
Total Acres: 2.30 Usable Acres: 2.30  
FSA Number: 0  
Tract: 636  
Location: King & Queen  
Slope Class: B Hydrologic Group: B

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 |
|---------|--------|-------------|
| 86      | 10B    | Munden      |
| 15      | 21A    | Wahee       |

**Field Warnings:**

**Field Name: KQTLJ 19**  
Total Acres: 16.00 Usable Acres: 16.00  
FSA Number: 2  
Tract: 636  
Location: King & Queen  
Slope Class: A Hydrologic Group: B

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 |
| Fa-2016 | 6.1 | H+(112 P ppm) | M-(56 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES  |
|---------|--------|--------------|
| 78      | 2A     | Bojac1       |
| 2       | 7A     | Bibb Kinston |
| 14      | 10B    | Munden       |
| 3       | 13A    | Roanoke      |
| 3       | 21A    | Wahee        |

**Field Warnings:**

*Environmentally Sensitive Soils due to:*

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

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

**Field Name: KQTLJ 20**

Total Acres: 21.40 Usable Acres: 21.40

FSA Number: 1

Tract: 636

Location: King & Queen

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

*P-Index Summary*

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method



| PERCENT | SYMBOL | SOIL SERIES  |
|---------|--------|--------------|
| 3       | 7A     | Bibb Kinston |
| 56      | 10B    | Munden       |
| 15      | 16A    | State1       |
| 26      | 16B    | State1       |

**Field Warnings:**

**Tract Name:** 2199  
**FSA Number:** 2199  
**Location:** King & Queen

**Field Name:** KQTLJ 15  
**Total Acres:** 70.40 **Usable Acres:** 70.40  
**FSA Number:** 1  
**Tract:** 2199  
**Location:** King & Queen  
**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      |
|---------|-----|-------------|--------------|----------|
| Fa-2016 | 6.4 | H(73 P ppm) | L+(53 K ppm) | A&L MIII |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 58      | 4B     | Emporia     |
| 30      | 15B    | Slagle      |
| 12      | 20A    | Tomotley    |

**Field Warnings:**

**Tract Name: 2228**  
FSA Number: 2228  
Location: King & Queen

**Field Name: KQTLJ 18**  
Total Acres: 19.20 Usable Acres: 19.20  
FSA Number: 1  
Tract: 2228  
Location: King & Queen  
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 |
|---------|-----|-------------|--------------|----------|-----|
| Fa-2014 | 6.2 | M(38 P ppm) | M-(60 K ppm) | A&L MIII |     |

**Soils:**

| PERCENT | SYMBOL | SOIL SERIES |
|---------|--------|-------------|
| 55      | 15A    | Slagle      |
| 45      | 15B    | Slagle      |

**Field Warnings:**

**Tract Name: 2752**  
FSA Number: 2752  
Location: King & Queen

**Field Name: KQTJL 25**  
Total Acres: 28.90 Usable Acres: 28.90  
FSA Number: 2  
Tract: 2752  
Location: King & Queen

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 |
|---------|--------|-------------|
| 2       | 3B     | Craven      |
| 7       | 4C     | Emporia     |
| 91      | 15B    | Slagle      |

**Field Warnings:**