



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ENVIRONMENTAL FIELD OFFICE**

3711 Middlebrook Pike
Knoxville, TN 37921

(865)594-6035 STATEWIDE 1-888-891-8332 (865)594-6105

Receipt: EAC-K-6446

Date of Receipt: 23-Feb-2015 11:49 am

Created By: Tina Jones (BG34953)

County: Jefferson

EFO/Office: Knoxville Field Office

Received From: WILL RAINES

Company/Affiliation: BUSH BROTHERS & COMPAN

Recipient Address: P.O. BOX 52330
KNOXVILLE, TN- 37950

Amount Received: \$500.00

Method of Payment: CHECK

Check Number: 254131

Comments: Bush Brothers and Company Inc. ARAP

Division	Description	TDEC Code	Quantity	Unit Price	Line Total
	ARAP \$500 Permit Application	43.340.F02	1	\$500.00	\$500.00

THIS CHECK IS VOID WITHOUT A BLUE & GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW



BUSH BROTHERS & COMPANY
P.O. Box 52330 KNOXVILLE, TN 37950-2330

Bank of America
Bank of America, N.A.
Atlanta, DeKalb County, Georgia

254131

64-12
61

DATE
2/12/2015

AMOUNT
\$*****500.00

PAY Five Hundred and 00/100 Dollars

TO THE
ORDER
OF

TENNESSEE DEPT OF ENVIRONMENT
& CONSERVATION
401 CHURCH ST 14TH FL L&C
NASHVILLE TN 37243

Thomas J. Feriter

AUTHORIZED SIGNATURE

BORDER CONTAINS MICROPRINTING

Visit us at: <http://tn.gov/environment/>

CN-1139 (Rev. 6-09)

RDA S1730

SEC, Inc.

SITE ENGINEERING CONSULTANTS

Engineering • Surveying • Land Planning
850 Middle Tennessee Blvd, Murfreesboro, TN 37129
www.sec-civil.com • 615-890-7901 • fax 615-895-2567

FEB 23 2015

February 19, 2015

Attention ARAP Processing
Knoxville EFO
Water.permits@tn.gov
3711 Middlebrook Pike
Knoxville, TN 37921

RE: Bush Beans
3304 Chestnut Hill Rd.
Clear Creek Utility Line Crossing
Jefferson County, TN
SEC Project No. 14128

To Whom It May Concern:

On behalf of our client, Bush Brothers and Company Inc., enclosed is an application for an *Aquatic Resource Alteration Permits* for a utility line crossing of Clear Creek for their property adjacent to Newport Highway Hwy 411 and Hwy 92 in Dandridge, TN.

The ARAP application forms have the supplemental sections 6 to 8 and a ½ size Bush Brothers & Company Inc. construction plans have been included. Also included is the application fee of \$500 for a General Permit requiring notification.

Please feel free to contact me with questions or comments at (615) 890-7901 or jreed@sec-civil.com

Sincerely,



Jamie Reed, P.E., R.L.S.
President
SEC, Inc.

Enclosure: ARAP Permit Applications for a Driveway Stream Crossings
Bush Brothers & Company Inc. Utility Line Crossing Plans
Check for \$500



FEB 23 2015

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243

1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

OFFICIAL STATE USE ONLY	Site #:	Permit #:
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Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name: Robert Rosdil			
Company: Bush Brothers and Company		Signatory's Title or Position: Environmental Manager	
Mailing Address: 3304 Chestnut Hill Rd.		City: Dandridge	State: TN Zip: 37725
Phone: (865)-776-6372	Fax:	E-mail: rrosdil@bushbros.com	

Section 2. Alternate Contact/Consultant Information (a consultant is not required)

Alternate Contact Name:			
Company:		Title or Position:	
Mailing Address:		City:	State: Zip:
Phone:	Fax:	E-mail:	

Section 3. Fee (check appropriate box and submit requisite fee with application)

No Fee Submitted Fee Submitted with Application Amount Submitted: \$ 500 *ty*

Current fee schedules for Aquatic Resource Alteration Permit processing may be found at the Division of Water Resources webpage at <http://www.tn.gov/environment/permits/arap.shtml> or by calling (615) 532-0625. Make checks payable to "Treasurer, State of Tennessee".

Section 4. Project Details (fill in information and check appropriate boxes)

Site or Project Name: Bush Brothers and Company Inc.		Nearest City, Town or Major Landmark: Dandridge	
Street Address or Location: 3304 Chestnut Hill Rd.			
County(ies): Jefferson County		MS4 Jurisdiction: N/A	Latitude (dd.dddd): 35.9304 Longitude (dd.dddd): -83.3414
Resource Proposed for Alteration: <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Wetland <input type="checkbox"/> Reservoir			
Name of Water Resource: Clear Creek			
Brief Project Description (a more detailed description is required under Section 8): 12" encasement for a Utility Line Crossing of Clear Creek			
Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If Yes, provide the permit reference numbers: _____			
Is the proposed activity associated with a larger common plan of development? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If Yes, submit site plans and identify the location and overall scope of the common plan of development. Plans attached? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If applicable, indicate any other federal, state, or local permit authorizations that the overall project site (common plan of development) has obtained in the past (i.e. construction general permit coverage and/or other ARAPs):			

Section 5. Project Schedule (fill in information and check appropriate boxes)

Start date: 3/16/15	Estimated end date: 3/14/16
Is any portion of the activity complete now? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe the extent of the completed portion:	

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question is not applicable, state the reason why it is not applicable.

Section 6. Project Description		Attached	
		Yes	No
6.1	A narrative description of the scope of the project	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.2	USGS topographic map indicating the exact location of the project (<i>can be a photographic copy</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3	Photographs of the resource(s) proposed for alteration with location description (<i>photo locations should be noted on map</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.4	A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input type="checkbox"/>	<input type="checkbox"/>
6.5	A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input type="checkbox"/>	<input type="checkbox"/>
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	<input type="checkbox"/>	<input type="checkbox"/>
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 7. Project Rationale		Attached	
		Yes	No
Describe the need for the proposed activity, including, but not limited to, the purpose, alternatives considered, and what will be done to avoid or minimize impacts to streams or wetlands.		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 8. Technical Information		Attached	
		Yes	No
8.1	Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (<i>e.g., stream cross sections where road crossings are proposed</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.2	For both the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods	<input type="checkbox"/>	<input type="checkbox"/>
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 9. Water Resources Degradation (degree of proposed impact) <i>Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than de minimis degradation to water quality.</i>	
My activity, as proposed:	
a.	<input checked="" type="checkbox"/> Will not cause measurable degradation to water quality
b.	<input type="checkbox"/> Will only cause de minimis degradation to water quality
c.	<input type="checkbox"/> Will cause more than de minimis degradation to water quality (<i>Complete additional sections 9-11</i>)
d.	<input type="checkbox"/> Unsure/need more information
<p><i>For information and guidance on the definition of de minimis and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule: https://www.tn.gov/sos/rules/0400/0400-40/0400-40-03.20131216.pdf. For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at http://www.tn.gov/environment/permits/arap.shtml</i></p>	

If you checked "c." above in Section 9, complete the following 2 sections, 10-11.

Section 10. Detailed Alternative Analysis		Attached	
		Yes	No
10.1	Analyze all reasonable alternatives and describe the level of degradation caused by each of the feasible alternatives	<input type="checkbox"/>	<input type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input type="checkbox"/>	<input type="checkbox"/>
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	<input type="checkbox"/>	<input type="checkbox"/>

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

Section 11. Compensatory Mitigation		Attached	
		Yes	No
11.1	A detailed discussion of the proposed compensatory mitigation	<input type="checkbox"/>	<input type="checkbox"/>
11.2	Describe how the compensatory mitigation would result in no net loss of resource value	<input type="checkbox"/>	<input type="checkbox"/>
11.3	Provide a detailed monitoring plan for the compensatory mitigation site	<input type="checkbox"/>	<input type="checkbox"/>
11.4	Describe the long-term protection measures for the compensatory mitigation site (e.g., deed restrictions, conservation easement)	<input type="checkbox"/>	<input type="checkbox"/>

Certification and Signature			
<p>An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee.</p> <p><i>"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."</i></p>			
Robert M Rosdil	Environmental Manager		2/13/2015
Printed Name	Official Title	Signature	Date

Submitting the form and obtaining more information Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the ARAP activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments (e.g., maps, wetland delineations and narrative portions) to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



OFFICIAL STATE USE ONLY

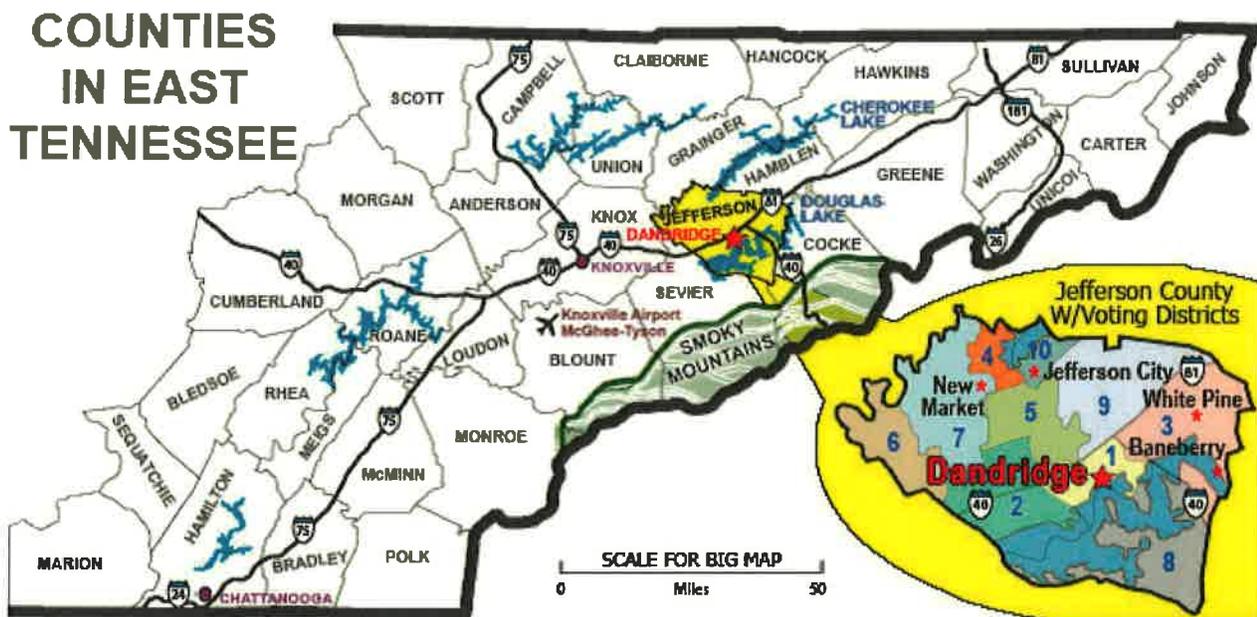
Received Date:	Permit Number:	Reviewer:	Field Office:
Fee amount paid:	T & E Aquatic Flora and Fauna:	Impaired Receiving Stream:	Application Review:
Date:	Exceptional TN Water:		<input type="checkbox"/> Deficient Date: _____
Check #:			<input type="checkbox"/> Complete Date: _____

Application for Aquatic Resource Alteration Permit (ARAP) FEB 23 2015
for the
Bush Brothers and Company Inc.
Draining to Clear Creek

Section 6: Project Description

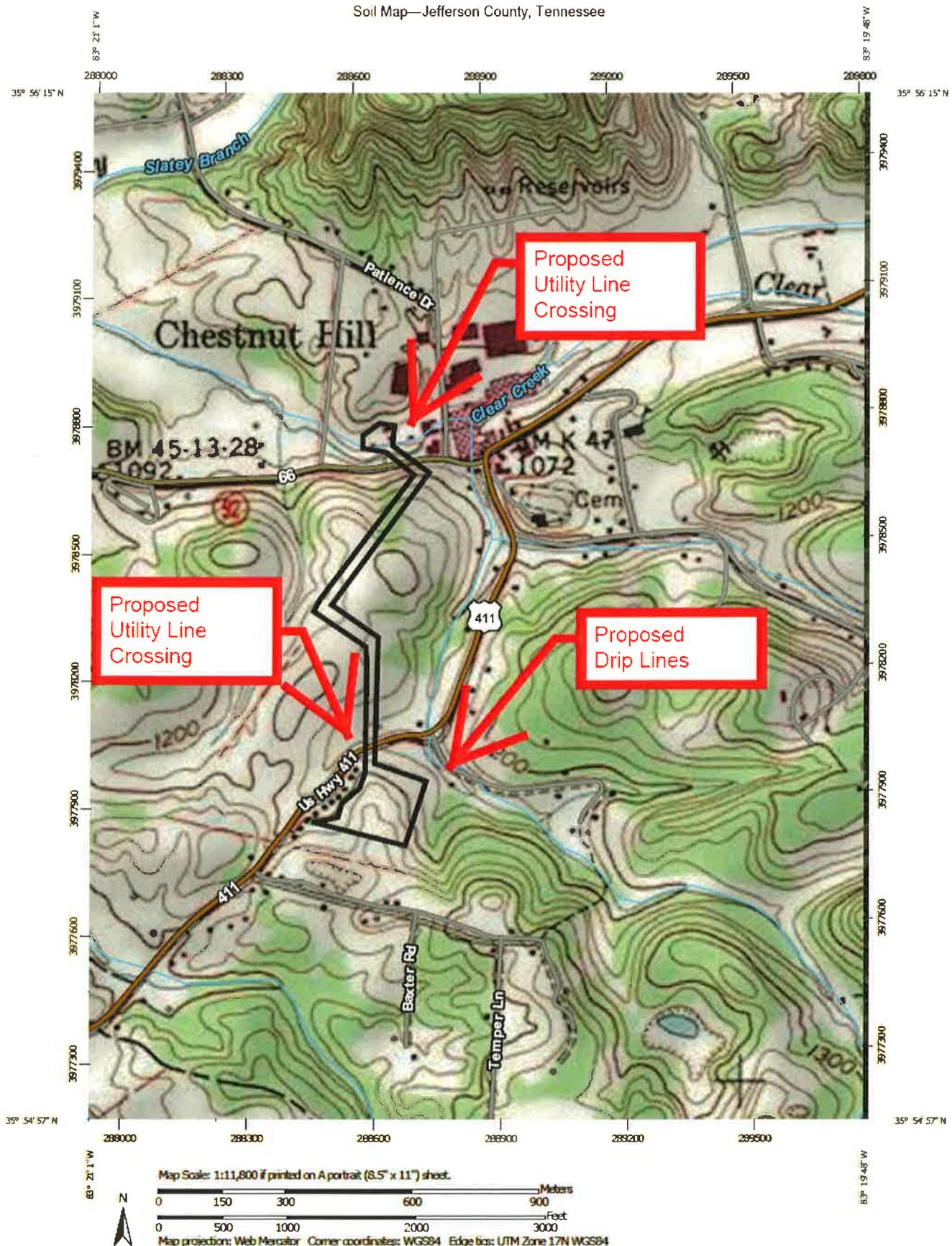
6.1 A narrative description of the scope of the project:

Bush Brothers and Company Inc. are requesting a utility line crossing, forcemain, under Clear Creek to reach their proposed wastewater treatment and dispersal area. The proposed site is located along Newport Highway, south of Dandridge, TN city limits in Jefferson County (Tax Map 97, Parcels 24.60 and Tax Map 102, Parcels 17, 17.01). The stream crossing would take place approximately at Latitude 35.9304 and Longitude -83.3414 under Clear Creek. (see attached maps).



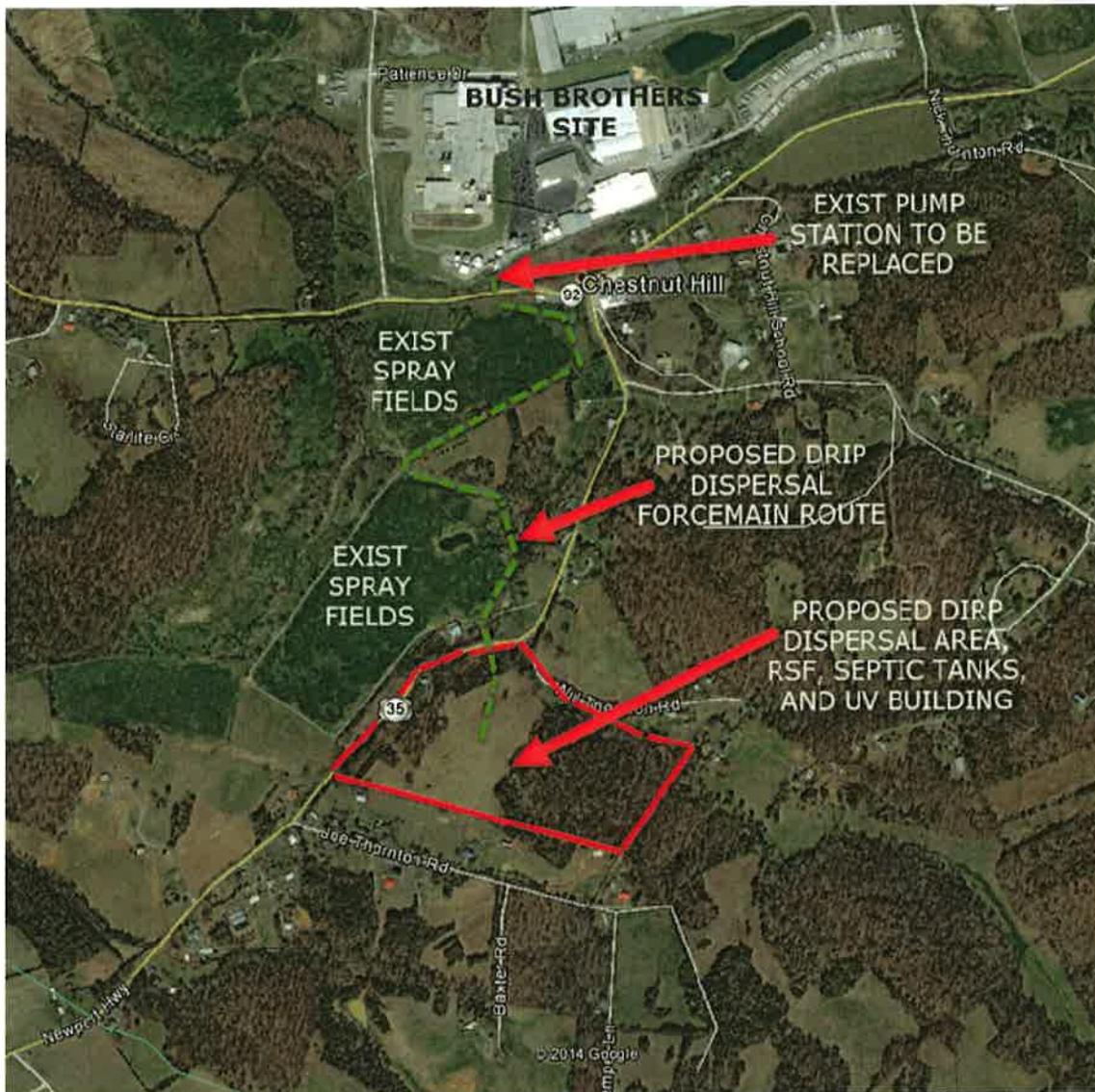
6.2 USGS topographic map indicating the exact location of the project:

FEB 23 2015



6.3 Photographs of the resource(s) proposed for alteration with location description:





6.4 A narrative description of the existing stream:

This section of Clear Creek (Waterbody ID: TN0610107029T_1250) is located just outside the city limits of Dandridge, Tennessee and is in the Lower French Broad Watershed. At the proposed stream crossing, Clear Creek has a drainage area of approximately 10.4 square miles. The *TDEC Tennessee Stream Assessment Map* shows the Clear Creek as “Not Supporting”. The width of the stream varies along its length; however at the proposed crossing location it is approximately 10’ between the toe of bank to toe of bank. The vegetation lining the stream bank are grasses common to stream banks in the area, extending 10’ from the bank. No wetlands are known to exist in the area of the proposed stream crossing.

6.5 A narrative description of the proposed stream:

The proposed utility line crossing will follow the standard construction methods for stream crossings. The crossings can be made by a temporary stream diversion. The crossing will not involve any channel modifications, other than the placement of the utility line. The areas where backfill will be required will be primarily replacing the removed soil. The vegetation in the area of the crossing was previously removed. The areas along the bank that are disturbed for installation of the crossing will be stabilized to prevent erosion with appropriate erosion control

measures during construction. After the crossing is completed these areas will be vegetated as a permanent erosion control measure. The impacted area will be less than 20 feet wide and extend from bank to bank.

6.6 Wetland Delineation:

This section of Clear Creek is not classified as a wetland per the U.S. Fish & Wildlife wetlands inventory map.

6.7 Hydrologic Determination:

This section of Clear Creek is outside of the Federal Emergency Management Agency (FEMA) regulated stream as listed in the Flood Insurance Rate Map number 47089C0300D, dated December 16, 2008. The area of the crossing is indicated as Zone "X" – outside the 100-year flood zone. The stream is in the Lower French Broad Watershed (Hydrologic Unit Code 470097).

Section 7: Project Rationale

7. Describe the need for the proposed activity and overall project:

The purpose of the stream crossing will allow access to the properties to the south through a forcemain. This location minimizes the number of crossings to only one. A wastewater line crossing will allow the expansion of wastewater collection, treatment, and dispersal. This project is considered a minor impact as construction of a utility line.

The alternatives considered for the proposed utility line crossing include; 1. Not doing the project and; 2. An alternative proposed location for the utility line crossing. If the project is not allowed to cross the stream, the property owner will not be allowed to fully utilize their property. The second alternative requires two separate crossings.

Section 8: Technical Information

8.1 Detail plans, blueprints, or legible sketches of present site conditions and the proposed activity.

See attached plans.

8.2 For the proposed activity and mitigation provide a discussion regarding the sequencing of events.

BMP's including construction exit, erosion eels and silt fence are to be erected on-site prior to clearing activities. Some areas may require light clearing before BMP's can be installed.

No excavating equipment should be operated in flowing waters. A Temporary Stream Crossing may need to be installed to access the south bank. This work should be performed in the "dry" or during low flows and located adjacent to the proposed encasement.

Once all bmp's are installed and the site is cleared, the channel banks will be excavated to the width of the forcemain.

The side slopes for the embankments should be seeded and mulched immediately following final grading of the approaches.

If a temporary stream crossing is utilized, it should be removed as soon as practical and the stream should immediately be restored to its original cross-section and stabilized.

After the forcemain is placed in the channel, the width shall be restored to pre-existing conditions. Disturbed banks are to be stabilized with seed and mulch closely following this work.

8.3 Depiction and Narrative on the location and type of erosion prevention and sediment control measures for the proposed alterations.

See the construction plans for required BMP's and their locations

Construction Exit – to be located off of the existing Newport Highway.

Silt fence – to be located along both banks for the limits of disturbance. Erosion eels (Tubes and Wattles) may be a substitute item if frequent relocations are necessary.

Permanent Seeding and Mulch – to be located on any areas disturbed by construction that is not stabilized with other means. The type of seed and the application rate should follow TDOT requirements.