



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)

RECEIVED

FEB 16 2016

ENVIRONMENTAL FIELD OFFICE

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

LL

OFFICIAL STATE USE ONLY	Site #:	Permit #:	NR1608.2872
-------------------------	---------	-----------	-------------

Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name: Tommy Whaley			
Company: Marshall County Board of Public Utilities		Signatory's Title or Position: Superintendent	
Mailing Address: 624 West Commerce		City: Lewisburg	State: TN Zip: 37091
Phone: 931-359-6905	Fax: 931-359-8876	E-mail: marshallcounty_@mcbpu.com	

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

Alternate Contact Name: Bob Ramsey			
Company: James C. Hailey & Company		Title or Position: Project Engineer	
Mailing Address: 7518 Hwy. 70 South, Suite 100		City: Nashville	State: TN Zip: 37221
Phone: 615-883-4933	Fax: 615-883-4937	E-mail: bramsey@jchengr.com	

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

No Fee Submitted Fee Submitted with Application Amount Submitted: \$ 500.00

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: Water Line Addition-Hargrove Road		Nearest City, Town or Major Landmark: Chapel Hill, TN	
Street Address or Location: Hargrove Road off of Hazelwood Road			
County(ies): Marshall	MS4 Jurisdiction:	Latitude (dd.ddd): 35.684508°	
		Longitude (dd.ddd): -86.801144°	
Resource Proposed for Alteration: <input checked="" type="checkbox"/> Stream <input type="checkbox"/> Wetland <input type="checkbox"/> Reservoir			
Name of Water Resource: Unnamed tributary of Flat Creek			
Brief Project Description (a more detailed description is required under Section 8): This project consists of construction of 2,130 L.F. of 4" and 580 2" PVC water line in the edge of the road right-of-way of Hargrove Road.			
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
If Yes, provide the permit reference numbers: Joint Application TVA 26A/404(e)			
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 checked="" 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: February 17, 2016	Estimated end date: March 30, 2016
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 checked="" 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 checked="" 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 checked="" 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 8.5x 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 checked="" 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>
<p>My activity, as proposed:</p> <p>a. <input checked="" type="checkbox"/> Will not cause measurable degradation to water quality</p> <p>b. <input type="checkbox"/> Will only cause de minimis degradation to water quality</p> <p>c. <input type="checkbox"/> Will cause more than de minimis degradation to water quality (<i>Complete additional sections 9-11</i>)</p> <p>d. <input type="checkbox"/> Unsure/need more information</p> <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 checked="" type="checkbox"/>	<input type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input checked="" 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>
11.2	Describe how the compensatory mitigation would result in no net loss of resource value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11.3	Provide a detailed monitoring plan for the compensatory mitigation site	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>

Certification and Signature

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.

"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."

<u>Jessie T. Whaley, Jr.</u>	<u>Superintendent</u>	<u>Jessie T. Whaley Jr.</u>	<u>2-12-2016</u>
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	540 McCallie Avenue STE 550	37402-2013
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: <u>2/16/16</u>	Permit Number: <u>NC1608.2872</u>	Reviewer: <u>TEG</u>	Field Office: <u>COL</u>
Fee amount paid: <u>\$500.00</u>	T & E Aquatic Flora and Fauna:		Impaired Receiving Stream:
Date: <u>2/16/16</u>	<u>No</u>		<u>No</u>
Check #: <u>7473</u>	Exceptional TN Water: <u>No</u>		Application Review:
			<input type="checkbox"/> Deficient Date: _____
			<input type="checkbox"/> Complete Date: _____

CL4727
CN-1091 (Rev. 1-14)

UNT Flat Creek
TN06090082049 - 0999

RECEIVED

FEB 16 2016

ENVIRONMENTAL FIELD OFFICE
COLUMBIA

**Section 6
Project Description**

**ARAP/COE Application
Marshall County Board of Public Utilities, Marshall County, Tennessee**

Section 6.1: Narrative Description of Project Scope

This project consists of the installation of approximately 2,130 linear feet of 4" DR 18 PVC water line and 580 linear feet of 2" SDR 17 PVC water line by trenching inside the edge of the right-of-way of Hargrove Road in northwest Marshall County. The trench width will be equal to the casing pipe diameter of 8 inches plus 12 inches for a total of 20 inches. The project includes a creek crossing of an unnamed tributary of Flat Creek by open cut trenching. The proposed water line will be installed in 40 feet of 8" Schedule 40 PVC casing pipe crossing the creek. Backfill will be an estimated 4 C.Y. of crushed stone and 1.5 C.Y. of concrete cap.



N Orchard Hill

RALLY HILL, TENN.
USGS QUAD
1" = 2000'

CREEK CROSSING
SITE #1
HARGROVE RD.

Conslock

Cartton

Glean Chapel

HURT CEM.

Kincaid Branch

Collins

Less Corner

FRANKLIN

LEWISBURG

PRATT'S CEM.

MOORE DEM.

Creek

PLA

5290 Hargrove Rd



Exit Street View

N



© 2018 Google

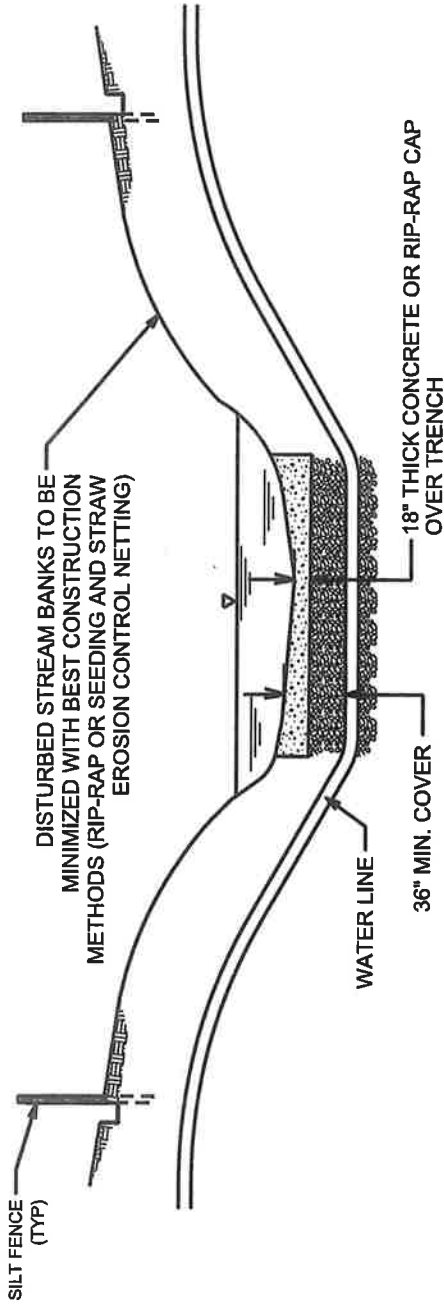
© 2018 Google

3 ft



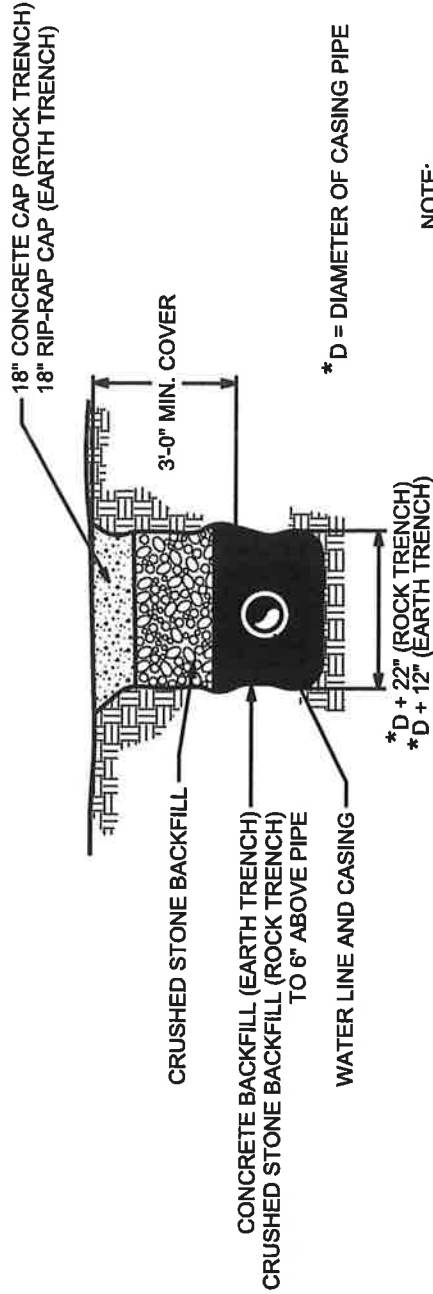
Google earth

35°41'04.26" N 86°48'03.97" W elev 671 ft eye alt 679 ft



NOTE:
ALL EXCAVATION MATERIAL FROM TRENCH
TO BE DISPOSED OF OFFSITE

STREAM CROSSING SECTION
N.T.S.



NOTE:
CONTRACTOR TO USE SILT FENCE NEAR
STREAM TO PREVENT SILTATION FROM
ENTERING STREAM

STREAM CROSSING
N.T.S.

MARSHALL COUNTY BOARD OF
PUBLIC UTILITIES

Marshall County, Tennessee

JAMES C. HAILEY & COMPANY
Consulting Engineers
7518 HIGHWAY 70 S, SUITE 100
NASHVILLE, TENNESSEE 37221



HARGROVE ROAD WATER LINE
ADDITIONS
"BLUE-LINE" STREAM CROSSING
DETAIL

DESIGN	DRAWN	CHECKED	DATE	SCALE	PROJECT NO.
RLR	LLB	RLR	FEB. 2016	NO SCALE	15211