



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)

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 WL-hyj _____

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

OFFICIAL STATE USE ONLY	Site #: <u>WL-161711</u>	Permit #: <u>NR2101.061</u>
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Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name (company or individual): City of Chattanooga		SOS #:	Status:
Primary Contact/Signatory: Bill Payne, PE		Signatory's Title or Position: Interim Public Works Administrator	
Mailing Address: 1250 Market Street Ste. 2100		City: Chattanooga	State: TN Zip: 37402
Phone: 423-643-6160	Fax: 423-643-6008	E-mail: bpayne@chattanooga.gov	

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

Alternate Contact Name: Adam Beavers			
Company: City of Chattanooga		Title or Position: Engineering Technician	
Mailing Address: 1250 Market Street, Ste. 2100		City: Chattanooga	State: TN Zip: 37402
Phone: 423-643-5896	Fax: 423-643-6008	E-mail: jbeavers@chattanooga.gov	

Section 3. Fee (Application will be incomplete until fee is received)

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

See attached United States Department of Agriculture letter dated May 23, 2019.
 Current application fee schedules can be found at the Division of Water Resources webpage at:
<https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html>
 or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".

Billing Contact Name (if different from Applicant): Name: Email:

Address: Phone:

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

Site or Project Name: Hixson Park Stream Stabilization		Nearest City, Town or Major Landmark: Hixson, TN	
Street Address or Location (include Zip): 5410 School Dr, Hixson, TN 37343			
County(ies): Hamilton	MS4 Jurisdiction: <u>TNS068063</u>	Latitude (dd.dddd): 35.143266	Longitude (dd.dddd): -85.237338
Resource Proposed for Alteration: <input checked="" type="checkbox"/> Stream / River <input type="checkbox"/> Wetland <input type="checkbox"/> Reservoir			

Name of Water Resource (for more information, access <http://tdeconline.tn.gov/dwr>): North Chickamauga Creek +

Brief Project Description (a more detailed description is required under Section 8):

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? Yes No

If Yes, provide the permit reference numbers:

Is the proposed activity associated with a larger common plan of development: Yes No

If Yes, submit site plans and identify the location and overall scope of the common plan of development.

Plans attached? Yes No

If applicable, indicate any other federal, state, or local permits that are associated with the overall project site (common plan of development) that have been obtained in the past (e.g., construction general permit and/or other ARAP):

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Section 5. Project Schedule (fill in information and check appropriate boxes)			
Proposed Start Date: May 2021		Estimated End Date: May 2022	
Is any portion of the activity complete now? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, describe the extent of the completed portion: The project is completely finished.			

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. 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 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 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 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 water resources	<input 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 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 type="checkbox"/>	<input type="checkbox"/>

<p>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> <p>Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation:</p> <p>a. <input checked="" type="checkbox"/> <i>De minimis degradation</i></p> <p>b. <input type="checkbox"/> Greater than <i>de minimis degradation</i> (if greater than <i>de minimis</i> complete Sections 10-11)</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 at: http://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm</i></p> <p><i>For information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at: http://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit-arap/permit-water-aquatic-resource-alteration-list-of-general-permits.html</i></p>

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Section 10. Detailed Alternatives 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 checked="" type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>

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 type="checkbox"/>	<input checked="" type="checkbox"/>
11.3	Provide a detailed monitoring plan for the compensatory mitigation site	<input type="checkbox"/>	<input checked="" 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 checked="" 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.

William Payne, PE	Interim Pub. Works Admin		05-13-21
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 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



Narrative: Hixson Park Stream Stabilization

Section 6: Description

- 6.1 Stabilize stream bank for 25 linear feet on either side of an existing utility pole.
- 6.2 See attached map
- 6.3 See attached photographs.
- 6.4 The unnamed stream is a tributary of the North Chickamauga Creek. It is approximately 17 to 27 feet wide and 3 to 5 feet deep along the area of concern. This portion of the stream has extensive erosion to the streambanks and may be an imminent hazard to the stability of the utility pole which, due to erosion, is now located on the southeastern streambank.
- 6.5 The existing conveyance of the stream will be minimally altered along the affected area of the stream bank.
- 6.6 No wetlands will be affected by the proposed work.
- 6.7 It has been determined that this stream comes under the jurisdiction of TDEC.

Section 7: Project Rationale

The purpose of this project is to stabilize the southeastern bank of the stream for 25 feet on either side of an existing utility pole. Due to continued erosion, the utility pole is becoming unstable as more of the stream bank erodes around it.

Section 8: Technical Information

- 8.1 See attached drawings.
- 8.2 Repair will be conducted in dry weather. The stream stays dry, except for during periods of heavy rain. Rip rap will be installed on the bank. Exposed soil on the bank of the project area will be seeded after the riprap is installed.
- 8.3 As noted in 8.2 above, the stream stays dry most of the time. The repair will be conducted in dry weather so erosion protection shouldn't be necessary, but will be used on an as needed basis.



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 ENVIRONMENTAL FIELD OFFICE
 1301 Riverfront Parkway, Suite 206
 Chattanooga, TN 37402**

(423)634-5745 STATEWIDE 1-888-891-8332 (423)634-6389

Receipt: EAC-CH-4997 **Date of Receipt:** 09-Jun-2021 11:17 am **Created By:** Karen May (BG55008)

County: Hamilton **EFO/Office:** Chattanooga Field Office

Received From: City of Chattanooga

Company/Affiliation:

Recipient Address: 101 East 11th Street
 CHATTANOOGA, TN- 37402

Amount Received: \$500.00 **Method of Payment:** CHECK **Check Number:** 2219001

Comments: Hixson Park Stream Stabilization

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

Receipt Total: \$500.00

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

CN-1139 (Rev. 6-09)

RDA S1730





SITE LOCATION

CHATTANOOGA

Hixson

Chickamaug
Mile 5

Hamillville

Mile

Walker Cen

Kings Ridge

Lake Forest
Substation

Hixson Ch

Towne Hills

Northern Hills

Athletic fields

Hixson High Sch

Hamilton
Memorial
Gardens

Sewage disposal

Northgate
Mal

Substa

Trailer
park

Smith Cem

LOWER
MILL

GRUBB
RD

ROAD

GADD
RD

RD

PIKE

SOUTHERN

North

HAMILL

PRIVATE

BM L 184
675

BM L 65
672

Cem

BM K 184
677

Sand X

Sand X

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EXISTING CONDITIONS - LOOKING DOWNSTREAM WITH AFFECTED UTILITY POLE IN CENTER









WORK ORDER # 217313

STABILIZE BANK WITH RIP RAP
25' EACH SIDE OF LIGHT POLE
& SEED PORTIONS OF BARE
BANK

