



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-13625 Date of Receipt: 29-Feb-2024 11:35 am Created By: Haley Mills (BG57037)

County: Knox EFO/Office: Knoxville Field Office

Received From: Homestead Land Holdings, LLC

Company/Affiliation: Homestead Land Holdings, LLC

Recipient Address: 122 Perimeter Park Rd  
KNOXVILLE, TN- 37922

Amount Received: \$500.00 Method of Payment: CHECK Check Number: 013282

Comments: ARAP: Mayer

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**



**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 Certification**

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

Applicant Name (company or individual): Homestead Land Holdings, LLC		SOS #:	Status: <b>N/A</b>
Primary Contact/Signatory: David Fiser		Signatory's Title or Position: Managing Member	
Mailing Address: 122 Perimeter Park Dr		City: Knoxville	State: TN Zip: 37922
Phone: 865-693-0711	Fax:	E-mail: dfiser@fiserinc.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** (application will be incomplete until fee is received)

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

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 (if different from Applicant):      Name:      Email:  
 Address:      Phone:

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

Site or Project Name: <b>Mayer Subdivision</b>		Nearest City, Town or Major Landmark: <b>Knoxville</b>	
Street Address or Location (include zip): <b>7336 Millertown Pk, Knoxville, TN 37924</b>			
County(ies): <b>Knox</b>		MS4 Jurisdiction: <b>Knox</b>	Latitude (dd.dddd): 36.051375
			Longitude (dd.dddd): -83.8212196

Resources Proposed for Alteration:     Stream / River     Wetland     Reservoir

Name of Water Resource (for more information, access <http://tdeconline.tn.gov/dwr>): unnamed trib to Legg Creek

Brief Project Description (a more detailed description is required under Section 8):  
 Remove and replace culvert for shared driveway

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:

Will the activity require a 401 Water Quality Certification:     Yes     No

If Yes, attach any 401 WQC pre-filing meeting request documentation

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):

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

<b>Section 5. Project Schedule</b> (fill in information and check appropriate boxes)	
Proposed start date: <b>March 2024</b>	Estimated end date: August 2024
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:	

**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.**

<b>Section 6. Description</b>	<b>Attached</b>	
	<b>Yes</b>	<b>No</b>
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 (can be a photographic copy)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3 Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.4 A narrative description of the <b>existing</b> 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 <b>proposed</b> 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 type="checkbox"/>	<input checked="" 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"/>

<b>Section 7. Project Rationale</b>	<b>Attached</b>	
	<b>Yes</b>	<b>No</b>
Describe the need for the proposed activity, including, but not limited to the purpose, alternatives considered and rationale for selection of least impactful alternative, and what will be done to avoid or minimize impacts to water resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>

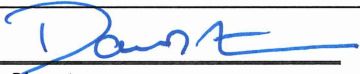
<b>Section 8. Technical Information</b>	<b>Attached</b>	
	<b>Yes</b>	<b>No</b>
8.1 Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review.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

<b>Section 9. Water Resources Degradation</b> (degree of proposed impact)
<p>Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than <i>de minimis</i> degradation to water quality.</p> <p>Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation:</p> <p><input checked="" type="checkbox"/> a. <i>De minimis</i> degradation, no appreciable permanent loss of resource values</p> <p><input type="checkbox"/> b. Greater than <i>de minimis</i> degradation (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:</i>  <a href="https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm">https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm</a></p> <p><i>For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at:</i>  <a href="https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html">https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html</a></p>

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

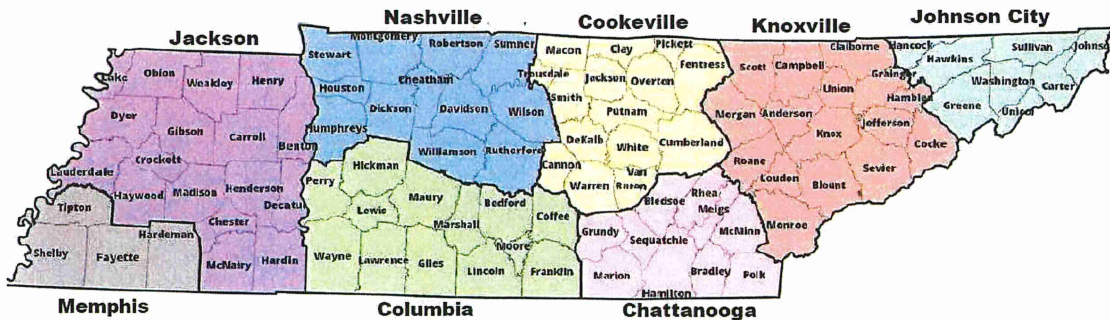
Section 10. Detailed Alternatives Analysis		Attached	
		Yes	No
10.1	Analyze all reasonable alternatives and describe the level of degradation and permanent loss of resource value caused by each alternative. Assessment must consider options other than the "Preferred" and "No Action" alternatives. Provide associated rationale for selecting or rejecting all alternatives considered and demonstration that the least impactful practicable alternative was selected.	<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"/>

Section 11. Compensatory Mitigation		Attached	
		Yes	No
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.	<input type="checkbox"/>	<input type="checkbox"/>
11.2	Analysis of any proposed appreciable loss of resource value using the TN Stream Mitigation Guidelines. Provide Stream Quantification Tool (SQT) results if applicable. Include Existing Condition Score (ECS) and debit/credit calculations.	<input type="checkbox"/>	<input type="checkbox"/>
11.3	Describe how the compensatory mitigation would result in no net loss of resource value	<input type="checkbox"/>	<input type="checkbox"/>
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed	<input type="checkbox"/>	<input type="checkbox"/>
11.5	Describe the long-term protection measures for the compensatory mitigation site if permittee-responsible project is proposed (e.g., deed restrictions, conservation easement)	<input type="checkbox"/>	<input type="checkbox"/>

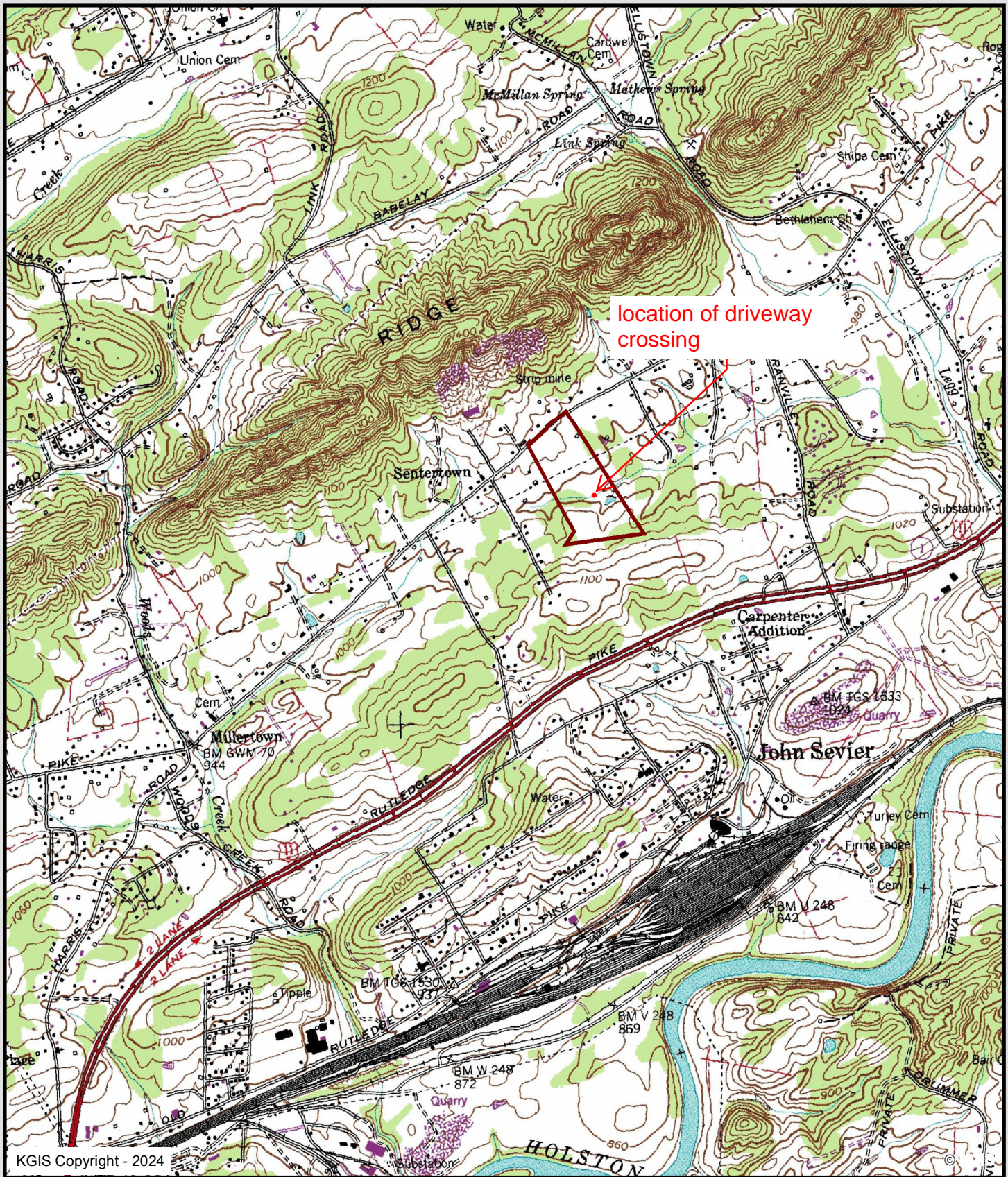
Certification and Signature			
<p>An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee. <b><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. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.</i></b></p>			
David Fiser	Managing Member		02/26/24
Printed Name	Official Title	Signature	Date

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 proposed 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](mailto: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







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**Mayer subdivision location**  
John Sevier Quadrangle

Printed: 1/29/2024 at 1:28:56 PM

0 950 1,900 3,800 ft

**Knoxville - Knox County - KUB Geographic Information System**

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PO BOX 30456, KNOXVILLE, TN, 37930  
865-622-6560 RACKLEYENGINEERING.COM

February 26, 2024

ARAP Application, Mayer subdivision driveway crossings

## **Section 6: Project Description**

### *6.1 Narrative description of the scope of the project*

The development of Mayer property residential subdivision includes a shared 18' driveway to the south to access 3 large estate lots. There is an existing culvert crossing in the general location of the new driveway. The existing culvert does not meet County requirements to pass the 100yr storm with no overtopping as is required for a driveway culvert carrying 'through' water. The existing culvert will be removed and replaced with a 36" culvert

### *6.2 USGS topographic map*

See attached print area of the John Sevier Quadrangle.

### *6.3 Photographs*

See attached photographs provided in HD report by GEOS.

### *6.4 Narrative describing existing stream*

The existing stream is an unnamed tributary to Jegg Creek. It is 15 to 25 ft wide with a base flow depth of 0 to 1 feet depending on time of year. It crossed the entirety of the property flowing west to east. It is primarily eroded soils with weeds.

### *6.5 Narrative describing proposed stream*

The proposed crossing is designed to minimize stream alterations by placing pipe culverts and rip rap.

### *6.6 Wetland delineation*

Wetland delineation has been submitted in the HD by GEOS.

### *6.7 Copy of all hydrologic determination documents*

HD by GEOS has been provided.

## **Section 7: Project Rationale**

This portion of the property is not accessible from any other location other than Millertown Pk to the north. The creek crosses the entirety of the property necessitating a road crossing the creek. The location selected was based on matching the location of the existing crossing.

## **Section 8: Technical Information**

### *8.1 Detailed plans, specifications, etc.*

See attached plans.



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## 8.2 Discussion of construction sequencing and methods

Install EPSC prior to activity near the stream crossing. For the demolition of the existing driveway crossing, the existing concrete will be peeled back from around the culverts with a large excavator with a 'thumb' to pick the broken concrete out of the area where they are within the stream area. Culverts, headwalls, and backfill stone will be placed with large boom excavator ("craned into place"). Once culverts are backfilled with large stone, small gravel will be spread to create the driving surface over the large stone. Culverts and Headwalls are to be installed slightly below natural grade to encourage natural substrate to line the bottom of the culvert over time.

## 8.3 Narrative on the location and type of EPSC

Silt fence will be installed above the stream bank on both sides of the crossing prior to beginning work for install of culverts and demolition of existing crossing. Work will be performed this summer when there is no flow in the stream.

## Section 9: Water Resources Degradation

This activity will not cause measurable degradation to water quality

## Section 10: Detailed Alternative Analysis

No practicable alternatives available

## Section 11: Compensatory Mitigation

N/A