



DEPARTMENT OF  
ENVIRONMENT &  
CONSERVATION

# PUBLIC NOTICE

**File Number: NRS 10.160**

Notice Date:  
July 7, 2010

Expiration Date:  
**August 6, 2010**

Pursuant to Chapter 1200-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit (this also includes §401 Water Quality Certifications). This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

**APPLICANT:** State of Tennessee  
Department of Transportation  
Environmental Division  
Suite 900, J. K. Polk Bldg.  
505 Deaderick Street  
Nashville, TN 37243-0334  
615-253-2466

**LOCATION:** SR-99 from west of Natchez Trace Parkway to near Big Swan Creek Road  
Lewis County (lat35.5789/long87.4372)

**PROJECT DESCRIPTION / PURPOSE:** The project would involve the reconstruction of state route 99 (US-412) from west of Natchez Trace Parkway to near Big Swan Creek Road in Lewis County. The Swan Conservation Trust has elected to conduct in system mitigation of behalf of the applicant for impacts to stream along this project. Specific impacts include the following.

Station 3185+00 to Sta. 3190+20: Unnamed tributary to Big Swan Creek. Existing 474 ft. open stream and 117 ft. box culvert (total 591 ft.) to be replaced with 312 ft. of 8X5 ft. box culvert with energy dissipater, 20 ft. of open stream at inlet and 240 ft. of riprap stream channel at outlet for a loss of 19 ft. Station 3185+65.00: Unnamed tributary to Big Swan Creek. Existing 79 ft. of 8X8 reinforced box culvert to be extended 33 ft. at the inlet and 59 ft. at the outlet with 23ft. of energy dissipater. Station 3200+25.50: Unnamed tributary to Big Swan Creek. Existing 56 ft. box culvert to be removed and stream restored and 127 ft. of 6X3 ft. box culvert installed with 40 ft. of riprap at the inlet and 28 ft. of riprap at the outlet. Temporary crossing would be installed. Station 3204+89.34: Unnamed tributary to Big Swan Creek. Existing 128 ft. of culvert removed and stream restored and 141 ft. of 6X3 ft. box culvert installed with 80 ft. of riprap lined transition at the inlet and 15 ft. of riprap at the outlet. Station 3205+30: Proposed outfall structure (V-ditch). Station 3214+77.55: Unnamed tributary to Big Swan Creek. Existing 53 ft. of structure (to be removed) and 156 ft. of open stream (209 ft total) to be replaced with 134 ft. of dual 12X8 ft. box culvert with 20 ft. of riprap at the inlet and 30 ft. of riprap at the outlet. Station 3219+28.62: Unnamed tributary to Big Swan Creek. Existing 47 ft. of 10X8 ft. box

culvert to be extended 212 ft. (total 259). Station 3221+00 to Sta. 3223+90: Unnamed tributary to Big Swan Creek. Relocation of 219 ft. of open stream into a channel 268 ft. in length. Station 3220+90 to Sta. 3247+50: Wetland. Permanent impact to 2.695 acre and temporary impact to 1.516 acre of wetlands and 0.036 acre of additional permanent impact to wetland 2. Station 3247+40: Unnamed tributary to Big Swan Creek. Existing 60 ft. of 3X3 ft. box culvert (to be removed) and 170 ft. of open stream (total 230 ft.) to be replaced with 122 ft. of 18X5 ft. box culvert with 35 ft. of riprap at the inlet and 30 ft. of riprap at the outlet (total 187 ft.). Station 3247+45 to Sta. 3254+22: Wetland. Permanent impact to 0.087 acre and temporary impact to 0.067 acre of wetlands and 0.296 acre of additional permanent impact to wetland 4. Station 3247+80 to Sta. 3254+80: Unnamed tributary to Big Swan Creek. Existing 241 ft. open stream relocated into a channel 213 ft. in length (loss 28 ft.) and (Unnamed tributary to Big Swan Creek STR:11) existing 816 ft. of open stream relocated into a channel 563 ft. in length (loss 253 ft.). Station 3253+00 to Sta. 3255+30: Unnamed tributary to Big Swan Creek. Existing 221 ft. of open stream relocated into a channel 231 feet in length. Station 3270+00 to Sta. 3274+00: Little Grinders Creek (ETW). Existing 316 ft. of open stream and existing 3-span bridge (to be widened and extended), riprap would be added to around abutments and 295 ft. of relocated stream channel including 65 ft. of graded solid rock fill as bank stabilization at head of relocation (total 295) for a loss of 21 ft. Station 3276+10 to Sta. 3279+00: Wetland. Permanent impact to 0.043 acre and temporary impact to 0.143 acre of wetlands. Station 3283+95 to 3291+30: Wetland. Permanent impact to 0.237 acre and temporary impact to 0.262 acre of wetlands. Station 3284+50 to Sta. 3287+10: Wetland. Permanent impact to 0.097 acre of wetlands. Station 3288+30 to Sta. 3289+00: Wetland. Permanent impact to 0.030 acre of wetlands. Station 3290+71 to Sta. 3295+00: Wetland. Permanent impact to 0.503 acre and temporary impact to 0.155 acre of wetlands. Station 3290+71: Wetland. Outfall structure 143 ft. of 6X4 ft. box culvert. Station 3311+97.29 to Sta. 3314+42.29: Big Swan Creek. Existing bridge to be widened and lengthened – temporary haul roads would be required. Station 3328+45 to Sta. 3331+45: Big Swan Creek. Replacement of existing bridge with 3-span bridge with riprap around abutments – temporary haul roads would be required. Station 3332+90 to Sta. 3335+30: Wetland. Permanent impact to 0.434 acre and temporary impact to 0.144 acre of wetlands.

Impacts to 1132 ft. of stream would be mitigated by payment, at \$200 per linear foot, of \$226,400.00 to the Swan Conservation Trust. Permanent impacts to wetlands would be mitigated by restoration of 2.0 acres at the Green Pond site at a 4:1 ratio, 30 acres of preservation of wetland seep at 20:1 and the remaining 2.46 acres by debiting, at a 4:1 ratio 9.84 acres of wetlands from the Coffee County wetland Mitigation Bank.

**DEGRADATION:** In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activities **will not** result in degradation to water quality.

**WATERSHED / WATERBODY DESCRIPTION:** The proposed impacts would affect Big Swan Creek (an Exceptional Tennessee Water), unnamed tributaries and wetlands. Big Swan Creek flows through a wide channel ~40 – 50 feet wide confined between moderate hill side slopes. The stream varies in depth up to 4 feet flowing over a gravel/cobble substrate and has a good canopy (40-60% coverage) of mature hardwoods. The land use in the area is rural agricultural. Department records indicate that a 2009 TDEC biological survey of Big Swan Creek, from the Duck River to its source was determined to be exceptional for several reasons

including: the presence of State threatened Saddled Madtom, Coppercheek Darter, Michigan Lily and Water Stitchwort its presence in Natchez Trace Parkway NP and Devils Backbone State Natural Areas.

**Stream Name / ID #:** Big Swan Creek  
**Ecoregion:** 06040003  
**Stream Dimension:** Channel bottom width 40-50  
Chanel top width 60-70  
Water depth 2-4 ft.  
Bank height 4-8  
**Substrate:** XXX  
**Designated Use**                      **Use Support**                      **Causes**  
fish and aquatic life                      fully supporting                      XXX  
recreation                      fully supporting  
industrial water supply                      fully supporting  
irrigation                      fully supporting  
livestock watering & wildlife                      fully supporting  
**Assessment Date:** 2009

**PERMIT COORDINATOR:** Brian Canada

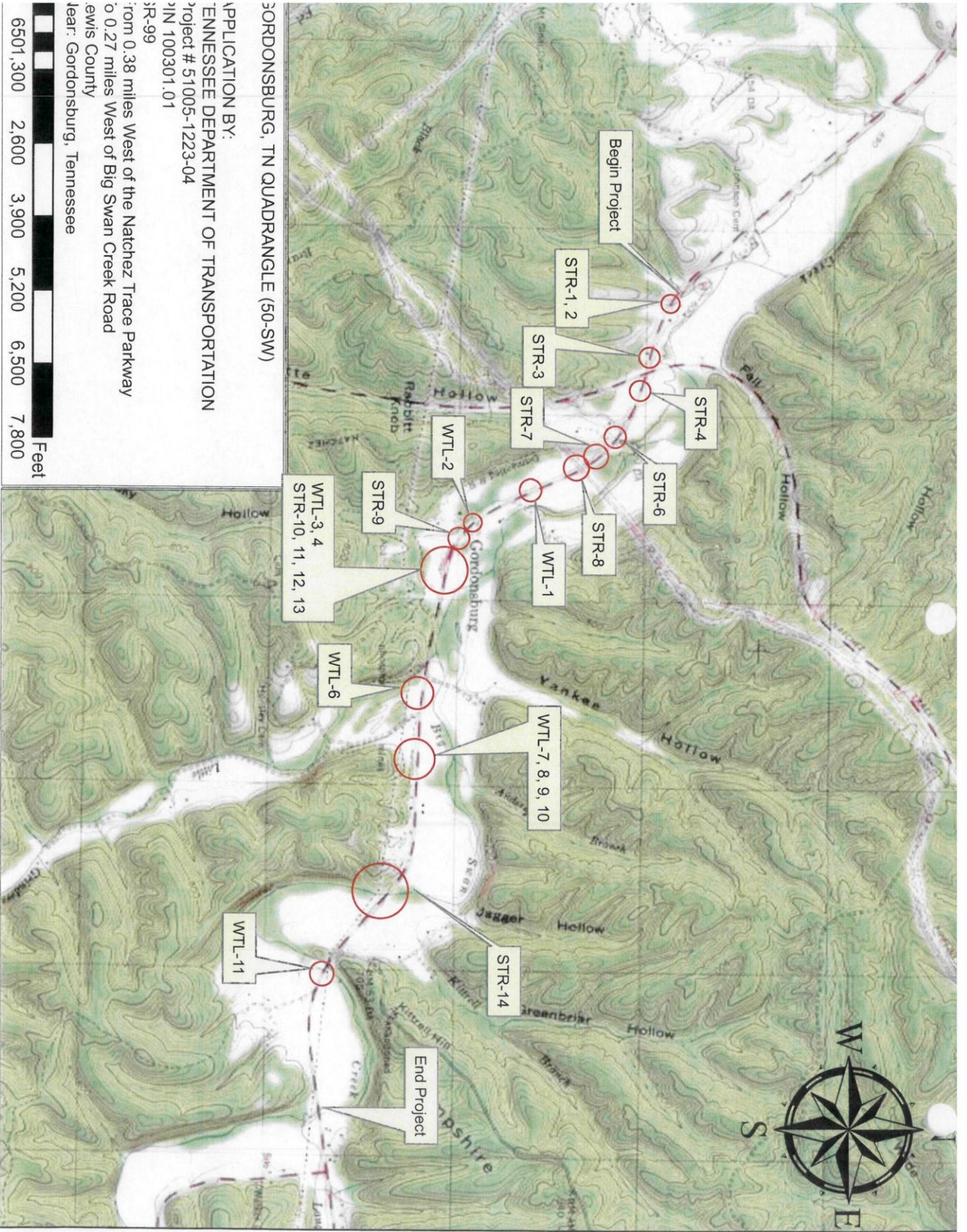
**FACTORS CONSIDERED:** In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

**COMMENTING:** Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

**PUBLIC HEARING:** Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

**FILE REVIEW:** The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control, Natural Resources Section  
7th Floor L & C Annex  
401 Church Street  
Nashville, TN 37243



GORDONSBURG, TN QUADRANGLE (50-SW)

APPLICATION BY:  
 TENNESSEE DEPARTMENT OF TRANSPORTATION  
 Project # 51005-1223-04  
 PIN 100301.01  
 SR-99

From 0.38 miles West of the Natchez Trace Parkway  
 to 0.27 miles West of Big Swan Creek Road  
 Lewis County  
 near: Gordonsburg, Tennessee

Feet

