



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102

PROJECT NAME: Piney River Resort
DATE REQUESTED: 3/27/23
MEETING LOCATION: Microsoft Teams
PERMIT: SOP-23009

COUNTY: Hickman
DATE HELD: 4/11/2023
MEETING TIME: 9:30 p.m. CDT
WPN: 23.0176

PARTICIPANTS/REPRESENTING: (checklist ITEM I.A)

TDEC DWR:

Timothy Hill, P.E. (timothy.hill@tn.gov)
Bryan Pope (bryan.pope@tn.gov)
Michael Bascomb (Michael.bascomb@tn.gov)

Robert Odette, PE, BCCE (Robert.odette@tn.gov)
Anastasia Sharp, E.I. (anastasia.sharp@tn.gov)

SEC, Inc:

Jamie Reed, PE (jreed@sec-civil.com)

Piney River:

Not represented

PROJECT BACKGROUND AND PURPOSE: (checklist ITEM B)

The project consists of approximately 100 RV lots as an expansion to an existing campground along the Piney River. The existing sites are on conventional septic systems. The expansion and new facilities will all be tied to a decentralized treatment facility and drip disposal (7,500 gpd).

SUMMARY OF PRELIMINARY ENGINEERING REPORT CONSIDERATIONS (checklist ITEMS C, D, E):

The proposed design flow for the RV lots (direct hookup of water and sewer) is 75 gpd/site. The RV lots are reported and listed on the company website as nightly rentals. There are some long term rentals allowed and the potential for tiny homes connected to the system. The Engineering Report should investigate how many of the proposed connections will be nightly rentals vs long term vs other structures and adjust the design flow if necessary. The Division recommends 150 gpd/tiny home or long term rentals.

The sites will be connected via a STEP system and the treatment will consist of a Bioclere treatment unit with drip disposal.

It was noted that the plans package had been entered into myTDEC forms, however, the fee had not been paid so the Division could not access the submitted documents at the time of the meeting.

The system will be privately owned (sites are rental only and all under a single ownership). Financial Security is required for private systems. The amount of security is negotiable based on system redundancy and contingences, up to a maximum amount of \$75,000.



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SUMMARY OF RECEIVING WATERS OR SITE SUITABILITY: (checklist ITEM F)

The Division has reviewed the information on the background soils submitted. Pits 1, 4, and 5 have a recommended loading rate of .1 gpd. Pits 2 and 3 may be loaded up to .25 gpd.

SUMMARY OF ANTICIPATED PERMITTING NEEDS: (checklist ITEM G, I, J, K):

The Water Quality State Operating Permit application has been received, UIC will be authorized with permit issuance. Final permit issuance is contingent upon final plans approval. A properly recorded bond with the Division will be required before issuance of the final permit.

DWR ORGANIZER: TNH

MINUTES PREPARED BY: TNH

DATE MINUTES PREPARED: 4/14/23



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Planning/Permitting Process

1. PRELIMINARY PROJECT DISCUSSION: The format will be decided based on the complexity of the project. Refer to Wastewater Project Number and Permit number in all correspondence.
2. SITE APPROVAL PHASE: Submit SOP Permit application (see instructions at: [S](#) including:
 - a. A preliminary engineering report (alternatives evaluation in terms of life cycle costs and permit implications) should be submitted before negotiations for the permit can be completed.
 - b. A soils map prepared by a Licensed Professional Soil Scientist with pit profiles must be submitted in support of the project. The map must be field verified by TDEC staff.
 - c. Ensure treatment schematic on application matches engineering report and preliminary plans to be submitted in preliminary design phase (WW Design Criteria, Chapter 1, Appendices 1-D-2 and -3)
 - d. Agreement stipulating transfer of property or permanent easements for utility access for maintenance and operation of collection system and treatment system.
 - e. Application fee for decentralized systems: see 400-40-11-.02(3) at: <https://sharetn.gov.tnsosfiles.com/sos/rules/0400/0400-40/0400-40-11.20160508.pdf>
3. PRELIMINARY DESIGN PHASE: After agreement on draft permit, submit preliminary design submittal consisting of:
 - a. Engineering Report (or Basis of Design or Design Memorandum) in accordance with WW Design Criteria Chapter 1 Appendix 1-D-2; Review of the engineering report primarily focuses on due diligence taken in the characterization of the influent and the selection of an appropriate technology to meet the agreed upon discharge requirements given the influent characterization. Life cycle cost estimates should be upgraded; previously considered alternatives should be omitted or will be disregarded at this point. Treatment processes outside the Design Criteria parameters must be justified with preferably actual data on similar installations. Performance should be examined over the realistic range of influent values.
 - b. Preliminary Plans in accordance with WW Design Criteria Chapter 1 Appendix 1-D-3. Review of the preliminary plans focuses on the process in accordance with the checklists. Preliminary plans may be attachments or figures in the engineering report.
4. FINAL DESIGN PHASE: Upon completion successful completion of the public comment period of the permit and approval of the engineering report and the preliminary plans, the final design phase is authorized. The final CD's should consist of:
 - a. Final Plans and Specifications in accordance with WW Design Criteria Chapter 1 Appendix 1-D-4. Note that the primary review emphasis is on those aspects not previously evaluated during the PRELIMINARY DESIGN PHASE: Maintainability, sustainability, operability and flexibility (including the visibility of process parameters to support operator optimization), expandability, and safety.
 - b. Note procurement documentation in the project manual/specifications is generally reviewed for functionality and does not duplicate review procurement requirements, policies, or ordinances of funding agencies or owning public entities.



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- c. Proof of ownership/permanent easements must be provided prior to transmission of wastewater or acceptance of wastewater at a new facility for treatment and disposal.
- d. Note Rules authorize and require the Division to specify the format and content of the submittals. Current versions of the Rules and Design Criteria specify paper submittals. The Division is moving towards accepting and prefers digital submissions. Plans should be able to be legible if printed in 11x17 paper format; documents should be word/phrase searchable. PDF versions will be digitally stamped approved on cover sheets and indices and when reproduced will fulfill the requirements for on-site construction monitoring. A paper copy (red-lined plans) of the contract documents should also be on site to record field changes to ensure an accurate record drawing set can be provided.

5. PERMITTING PHASE

- a. Prior to commencing operation, privately-owned public utilities must provide financial security to the Public Utility Commission to comply with TCA 69-3-122. Issuance of a Certificate of Convenience and Necessity (CCN) by the Public Utility Commission must occur prior to the startup of the facility.
- b. Final plans approval and issuance of the final permit will occur once the financial security provisions have been applied for.

6. CONSTRUCTION PHASE

- a. Notify location environmental field office (EFO) & Nashville Central Office upon:
 - i. Start of construction
 - ii. Start up, final inspection, commissioning
- b. Submit record or "as-built" drawings" if necessary