6. Name, address and title of applicant's authorized agent for permit application coordination.

Cindy Hinson Pearson
Senior Natural Resources Manager
TTL, Inc
2743-B Gunter Park Drive West
Montgomery, Alabama 36109

Statement of Authorization: I hereby designate and authorize the above named person to act in my behalf as my agent in the processing of this permit application and to furnish, upon request, supplemental information in support of this application.

Signature of Applicant — Date: 7-3-19

7. Describe the proposed activity, its purpose and intended use, including a description of the type of structures, if any to be erected on fills, piles, of float-supported platforms, and the type, composition and quantity of materials to be discharged or dumped and means of conveyance. If more space is needed, use remarks section on page 4 or add a supplemental sheet. (See Part III of the Guide for additional information required for certain activities.)

The proposed project, consists of a combination of dragline and conventional pan trap mining at the proposed project site. Mining at the site will be accomplished utilizing dragline mining for the majority of the site. Dragline mining involves the use of a dragline, which is a large crane-like earthmoving machine. Mining and initial reclamation require moving more materials than can be accomplished with standard excavation equipment. Draglines can efficiently move large quantities of material. A large-capacity bucket swings from cables on the end of the boom, scooping material that is then moved to adjacent areas. Draglines are electrically powered and run by two employees, an operator and an oiler. When mining is occurring, measures must be taken to protect the areas adjacent to the mine property. Berms are constructed to ensure that muddy water does not leave the mine property and affect local waterways. Recharge ditches, on the outside of the berm, provide hydration to surrounding properties to ensure mining does not impact groundwater levels on the surrounding property.
Prior to mining the trees will be harvested and the land is cleared. The berms, ponds and best management practices for sediment control are constructed and installed. The topsoil is stockpiled for use during reclamation. The permanent facilities are then constructed and installed. The mining process proceeds as follows: The dragline moves through the mining area excavating the material to be mined which is stockpiled nearby. It is then transferred to an apron feeder which feeds to a crusher/screen. This removes rocks and other large objects. The material is then transferred to a pilfered conveyor system. The oversized organic material will be placed near the screen area for future deposit during the reclamation process. The pilfered conveyor systems feeds a mainline feed conveyor system. The mainline feed conveyor system will incline (or feed a stacker conveyor) and then feed the trommel screen. The trommel feeds the Pre Concentration Plant (PCP).
In the PCP, spiral centrifuges concentrate and separate the heavy mineral sands from the lighter clays and quartz sand and then feeds the Wet Concentrator Plant. The Wet Concentration Plant further reduces and separates the material for processing. The material from the WCP is transported to the Mineral Separation Plant (MSP). The MSP separates valuable and non-valuable mineral products such as zircon, titanium, rutile, ilmenite, etc. After products have been separated, the final products will be containerized, bale strapped or loaded on rail dependent upon customer requirements.
The tailings from the PCP/WCP area will be temporarily stockpiled. Tailing will be loaded onto the mainline belt conveyor system. The mainline belt conveyor system will convey material onto a reclamation conveyor. The reclamation conveyor deposits the tailings back into the mined pit area for reclamation.
As part of reclamation the tailings are manipulated from their stockpiles to the open mined area where they are deposited. The areas are then recontoured, covered with topsoil and revegetated to meet reclamation standards. The reclamation is a continuous

8. Proposed use: Private ☑ Public ☐ Commercial ☑ Other ☐ (Explain)

Heavy mineral sand mining facility

9. Names and addresses of adjoining property owners whose property also adjoins the waterway.

RAYONIER A FLAMIC TIMBER COMPANY C/O RAYONIER TAX SERVICES POST OFFICE BOX 101129 MOBILE, AL 36610 TIAA TIMBERLANDS LLC C/O GREENWOOD RESOURCES INC. 1500 SOUTH FIRST AVE, SUITE 1158 SUITE 150 PORTL

10. Date activity is proposed to commence. 1-1-2020

Date activity is expected to be completed. 1-1-2028

11. Is any portion of the activity for which authorization is sought now complete ☐Y ☑N

a. If answer is "Yes", give reasons in the remarks in the remarks section.
Indicate the existing work on the drawings.

b. If the fill or work is existing, indicate date of commencement and completion.

c. If not completed, indicate percentage completed.

12. List of approvals or certifications required by other Federal, State or local agencies for any structures, construction discharges, deposits or other activities described in this application. Please show zoning approval or status of zoning for this project.

Issuing Agency	Type Approval	Identification No.	Date/Application	Date/Approval
Georgia EPD	Industrial Surface Water and Groundwater		not yet applied	
Georgia EPD	Process Wastewater Discharge NPDES-I		not yet applied	
Georgia EPD	NPDES Stormwater Permit		not yet applied	
Georgia EPD	Surface Mining Permit		not yet applied	