

FLOODPLAIN

According to the FEMA Flood Insurance Rate Map (FIRM) No.: 12075CO215F, effective 11/2/2012, the proposed project area is not located within an established flood plain. Please refer to Appendix E for a copy of the FEMA FIRM Map.

WETLANDS

During the proposed mining activities, no wetlands will be impacted.

DESIGN & METHODOLOGY

WATER TABLE INVESTIGATION

The project site is located in Candler and Astatula Fine Sands, which are classified as well drained sandy soils, as shown on the soils map included in Appendix C. Additionally, potentiometric surface DIS data was reviewed from the Florida Geological Survey and in the 2015 contours, the potentiometric surface is indicated to be at an elevation of 50 feet along the subject property. Based upon the Geotechnical Report prepared by Geo-Tech, Inc. on July 28, 2022 and included in Appendix F, the estimated seasonal high water table was estimated to be at an elevation of 73+/- feet. The proposed plan set shows that excavation shall not occur within 3 feet of the estimated seasonal high water table (elevation of approximately 76.0+/- feet).

WATER QUALITY & QUANTITY

The pre-development surface flow pattern will be maintained during mining activities. Stormwater Best Management Practices (BMP) includes to maintain a proposed 100 feet setback/buffer from existing property boundaries to allow for any off-site drainage to continue pre-developed paths which ultimately sheet flows to Sand Pond located to the Southwest of the project area. No additional water quality measures are proposed for the proposed project area as any runoff within the proposed project area will be contained on-site during mining activities and since there are no proposed impervious areas to be constructed on-site, the stormwater runoff rate also will not increase as a result of the proposed mining activities.

EROSION CONTROL & DEWATERING

The proposed BMP includes to maintain a proposed 100 feet setback/buffer from existing property boundaries to prevent any sediment from washing off-site. No dewatering