



## Aupperle Company

10088 Circleview Drive, Austin, Texas 78733

Phone & Fax (512) 329-8241

Email: [Aupperle@att.net](mailto:Aupperle@att.net)

Texas Board of Professional Engineers Registration Number F-1994

September 27, 2013

Director of Planning and Development Review  
Director of Parks & Recreation Department  
City of Austin  
P.O. Box 1088  
Austin, Texas 78767

Re: Amended Environmental Assessment Report, Engineer's Floodway Encroachment Certification and Summary Letter for Demolition of an Existing Single-Family Boat Dock and Construction of a New Single-Family Dock on Lake Austin at 13330 Shore Vista Drive, Austin Texas

Dear Director:

This project proposes to construct a new boat dock and appurtenances. A general description of the proposed project follows.

### Overview

This project is located at is situated approximately one mile west of the intersection of Quinlan Park Road and Shore Vista Drive intersection. The property is located within the city limits of the City of Austin. The principal residence associated with this residential dock will be at 13330 Shore Vista Drive. The project site is located within the Lake Austin watershed. The existing dock is to be demolished. The new dock width will be 43 feet or 19% of the shoreline width. All access for construction activities will be by water. All piles will be 6-5/8" driven steel piles. All piles will be driven to 0.5" refusal per blow. Access to the dock will be by foot across the existing lawn. There is no existing shoreline walk or bulkhead. There are no shoreline improvements proposed except for the gangway to the new dock. The dock improvements will be built this coming spring.

### Environmental Assessment

The project site is not located over a karst aquifer, is not within an area draining to a karst aquifer or reservoir, is not within a water quality transition zone, is not within a critical water quality zone as defined by Section 25-8-92, is not located on slopes with a gradient more than 15 percent, but is however located within the 100-year flood plain of Lake Austin. The F.E.M.A. flood plain information is attached and F.I.R.M information is included on the Cover Sheet.

*Hydrogeologic Element:* The topographic slope under the dock is a grade less than 15 percent. The site is located in Lake Austin and the soils according to the Geologic Atlas of Texas are predominantly *alluvium (Qal)* and *fluvial terrace deposits (Qt)*, i.e. sedimentary soils with some boulders. There are no known springs, bluffs, canyon rimrocks, caves, sinkholes, point recharge features, karst or other critical environmental features within 150 feet of the boat dock. The project is 100% over Lake Austin and runoff from the dock should not propose any harm to the quality or quantity of recharge at significant point recharge features, since there are none.

*Vegetation Element:* The proposed construction preserves to the greatest extent practicable the significant trees and other vegetation at the single-family site. The site plan shows a wetland area along and landward of the shoreline. There are no trees greater than eight inches in diameter within or immediately adjacent to the limits of construction. No trees will be removed for the dock construction. The site contains a wetland critical environmental feature outside of the limits of construction.

*Wastewater Element:* No wastewater or water service is proposed for this project. Therefore, justifications, explanations, descriptions, techniques, standards or calculations regarding wastewater service are not included herein.

Engineer's Certification - Floodway Encroachment - LDC 25 -12 G103.5

The proposed dock will not increase the rate of storm runoff within the Colorado River watershed. The openness and profile of the proposed dock will not adversely obstructive flood flows relative to the existing dock, shoreline protrusions and adjacent improvements and will not increase the level of the design flood of the adjacent Colorado River.

Variances, Waivers & Conclusions

The dock construction is located with the critical water quality zone, but a variance to construct the dock facilities in the CWQZ is not required. The dock width does not exceeds 20% of the shoreline width. The dock will not extend beyond the 30' shoreline. The dock will not encroach into the 10-foot side yard setback. The dock will require about 60 CY of lake-bottom dredge to obtain adequate boat mooring depth. The project as designed is in substantial compliance with the applicable requirements of the City of Austin Development Code. There will be no adverse impact on the natural and traditional character of the land or waterways. If you have any questions, please feel free to call.

Very truly yours,

Bruce S. Aupperle, P.E.

