



## Aupperle Company

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Texas Board of Professional Engineers Registration Number F-1994

June 27, 2012

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

Re: Amended Engineer's Summary Letter and Report  
1504 Rockcliff Road —Boat Dock Demolition and Replacement

Dear Director:

This project proposes to demolish and replace an existing residential boat dock at 1504 Rockcliff Road. A general description of the proposed project follows.

### Overview

This project is located at 1504 Rockcliff Road, Austin, TX. The property is located within the city limits of Austin and the Lake Austin watershed. The applicant purchased the subject property last year. The applicant wishes to demolish the existing dock and replace it with a new dock facility. The footprint of the replacement dock is 20' by 35.5', which is 20% of the lot's shoreline width and 5.5' longer than a standard dock due to very shallow waters near the shoreline. The proposed dock, as is the existing dock, will be located within the 10-foot side yard setback. The single-slip replacement dock will have an upper deck with a width of 25' at the stair landing. 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. These improvements will be built in summer/fall of 2012.

### 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. There are no trees greater than eight

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inches in diameter within or immediately adjacent to the limits of construction for the proposed dock. Thus, no trees will be removed for the dock construction. The attached email correspondence with Andrew Clamann indicates that a separate environmental assessment is not required for wetland critical environmental features.

*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.

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 exceed 20% of the shoreline width, however the upper deck is 25' wide at the stair landing. The dock will extend beyond the 30' shoreline offset by 5' to have deeper waters for boat access. The dock will encroach into the 10-foot side yard setback by about 5 feet. An acknowledgement letter from the adjacent property owner is attached. Otherwise, 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,

Aupperle Company

Bruce S. Aupperle, P.E.