

# San Francisco Bay Conservation and Development Commission

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October 9, 2015

**TO:** All Engineering Criteria Review Board Members (ECRB)  
**FROM:** Lawrence J. Goldzband, Executive Director (415/352-3653; larry.goldzband@bcdc.ca.gov)  
Rafael Montes, Senior Staff Engineer (415/352-3670; rafael.montes@bcdc.ca.gov)  
**SUBJECT: ECRB Review of Brooklyn Basin Project Responses**  
(For Board consideration on October 22, 2015)

## Projects Summary

**Project Name.** Brooklyn Basin Project

**Applicant.** Signature Development

**Project Representatives.** Patrick Van Ness, Eric Harrison

**Presenters:** Dilip Trivedi, P.E. (Moffatt & Nichol), Jeff Fippin, G.E. (ENGE0), Sam Yao (SGH), Kevin Treat (KPW).

**Project Background.** The ECRB reviewed this project for a second time on August 11, 2015. The project presented at that time was at approximately a 50-percent criteria design.

The Board did not believe further review of the project's design criteria was necessary, but did request additional information on a few aspects of the project. Specifically, the Board recommended that work on the project's design criteria continue and requested that the applicant provide additional information on the following items:

- a. As described by the applicant and its representatives, the kinematic demands seem to control over the transient dynamic response, and therefore, the period may be increased relative to what the transient analysis had indicated. The applicant was requested to review this detail and comment on whether the kinematic movement could be causing increased damage.
- b. As reported, the period was described to be as long as 0.9 seconds. Starting at 0.3 seconds, it elongates by a factor of three, suggesting softening/displacement is by a factor of 9, which seems to contradict the 1- to 2-inch displacement reported. The applicant is encouraged to address this subject. The applicant agreed to run a check.
- c. The Board requested the applicant to check on the non-circular failure surface under the gravity structure because it was a very tall cantilever wall.
- d. The Board requested that a seismic instrumentation plan be submitted at a later date, (not necessarily at the October 22, 2015 meeting). The applicant was encouraged to make the best effort to engage the engineering community in this effort and to provide some results even at a later date.

**Enclosed Material**

1. "Addendum Report/Structural Assessment and Seismic Retrofit of 9<sup>th</sup> Avenue Wharf at Brooklyn Basin," dated October 5, 2015 prepared by Simpson Gumpertz & Heger Inc. Project 157526.00 for Signature Development Group.
2. Memo re: "Brooklyn Basin, Phase 1 9<sup>th</sup> Avenue Terminal Wharf, Seismic Retrofit Oakland, California," "Site-Specific Ground Motion Hazard Analysis Spectra," dated August 17, 2015 and prepared by ENGEO for Mr. Patrick Van Ness of Zarsion OHP 1, LLC.