



Project No. A9218-06-01

July 31, 2015

VIA EMAIL

MLA Green, Inc.  
d.b.a. Mia Lehrer + Associates  
3780 Wilshire Blvd, Suite 250  
Los Angeles, California 90010

Attention: Mr. Jeff Hutchins

Subject: SOIL CONDITIONS  
PROPOSED SORRENTO ALAMITOS BAY SHORELINE TRAIL  
PUBLIC RIGHT-OF-WAY ALONG THE LOS CERRITOS CHANNEL  
BETWEEN EAST 2<sup>ND</sup> STREET AND EAST APPIAN WAY  
LONG BEACH, CALIFORNIA

References: *Geotechnical Investigation, Proposed Sorrento Alamitos Bay Shoreline Trail, Project No. A9218-06-01*, by Geocon West, Inc., dated June 11, 2015.

Dear Mr. Hutchins:

This letter has been prepared as requested by Ms. Claire Latane with Mia Lehrer + Associates, and is intended to provide information regarding existing site soil conditions and the process of mitigating site soils for the proposed project improvements.

Based on our field investigation and published geologic maps of the area, the site is underlain by artificial fill and Older Paralic Deposits (interfingering near-shore marine and continental deposits) consisting of varying amounts of clay, silt, and sand. Artificial fill was encountered in two of our field explorations to a maximum depth of 3½ feet below existing ground surface. The artificial fill generally consists of fine- to medium-grained, dark gray to dark brown sand, silty sand, and clay. The artificial fill is characterized as slightly moist to moist and medium dense to firm. The fill is likely the result of past grading or dredging of the adjacent channel. Pleistocene age Older Paralic Deposits were encountered at the ground surface and beneath the artificial fill and consists primarily of light brown to dark brown and gray poorly graded sand and silty sand with trace silt, rootlets, and seashells. The soils are primarily slightly moist to wet, medium dense and become denser with increased depth. The existing site soils are suitable for re-use as engineered fill.

Deeper fill may exist in other areas of the site that were not directly explored. Demolition of existing lawn, garden, and improvements which occupy the area of proposed improvements is anticipated to disturb the upper few feet of existing site soils. Where new exterior slabs on grade, not subject to traffic loads, are to be constructed, it is recommended that all existing fill and any soft, unsuitable soils be excavated and properly compacted for paving support. As a minimum, it is recommended that the upper 12 inches of subgrade be moisture conditioned to near optimum moisture content and properly

compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition) to support exterior slabs not subject to traffic loads. The recommendations provided herein are intended to reduce the potential for cracking of slabs due to settlement. Slabs on grade constructed over existing uncertified fill or soft soils may experience increased settlement and/or cracking, and may therefore have a shorter design life and increased maintenance costs.

Should you have any questions regarding this letter, or if we may be of further service, please contact the undersigned at your convenience.

Very truly yours,

**GEOCON WEST, INC.**



Harry Derkalousdian  
PE 79694



(Email)

Addressee