Geological, Geoenvironmental, and Geotechnical Engineering, Vol. 2

Transportation Research Record: Journal of the Transportation Research Board Volume 2656 (2017)

ISBN: 978-1-5108-5459-8

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2017) by Transportation Research Board of the National Academies All rights reserved.

ISBN (Print) 978-1-5108-5459-8 ISBN 2017 Printed Set (All Issues) 978-1-5108-5406-2

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact Transportation Research Board of the National Academies at the address below.

Transportation Research Board The National Academies of Sciences, Engineering, and Medicine 500 Fifth Street, NW Washington, DC 20001

Phone: (202) 334-2934 Fax: (202) 334-2519

trbsales@nas.edu

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

TABLE OF CONTENTS

| Comparison of California Bearing Ratio and Pin Puncture Strength Testing Used in the Evaluation of | 1 |
|---|----|
| Geotextiles | 1 |
| Coupled Thermo-Hydro-Mechanical Analysis of Freeze–Thaw Behavior of Pavement Structure over | |
| a Box Culvert | 12 |
| Luo, Bin; Ishikawa, Tatsuya; Tokoro, Tetsuya; Lai, Hao | |
| Jump-Starting a Geotechnical Asset Management Program with Existing Data Beckstrand, Darren; Mines, Aine | 23 |
| Bender Elements Successfully Quantified Stiffness Enhancement Provided by Geogrid-Aggregate | |
| Interlock | 31 |
| Byun, Yong-Hoon; Tutumluer, Erol | |
| Full-Scale Testing of Geosynthetic-Reinforced, Soil-Integrated Bridge System | 40 |
| Application of Results of Tests in Developing a Two-Dimensional Model for Soil-Steel Railway | |
| Bridges | 53 |
| Machelski, Czes-aw; Janusz, Leszek | |
| Evaluation of Pile Setup from Osterberg Cell Load Tests and Its Cost–Benefit Analysis | 61 |
| Impact of Ground Freezing on Seismic Performance of Bridge Pile Foundations Subject to | |
| Liquefaction-Induced Lateral Spread | 71 |
| Yang, Zhaohui; Zhang, Xiaoyu | |
| Author Index | |