

# O'BrienEngineering, Inc.

Hydraulics . Hydrology . Civil Engineering

## Good Morning!

So you have a dam that needs an Emergency Action Plan (EAP). What now? In the following article we have briefly described the benefits of simplified dam breach analysis. Understanding that you may be under a tight timeline - and even tighter budget! - if you are interested in learning more about the process as well as your options, we would love the opportunity to speak with you.

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## OEI

14900 Landmark Boulevard  
Suite 530  
Dallas, Texas 75254  
972.223.2288 (p)  
[info@obrieneng.com](mailto:info@obrieneng.com)  
[www.obrieneng.com](http://www.obrieneng.com)

## Simplified Dam Breach Analysis



Texas has an estimated 7,150 non-federally owned dams; 970 are classified high-hazard, 760 are significant hazard, and the balance is low hazard. The State enacted legislation requiring owners of high and significant hazard dams to file an Emergency Action Plan (EAP) with the TCEQ by January 1,

2011. Development of the EAP involves hydrologic modeling, hydraulic modeling, dam break analysis, inundation mapping, property identification, and emergency contact chart. TCEQ regulations allow for the use of the "**Simplified Dam Breach**" method for small and intermediate sized dams which have limited downstream development (constituting the majority of Texas dams).

Hydraulic model preparation and inundation mapping are expedited through the use of GIS software. O'Brien Engineering, Inc. (OEI) has the capability to model the most complex conditions, but has extensive experience in the use of the Simplified method and GIS software, which greatly helps in **meeting time requirements and in staying within budget.**

We would like to assist the City in complying with this new requirement for any dam in your inventory. If we can help or if you would just like to talk to someone about your situation, please contact us: Jim O'Brien | OEI, 972.233.2288 (p).

## OEI, In Brief

O'Brien Engineering, Inc. (OEI) is a consulting firm in Dallas. We provide specialization in dam safety evaluations and permits, dam rehabilitations, floodplain engineering, hydraulics and hydrology, complex drainage analysis, master drainage studies, erosion control, and regulatory permitting.

Established nearly a quarter century ago in 1987, our commitment is to provide the highest possible quality of service in an honest, ethical, cost-effective, and timely manner. We are dedicated to serving our clients.

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