

# PROJECT PROFILE



Isthmus Slough Bridge Pier Monitoring System  
Coos Bay, Oregon

**Client:**

Oregon Department of Transportation

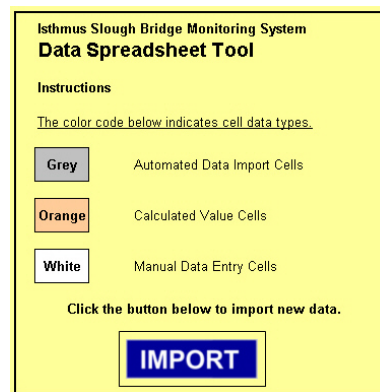
The project involved the design and installation of a movement monitoring system on the Oregon Department of Transportation's Isthmus Slough Bridge in Coos Bay, Oregon.

The bridge was built in 1931, and since then has experienced deflections in the superstructure between the two main support piers that have led to problems in operating the bascule spans.

The purpose of the monitoring system is to provide real-time monitoring of the tilt of the main support piers, and to provide automatic notification of an exceedance of predetermined movement threshold levels.

The notification is provided through a voice message call out initiated by the automated data acquisition system (ADAS). The system

also monitors the hydraulic pressure required to close the span lock pin mechanism. An increasing trend in the hydraulic pressure provides an indication of when maintenance is required on the span lock mechanism.



Data evaluation is accomplished from a remote workstation personal computer using a Microsoft Excel spreadsheet application that was fully developed by Engineered Monitoring Solutions and integrated with the ADAS.

