

## Third Quarterly Report– Public Page

Date of Report: *June 2, 2014*

Contract Number: DTPH56-13-T-000008

Prepared for: *Pipeline and Hazardous Materials Safety Administration, TransCanada Pipeline, Enbridge Pipeline, and PRCI*

Project Title: “In-Ditch Validation Methodology for Determination of Defect Sizing”

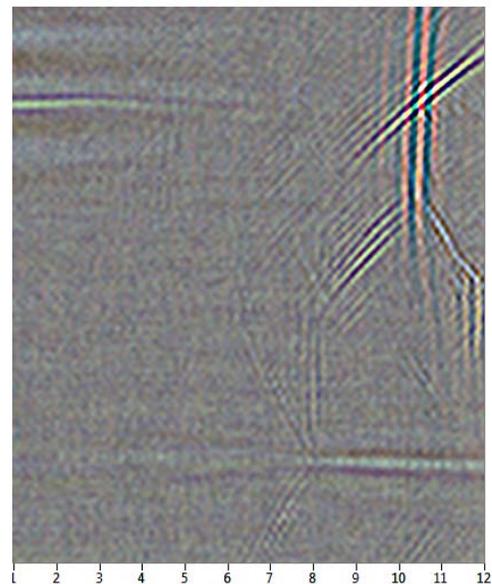
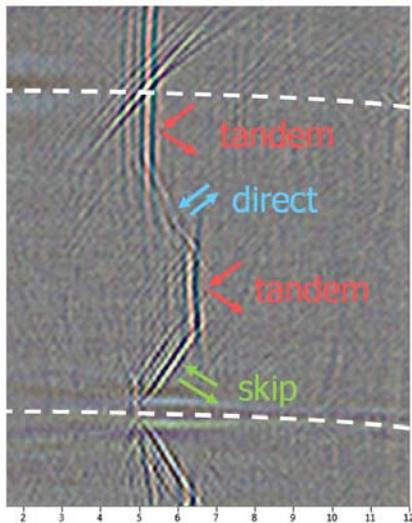
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For quarterly period ending: *May 31, 2014*

### ***Project Status***

- 9** The 3rd quarter ended with a test that yielded results from the 16-in ERW pipe, results from a 24-in SCC coupon, and significant difficulty with no results from 24-in SSAW pipe.
- 10** Discrimination of various types of defects continues to be impressive. Below are two images from an SCC colony scanned in the third quarter. On the left is a thru-wall SCC crack from a high-pH SCC colony which shows the meandering nature of this trans-granular crack. On the right is an SCC crack with branching.



Sizing accuracy was not as good as desired. This is thought to be caused by the lack of focusing in the wedges associated with the IWEX transducers used in the 16-inch trials. All future wedges will have focusing and the accuracy should improve.

- 11** Several system improvements have been identified for the system, six were identified in the quarterly report of which 2 were implemented in the third quarter.