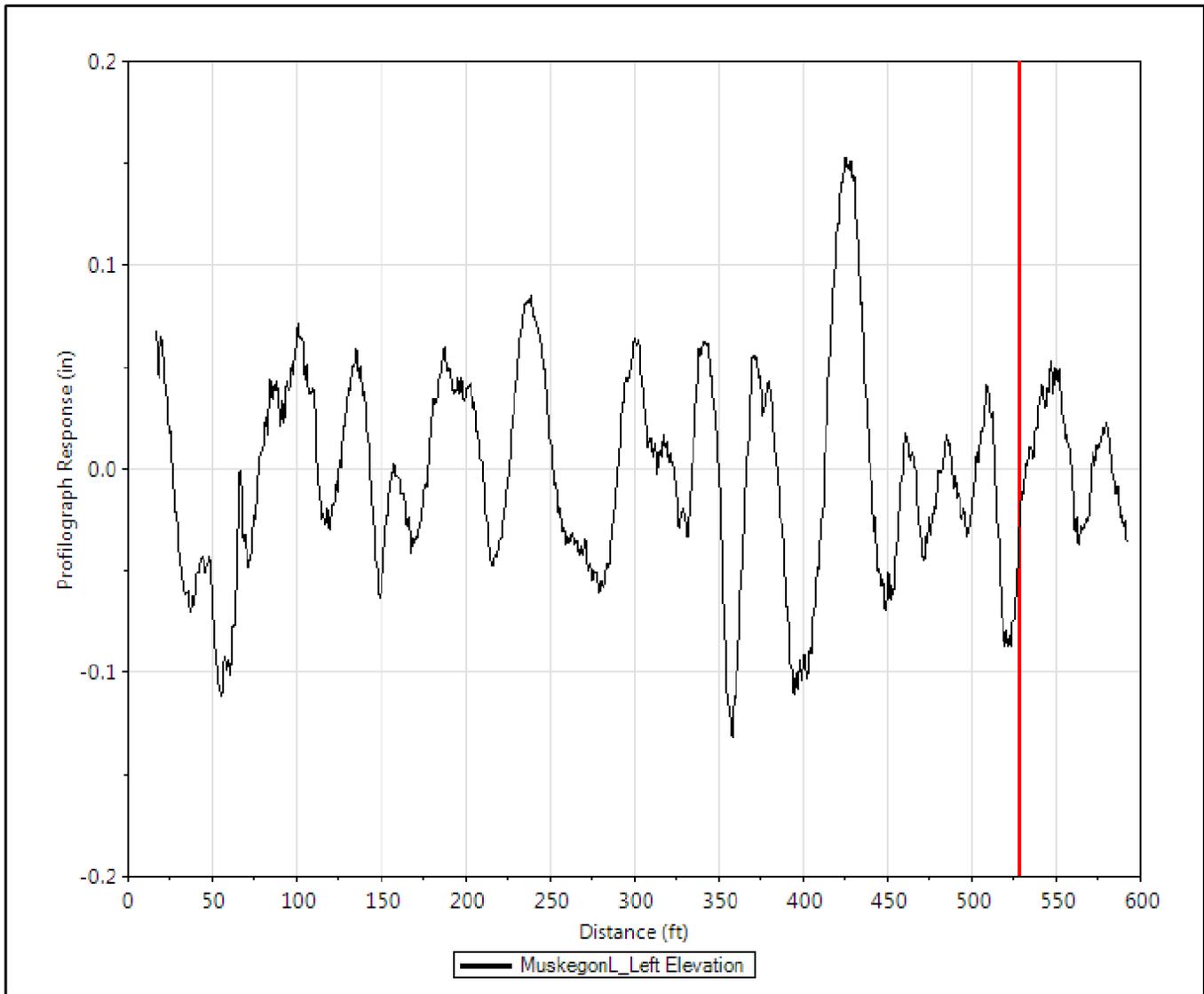
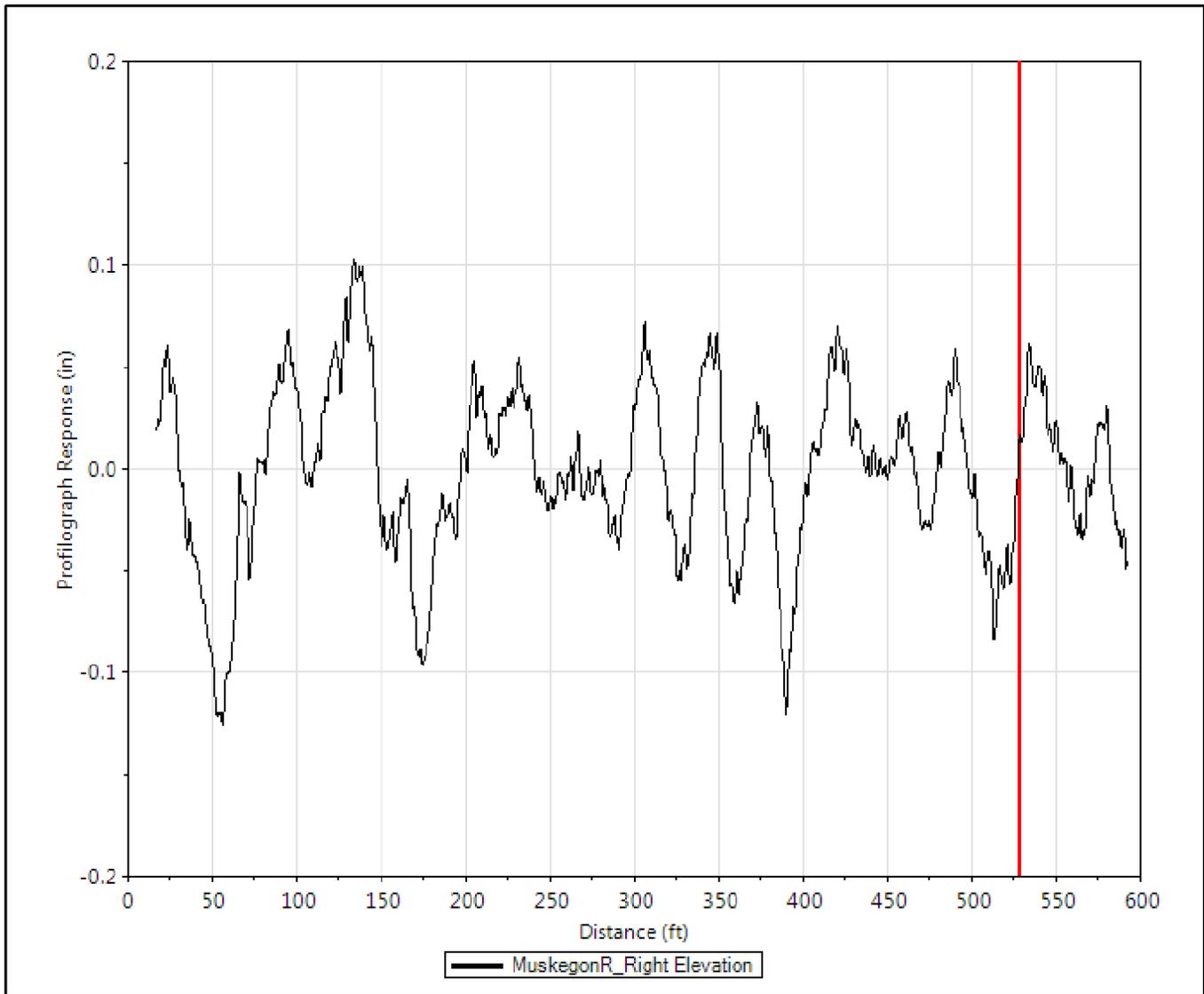


# Simulation Results



# Simulation Results



Muskegon Ride Validation Site  
MDOT truck measurements , 2015 (Farnum)

<b>Run</b>	<b>IRI Left</b>	<b>IRI Right</b>
1	41.5	38.7
2	40.7	39.0
3	42.5	38.8
7	40.8	39.2
8	40.6	39.3
9	41.7	39.1
10	40.9	39.3
11	41.9	39.0
12	41.7	38.5
14	41.5	39.1

<b>Average</b>	<b>41.4</b>	<b>39.0</b>
<b>Std. Dev.</b>	<b>0.6</b>	<b>0.3</b>
Coef Var.	1.5	0.7

Acceptable range for each index value (plus or minus two standard deviations)

<b><u>Minimum</u></b>	<b><u>40.2</u></b>	<b><u>38.5</u></b>
<b><u>Maximum</u></b>	<b><u>42.6</u></b>	<b><u>39.5</u></b>

**Runs not used:**

4	40.2	40.1
5	40.1	39.3
13	44.0	38.3
6	40.5	39.0

**Location**

On US-31 BL (Moses J. Jones Parkway) in southbound inside (median) lane, between Bayou and Marquette Streets. PK nail placed directly across from the wooden power pole (without a streetlight) on the west side of the highway. The PK nail was placed in the yellow paint stripe, near the middle of the adjacent median crossover area, Start Transology based profilers 16.25 feet north of PK nail. Start other profilers at PK nail.

**Directions**

From I-96 take US-31 north to exit 116 (US-31 BL southbound)  
Take US-31 BL south to just past intersection with M-120.  
Site starts south of Bayou Street and ends north of Marquette Street.  
Approximate coordinates are **43.248967, -86.235979** (estimated from Google Earth)

**Notes**

45 mph trunkline with significant traffic, especially in the afternoon.  
Lane closure or shadow vehicle required for gators and other slow speed profilers.  
Parking available on Ottawa Street, which is one block west of site.