

HAMPTON – NORTH HAMPTON

15678

Open Road Tolling (ORT)

WELCOME

Public Informational Meeting

Hampton Town Offices – June 10, 2009

North Hampton Town Offices – June 11, 2009

# Meeting Agenda

- Introduction
- Project Need & Background
- ORT Overview
- Design and Plan Overview
- Environment
- ORT Simulations
- Project Funding, Estimated Cost & Schedule
- Question / Answer Period

# Project Need

## ■ Hampton Mainline Plaza

- Existing 16-Lane Plaza
- Limited Capacity – Congestion during Peak Periods

- ❖ Plaza Directional Capacity

- ❖ 8-Lanes – approximately 4,400 vehicles per hour (VPH)
- ❖ 9-Lanes – approximately 4,800 vph
- ❖ 10-Lanes - approximately 5,150 vph

- ❖ High Traffic Volumes – Summer Weekends (August Peak Month)

- ❖ Peak Hour Volumes (2008)

- ❖ Friday NB Traffic 4,880
- ❖ Saturday NB Traffic 5,200
- ❖ Sunday SB Traffic 5,650

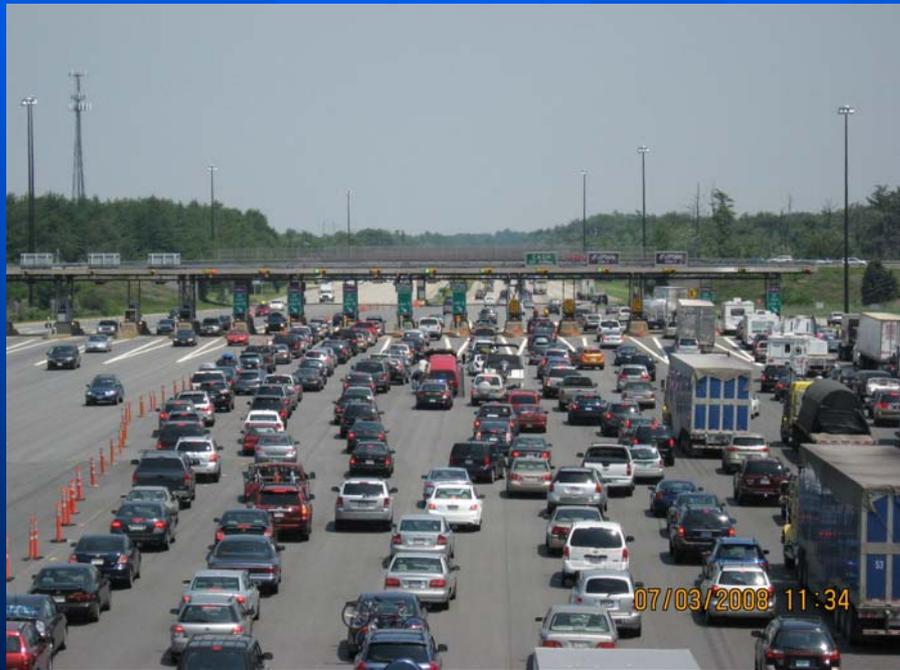
- ❖ Projected 2010 & 2020 Volumes

- ❖ Friday NB Traffic 5,010 (2010) 5960 (2020)
- ❖ Saturday NB Traffic 5,330 (2010) 6340 (2020)
- ❖ Sunday SB Traffic 5,800 (2010) 7077 (2020)

# Project Need

## ■ Hampton Mainline Plaza

- Limited Capacity → Congestion & Long Delays



# Project Background

- HNTB Completed Preliminary ORT Assessment – December 2008
- House Bill 391 – Authorizes Installation of ORT
  - Bill Introduced - January 2009
  - Sponsored by Representative Bouchard, Chair of Public Works & Highways Committee
  - Bill w/ Amendments Passed House & Senate
  - Supported by Governor
- Project included in 2009 –2012 STIP, amendment #1 – approved in April 2009

# Open Road Tolling (ORT) Overview

- ORT represents a blend of:
  - Highway-speed toll collection for E-ZPass patrons
  - Conventional toll collection for cash-paying patrons
- ORT represents a “middle ground” between:
  - Conventional tolling (e.g. Hampton toll plaza today)
  - All Electronic Tolling (e.g. Route 407)



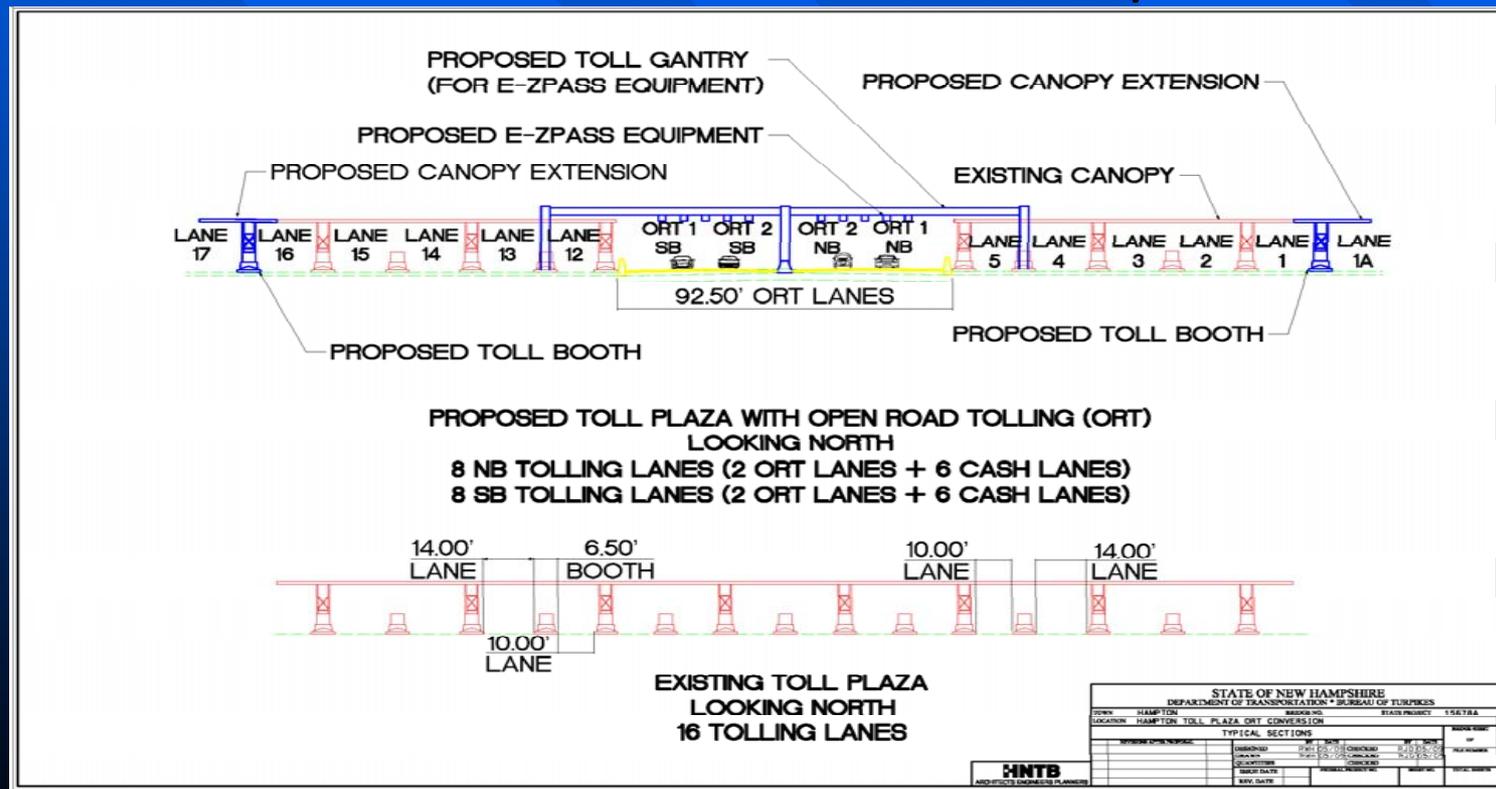
# Design

- Cash Lane 380 vph
- EzPass Toll lane 1100 vph
- ORT lane 1800 vph

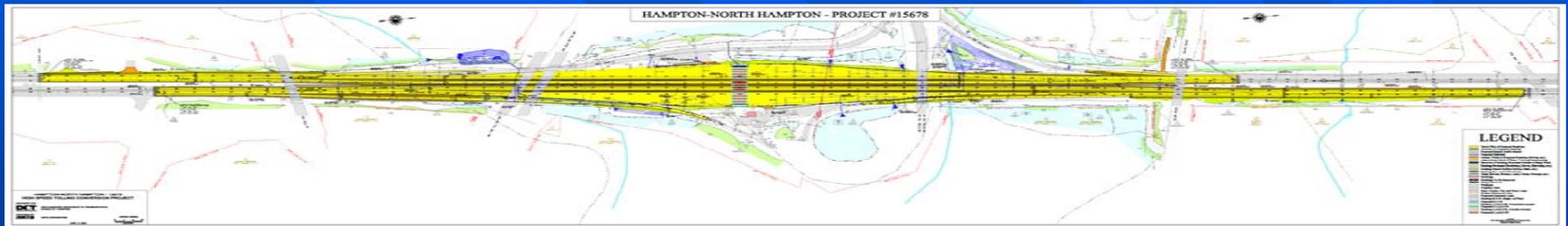
Year	Day	NB Traffic			SB Traffic		
		Fri	Sat	Sun	Fri	Sat	Sun
2010	Volume	5,005	5,329	2,502	3,298	3,739	5,795
	E-Z%	58.5%	49.7%	51.4%	52.8%	53.1%	50.4%
2020	Volume	5,955	6,342	3,053	3,925	4,450	7,070
	E-Z%	77.3%	68.5%	70.2%	71.5%	71.8%	69.2%

# Design

- Add 1 tollbooth in each direction
- Convert middle 6 lanes to 4 ORT lanes (2 in each direction)



# HAMPTON ORT PLAN OVERVIEW



# Benefits of ORT

- Improved level of service for E-ZPass patrons
- Reduce diversion to alternate routes
  - Improved toll plaza capacity
  - Greater incentive for people to shift to E-ZPass
- Reduced idling and increased average speeds (thereby reducing emissions)



# Wetland Impacts

- Minimal Impacts (avoidance and minimization)

- 6 areas of permanent impacts – 6385 SF

- 8 areas of temporary impacts – 3526 SF

Total 9911 SF

- NHDES Dredge and Fill Application

# Water Quality

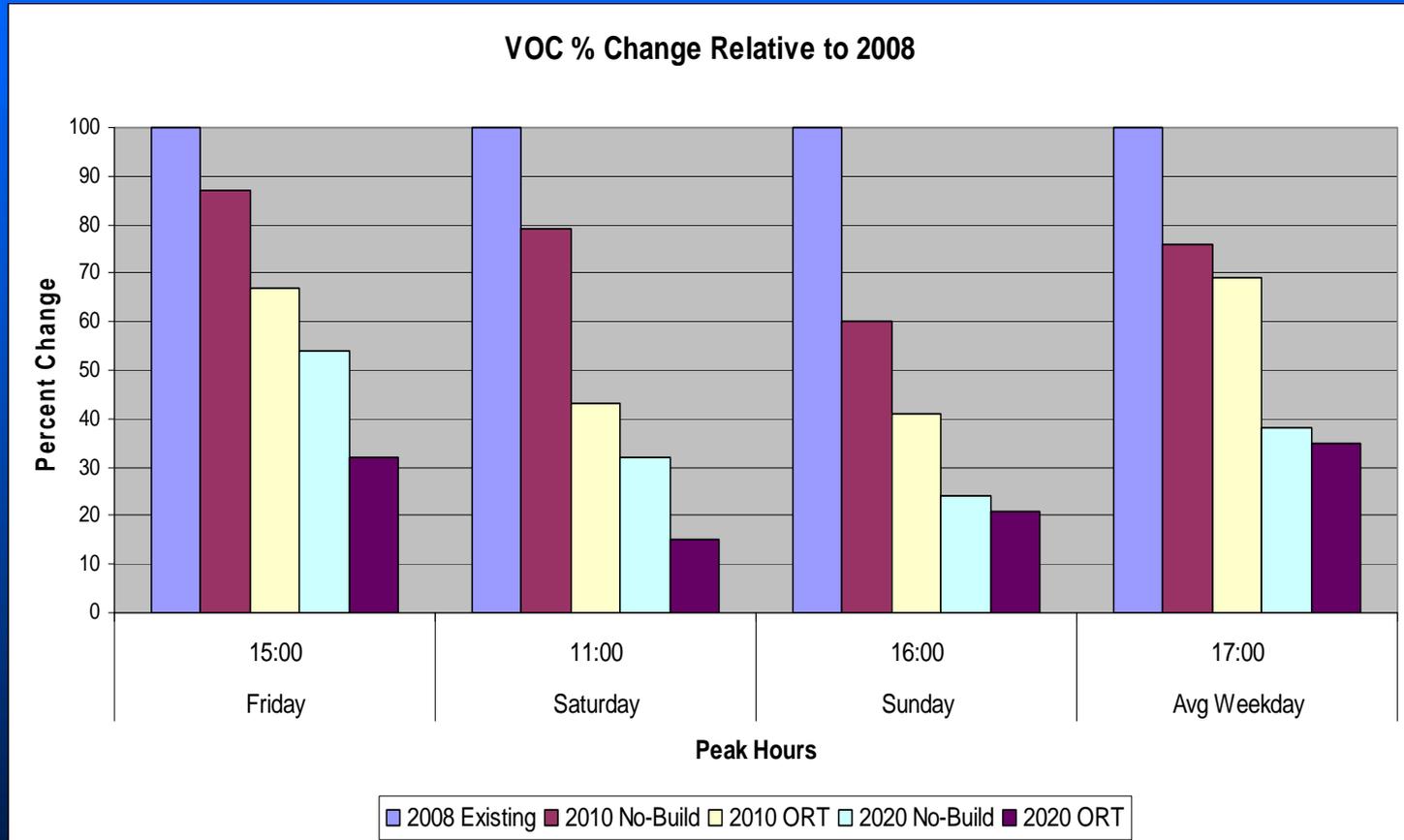
- Net Result – Positive Effect on Water Quality
  - Currently no water quality treatment
  - 3.1 acres of new impervious
  - 2 proposed water quality treatment basins
  - 9.44 acres of storm water from impervious pav't outlets into basins for treatment

# Air Quality

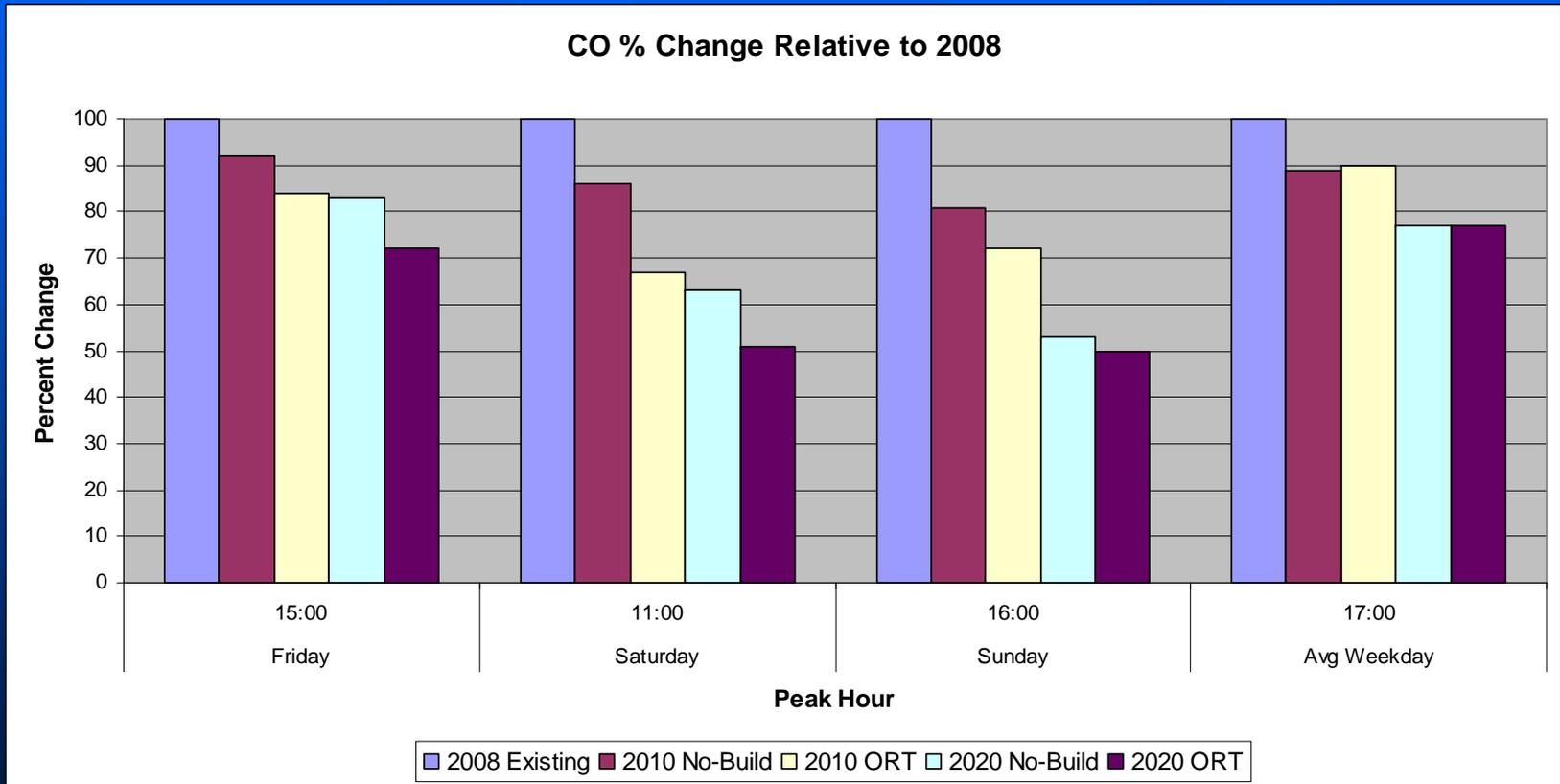
## ■ Net Result – Positive Effect on Air Quality

- Reduced Congestion → Improved Air Quality
- Verified through EPA accepted model

# Air Quality

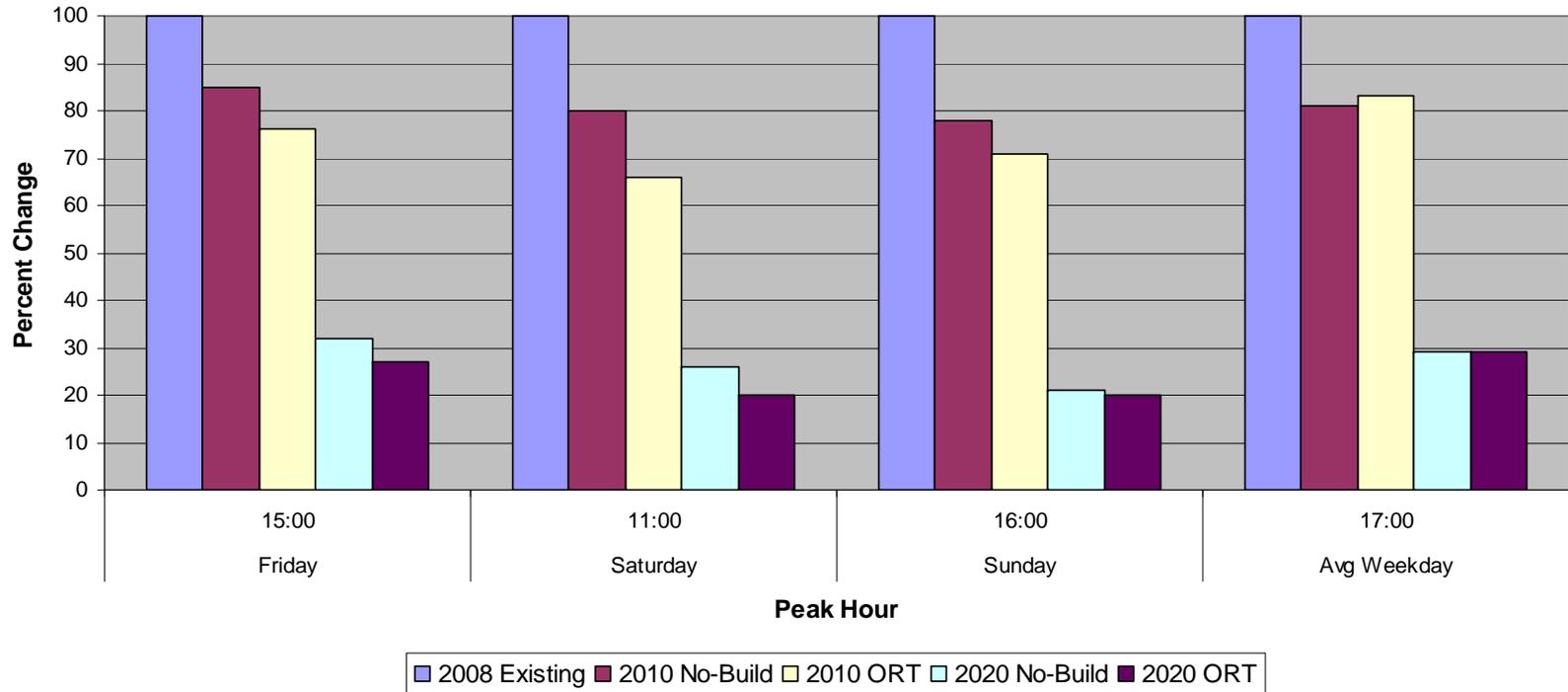


# Air Quality



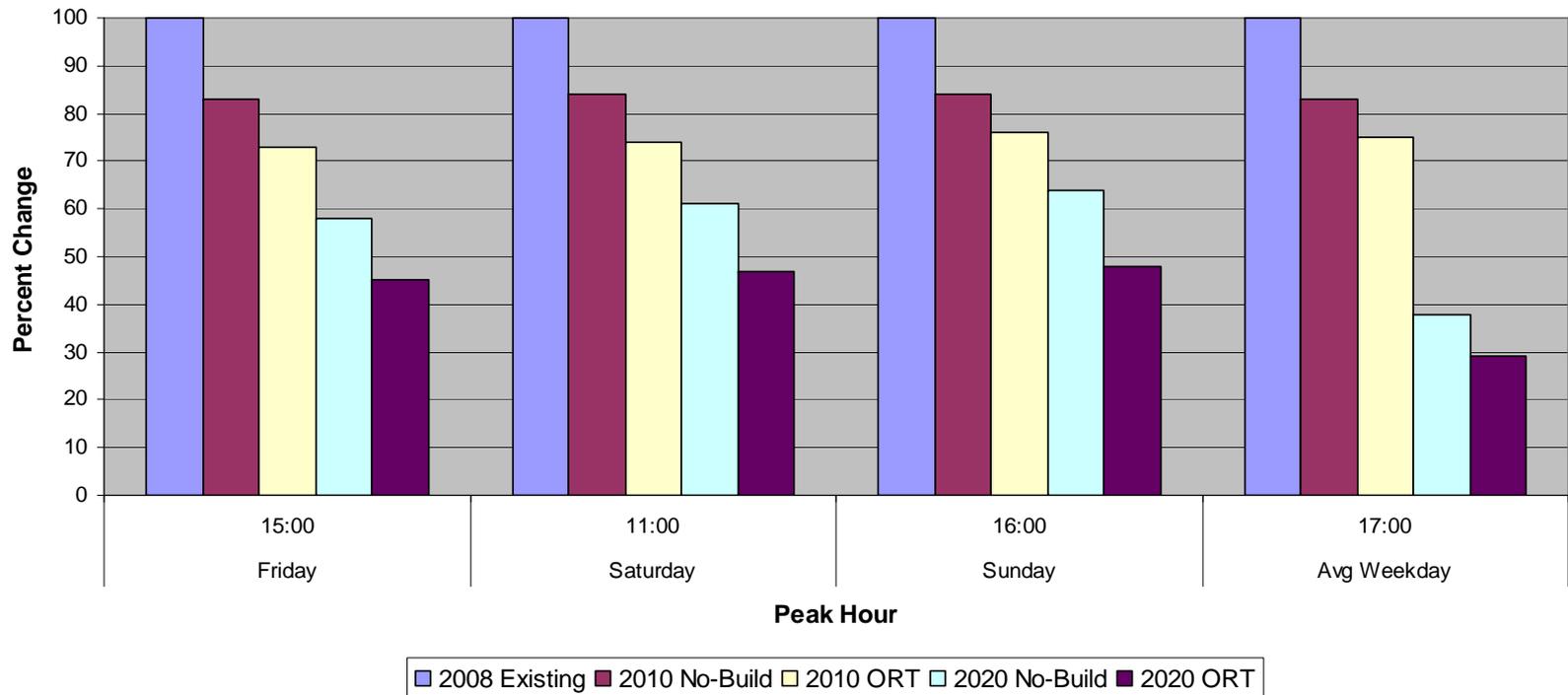
# Air Quality

NOx % Change Relative to 2008



# Air Quality

Truck PM2.5 % Change Relative to 2008



# *Sunday-No-build- 2010 (typical)*

- [AQ\\_2010\\_NoBuild\\_Sun\\_v4.avi](#)

# *Sunday - ORT - 2010*

- [AQ 2010 Build Sun v2.avi](#)

# *Sunday – Existing – 2020*

- [AQ\\_2020\\_NoBuild\\_Sun\\_v4.avi](#)

# *Sunday – ORT – 2020*

- [AQ\\_2020\\_Build\\_Sun\\_v2.avi](#)

# Project Funding & Estimated Cost

- Estimated Project Cost
  - Engineering - \$1.1M
  - Construction – 4 contracts totaling \$20.1M
- Project funded with additional Turnpike Revenue
  - 50 cent toll increase at Hampton (\$1.50 to \$2.00)
  - Governor & Council approved increase on 5/20/09 contingent of passage of HB391 into law
  - Toll Increase effective July 1, 2009 & upon passage of HB391

# Project Schedule

- 15678A Contract (Widen Existing Plazas & Approaches)
  - Estimated \$4.6M Construction
  - Advertise for Bids June 30, 2009
  - Construction mid-August thru November 2009
- 15678B Contract (Construct ORT Lanes)
  - Estimated \$10.5M Construction
  - Advertise for Bids September 1, 2009
  - Construction mid-November 2009 thru June 2010
- ORT Lanes Operational – May 31, 2010

# Project Schedule (con't)

- 15678C Contract (Implement ORT Equipment)
  - Estimated \$3.0M Contract
  - RFP Issued – May 28, 2009
  - Design & Implementation August 2009 thru June 2010
- 15678D Contract (Rehabilitate Existing Plaza)
  - Estimated \$2.0M Contract
  - Advertise for Bids June 15, 2010
  - Construction September 2010 thru May 2011

THANK YOU

Questions / Comments