



**CUY-90-14.90**

**PID 77332/85531**

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**APPENDIX PA-01**

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**Pavement Core Report  
(Reference Document)**

State of Ohio  
Department of Transportation  
Jolene M. Molitoris, Director

**Innerbelt Bridge  
Construction Contract Group 1 (CCG1)**

# CUY-90-15.24 PAVEMENT CORE REPORT

August 20, 2009



**BARR & PREVOST**  
ENGINEERING | TESTING | SURVEYING

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 01	A	University, North of Tressel	3.5	--	--	Poor Condition
	B	Latitude: 41.48592	--	--	--	
	C	Longitude: 81.69283	--	--	9	
PC 02	A	University and W. 13 <sup>th</sup>	7.5	--	--	Poor Condition
	B	Latitude: 41.48497	--	--	--	
	C	Longitude: 81.69032	--	--	6.5	
PC 03	A	Carnegie Ave., right lane, westbound, between Ontario St. & Hope Memorial Bridge	2	--	--	Poor Condition
	B	Latitude: 41.49418	--	3.5	--	
	C	Longitude: 81.68602	--	--	11.5	Only 3" Extracted
PC 04	A	Carnegie Ave., middle lane(s), between Ontario St. & Hope Memorial Bridge	2.5	--	--	Good Condition
	B	Latitude: 41.49418	--	5.5	--	
	C	Longitude: 81.68580	--	--	9.0	

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 05	A	Carnegie Ave., right lane, eastbound, between Ontario St. & Hope Memorial Bridge	4	--	--	Good Condition
	B	Latitude: 41.49413	--	3.13	--	
	C	Longitude: 81.68562	--	--	8.5	Reinforce Steel Mesh
PC 06	A	Carnegie Ave., right lane, eastbound near Ontario St.	3.5	--	--	Fair Condition
	B	Latitude: 41.49467	--	4.0	--	
	C	Longitude: 81.68457	--	--	--	
PC 07	A	Carnegie Ave., middle lane(s), between E 9th St. & Ontario St.	3	--	--	Fair to Poor Condition
	B	Latitude: 41.49512	--	1	--	
	C	Longitude: 81.68388	--	--	7.75	
PC 08	A	Carnegie Ave., right lane, westbound near E 9th St.	6	--	--	Fair Condition
	B	Latitude: 41.49568	--	--	--	
	C	Longitude: 81.68300	--	--	7.5	

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 09	A	Carnegie Ave., right lane, westbound near E 9th St.	3.5	--	--	Good Condition
	B	Latitude: 41.49608	--	--	--	
	C	Longitude: 81.68220	--	--	10	
PC 10	A	Carnegie Ave., middle lane(s), Between E 14th St. & E 9th St.	1	--	--	Excellent Condition
	B	Latitude: 41.49673	--	4.5	--	0.5" Tar between 3.0" to 3.5"
	C	Longitude: 81.68070	--	--	9	
PC 11	A	Carnegie Ave., right lane, eastbound near E 14th St.	5	--	--	Good Condition
	B	Latitude: 41.49727	--	--	--	
	C	Longitude: 81.67948	--	--	10	No. 4 Reinforce Steel
PC 12	A	Ontario St., right lane, westbound	7	--	--	Good Condition
	B	Latitude: 41.49645	--	--	--	
	C	Longitude: 81.68978	--	--	7	

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 13	A	Ontario St., right lane, eastbound	6	--	--	Poor Condition
	B	Latitude: 41.49580	--	--	--	
	C	Longitude: 81.68890	--	--	7	
PC 14	A	Ontario St., right lane, westbound	2.5	--	--	Fair to Good Condition
	B	Latitude: 41.49562	--	--	--	
	C	Longitude: 81.68787	--	--	14.5	
PC 15	A	Ontario St., left lane, eastbound, near W. Eagle Ave.	1	--	--	Fair to Good Condition
	B	Latitude: 41.49523	--	3	--	
	C	Longitude: 81.68733	--	--	8.75	3" masonry type mortar
PC 16	A	Ontario St., left lane, westbound	2	--	--	Fair to Good Condition
	B	Latitude: 41.49495	--	7.5	--	
	C	Longitude: 81.73652	--	--	7	

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 17	A	Ontario St., right lane, eastbound, adjacent to triangle	2.5	--	--	Fair to Good Condition
	B	Latitude: 41.49467	--	--	--	
	C	Longitude: 81.68632	--	--	9	2" masonry type mortar
PC 18	A	Ontario St., right lane, westbound	1.5	--	--	Fair Condition
	B	Latitude: 41.49465	--	1.5	--	
	C	Longitude: 81.68558	--	--	9	
PC 19	A	Ontario St.,left turn lane, westbound	1	--	--	Poor to Fair Condition
	B	Latitude: 41.49420	--	2.5	--	
	C	Longitude: 81.68485	--	--	8.5	
PC 20	A	Ontario St., right lane, eastbound, north of existing bridge	3	--	--	Good Condition
	B	Latitude: 41.49380	--	--	--	
	C	Longitude: 81.68430	--	--	9.25	

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 21	A	Broadway Ave./Orange Ave., right lane, eastbound, near Broadway Ave. exit ramp	2.75	--	--	Good Condition
	B	Latitude: 41.49308	--	--	--	
	C	Longitude: 81.68277	--	--	9	
PC 22	A	Broadway Ave./Orange Ave., right lane, westbound, near E 9th St. exit ramp	2.5	--	--	Poor to Fair Condition
	B	Latitude: 41.49332	--	--	--	
	C	Longitude: 81.68200	--	--	8	
PC 23	A	Ontario St., right lane, eastbound	2	--	--	Fair to Good Condition
	B	Latitude: 41.49282	--	--	--	
	C	Longitude: 81.68122	--	--	9	
PC 24	A	Ontario St., left lane, westbound	3.5	--	--	Fair to Good Condition
	B	Latitude: 41.49295	--	--	--	
	C	Longitude: 81.68037	--	--	9	

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 25	A	Ontario St., left turn lane, eastbound	4	--	--	Fair Condition
	B	Latitude:	--	--	--	
	C	Longitude:	--	--	8	
PC 26	A	Ontario St.,right, westbound	2.5	--	--	Good Condition
	B	Latitude: 41.49257	--	--	--	
	C	Longitude: 81.67842	--	--	9.5	
PC 27	A	E 9th St., right lane, southbound, 100 ft +/- north of Carnegie Ave.	3.5	--	--	Good Condition
	B	Latitude: 41.49597	--	--	--	
	C	Longitude: 81.68302	--	--	10.5	
PC 28	A	E 14th St., right lane, southbound, 100 ft +/- north of Carnegie Ave.	3	--	--	Good Condition
	B	Latitude: 41.49783	--	--	--	
	C	Longitude: 81.67918	--	--	7	

## Pavement Core Summary Table

Pavement Core Number	Layer	Location	Core Composition (inch)			Remark
			Asphalt Concrete		Concrete	
			404	402		
PC 29 (B-024-0-09)	A	B-024-0-09	4	--	--	Good Condition
	B	Latitude: 41.482517	--	--	--	
	C	Longitude: 81.691533	--	--	9	
PC 30 (B-029-0-09)	A	B-029-0-09	4	--	--	Good Condition
	B	Latitude: 41.482983	--	--	--	
	C	Longitude: 81.692067	--	--	9	

PC No. : 001  
Location: University, North of Tressel  
Latitude: 41.48592      Longitude: 81.69283

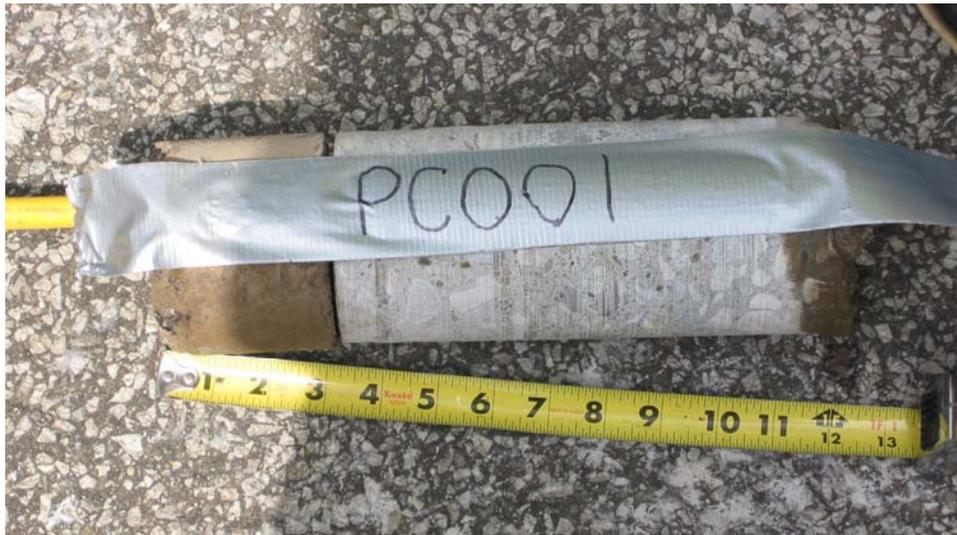
CUY – 90 – 15.24  
06/04/2009



UP STATION



DOWN STATION



PAVEMENT CORE

Composition: 3.5" Asphalt, 9" Concrete

Notes: Encountered 1PC of steel in asphalt. Subgrade appears to be sand. Pavement condition is poor with large cracks and small pot holes.

PC No. : 002  
Location: University and W. 13th  
Latitude: 41.48497

Longitude: 81.69032

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UP STATION



DOWN STATION



PAVEMENT CORE

Composition: 7.5" Asphalt, 6.5" Concrete.

Notes: Subgrade soils are sand and fine gravel. Pavement condition is poor as PC 001.

PC No. : 003

Location: Carnegie Ave., right lane, westbound, between Ontario St. &  
Hope Memorial Bridge

Latitude: 41.49418

Longitude: 81.68602

CUY – 90 – 15.24

06/04/2009



UP STATION



DOWN STATION



PAVEMENT CORE

Composition: 2" Asphalt with 3.5" Bitm. Base, 11.5" Concrete (only 3" was extracted) – total recovery: 8.5"

Notes: Drilled to full depth of 17", but could not break through the concrete. Removed asphalt core and some concrete. Asphalt pavement condition is poor.

PC No. : 004

Location: Carnegie Ave., middle lane(s), between Ontario St.  
& Hope Memorial Bridge

Latitude: 41.49418

Longitude: 81.68580

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UP STATION



DOWN STATION



PAVEMENT CORE

Composition: 2.5" Asphalt with 5.5" Asphalt Base, 9.0" Concrete.

Notes: Pavement condition is good.

PC No. : 005

Location: Carnegie Ave., right lane, eastbound, between Ontario St.  
& Hope Memorial Bridge

Latitude: 41.49413

Longitude: 81.68562

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PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 4" Asphalt with 3.13" Asphalt Base, 8.5" Concrete

Notes: Reinforcing steel mesh in concrete. Sand and gravel base material. Pavement condition is good with some cracks near edge of shoulder.

PC No. : 006

Location: Carnegie Ave., right lane, eastbound near Ontario St.

Latitude: 41.49467

Longitude: 81.68457

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06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 7.5" Asphalt (3.5" surface course + 4.0" asphalt base), No concrete

Notes: Pavement condition is fair. Some small cracks, no pot holes.

PC No. : 007

Location: Carnegie Ave., middle lane(s), between E 9th St.  
& Ontario St.

Latitude: 41.49512

Longitude: 81.68388

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 3" Asphalt with 1" Bitm. Base, 7.75" Concrete

Notes: Pavement condition is fair to poor. Lots of large cracks. No pot holes.

PC No. : 008

Location: Carnegie Ave., right lane, westbound near E 9th St.

Latitude: 41.49568

Longitude: 81.68300

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06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 6" Asphalt, 7.5" Concrete.

Notes: Base material is sand. Pavement condition is fair. Lots of large cracks. No pot holes.

PC No. : 009

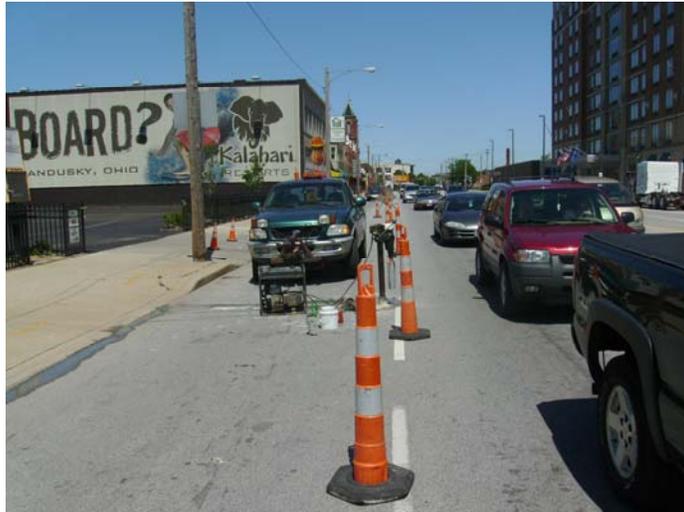
Location: Carnegie Ave., right lane, westbound near E 9th St.

Latitude: 41.49608

Longitude: 81.68220

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06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 3.5" Asphalt, 10" Concrete.

Notes: Base material is sandy gravel. Pavement condition is good with few small cracks with no pot holes.

PC No. : 010

Location: Carnegie Ave., middle lane(s), between E 14th St.  
& E 9th St.

Latitude: 41.49673

Longitude: 81.68070

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 1" Asphalt with 4.5" Asphalt Base, 9" Concrete.

Notes: 0.5" thickness of tar between 3.0" to 3.5". Pavement condition is excellent.

PC No. : 011

Location: Carnegie Ave., right lane, eastbound near E 14th St.

Latitude: 41.49727

Longitude: 81.67948

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 5" Asphalt, 10" Concrete

Notes: Base material is sandy gravel. Concrete has No. 4 reinforcing steel. Pavement condition is good with some small cracks and without pot holes.

PC No. : 012

Location: Ontario St., right lane, westbound

Latitude: 41.49645

Longitude: 81.68978

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 7" Asphalt, 7" Concrete

Notes: Base material is sandy gravel. Pavement condition is good with some small cracks and without pot holes.

PC No. : 013

Location: Ontario St., right lane, eastbound

Latitude: 41.49580

Longitude: 81.68890

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 6" Asphalt, 7" Concrete

Notes: Base material is sandy gravel. Pavement condition is poor. Small cracks with large pot hole, approximately 8" diameter and 2.5" deep along curb.

PC No. : 014

Location: Ontario St., right lane, westbound

Latitude: 41.49562

Longitude: 81.68787

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 2.5" Asphalt, 14.5" Concrete

Notes: Pavement condition is fair to good. Some small cracks and without pot holes.

PC No. : 015

Location: Ontario St., left lane, eastbound, near W. Eagle Ave.

Latitude: 41.49523

Longitude: 81.68733

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 1" Asphalt with 3" Asphalt Base, 8.75" Concrete.

Notes: 3" Interior concrete may be masonry type mortar. Subgrade is brown sandy gravel. Pavement condition is fair to good with some small cracks without pot holes.

PC No. : 016

Location: Ontario St., left lane, westbound

Latitude: 41.49495

Longitude: 81.73652

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 2" Asphalt with 7.5" Asphalt Base, 7" Concrete

Notes: Pavement condition is fair to good. Some cracks.

PC No. : 017

Location: Ontario St., right lane, eastbound, adjacent to triangle

Latitude: 41.49467

Longitude: 81.68632

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 2.5" Asphalt, 9" Concrete.

Notes: 2" interior concrete may be masonry type mortar. Pavement condition is fair to good. Some cracks.

PC No. : 018

Location: Ontario St., right lane, westbound

Latitude: 41.49465

Longitude: 81.68558

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 1.5" Asphalt with 1.5" Base, 9" Concrete.

Notes: Pavement condition is fair with some cracks and small pot holes near the cracks.

PC No. : 019

Location: Ontario St.,left turn lane, westbound

Latitude: 41.49420

Longitude: 81.68485

CUY – 90 – 15.24

06/04/2009



UP STATION



DOWN STATION



PAVEMENT CORE

Composition: 1" Asphalt with 2.5" Asphalt Base, 8.5" Concrete

Notes: Pavement condition is fair to poor with lots of cracks, bumps, and broke pavement pieces.

PC No. : 020

Location: Ontario St., right lane, eastbound, north of existing bridge

Latitude: 41.49380

Longitude: 81.68430

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION



PAVEMENT CORE

Composition: 3" Asphalt, 9.25" Concrete.

Notes: Pavement condition is good.

PC No. : 021

Location: Broadway Ave./Orange Ave., right lane, eastbound,  
near Broadway Ave. exit ramp

Latitude: 41.49308

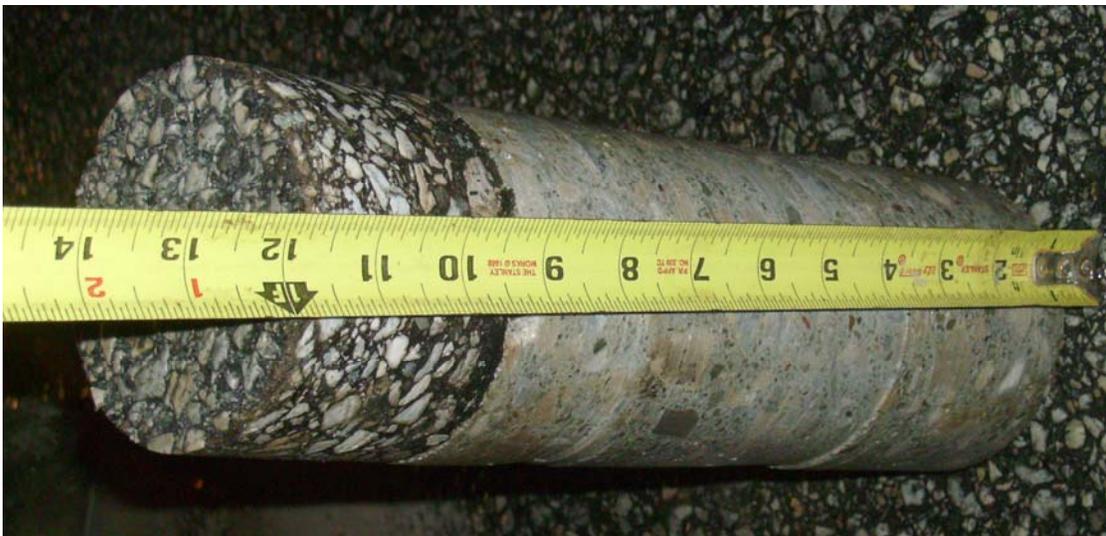
Longitude: 81.68277

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06/04/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 2.75" Asphalt, 9" Concrete

Notes: Pavement condition is good with few small cracks and without no pot holes.

PC No. : 022

Location: Broadway Ave./Orange Ave., right lane, westbound,  
near E 9th St. exit ramp

Latitude: 41.49332

Longitude: 81.68200

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION



PAVEMENT CORE

Composition: 2.5" Asphalt, 8.0" Concrete

Notes: Pavement condition is poor to fair. Lots of long cracks with small pot holes.

PC No. : 023

Location: Ontario St., right lane, eastbound

Latitude: 41.49282

Longitude: 81.68122

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION



PAVEMENT CORE

Composition: 2" Asphalt, 9" Concrete

Notes: Pavement condition is fair to good. Some cracks. No pot holes.

PC No. : 024

Location: Ontario St.,left lane, westbound

Latitude: 41.49295

Longitude: 81.68037

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION



PAVEMENT CORE

Composition: 3.5" Asphalt, 9" Concrete

Notes: Pavement condition is fair to good. Some cracks. No pot holes.

PC No. : 025

Location: Ontario St., left turn lane, eastbound

Latitude:

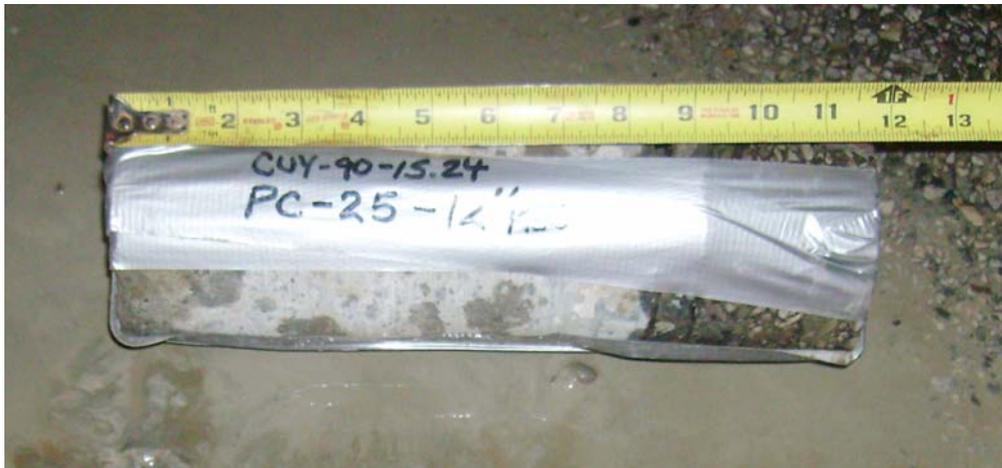
Longitude:

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06/04/2009



PAVEMENT CONDITION AT CORE LOCATION



PAVEMENT CORE

Composition: 4.0" Asphalt, 8" Concrete

Notes: Pavement condition is fair. Some cracks. No pot holes.

PC No. : 026

Location: Ontario St.,right, westbound

Latitude: 41.49257

Longitude: 81.67842

CUY – 90 – 15.24

06/04/2009



PAVEMENT CONDITION



PAVEMENT CORE

Composition: 2.5" Asphalt, 9.5" Concrete

Notes: Pavement condition is good with few cracks.

PC No. : 027

Location: E 9th St., right lane, southbound, 100 ft +/- north of Carnegie Ave.

Latitude: 41.49597

Longitude: 81.68302

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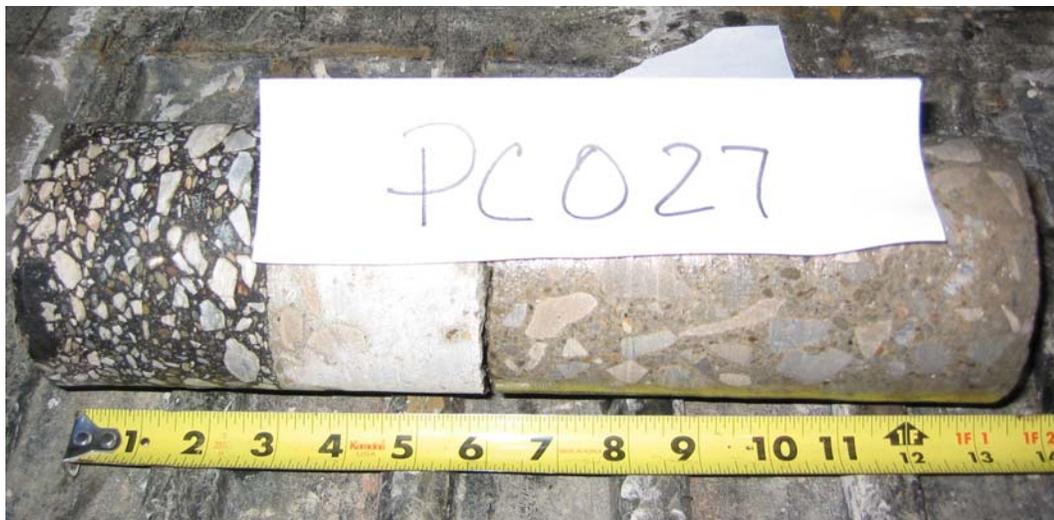
06/04/2009



UP STATION



DOWN STATION



PAVEMENT CORE

Composition: 3.5" Asphalt, 10.5" Concrete

Notes: Pavement condition is good with some cracks between lanes and joints. No pot holes.

PC No. : 028

Location: E 14th St., right lane, southbound, 100 ft +/- north of Carnegie Ave.

Latitude: 41.49783

Longitude: 81.67918

CUY – 90 – 15.24

06/04/2009



UP STATION



DOWN STATION



PAVEMENT CORE

Composition: 3" Asphalt, 7" Concrete

Notes: Pavement condition is good with few small cracks and without pot holes.

PC No. : 029  
Location: B-024-0-09  
Latitude: 41.482517

Longitude: 81.691533

CUY – 90 – 15.24  
08/11/2009



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 4.0" Asphalt, 9.0" Concrete

Notes: Subgrade appears to be sand. Pavement condition is good.

PC No. : 030  
Location: B-029-0-09  
Latitude: 41.482983

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08/10/2009

Longitude: 81.692067



PAVEMENT CONDITION AROUND CORE



PAVEMENT CORE

Composition: 4.0” Asphalt, 9.0” Concrete

Notes: 1.125” Rebar in concrete, Subgrade appears to be sand. Pavement condition is good.