R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

LETTER OF TRANSMITTAL

	Date:		Project No.:	
		September 29, 2010		557-14
	Attention:			
		Mr. Cuyler Fea	gles (cmf@portlandi	maine.gov)
	Re:			
City of Portland, Portand Int. Jetport				
		Concrete Testin	ıg	
001 Westbrook Street		Terminal Enhar	ncement, Portland In	t. Jetport
		Portland, Maine	e	
Portland, Maine 04102				

	We are sending you attached concrete cylinder test results.								
Cylinder No. (s)		Age (Days)							
	67160	7							
	67166	7							
	67172	7							
	67178	7							
	67184	7							

Remarks:

Copy To: Signed: Bertha Dawn

Roy Williams: rsw@portlandmaine.gov
Jim Stanislaski: jim_stanislaski@gensler.com
Cliff Takara: clifford_takara@gensler.com
Lacey Fogg: Lacey.Fogg@amec.com
Mike Fusco: mfusco@tcco.com
Shaun Winner: swinner@tcco.com
Phil Coleman: pcoleman@tcco.com
Elizabeth O'Toole: eotoole@tcco.com

TMM@portlandmaine.gov ldobson@portlandmaine.gov

rdixon@tcco.com gemitchell@tcco.com

Remi Delcourt (remi@auburnconcrete.com)

If enclosures are not as noted, kindly notify us at once.

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86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:

Terminal Enhancement, Portland Int. Jetport

Date Cylinders Cast:

22-Sep-10

Project No:

557-14

Concrete Supplier:

Auburn

Weather Conditions:

Sunny

General Contractor:

Turner

Method of Placement: Admixtures:

Pump

Design Strength:

3,500

Mid Range Water Reducer

Max Agg. Size:

3/8

Placement Location:

4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1

Test Cylinder Location: See attached sketch - 4th floor

Date Report Issued:

SEP 3 0 2010

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time		
Load No.	4	Slump (in) ASTM C 143	7		Batched @	8:32
Ticket No.	180798	Air (°F)	66		Arrived @	9:00
Truck No.	98	Concrete (°F) ASTM C 1064 72			Total Time	45±
Cubic Yds.	10	Air Content (%) ASTM C 23	3.25			

^{*}Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received 23-Sep-10 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67160	29-Sep-10	4.020	12.69	7	37,140	2930	6
67161	20-Oct-10			28			
67162	20-Oct-10			28			
67163	24-Sep-10	4.016	12.67	2	31,320	2470	5
67164	HOLD			HOLD			
67165	HOLD			HOLD	, , , , , , , , , , , , , , , , , , , ,		

^{*}Concrete compressive strength by ASTM C 39

Types of Breaks













Cone

Cone & Split

Columnar

Shear

Side Fracture

Double Side Fracture

Load	Ticket	Truck	Cubic Yds	Slump	Air Temp	Conc Temp	(%) Air	Time
	Number	Number		(inches)	(°F)	(°F)	Content	(min.)
1	180792	98	rejected					90
2	180794	106	rejected	2.50				90
3	180797	83	10					
5	180799	106	10				-	
6	180802	116	10					
7	180803	83	10					
	180803	83	10					

Remarks:

23 Total Loads, Unit weight 122.6 pcf

Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes

travel time and 5 - 10 minutes on site waiting.

Mix adjusted @ plant on Load 4 - water added on-sitclecked by:

"as needed".

Matthew T. Grady, Manager of MTS

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86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:

Terminal Enhancement, Portland Int. Jetport

Date Cylinders Cast:

22-Sep-10

Project No:

557-14

Concrete Supplier:

Weather Conditions:

Sunny

General Contractor:

Auburn

Method of Placement:

Pump

Design Strength:

Turner 3.500

Admixtures:

Mid Range Water Reducer

3/8

Placement Location:

4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1

Max Agg. Size:

Test Cylinder Location: See attached sketch - 4th floor

Date Report Issued:

SEP 3 0 2010

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time		
Load No.	8	Slump (in) ASTM C 143	7		Batched @	9:50
Ticket No.	180805	Air (°F)	70		Arrived @	10:15
Truck No.	99	Concrete (°F) ASTM C 1064	73		Total Time	45
Cubic Yds.	10	Air Content (%) ASTM C 23	1 3			

^{*}Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received 23-Sep-10 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type	
67166	29-Sep-10	4.020	12.69	7	37,300	2940	5	
67167	20-Oct-10			28				
67168	20-Oct-10			28				
67169	24-Sep-10	4.016	12.67	2	32,660	2580	6	
67170	HOLD			HOLD				
67171	HOLD			HOLD				

^{*}Concrete compressive strength by ASTM C 39

Types of Breaks













Cone

Cone & Split

Columnar

Shear

Side Fracture

Double Side Fracture

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
9	180807	106	10					
10	180809	83	10					
11	180811	86	10					
				<u> </u>				

Remarks:

23 Total Loads, unit weight 123.6 pcf

Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes

travel time and 5 - 10 minutes on site waiting.

Checked by:

Matthew T. Grady, Manager of MTS

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86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:

Terminal Enhancement, Portland Int. Jetport

Date Cylinders Cast:

22-Sep-10

Project No:

557-14

Concrete Supplier:

Auburn

Weather Conditions:

Sunny

General Contractor:

Turner

Method of Placement:

Pump

Design Strength:

3.500

Admixtures:

Mid Range Water Reducer

Max Agg. Size:

3/8

Placement Location:

4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1

Test Cylinder Location: See attached sketch - 4th floor

Date Report Issued:

SEP 3 0 2010

4x8 Cylinders	6	Cast by M	ichael J. Kramlich	Time		
Load No.	12	Slump (in) ASTM C 143	7		Batched @	10:54
Ticket No.	180812	Air (°F)	72		Arrived @	11:15
Truck No.	99	Concrete (°F) ASTM C 1064	75		Total Time	40
Cubic Yds.	10	Air Content (%) ASTM C 23	1 3			

^{*}Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received 23-Sep-10 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67172	29-Sep-10	4.020	12.69	7	43,620	3440	5
67173	20-Oct-10			28			
67174	20-Oct-10			28			
67175	24-Sep-10	4.016	12.67	2	33,040	2610	5
67176	HOLD	LINE E E		HOLD			011
67177	HOLD			HOLD			

^{*}Concrete compressive strength by ASTM C 39

Types of Breaks













Cone

Cone & Split

Columnar

Shear

Side Fracture

Double Side Fracture

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp	(%) Air Content	Time (min.)
13	180816	106	10				-	
14	180817	97	10		-		_	
15	180818	86	10	-		133	-	-
16	180820	84	10	-		-		
				11				

Remarks:

23 Total Loads, Unit weight 123.6 pcf

Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes

travel time and 5 - 10 minutes on site waiting.

Checked by: Matthew T. Grady, Manager of MTS

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86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:

Terminal Enhancement, Portland Int. Jetport

Date Cylinders Cast:

22-Sep-10

Project No:

557-14

Concrete Supplier:

Auburn

Weather Conditions:

Sunny

General Contractor:

Turner

Method of Placement:

Pump

Design Strength:

3,500

Admixtures:

Mid Range Water Reducer

Max Agg. Size:

3/8

Placement Location:

4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1

Test Cylinder Location: See attached sketch - 4th floor

Date Report Issued:

SEP 3 0 2010

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time		
Load No.	17	Slump (in) ASTM C 143	7.5		Batched @	12:24
Ticket No.	180822	Air (°F)	77		Arrived @	12:50
Truck No.	97	Concrete (°F) ASTM C 1064	73		Total Time	45
Cubic Yds.	10	Air Content (%) ASTM C 23	1 3.25			

^{*}Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received 23-Sep-10 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67178	29-Sep-10	4.020	12.69	7	38,520	3040	6
67179	20-Oct-10			28			
67180	20-Oct-10			28			
67181	24-Sep-10	4.016	12.67	2	35,620	2810	2
67182	HOLD			HOLD			
67183	HOLD			HOLD			

^{*}Concrete compressive strength by ASTM C 39

Types of Breaks













Cone

Cone & Split

Columnar 3

Shear

Side Fracture

Double Side Fracture

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp	Conc Temp	(%) Air Content	Time (min.)
18	180823	116	10					
19	180827	106	10		-			
20	180828	94	10	3 55 87	: :			3.00
21	180829	97	10	9-20	8=2			

Remarks:

23 Total Loads, Unit weight 123.2 pcf

Unless noted, truck times not observed due to location. Trucks averaged ~15 min at pump, 20-25 minutes

travel time and 5 - 10 minutes on site waiting.

Checked by:

Matthew T. Grady, Manager of MTS

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CONCRETE TEST/PLACEMENT REPORT

Project Name:

Terminal Enhancement, Portland Int. Jetport

Date Cylinders Cast:

22-Sep-10

Project No:

557-14

Concrete Supplier:

Auburn

Weather Conditions:

Sunny

General Contractor:

Turner

Method of Placement:

Pump

Design Strength:

3.500

Admixtures:

Mid Range Water Reducer

Max Agg. Size:

Placement Location:

4th Floor: Slab on Deck, 3rd floor slab on deck 4-1, 3-1

3/8

Test Cylinder Location: See attached sketch - 3rd floor

Date Report Issued:

SEP 3 0 2010

4x8 Cylinders	3	Cast by Mich	ael J. Kramlich	Time		
Load No.	22	Slump (in) ASTM C 143	5.75		Batched @	2:06
Ticket No.	180830	Air (°F)	76		Arrived @	2:30
Truck No.	76	Concrete (°F) ASTM C 1064	73		Total Time	45
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25			

^{*}Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received 23-Sep-10 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67184	29-Sep-10	4.020	12.69	7	40,900	3220	5
67185	20-Oct-10			28			
67186	HOLD			HOLD			

^{*}Concrete compressive strength by ASTM C 39

Types of Breaks













Cone

Cone & Split

Columnar

Side Fracture Shear

Double Side Fracture

Load	Ticket Number		Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
23	180832	96	10					

Remarks:

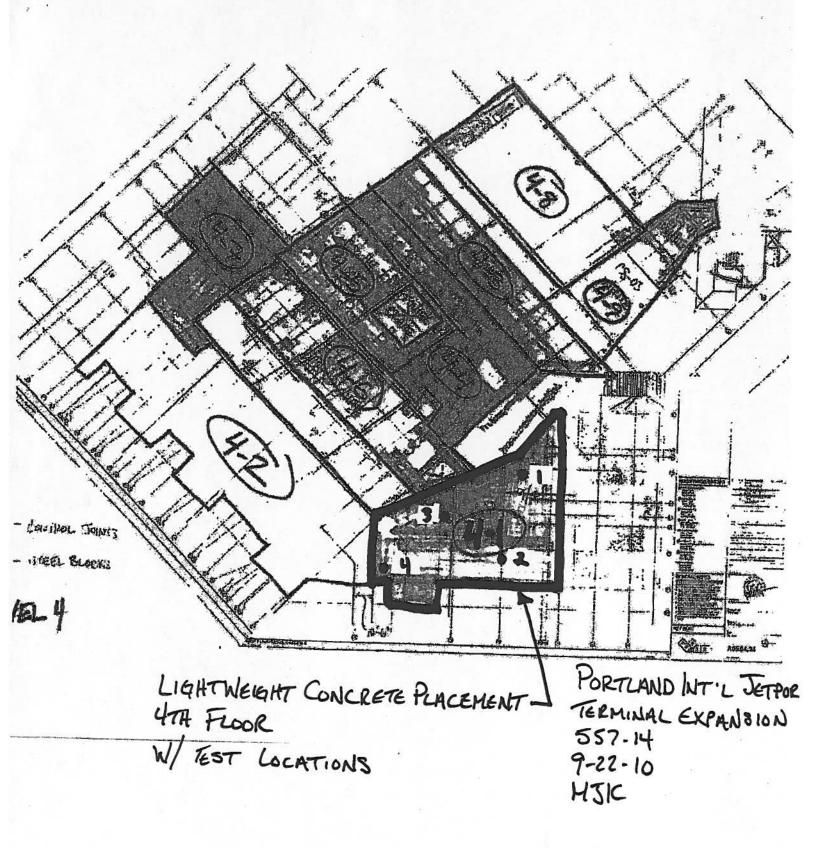
23 Total Loads, Unit weight 123.2 pcf

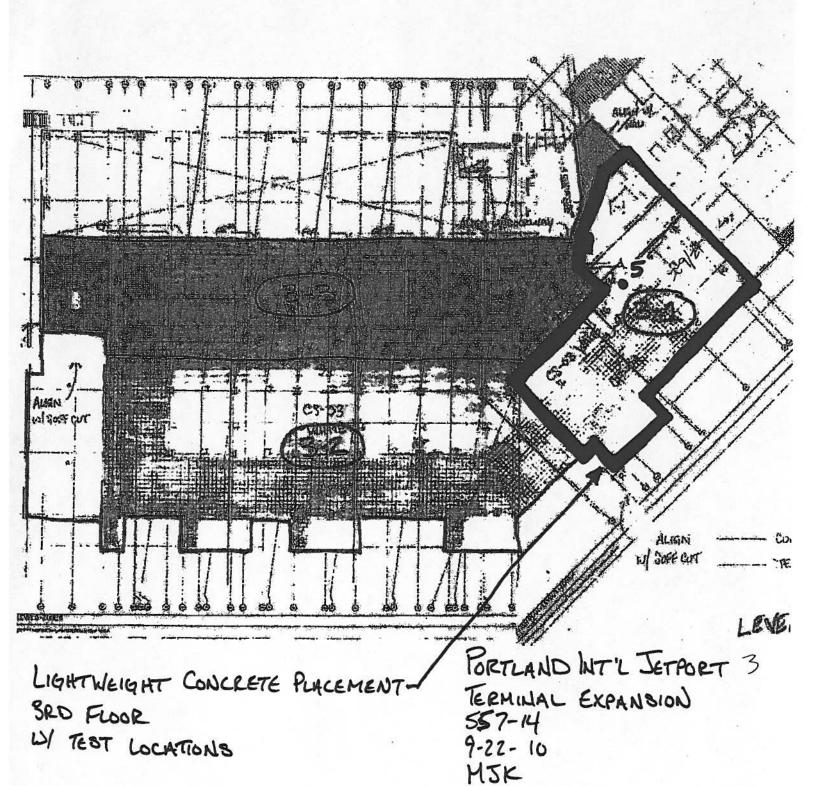
Unless noted, truck times not observed due to location. Trucks averaged _₹15 min at pump, 20-25 minutes

travel time and 5 - 10 minutes on site waiting.

Checked by:

Matthew T. Grady, Managefof MTS





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