

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

City of Portland, Portland Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

Date:	September 28, 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	Concrete Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

We are sending you attached concrete cylinder test results.

Cylinder No. (s)	Age (Days)
67163	2
67169	2
67175	2
67181	2

Remarks:

Copy To:
 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)

Signed: Bertha Dawn

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

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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:	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 27 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 231	3.25		

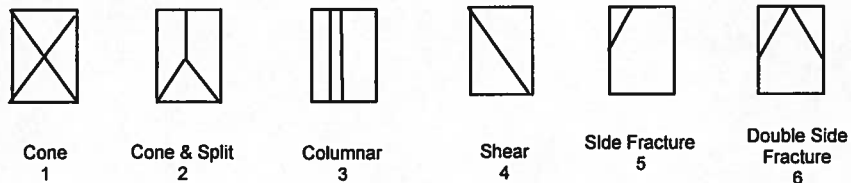
*Concrete sampled by ASTM C 172

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 (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67160	29-Sep-10			7			
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



Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (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	--	--	--	--	--

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-site checked by: Matthew T. Grady
 "as needed". Matthew T. Grady, Manager of MTS

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CONCRETE TEST/PLACEMENT REPORT

Project Name: Terminal Enhancement, Portland Int. Jetport
Project No: 557-14
Weather Conditions: Sunny
Method of Placement: Pump
Admixtures: Mid Range Water Reducer
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 Cylinders Cast: 22-Sep-10
Concrete Supplier: Auburn
General Contractor: Turner
Design Strength: 3,500
Max Agg. Size: 3/8

Date Report Issued: **SEP 27 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 231	3		

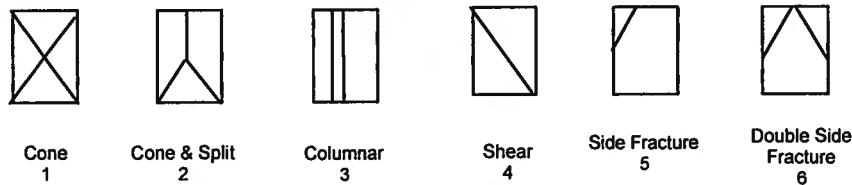
*Concrete sampled by ASTM C 172

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 (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67166	29-Sep-10			7			
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 1 Cone & Split 2 Columnar 3 Shear 4 Side Fracture 5 Double Side Fracture 6

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	--	--	--	--	--

Remarks: 23 Total Loads, unit weight 123.6 pcf
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Checked by: Matthew T. Grady
 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:	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 27 2010

4x8 Cylinders	6	Cast by	Michael 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 231	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 (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67172	29-Sep-10			7			
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			HOLD			
67177	HOLD			HOLD			

*Concrete compressive strength by ASTM C 39

Types of Breaks



Cone
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

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

Remarks: 23 Total Loads, Unit weight 123.6 pcf
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Checked by: _____
 Matthew T. Grady, Manager of MTS

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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 27 2010**

4x8 Cylinders	6	Cast by	Erik E. Cohenour	Time
Load No.	17	Slump (in) ASTM C 143	7.5	Batched @
Ticket No.	180822	Air (°F)	77	Arrived @
Truck No.	97	Concrete (°F) ASTM C 1064	73	Total Time
Cubic Yds.	10	Air Content (%) ASTM C 231	3.25	45

*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 (in ²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67178	29-Sep-10			7			
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
1



Cone & Split
2



Columnar
3



Shear
4



Side Fracture
5



Double Side Fracture
6

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
18	180823	116	10	--	--	--	--	--
19	180827	106	10	--	--	--	--	--
20	180828	94	10	--	--	--	--	--
21	180829	97	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
 Matthew T. Grady, Manager of MTS