

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:	October 20, 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)
67490	5
67471	5
67476	5
67481	5

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.

# 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

## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	13-Oct-10
<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Sunny	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	3,500
<b>Admixtures:</b>	Mid Range Water Reducer	<b>Max Agg. Size:</b>	3/8
<b>Placement Location:</b>	Slab on Deck 4-3		
<b>Test Cylinder Location:</b>	See attached sketch		

**Date Report Issued:**      **OCT 20 2010**

4x8 Cylinders	5	Cast by	Michael J. Kramlich	Time	
Load No.	3	Slump (in) ASTM C 143	8	Batched @	7:17
Ticket No.	177600	Air (°F)	44	Arrived @	--
Truck No.	85	Concrete (°F) ASTM C 1064	63	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3.0		

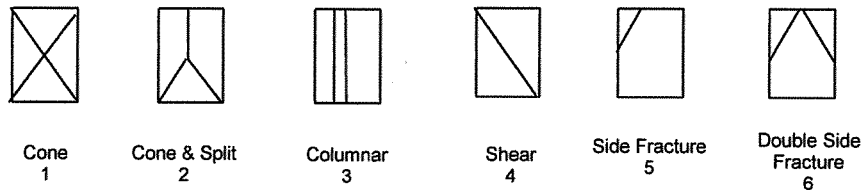
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 14-Oct-10  
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67490	18-Oct-10	4.015	12.66	5	56,080	4430	2
67491	20-Oct-10			7			
67492	10-Nov-10			28			
67493	10-Nov-10			28			
67470	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	177598	76	10	--	--	--	--	--
2	177599	115	10	--	--	--	--	--
4	177601	97	10	--	--	--	--	--
5	177602	116	10	--	--	--	--	--

Remarks: 22 Total Loads  
 Unit weight 123.2 pcf  
 Curing Temperatures: Max = 62°, Min = 54°

Checked by: Matthew T. Grady  
 Matthew T. Grady, Manager of MTS

# 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

## 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:** Slab on Deck 4-3  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 13-Oct-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:**

OCT 20 2010

4x8 Cylinders	5	Cast by	Michael J. Kramlich	Time	
Load No.	6	Slump (in) ASTM C 143	8	Batched @	7:47
Ticket No.	177603	Air (°F)	47	Arrived @	--
Truck No.	107	Concrete (°F) ASTM C 1064	65	Total Time	--
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 14-Oct-10  
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67471	18-Oct-10	4.015	12.66	5	51,060	4030	4
67472	20-Oct-10			7			
67473	10-Nov-10			28			
67474	10-Nov-10			28			
67475	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39

### Types of Breaks



Cone  
1



Cone & Split  
2



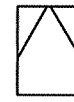
Columnar  
3



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.)
7	177603	98	10	--	--	--	--	--
8	177606	76	10	--	--	--	--	--
9	177608	97	10	--	--	--	--	--
10	177610	107	10	--	--	--	--	--
11	177611	82	10	--	--	--	--	--

Remarks: 22 Total Loads  
 Unit weight 122.0 pcf  
 Curing Temperatures: Max = 62°, Min = 54°

Checked by:   
 Matthew T. Grady, Manager of MTS

**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  
**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:** Slab on Deck 4-3  
**Test Cylinder Location:** See attached sketch

**Date Cylinders Cast:** 13-Oct-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 3,500  
**Max Agg. Size:** 3/8

**Date Report Issued:** OCT 20 2010

4x8 Cylinders	5	Cast by	Michael J. Kramlich	Time	
Load No.	12	Slump (in) ASTM C 143	7	Batched @	9:44
Ticket No.	177614	Air (°F)	55	Arrived @	--
Truck No.	76	Concrete (°F) ASTM C 1064	61	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	3		

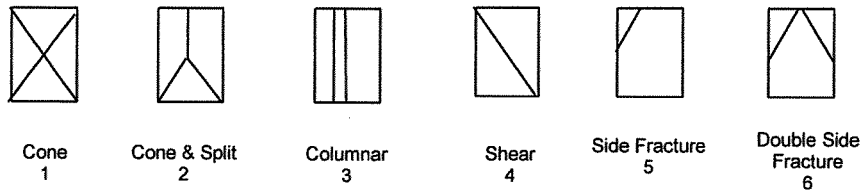
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 14-Oct-10  
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67476	18-Oct-10	4.015	12.66	5	49,080	3880	5
67477	20-Oct-10			7			
67478	10-Nov-10			28			
67479	10-Nov-10			28			
67480	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.)
13	177616	97	10	--	--	--	--	--
14	177617	107	10	--	--	--	--	--
15	177618	82	10	--	--	--	--	--
16	177619	99	10	--	--	--	--	--

Remarks: 22 Total Loads  
 Unit weight 122.0 pcf  
 Curing Temperatures: Max = 62°, Min = 54°

Checked by: Matthew T. Grady  
 Matthew T. Grady, Manager of MTS

# 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

## CONCRETE TEST/PLACEMENT REPORT

<b>Project Name:</b>	Terminal Enhancement, Portland Int. Jetport	<b>Date Cylinders Cast:</b>	13-Oct-10
<b>Project No:</b>	557-14	<b>Concrete Supplier:</b>	Auburn
<b>Weather Conditions:</b>	Sunny	<b>General Contractor:</b>	Turner
<b>Method of Placement:</b>	Pump	<b>Design Strength:</b>	3,500
<b>Admixtures:</b>	Mid Range Water Reducer	<b>Max Agg. Size:</b>	3/8
<b>Placement Location:</b>	Slab on Deck 4-3		
<b>Test Cylinder Location:</b>	See attached sketch		

**Date Report Issued:**      **OCT 20 2010**

4x8 Cylinders	5	Cast by	Michael J. Kramlich	Time	
Load No.	17	Slump (in) ASTM C 143	7.5	Batched @	10:51
Ticket No.	177620	Air (°F)	60	Arrived @	--
Truck No.	76	Concrete (°F) ASTM C 1064	61	Total Time	--
Cubic Yds.	10	Air Content (%) ASTM C 231	4		

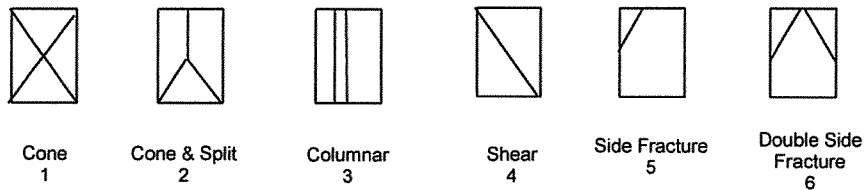
\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1  
 Date received 14-Oct-10  
 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
67481	18-Oct-10	4.015	12.66	5	47,260	3730	5
67482	20-Oct-10			7			
67483	10-Nov-10			28			
67484	10-Nov-10			28			
67485	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.)
18	177621	97	10	--	--	--	--	--
19	177622	116	10	--	--	--	--	--
20	177623	107	10	--	--	--	--	--
21	177624	85	10	--	--	--	--	--
22	177626	99	5	--	--	--	--	--

Remarks: 22 Total Loads  
 Unit weight 122.0 pcf  
 Curing Temperatures: Max = 62°, Min = 54°

Checked by: Matthew T. Grady  
 Matthew T. Grady, Manager of MTS