

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:	July 6, 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)
65731	29
65732	29
65735	29
65736	29

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

Signed: Bertha Dawn

# 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:** Footings: Zone 4 from F/1ZC to F/1ZA  
**Test Cylinder Location:** F/1ZC

**Date Cylinders Cast:** 07-Jun-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 4,000  
**Max Agg. Size:** 3/4

**Date Report Issued:** JUL 08 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time
Load No.	2	Slump (in) ASTM C 143	6.5	
Ticket No.	172880	Air (°F)	69	
Truck No.	98	Concrete (°F) ASTM C 1064	75	
Cubic Yds.	10	Air Content (%) ASTM C 231	4.6	
				Arrived @ 1:25
				Total Time 40

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received 08-Jun-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
65729	14-Jun-10	4.038	12.81	7	55,500	4330	3
65730	14-Jun-10	4.038	12.81	7	55,260	4310	2
65731	06-Jul-10	4.014	12.65	29	75,420	5960	2
65732	06-Jul-10	4.014	12.65	29	74,440	5880	5

\*Concrete compressive strength by ASTM C 39

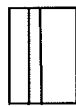
### Types of Breaks



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.)
*1	172879	78	--	9.00	--	--	--	--
3	172881	86	10	--	--	--	--	45
4	172882	102	10	--	--	--	--	40
5	172885	97	10	--	--	--	--	45
6	172887	99	10	--	--	--	--	30

Remarks: Total loads = 8

\*Load #1 was sent away after placing 2+ yards.

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:** Footings: Zone 4 from F/1ZC to F/1ZA  
**Test Cylinder Location:** F/1ZA

**Date Cylinders Cast:** 07-Jun-10  
**Concrete Supplier:** Auburn  
**General Contractor:** Turner  
**Design Strength:** 4,000  
**Max Agg. Size:** 3/4

**Date Report Issued:** JUL 08 2010

4x8 Cylinders	4	Cast by	Michael J. Kramlich	Time	
Load No.	7	Slump (in) ASTM C 143	5.5	Batched @	2:55
Ticket No.	172889	Air (°F)	70	Arrived @	3:17
Truck No.	102	Concrete (°F) ASTM C 1064	79	Total Time	30
Cubic Yds.	10	Air Content (%) ASTM C 231	5.0		

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

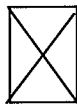
Date received 08-Jun-10

Condition of Cylinders: Good

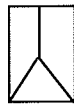
Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
65733	14-Jun-10	4.038	12.81	7	58,420	4560	2
65734	14-Jun-10	4.038	12.81	7	56,780	4430	3
65735	06-Jul-10	4.014	12.65	29	75,540	5970	2
65736	06-Jul-10	4.014	12.65	29	75,140	5940	2

\*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.)
8	172892	119	10	--	--	--	--	45

Remarks: Total loads = 8

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