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.: |
|---|---|
| July 14, 2010 | 557-14 |
| Attention: Mr. Cuyler Feagles (cmf@portlandmaine.gov) | |
| Re: Concrete Testing<br>Terminal Enhancement, Portland Int. Jetport<br>Portland, Maine | |

City of Portland, Portand Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

We are sending you attached concrete cylinder test results.

| Cylinder No. (s) | Age (Days) |
|---|---|
| 66143 | 7 |

Remarks:

Copy To:
Roy Williams: rsw@portlandmaine.gov
Jim Stanislaski: jim_stanislaski@gensler.com
Cliff Takara: clifford_takara@gensler.com
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rdixon@tcco.com
gemitchell@tcco.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
**Project No:** 557-14
**Weather Conditions:** Sunny
**Method of Placement:** Pump
**Admixtures:** Mid Range Water Reducer
**Placement Location:** Footings: XJ/Y6.5 and Y7, XH.5/Y7; Piers: XF/Y7.5, Y6.5, Y5.5, Y4.5; Walls: North side of XF/Y5 + Y7
**Test Cylinder Location:** All 4 Piers and Footing at XH.5/Y7

**Date Cylinders Cast:** 07-Jul-10
**Concrete Supplier:** Auburn
**General Contractor:** Turner
**Design Strength:** 4,000
**Max Agg. Size:** 3/4
**Date Report Issued:** JUL 14 2010

| | | | | | |
|---|---|---|---|---|---|
| 4x8 Cylinders | 4 | Cast by | Michael J. Kramlich | Time | |
| Load No. | 2 | Slump (in) ASTM C 143 | 6.0 | Batched @ | 12:39 |
| Ticket No. | 167132 | Air (°F) | 82 | Arrived @ | 1:05 |
| Truck No. | 94 | Concrete (°F) ASTM C 1064 | 85 | Total Time | 75 |
| Cubic Yds. | 10 | Air Content (%) ASTM C 231 | 4.0 | | |

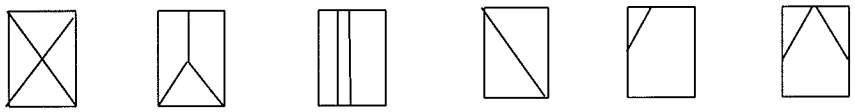
*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1
Date received 08-Jul-10
Condition of Cylinders: Good

| Lab No. | Test Date | Avg Dia (in) | Area (in²) | Age (Days) | Load (lbs) | Compressive Strength (psi) | Break type |
|---|---|---|---|---|---|---|---|
| 66143 | 14-Jul-10 | 4.014 | 12.65 | 7 | 51,260 | 4050 | 3 |
| 66144 | 04-Aug-10 | | | 28 | | | |
| 66145 | 04-Aug-10 | | | 28 | | | |
| 66146 | 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.) |
|---|---|---|---|---|---|---|---|---|
| 1 | 167131 | 84 | 10 | -- | -- | 88 | -- | 75 |
| 3 | 167133 | 98 | 10 | -- | -- | 83 | -- | 35 |
| *4 | 167134 | 96 | 8 | 7.25/6 | -- | 84/86 | -- | 75 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Remarks: Curing Temperatures: Max = 85°, Min = 74°
*Load 4 arrived with high slump. It was mixed for 20 minutes and the slump was lowered to within spec.

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