

**R. W. Gillespie & Associates, Inc.**

LETTER OF TRANSMITTAL

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Date:	17 August 2011	Project No.:	0557-014
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	Laboratory Testing Terminal Enhancement, Portland Int. Jetport Johnson Rd/Turnpike Connector Portland, Maine		

City of Portland, Portland Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

We are sending you attached laboratory test results.

Laboratory No. (s)

Test (s) Performed

11986

Washed Gradation & MD

Remarks:

Copy To:

Roy Williams: rsw@portlandmaine.gov

Arthur Laferrier: apj@portlandmaine.gov

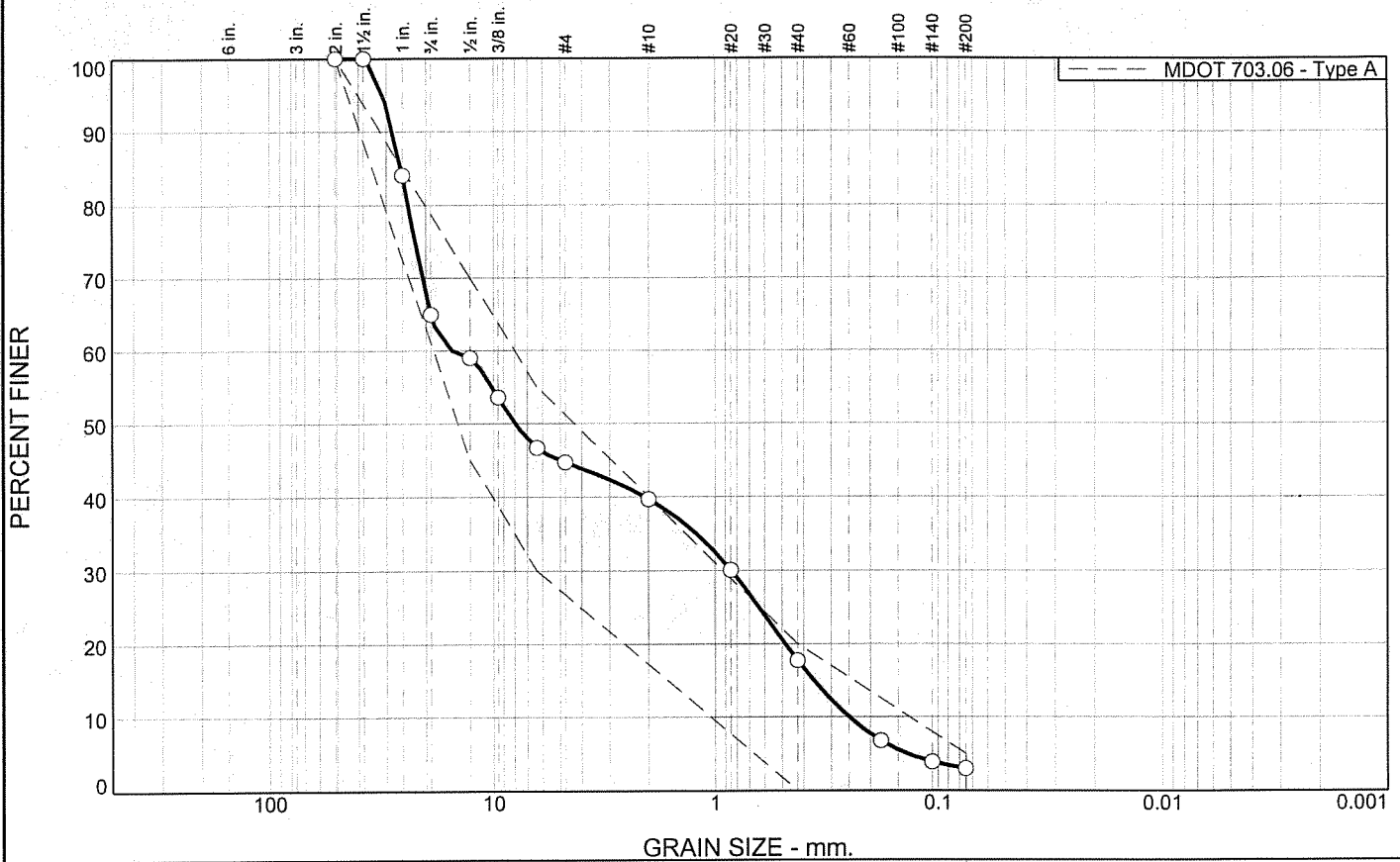
Tim Michaud: timothy.michaud@amec.com

Adam St. Michel: astmichel@shawbrothers.com

Signed: Bertha A. Dawn

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

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	35.1	20.2	5.0	22.0	14.7	3.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0 - 100.0	
1 1/2"	100.0		
1"	84.1		
3/4"	64.9		
1/2"	59.0	45.0 - 70.0	
3/8"	53.6		
1/4"	46.7	30.0 - 55.0	
#4	44.7		
#10	39.7		
#20	30.1		
#40	17.7	0.0 - 20.0	
#80	6.8		
#140	3.9		
#200	3.0	0.0 - 5.0	

**Soil Description**

Base Gravel - poorly graded gravel with sand

**Atterberg Limits**

PL=                      LL=                      PI=

**Coefficients**

D<sub>85</sub>= 25.7375      D<sub>60</sub>= 15.2614      D<sub>50</sub>= 7.9661  
D<sub>30</sub>= 0.8456      D<sub>15</sub>= 0.3607      D<sub>10</sub>= 0.2497  
C<sub>u</sub>= 61.12          C<sub>c</sub>= 0.19

**Classification**

USCS= GP                      AASHTO=

**Remarks**

Moisture Content: 1.7%

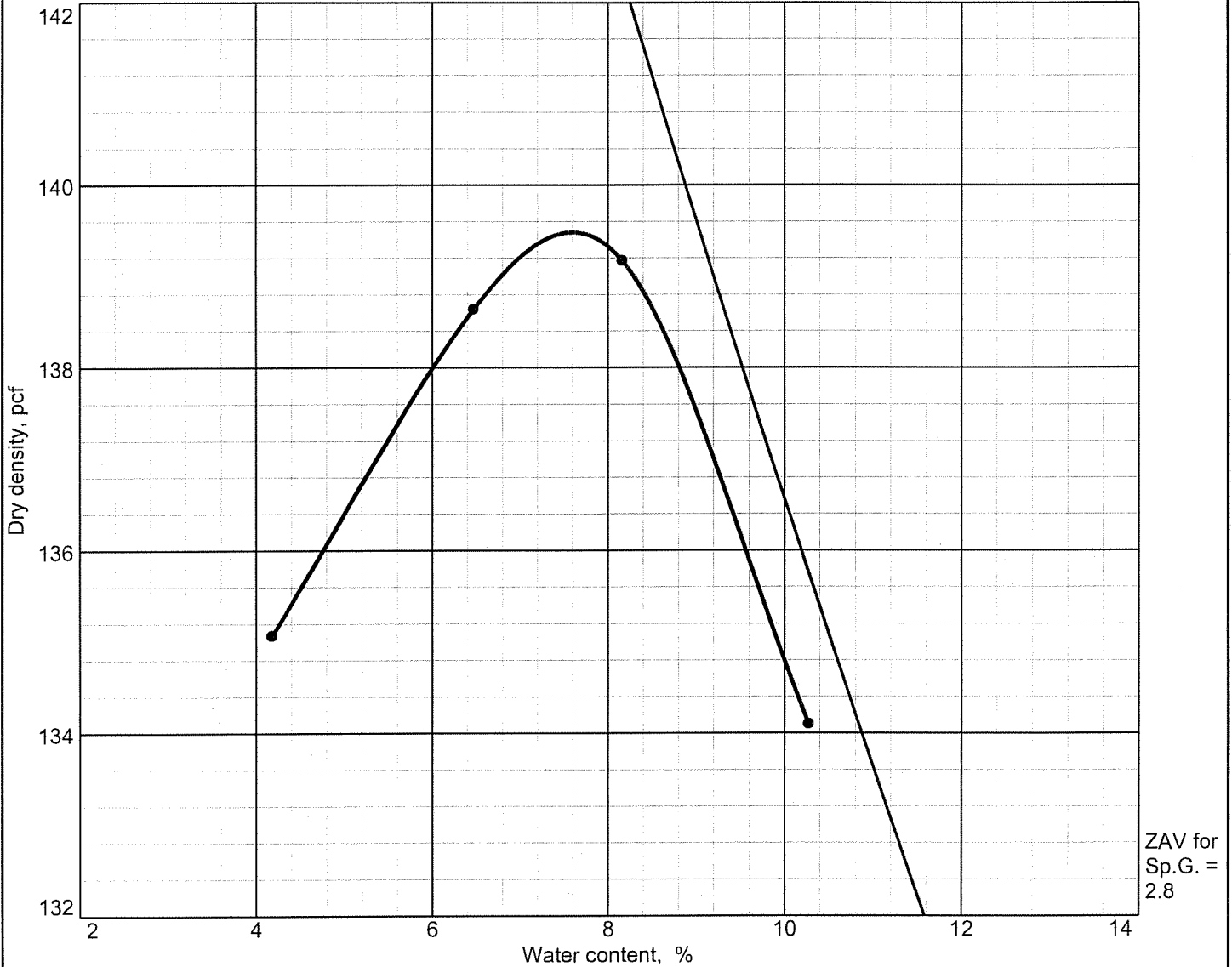
\* MDOT 703.06 - Type A

Sample No.: 11986                      Source of Sample: Shaw Bros. - H Pit                      Date: 8/12/2011  
Location: Stockpile                      Elev./Depth:

<b>R.W. Gillespie &amp; Associates, Inc. Saco, Maine</b>	<b>Client:</b> City of Portland <b>Project:</b> Portland Int. Jetport - Johnson Rd / Turnpike Connector <b>Project No.:</b> 0557-014 <b>Lab No.:</b> 11986
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Tested By: MAO/DCH                      Checked By: MTG *MTG*

# Moisture-Density Test Report



Test specification: ASTM D 1557-09 Method C Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP		1.7%				35.1	3.0

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 139.5 pcf Optimum moisture = 7.6 %	Base Gravel - poorly graded gravel with sand
<b>Project No.</b> 0557-014 <b>Client:</b> City of Portland <b>Project:</b> Portland Int. Jetport - Johnson Rd / Turnpike Connector <b>Source:</b> Shaw Bros. - H Pit <b>Sample No.:</b> 11986	<b>Remarks:</b> Tested By: JJH More than 30% retained on the 3/4" screen, replacement method used.
<b>R.W. Gillespie &amp; Associates, Inc.</b> <b>Saco, Maine</b>	
Lab No. 11986	