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LETTER OF TRANSMITTAL

City of Portland, Portland Int. Jetport
1001 Westbrook Street
Portland, Maine 04102

Date:	22 October 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	In-Place Density Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

We are sending you attached In-Place Density Test Results.

Date(s) Performed:

October 5 & 8, 2010

Test (s) Performed

In-Place Density Testing - Nuclear Method ASTM D6938

- Meets Specification
- Selected Tests Do Not Meet Specification - Noted with an *

Note: Materials descriptions and maximum laboratory dry density values were transmitted under separate cover and are referenced in the attached summaries by the material number.

Remarks:

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Signed: 

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL AIRPORT
 PORTLAND, MAINE
 RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: October 5, 2010
 Technician: RRC
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11304	Sand (Resample) Poorly graded sand	112.6	13.1

Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Over Geothermal - Upper Lot - Top of Retaining Wall	FG - 4.5'	105.3	6	94	11304
2	Over Geothermal - Upper Lot - Top of Retaining Wall	FG - 3.5'	107.8	3	96	11304
3	Over Geothermal - Upper Lot - Top of Retaining Wall	FG - 3.5'	107.8	4	96	11304
4	Over Geothermal - Upper Lot - Top of Retaining Wall	FG - 4.5'	105.2	3	93	11304
5	Over Geothermal - Upper Lot - Top of Retaining Wall	FG - 3.5'	107.2	5	95	11304

Remarks: 92% of maximum density required for elevation -3' from finish grade.

FG = Finish Grade
 FF = Finish Floor
 FGB = Finish Grade of Base
 FGSB = Finish Grade of Subbase
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall
 BOW = Bottom of Wall
 BOF = Bottom of Footing
 SG = Subgrade

Checked by:



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Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8.4
11194	Poorly Graded Sand	111.0	11.4

Client: City of Portland
 Test Date: 10/8/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

Report Issue Date:

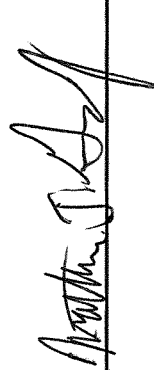
Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Upper Parking Lot - Area A	80.00	123.4	5	95	11175
2	Upper Parking Lot - Area A	80.00	123.2	4	95	11175
3	Geothermal Loop - Area A	FG -3'	102.7	6	93	11194
4	Geothermal Loop - Area A	FG -3'	102.9	4	93	11194
5	Geothermal Loop - Area A	FG -3'	103.1	5	93	11194
6	Geothermal Loop - Area A	FG -3'	107.0	5	96	11194
7	Geothermal Loop - Area A	FG -1.5'	106.0	5	96	11194
8	Geothermal Loop - Area A	FG -1.5'	104.9	6	95	11194
9	Geothermal Loop - Area A	FG -1.5'	106.8	4	96	11194
10	Geothermal Loop - Area A	FG -1.5'	105.3	4	95	11194
11	Geothermal Main Trench - Area A	FG -3'	106.7	5	96	11194
12	Geothermal Main Trench - Area A	FG -3'	101.9	3	92	11194

Remarks: Tests reflecting Percent of Maximum Density less than 95% were taken on lifts 3 feet or greater below finished grade, and not under building structures.

FG = Finish Grade
 FF = Finish Floor
 FGB = Finish Grade of Base
 FGSB = Finish Grade of Subbase
 FGSG = Finish Grade of Subgrade

TOW = Top of Foundation Wall
 BOW = Bottom of Wall
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Checked by:



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Client: City of Portland
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Report Issue Date:

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
13	Upper Parking Lot - Area A	80.00	123.1	9	95	11175
14	Upper Parking Lot - Area A	80.00	123.2	10	95	11175
15	Upper Parking Lot - Area A	80.00	124.9	5	96	11175
16	Geothermal Main Trench - Area A	FG -3'	104.6	5	94	11194
17	Geothermal Main Trench - Area A	FG -3'	103.1	6	93	11194
18	Geothermal Main Trench - Area A	FG -3'	104.6	3	94	11194

Remarks: Tests reflecting Percent of Maximum Density less than 95% were taken on lifts 3 feet or greater below finished grade, and not under building structures.

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