

R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008
200 Int'l Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

LETTER OF TRANSMITTAL

Date:	August 27, 2010	Project No.:	557-14
Attention:	Mr. Cuyler Feagles (cmf@portlandmaine.gov)		
Re:	In-Place Density Testing Terminal Enhancement, Portland Int. Jetport Portland, Maine		

City of Portland, Portland Int. Jetport

1001 Westbrook Street

Portland, Maine 04102

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

Date(s) Performed:

August 16 - 20, 2010

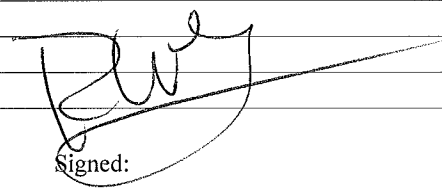
Test (s) Performed

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:



Signed:

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
 Elizabeth O'Toole: eotoole@tcco.com
 TMM@portlandmaine.gove
 ldobson@portlandmaine.gov
 bcybulski@tcco.com
 rdixon@tcco.com
 Geoff Mitchell: gemitchell@tcco.com

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT
 PORTLAND, MAINE

RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 8/17/2010
 Technician: MJK
 Gauge Model/Serial Number: L 500

AUG 27 2010

Report Issue Date:


Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8.4
11177	On-Site Type D Gravel	134.8	6.4

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	5' SW of XM.5/Y6.5	58.00	132.4	5	98	11177
2	XM.5/Y6.5	59.50	129.4	3	96	11177
3	5' SW of XM.5/Y6.5	61.00	131.1	3	97	11177
4	5' SW of XM.5/Y6.5	FG	129.2	5	96	11177
5	West side of FTG @ XL/Y5	TOF	130.9	4	97	11177
6	NE corner of pier @ parking garage	TOF	124.4	4	96	11175
7	XJ/Y6 SW side of FND wall	TOF	127.7	4	95	11177
8	SW side of FTG @ XL/Y6	TOF	130.2	3	97	11177
9	NW side of FTG @ XK/Y6	TOF	129.4	6	96	11177
10	XM/Y5.8 NE side of FND wall	TOF	129.9	4	96	11177
11	West side of pier @ parking garage	TOF +1'	127.1	4	98	11175

Remarks:

- 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: 

SUMMARY OF IN-PLACE DENSITIES - ASTM D6938
 TERMINAL ENHANCEMENT AT THE PORTLAND INTERNATIONAL JETPORT

PORTLAND, MAINE

RWG&A PROJECT NO. 557-14

Client: City of Portland
 Test Date: 08/18/10
 Technician RRC
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8.4
11177	On-Site Type D Gravel	134.8	6.4
11304	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	Foundation Backfill Around Piers Between XG-XF / 2I-2A	TOW - 6'	128.2	5	95	11177
2	Foundation Backfill Around Piers Between XG-XF / 2I-2A	TOW - 5'	130.3	5	97	11177
3	Foundation Backfill Around Piers Between XG-XF / 2I-2A	TOW - 5'	127.1	3	98	11175
4	Overdrain Line from Retaining Wall	FG - 4'	109.4	6	97	11304
5	Overdrain Line from Retaining Wall	FG - 4'	110.2	5	98	11304
6	Overdrain Line from Retaining Wall	FG - 4'	107.3	8	95	11304
7	Overdrain Line from Retaining Wall	FG - 3'	112.1	8	100	11304
8	Overdrain Line from Retaining Wall	FG - 3'	110.2	8	98	11304
9	Foundation Backfill Around Piers Between XG-XF / 2I-2A	TOW - 4'	123.2	4	95	11175
10	Over Natural Gas Line	FG - 3'	109.3	7	97	11304
11	Over Natural Gas Line	FG - 3'	106.9	8	95	11304
12	Over Natural Gas Line	FG - 3'	107.2	8	95	11304
13	Overdrain Line from Retaining Wall	FG - 3'	109.7	7	97	11304
14	Foundation Backfill Around Piers Between XG-XF / 2I-2A	TOW - 3'	127.2	4	98	11175
15	Over Natural Gas Line	FG - 2'	109.1	8	97	11304
16	Over Natural Gas Line	FG - 2'	107.1	7	95	11304
17	Over Natural Gas Line	FG - 2'	107.2	8	95	11304
18	Foundation Backfill Around Piers Between XG-XF / 2I-2A	TOW - 3'	123.2	5	95	11175

Remarks:

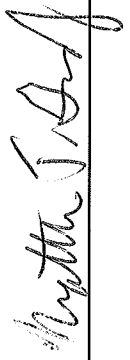
- FG = Finish Grade
- FF = Finish Floor
- FGFB = Finish Grade of Base
- FGSB = Finish Grade of Subbase
- FGSG = Finish Grade of Subgrade

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

R. W. Gillespie Associates, Inc.

Corporate Office 86 Industrial Park Road, Ste. 4, Saco, ME 04072
 Branch Office 200 International Drive, Ste. 170, Portsmouth, NH 03801

Checked by:



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

Client: City of Portland
 Test Date: 8/19/2010
 Technician RRC
 Gauge Model/Serial Number: L 500

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8.4
11304	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	Foundation Backfill ZA/XF - Z6/XF	TOW - 5'	125.9	5	97	11175
2	Foundation Backfill ZA/XF - Z6/XF	TOW - 4'	123.2	6	95	11175
3	Over Natural Gas Line - 50' North of Retaining Wall	FG - 4'	107.3	8	95	11304
4	Foundation Backfill	TOW - 3'	128.8	3	99	11175
5	Foundation Backfill - XM.5-XM / Y4.8-Y5.9	TOW - 6'	124.1	3	96	11175
6	Foundation Backfill ZA/XF - Z6/XF	TOW - 4'	125.9	4	97	11175
7	Foundation Backfill ZA/XF - Z6/XF	TOW - 3'	126.6	3	98	11175
8	Foundation Backfill ZA/XF - Z6/XF	TOW - 2'	126.6	4	98	11175
9	Area "B" Parking Lot - Final Lift	FG - 1'	126.1	3	97	11175
10	Area "B" Parking Lot - Final Lift	FG - 1'	124.3	3	96	11175
11	Area "B" Parking Lot - Final Lift	FG - 1'	125.4	3	97	11175
12	Area "B" Parking Lot - Final Lift	FG - 1'	124.1	3	96	11175
13	Area "B" Parking Lot - Final Lift	FG - 1'	123.2	3	95	11175
14	Area "B" Parking Lot - Final Lift	FG - 1'	127.6	4	98	11175
15	Area "B" Parking Lot - Final Lift	FG - 1'	126.5	4	97	11175
16	Area "B" Parking Lot - Final Lift	FG - 1'	130.9	4	100+	11175
17	Foundation Backfill XJ/Y7 - Y2.5	TOW - 5'	127.7	5	98	11175
18	Foundation Backfill XJ/Y7 - Y2.5	TOW - 4'	126.4	4	97	11175
19	Foundation Backfill XJ/Y7 - Y2.5	TOW - 3'	125.6	4	96	11175
20	Foundation Backfill XJ/Y7 - Y2.5	TOW - 6'	123.2	4	95	11175

Remarks:

- 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

R. W. Gillespie Associates, Inc.
 Corporate Office 86 Industrial Park Road, Ste. 4, Saco, ME 04072
 Branch Office 200 International Drive, Ste. 170, Portsmouth, NH 03801

Checked by:



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

Client: City of Portland
 Test Date 8/20/2010
 Technicia RRC
 Gauge Model/Serial Number: L 500

Report Issue Date:

Lab No.	Soil Description	ASTM D1557 Max Density	ASTM D1557 Opt. Moisture
11175	Type D Gravel	129.8	8.4
11304	Poorly graded sand	112.6	13.1

Test No.	Location	Elevation	ASTM D6938 Dry Density (pcf)	ASTM D6938 Water Content (%)	Percent of Max. (%)	Lab. No.
1	Foundation Backfill - XJ/Y3 - Y7	TOW -5'	128.6	4	99	11175
2	Foundation Backfill - XJ/Y3 - Y7	TOW -2'	124.1	3	96	11175
3	Foundation Backfill - XJ/Y3 - Y7	TOW -4'	124.9	3	96	11175
4	Foundation Backfill - XJ/Y3 - Y7	TOW -5'	123.2	6	95	11175
5	Landscaped Area Over Geo-Thermal Lines- ±100' N. of Upper Lot Retaining Wall	FG -3'	103.9	4	92	11304
6	Paved Areas Over Geothermal Lines- ±50' NE of Upper Retaining Wall	FG -3'	107.3	8	95	11304
7	Foundation Backfill - XJ/Y3 - Y7	TOW -3'	127.2	4	98	11175
8	Foundation Backfill - XJ/Y3 - Y7	TOW -4'	126.3	3	97	11175
9	Foundation Backfill - XJ/Y3 - Y7	TOW -3'	124.6	3	96	11175
10	Foundation Backfill - XJ/Y3 - Y7	FG -1'	110.2	8	98	11304
11	Foundation Backfill - XJ/Y3 - Y7	TOW -2'	123.2	4	95	11175
12	Foundation Backfill - XJ/Y3 - Y7	TOW -4'	125.9	3	97	11175
13	Paved Areas Over Geothermal Lines- ±50' NE of Upper Retaining Wall	FG -2'	113.2	8	100+	11304
14	Paved Areas Over Geothermal Lines- ±20' East of Upper Lot	FG -1'	125.1	3	96	11175
15	Foundation Backfill - XJ/Y3 - Y7	TOW -3'	133.9	3	100+	11175
16	Foundation Backfill - XJ/Y3 - Y7	TOW -2'	124.7	3	96	11175
17	Foundation Backfill - XJ/Y3 - Y7	TOW -2'	135.4	5	100+	11175
18	Foundation Backfill - XJ/Y3 - Y7	TOW -2'	127.1	4	98	11175
19	Foundation Backfill - XJ/Y3 - Y7	TOW -3'	123.7	3	95	11175
20	Foundation Backfill - XJ/Y3 - Y7	TOW -2'	128.8	5	99	11175

Remarks:

- 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

R. W. Gillespie Associates, Inc.
 Corporate Office 86 Industrial Park Road, Ste. 4, Saco, ME 04072
 Branch Office 200 International Drive, Ste. 170, Portsmouth, NH 03801

Checked by:

