



CSA CERTIFIED
LABORATORY FOR TESTING
CONCRETE

CONCRETE PLACEMENT REPORT

97 TROOP AVE., DARTMOUTH, N.S. B3B 2A7 - TEL (902) 468-6486 FAX 468-4919

Client

Nova Scotia Transportation And Infrastructure Renewal
PO Box 186, 1672 Granville Street
Halifax, Nova Scotia
B3J 2N2

Our Project No.

02000061.000.001

Client Contract No.:

4600019710

Client P.O.:**Contractor:**

Marco Maritimes

CC:

Fax

ATTENTION: Krista Ranahan, P.Eng.

PHONE: (902) 722-1207

FAX:

Email:

krista.ranahan@no

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Supplier: Casey Metro
Mix No: C30F1D1
Date Placed: 19-Feb-20
Formwork: Wood
Method Of Placing: Pump
Weather: Clear
Vibrators: Whip
Method Of Curing: Insulated Tarps
Specified Properties: Strength, @28 Days : 30 MPa, **Slump:** 80 +/- 20 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cyls Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	104245	22CM	12:54	13:45	14:45	1:51	2.9 / 5.5	80 / 95	22.5	5.0	7.65	7.65	3
2	104248	39CM	13:40	14:40	15:00	1:20	5.4	95	19.5	3.5	7.65	15.00	2

Section: Footings , Wall and Pier

Location: Strip Footing : Line X1.5 (Y3 - Y1) - 2.8 , Footing C9+ , Wall : Line Z1 (W2 - W4) , Pier Z1 (W5) B9 , C9

Comments

Field Test results reported on site.

Record No: 29636 **Standby:** 0.5 **Englobe Tech:** Joel DeCoste

PER 

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Project manager : Peter Salah



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Client P.O.:

Contractor: Marco Maritimes

CC: Fax

ATTENTION: Krista Ranahan, P.Eng.

PHONE: (902) 722-1207

FAX:

Email: krista.ranahan@no

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Mix No: C25F1D1 **Date Placed:** 20-Feb-20

Supplier: Casey Metro

Formwork: Wood

Method Of Placing: Pump

Weather: Clear

Vibrators: Whip

Method Of Curing: Insulated Tarps

Specified Properties: Strength, @28 Days : 25 MPa, **Slump:** 80 +/- 20 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	104285	36CM	13:02	13:40	14:25	1:23	2.9/3.3/5.1	60/85/95	20.5	-8.0	6.12	6.12	3
2	104286	23CM	13:08	13:50	14:35	1:27	3.3 / 5.2	85 / 100	15.0	-8.0	6.12	12.24	2
3	104287	25CM	13:10	14:40	15:15	2:05	2.9 / 5.3	70 / 95	15.5	-7.0	6.12	18.36	
4	104288	21CM	13:26	15:05	15:55	2:29	3.3 / 5.1	85 / 100	13.5	-7.0	5.64	24.00	

Section: Footings and Wall

Location: Footing Pads : B13 & YZ13 , Strip Footings : X1.5 - to Step at Y1 and Line Y1 (X1.5 - X4) , Wall : Line 14 (B + 4.4m - Y4)

Comments

Field Test results reported on site.

Record No: 29637 **Standby:** 0.5 **Englobe Tech:** Joel DeCoste

PER 

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Project manager : Peter Salah



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4600019710

Client P.O.:**Contractor:**

Marco Maritimes

CC:

Fax

ATTENTION: Krista Ranahan, P.Eng.

PHONE: (902) 722-1207

FAX:

Email:

krista.ranahan@no

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Mix No: C30F1D1 **Date Placed:** 20-Feb-20
Supplier: Casey Metro **Formwork:** Wood **Method Of Placing:** excavator & buc
Weather: Clear **Vibrators:** Whip **Method Of Curing:** Insulated Tarps
Specified Properties: Strength, @28 Days : 30 MPa, **Slump:** 80 +/- 20 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	104289	22CM	14:03	15:30	16:10	2:07	2.5 / 5.4	70 / 95	15.0	-6.0	4.00	4.00	5

Section: Piers

Location: (W1-D) and (C9+)

Comments

Field Test results reported on site.

Record No: 29639

Standby:

0.5

Englobe Tech: Joel DeCoste

PER

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Project manager : Peter Salah



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Marco Maritimes

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PHONE: (902) 722-1207

FAX:

Email:

krista.ranahan@no

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Mix No: C25F1D1 **Date Placed:** 21-Feb-20

Supplier: Casey Metro

Formwork: Wood

Method Of Placing: Pump

Weather: Clear

Vibrators: Whip

Method Of Curing: Insulated Tarps

Specified Properties: Strength, @28 Days : 25 MPa, **Slump:** 80 +/- 20 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	104302	38CM	12:53	13:55	14:25	1:32	5.2	90	16.5	-2.0	8.00	8.00	5

Section: Footings and Wall

Location: Footing Pads : B10 & C10 , Wall : Line X1 (Corner of Z1)

Comments

Field Test results reported on site.

Record No: 29645 **Standby:** 0 **Englobe Tech:** Joel DeCoste

PER

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Project manager : Peter Salah



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B3J 2N2

Our Project No. 02000061.000.001

Client Contract No.: 4600019710

Client P.O.:

Contractor: Marco Maritimes

CC:

Fax

ATTENTION: Krista Ranahan, P.Eng.

PHONE: (902) 722-1207

FAX:

Email:

krista.ranahan@no

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Supplier: Casey Metro

Mix No: C30F1D1

Date Placed: 21-Feb-20

Formwork: Wood

Method Of Placing: Pump

Weather: Clear

Vibrators: Whip

Method Of Curing: Insulated Tarps

Specified Properties: Strength, @28 Days : 30 MPa, **Slump:** 80 +/- 20 mm **Air:** 6 +/- 1 %

Load No.	Ticket No.	Truck No.	Time Record				Air (%)	Slump (mm)	Temp (C)		Volume		#Cylds Cast
			Batch	Tested	Unload	Elapsed			Conc	Air	Load	Cum.	
1	104306	25CM	14:16	15:10	15:30	1:14	5.3	95	19.5	-1.5	6.50	6.50	5

Section: Piers

Location: (D13) & (Y7,13+)

Comments

Field Test results reported on site.

Record No: 29646 **Standby:** 0 **Englobe Tech:** Joel DeCoste

PER

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Project manager : Peter Salah

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PO Box 186, 1672 Granville Street
Halifax, Nova Scotia
B3J 2N2

Our Project No.: 02000061.000.001

Client Contract No.: 4600019710

Client PO.:

Contractor:

CC:

Fax

Attn: Krista Ranahan, P.Eng.

Fax

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Email krista.ranahan@novascotia.ca

Set No: 9		No. Of Specimens: 3		Date Cast: 24 Jan 2020				
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type	
A	31 Jan 2020	7	102	2334	183	22.4	A	<input checked="" type="checkbox"/> A
B	21 Feb 2020	28	102	2321	244	29.9	A	<input checked="" type="checkbox"/> B
C	21 Feb 2020	28	102	2315	242	29.6	A	<input checked="" type="checkbox"/> C
								<input checked="" type="checkbox"/> D
								<input checked="" type="checkbox"/> E
								<input checked="" type="checkbox"/> F

Specified Properties		Test Information		Sample pickup at Site :	
Strength @28 days(MPa):	25	Conc Temp°C	19.5	Slump (mm)	100
Slump (mm):	80 +/- 20	Air Temp°C :	3	Air(%):	5.2
Air (%):	6 +/- 1	Cast Time:	14:01	Cast By:	Englobe
Max Agg Size (mm):	20	Initial curing Temp (CSA: 15 - 25° C)		Date :	
		Minimum: Maximum:		Time :	
Supplier Information		Initial Curing Conditions :		Rec'd Sample at Lab :	
Supplier: Casey Metro		Inside curing box inside trailer		Date :	
Batch Time: 13:08		Test samples cast in reusable hard plastic moulds.		Time :	
Truck No.: 36CM		Section:			
Ticket No.: 103762		Location: strip footings. Line Z1 from W1 to W4 and small section at W1			
Strength Delivered: 25 (MPa)		Comments:			
Mix No: C25F1D1		Field Test results reported on site.			
Load Vol: 8 m ³					
Cum Vol: 8 m ³					
Additives:					
Heat	<input checked="" type="checkbox"/> Superplasticizer				
Silica fume	<input type="checkbox"/> Flyash				
Set Retarder	<input type="checkbox"/> Air Entrainment				
Water Reducer	<input type="checkbox"/> Accelerators				
H2O Added <input type="checkbox"/> Authorized B					

Standby: 0

Record No 50540 **Englobe Tech:** TP1

PER



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N/A - Not Applicable or Not Available

Project manager : Peter Salah

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Client:

Nova Scotia Transportation And Infrastructure Renewal
PO Box 186, 1672 Granville Street
Halifax, Nova Scotia
B3J 2N2

Our Project No.: 02000061.000.001

Client Contract No.: 4600019710

Client PO.:

Contractor: Marco Maritimes

CC:

Fax

Attn: Krista Ranahan, P.Eng.

Fax

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Email krista.ranahan@novascotia.ca

Set No: 10		No. Of Specimens: 3		Date Cast: 27 Jan 2020				
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type	
A	03 Feb 2020	7	102	2282	166	20.3	A	<input checked="" type="checkbox"/> A
B	24 Feb 2020	28	102	2287	220	26.9	A	<input checked="" type="checkbox"/> B
C	24 Feb 2020	28	102	2297	226	27.7	A	<input checked="" type="checkbox"/> C
								<input checked="" type="checkbox"/> D
								<input checked="" type="checkbox"/> E
								<input checked="" type="checkbox"/> F

Specified Properties		Test Information		Sample pickup at Site :	
Strength @28 days(MPa):	25	Conc Temp°C	21.5	Slump (mm)	95
Slump (mm):	80 +/- 20	Air Temp°C :	6.0	Air(%) :	5.7
Air (%) :	4 - 7	Cast Time:	14:15	Cast By:	MTL
Max Agg Size (mm):	20	Initial curing Temp (CSA: 15 - 25°C)		Rec'd Sample at Lab :	
		Minimum: 11.8 Maximum: 20.5		Date : 28 Jan 2020	
				Time : 10:15	
Supplier Information		Initial Curing Conditions :			
Supplier:	Casey Metro	Inside curing box inside trailer			
Batch Time:	13:29	Test samples cast in reusable hard plastic moulds.			
Truck No.:	25CM				
Ticket No.:	103816				
Strength Delivered:	25 (MPa)	Section: Strip Footings			
Mix No:	C25F1D1	Location: Grid Line : A (5-8) & Line Z1 (W1-W2)			
Load Vol:	7.65 m ³				
Cum Vol:	7.65 m ³				
Additives:		Comments:			
Heat	<input checked="" type="checkbox"/> Superplasticizer	Field Test results reported on site.			
Silica fume	<input type="checkbox"/> Flyash				
Set Retarder	<input type="checkbox"/> Air Entrainment				
Water Reducer	<input type="checkbox"/> Accelerators				
H2O Added	<input type="checkbox"/> Authorized B				

Standby: 0.5

Record No 50560 Englobe Tech: Joel #1

PER 

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N/A - Not Applicable or Not Available

Project manager : Peter Salah

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Client:

Nova Scotia Transportation And Infrastructure Renewal
PO Box 186, 1672 Granville Street
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B3J 2N2

Our Project No.: 02000061.000.001

Client Contract No.: 4600019710

Client PO.:

Contractor: Marco Maritimes

CC:

Fax

Attn: Krista Ranahan, P.Eng.

Fax

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Email krista.ranahan@novascotia.ca

Set No: 11		No. Of Specimens: 5		Date Cast: 27 Jan 2020				
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type	
A	03 Feb 2020	7	102	2275	204	25.0	A	<input checked="" type="checkbox"/>
B	24 Feb 2020	28	102	2282	264	32.3	A	<input checked="" type="checkbox"/>
C	24 Feb 2020	28	102	2285	257	31.5	A	<input checked="" type="checkbox"/>
D	23 Mar 2020	AP	102	2282				<input checked="" type="checkbox"/>
E	23 Mar 2020	AP	102	2275				<input checked="" type="checkbox"/>

Specified Properties		Test Information		Sample pickup at Site :	
Strength @28 days(MPa):	28	Conc Temp°C	18.5	Slump (mm)	140
Slump (mm):	125 +/- 25	Air Temp°C :	5.0	Air(%):	6.8
Air (%):	4 - 7	Cast Time:	15:25	Cast By:	MTL
Max Agg Size (mm):	20	Initial curing Temp (CSA: 15 - 25° C)		Rec'd Sample at Lab :	
		Minimum: 11.8 Maximum: 20.5		Date : 28 Jan 2020	
				Time : 9:30	
				Date : 28 Jan 2020	
				Time : 10:15	

Supplier Information		Initial Curing Conditions :	
Supplier:	Casey Metro	Inside curing box inside trailer	
Batch Time:	14:41	Test samples cast in reusable hard plastic moulds.	
Truck No.:	38CM		
Ticket No.:	103824		
Strength Delivered:	28 (MPa)	Section: Ductbank	
Mix No:	C27F101E	Location: 2nd Location of Pull Pit	
Load Vol:	4.50 m ³		
Cum Vol:	4.50 m ³		
Additives:		Comments:	
Heat	<input checked="" type="checkbox"/> Superplasticizer <input checked="" type="checkbox"/>	Field Test results reported on site.	
Silica fume	<input type="checkbox"/> Flyash <input type="checkbox"/>		
Set Retarder	<input type="checkbox"/> Air Entrainment <input checked="" type="checkbox"/>		
Water Reducer	<input type="checkbox"/> Accelerators <input type="checkbox"/>		
H2O Added	<input type="checkbox"/> Authorized B		

Standby: 0.5

Record No 50562 **Englobe Tech:** Joel #3

PER



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N/A - Not Applicable or Not Available

Project manager : Peter Salah



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PO Box 186, 1672 Granville Street
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B3J 2N2

Our Project No.: 02000061.000.001

Client Contract No.: 4600019710

Client PO.:

Contractor: Able Equipment

CC:

Fax

Attn: Krista Ranahan, P.Eng.

Fax

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Email krista.ranahan@novascotia.ca

Set No: 32	No. Of Specimens: 5	Date Cast: 14 Feb 2020						
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type	
A	21 Feb 2020	7	102		258	31.6	A	<input checked="" type="checkbox"/>
B	13 Mar 2020	28	102					<input checked="" type="checkbox"/>
C	13 Mar 2020	28	102					<input checked="" type="checkbox"/>
D	10 Apr 2020	AP	102					<input checked="" type="checkbox"/>
E	10 Apr 2020	AP	102					<input checked="" type="checkbox"/>

Specified Properties	Test Information	Sample pickup at Site :
Strength @28 days(MPa): 30	Conc Temp°C 18.5 Slump (mm) 85	Date : 15 Feb 2020
Slump (mm): 80 +/- 20	Air Temp°C : -9 Air(%): 2.7	Time : 12:00
Air (%): No AEA	Cast Time: 14:05 Cast By: Englobe	Rec'd Sample at Lab :
Max Agg Size (mm): 20	Initial curing Temp (CSA: 15 - 25° C)	Date : 15 Feb 2020
	Minimum: 5 Maximum: 17	Time : 14:30
Supplier Information	Initial Curing Conditions :	
Supplier: Casey Metro	Inside curing box inside trailer	
Batch Time: 13:06	Test samples cast in reusable hard plastic moulds.	
Truck No.: 38CM	Section:	
Ticket No.: 104213	Location: 4 piers on footings:7-B, 7-C, 8-B, 8-C	
Strength Delivered: 30 (MPa)	Comments:	
Mix No: C30F1D1	Field Test results reported on site.	
Load Vol: 2.0 m ³		
Cum Vol: 2.0 m ³		
Additives:		
Heat <input type="checkbox"/> Superplasticizer <input type="checkbox"/>		
Silica fume <input type="checkbox"/> Flyash <input type="checkbox"/>		
Set Retarder <input type="checkbox"/> Air Entrainment <input type="checkbox"/>		
Water Reducer <input type="checkbox"/> Accelerators <input type="checkbox"/>		
H2O Added <input type="checkbox"/> Authorized B		

Standby: 0

Record No 50753 Englobe Tech: TP1

PER *Peter Salah*



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Client PO.:

Contractor: Able Equipment

CC:

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Attn: Krista Ranahan, P.Eng.

Fax

Project: FO1-55-02-01 - JL Ilsley High School Concrete Testing

Email krista.ranahan@novascotia.ca

Set No: 33		No. Of Specimens: 5		Date Cast: 14 Feb 2020				
Specimen	Date Tested	Age At Test (Days)	Average Diameter(mm)	Cyl Density kg/m ³	Maximum Load (kN)	Compressive Strength (MPa)	Failure Type	
A	21 Feb 2020	7	102		216	26.4	A	<input checked="" type="checkbox"/>
B	13 Mar 2020	28	102					<input checked="" type="checkbox"/>
C	13 Mar 2020	28	102					<input checked="" type="checkbox"/>
D	10 Apr 2020	AP	102					<input checked="" type="checkbox"/>
E	10 Apr 2020	AP	102					<input checked="" type="checkbox"/>

Specified Properties		Test Information		Sample pickup at Site :	
Strength @28 days(MPa):	25	Conc Temp°C	18.5	Slump (mm)	90
Slump (mm):	80 +/- 20	Air Temp°C :	-9	Air(%) :	5.5
Air (%) :	6 +/- 1	Cast Time:	14:20	Cast By:	Englobe
Max Agg Size (mm):	20	Initial curing Temp (CSA: 15 - 25° C)		Rec'd Sample at Lab :	
		Minimum: 5 Maximum: 7		Date : 15 Feb 2020	
				Time : 12:00	
				Date : 15 Feb 2020	
				Time : 14:30	

Supplier Information		Initial Curing Conditions :	
Supplier:	Casey Metro	Inside curing box	
Batch Time:	13:39	Test samples cast in reusable hard plastic moulds.	
Truck No.:	20CM		
Ticket No.:	104216		
Strength Delivered:	25 (MPa)		
Mix No:	C25F1D1		
Load Vol:	7.0 m ³		
Cum Vol:	7.0 m ³		
Additives:		Section:	
Heat	<input checked="" type="checkbox"/> Superplasticizer	Location: Elevator walls. Strip footing on line X-1 between Z-1 and Y-7.	
Silica fume	<input type="checkbox"/> Flyash	Wall on line 14 pilaster B-14	
Set Retarder	<input type="checkbox"/> Air Entrainment	Comments:	
Water Reducer	<input type="checkbox"/> Accelerators	Field Test results reported on site.	
H2O Added	<input type="checkbox"/> Authorized B		

Standby: 0

Record No 50754 **Englobe Tech:** TP2

PER 



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Project manager : Peter Salah