

## List of Approved High-Speed Inertial Profilers for Smoothness Measurements of Asphalt Pavements According to LS-296

July 23, 2021

Company	Contacts	Profiler Serial #	Qualified to Conduct QA/Referee on MTO Contracts?
<b>Aecon Materials Engineering Corp. AMES Unit</b> 10 Perdue Court, Units 2 and 3 Caledon, ON, L7C 3M6	Pouya Nourshoae ☎ (905) 840-5914 x 3224 ✉ <a href="mailto:PNourshoae@aecon.com">PNourshoae@aecon.com</a>  Prambir Cheema ☎ (416) 200-0395 ✉ <a href="mailto:Pcheema@aecon.com">Pcheema@aecon.com</a>	AME owns two profilers:  820708 A-168	<b>NO</b>
<b>Coco Asphalt Engineering</b> 949 Wilson Avenue, North York, ON, M3K 1G2	Yasmine Ibrahim ☎ (647) 972-9193 ✉ <a href="mailto:YIbrahim@cocogroup.com">YIbrahim@cocogroup.com</a>	821213	<b>NO</b>
<b>Construction Testing Asphalt (CTA) Lab Limited</b> 25 Raglin Road, Cambridge, ON, N1T 1X9 ☎ (519) 622-7023	Peter Lung ☎ 905 301 4162 ✉ <a href="mailto:plung@ctalab.ca">plung@ctalab.ca</a>  Ivana Lung ☎ (647) 227 5894 ✉ <a href="mailto:ilung@ctalab.ca">ilung@ctalab.ca</a>	820209	<b>YES</b>
<b>Dufferin Construction</b> 731 Third Line, Oakville, ON, L6L 4B2	Vladimir Fleshin ☎ (905) 827-5750 x 40363 ✉ <a href="mailto:vladimir.fleshin@ca.crh.com">vladimir.fleshin@ca.crh.com</a>	170	<b>NO</b>
<b>Englobe Corporation</b> 1821 Albion Road, Unit 7, Toronto, ON, M9W 5W8	Nicholas Lee ☎ (438)-686-8317 ✉ <a href="mailto:Nicholas.Lee@englobecorp.com">Nicholas.Lee@englobecorp.com</a>  Dawit Amar ☎ (416) 213-1060 X 170247 ✉ <a href="mailto:dawit.amar@englobecorp.com">dawit.amar@englobecorp.com</a>	820413	<b>YES</b>
<b>Engtec Consulting Inc.</b> 2447 Anson Drive, Mississauga, ON, L5S 1G1	Glenn Black ☎ (416) 805-4426 ✉ <a href="mailto:glenn.black@engtec.ca">glenn.black@engtec.ca</a>  Salman Bhutta ☎ (905) 856-2988 ✉ <a href="mailto:salman.bhutta@engtec.ca">salman.bhutta@engtec.ca</a>	820713	<b>YES</b>

Company	Contacts	Profiler Serial #	Qualified to Conduct QA/Referee on MTO Contracts?
<b>Exp Services Inc.</b> 1595 Clark Blvd., Brampton, ON, L6T 4V1	Eric Chan ☎ (905) 793-9800 x 2378 ✉ <a href="mailto:eric.chan@exp.com">eric.chan@exp.com</a>  Kelvin Liu ☎ (416) 399-1070 ✉ <a href="mailto:kelvin.liu@exp.com">kelvin.liu@exp.com</a>	Exp. owns two profilers:  820611 820511	<p style="text-align: center;"><b>YES</b></p>
<b>Golder Associates Ltd.</b> 100 Scotia Court, Unit 22, Whitby, ON, L1N 8Y6	Joe Lin ☎ (905) 706- 0981 ✉ <a href="mailto:joe_lin@golder.com">joe_lin@golder.com</a>  Gordon Goode ☎ (647) 616- 5792 ✉ <a href="mailto:gordon_goode@golder.com">gordon_goode@golder.com</a>	820310	<p style="text-align: center;"><b>YES</b></p>
<b>Miller Technical Services</b> 287 Ram Forest Road, Stouffville, ON, L4A 2G8	Justin Baxter ☎ (416) 688-3128 ✉ <a href="mailto:justin.baxter@millergroup.ca">justin.baxter@millergroup.ca</a>	A209	<p style="text-align: center;"><b>NO</b></p>
<b>SNC Lavalin GEM</b> 591 rue le Breton, Longueuil, QC, J4G 1R9	Jean-Sebastien Lacombe ☎ (514) 331-6913 x 57983 ✉ <a href="mailto:Jean-Sebastien.Lacombe@snclavalin.com">Jean-Sebastien.Lacombe@snclavalin.com</a>	MDR 4084	<p style="text-align: center;"><b>NO</b></p>
<b>SNC Lavalin Woodbridge</b> 401 Hanlan Road, Woodbridge, ON, L4L 3T1	Tahir Mir ☎ (905) 851-0090 x 122 ✉ <a href="mailto:Tahir.Mir@snclavalin.com">Tahir.Mir@snclavalin.com</a>	577	<p style="text-align: center;"><b>NO</b></p>
<b>TBT Engineering Limited</b> 1918 Yonge Street, Thunder Bay, ON, P7E 6T9	Shawn Kennelly ☎ (807) 632-6499 ✉ <a href="mailto:skennelly@tbte.ca">skennelly@tbte.ca</a>	831819	<p style="text-align: center;"><b>YES</b></p>

**MTO'S LIST OF APPROVED HIGH SPEED INERTIAL PROFILERS  
FOR SMOOTHNESS MEASUREMENTS OF CONCRETE PAVEMENTS ACCORDING TO LS-296  
As of August 30, 2019**

<b>Company</b>	<b>Contacts</b>	<b>Telephone E-mail</b>	<b>Profiler Serial #</b>	<b>Operators</b>	<b>QA/Referee on MTO Contracts?</b>
<b>Aecon Materials Engineering Corp.</b> 10 Perdue Court, Units 2 &3 Caledon, Ontario, L7C 3M6	Pouya Nourshoae	Tel:905-840-5914 pouyan@amecorp.ca	820708	<b>Carter, Ken Cheema, Parmbir</b>	<b>NO</b>
<b>Coco Paving Inc.</b> 949 Wilson Ave North York, Ontario, M3K 1G2	Vince Amatuzio or Oussama Ibrahim	Tel: (416) 888-4337 vamatzio@cocogroup.com Tel: (416) 346-5244 olbrahim@cocogroup.com	821213	<b>Fallaha, Yazan</b>	<b>NO</b>
<b>Dufferin Construction</b> 731 Third Line Oakville, Ontario, L6L 4B2	Vladimir Fleshin or Ken Zhi	Tel: (905) 827-5750 X 40363 vladimir.fleshin@ca.crh.com ken.zhi@ca.crh.com	170	<b>Fleshin, Vladimir</b>	<b>NO</b>
<b>Englobe Corporation</b> 1821 Albion Road, Unit 7 Toronto, Ontario, M9W 5W8	Alain Duclos or Dawit Amar	Tel: (416) 213-1060 X 170264 alain.duclos@englobecorp.com Tel: (416) 213-1060 X 170247 dawit.amar@englobecorp.com	820413	<b>Myasar, Mohammed Blake, Ashton</b>	<b>YES</b>
<b>Engtec</b> 100 Hanlan Road Unit 12 Vaughan, Ontario, L4L 4V8	Glenn Black or Salman Bhutta	Tel: (416)-805-4426 glenn.black@engtec.ca Tel: (905)-856-2988 salman.bhutta@engtec.ca	820713	<b>Salama, Hassan</b>	<b>YES</b>
<b>Exp Services Inc.</b> 1595 Clark Blvd. Brampton, Ontario, L6T 4V1	Eric Chan or Kelvin Liu	Tel: (905) 793-9809 X 2378 Tel : (416)-399-1070 eric.chan@exp.com kelvin.liu@exp.com	exp. owns two profilers: 820611 820511	<b>Ashtiani, Ali Liu, Kelvin Lee, Nicholas Zolqadr, Emad</b>	<b>YES</b>

**Ministry of Transportation**

Bituminous Section

Engineering Materials Office

95 Arrow Rd.  
Toronto ON M9M 2L4  
Tel.: 416-235-4678  
Fax: 416-235-3919

**Ministère des Transports**

Section des matériaux bitumineux

Bureau des matériaux d'ingénierie

95, rue Arrow  
Toronto ON M9M 2L4  
Tél. : 416-235-4678  
Télééc.: 416-235-3919



July 13, 2021

Engtec Consulting Inc.  
100 Hanlan Rd #12  
Woodbridge, ON L4L 4V8

Dear Mr. Salman Bhutta:

**Re: 2021 Inertial Profiler Correlation for Asphalt Pavement**

Inertial profiler correlation was conducted on June 4, 2021 including your equipment (Serial # 820713). The correlation was conducted at the Truck Inspection Station on the northbound Highway 400, north of King Road.

Your equipment was evaluated in accordance with AASHTO R 56-14 for "Repeatability" and "Accuracy". We are pleased to inform you that your above profiler has successfully completed the 2021 correlation program. The results of the correlation and the names of certified operators are provided on the attached sheet.

**Repeatability**

- Both sensors passed the repeatability based on cross correlation of profile data.

**Accuracy**

- Both sensors passed the accuracy based on cross correlation of profile data.

Thank you for participating in the MTO inertial profiler correlation program.

Yours sincerely,

A handwritten signature in blue ink that reads "Imran Bashir".

Imran Bashir, P. Eng.  
Bituminous Engineer

cc: G.Vasiliu

# 2021 CORRELATION OF INERTIAL PROFILER FOR ASPHALT PAVEMENT

Site: Truck Inspection Station on Northbound Highway 400, north of King Road

**Company:** Engtec Consulting Inc.

**Date of Certification:** June 4, 2021

**Profiler Manufacturer:** AMES

**Profiler Serial #:** 820713

**Operators:**  
1. Glenn Black  
2. Hassan Salama

## Computed IRI (m/km)

Station (m)	IRI (m/km)		Reference IRI (m/km)	
	Left	Right	Left	Right
0 to 100	3.165	1.956	3.290	2.007
100 to 200	2.952	2.039	2.994	2.029
0 to 200	3.059	1.998	3.142	2.018

## Certification Analysis Results (based on the 200 m section)

Sensor	Repeatability <sup>1</sup> (%) <i>Based on cross correlation of profile data</i>	Accuracy <sup>2</sup> (%) <i>Based on cross correlation of profile data</i>
Left	99 (Pass)	95 (Pass)
Right	99 (Pass)	97 (Pass)

1. According to AASHTO R56-14. A minimum repeatability of 92% is required for certification.
2. According to AASHTO R56-14. A minimum accuracy of 90% is required for certification.

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**List of Qualified Operators of High-Speed Inertial  
Profilers - Asphalt Pavements**

**July 23, 2021**

<b>Qualified Operators</b>	
Alade, Oladotun	Lee, Nicholas
Anand, Rahul	Lin, Joe
Ashtiani, Ali	Liu, Kelvin
Benoit, Carrier	Lugtu, Robin
Black, Glenn	Lung, Ivana
Cheema, Prambir	Lung, Peter
Chan, Eric	Markland, Jordan
Croteau, Philippe	Mir, Tahir
Cruz, Ceasar	Mitchell, Duncan
Falvo, Matt	Nourshoae, Pouya
Fleshin, Vladimir	Patel, Ankit
Goode, Gordon	Salama, Hassan
Ibrahim, Yasmine	Spragues, Joe
Ibrahim, Oussama	Vinitsky, Dmitry
Khan, Saad	Wells, Alex
Lacombe, Jean-Sebastien	Wing, Sean
Lauro, Kyle	