



Ministry of Energy, Mines & Petroleum Resources  
Mining & Minerals Division  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]:

TECHNICAL

TOTAL COST:

\$ 892.74

AUTHOR(S):

JEFF AUSTIN

SIGNATURE(S):

Jeff Austin

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):

5725308

PROPERTY NAME:

BLUE2017

CLAIM NAME(S) (on which the work was done):

1057757

COMMODITIES SOUGHT:

LIMESTONE

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION:

NTS/BCGS:

LATITUDE:

50.0080500

LONGITUDE:

-119.5617900

(at centre of work)

OWNER(S):

1)

PERCY COX

2)

MAILING ADDRESS:

906 FAIRWAY CRESCENT  
KELOWNA B.C.

OPERATOR(S) [who paid for the work]:

1)

WESTERN CANADA LIMESTONE LTD.

2)

MAILING ADDRESS:

906 FAIRWAY CRESCENT  
KELOWNA B.C.

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

LIMESTONE, MARBLE

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping	_____	_____	_____
Photo interpretation	_____	_____	_____
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic	_____	_____	_____
Electromagnetic	_____	_____	_____
Induced Polarization	_____	_____	_____
Radiometric	_____	_____	_____
Seismic	_____	_____	_____
Other	_____	_____	_____
Airborne	_____	_____	_____
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil	_____	_____	_____
Silt	_____	_____	_____
Rock	_____	_____	_____
Other	_____	_____	_____
<b>DRILLING (total metres; number of holes, size)</b>			
Core	_____	_____	_____
Non-core	_____	_____	_____
<b>RELATED TECHNICAL</b>			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	1 GEOCHEM	1057757	892.74
<b>PROSPECTING (scale, area)</b>			
_____			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres)	_____	_____	_____
Topographic/Photogrammetric (scale, area)	_____	_____	_____
Legal surveys (scale, area)	_____	_____	_____
Road, local access (kilometres)/trail	_____	_____	_____
Trench (metres)	_____	_____	_____
Underground dev. (metres)	_____	_____	_____
Other	_____	_____	_____
<b>TOTAL COST:</b>			892.74

Western Canada Limestone Ltd.

906 Fairway Crescent, Kelowna, B.C., Canada, V1Y 4S7, Telephone (250) 317-3739  
austin@internationalmet.com

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TECHNICAL REPORT ON THE CHEMISTRY/HARDNESS OF LIMESTONE FROM THE  
WESTERN CANADA LIMESTONE LTD QUARRY

Blue2017 Claim Group – Tenure number 1057757

UTM: 316540 5542643

Prepared by

Western Canada Limestone Ltd.  
13 – 2550 Acland Road  
Kelowna, B.C.  
V1X 7L4

*Signed and Sealed*

---

Jeffrey B. Austin, P.Eng. – President  
Western Canada Limestone Ltd.

January 5, 2019

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## INTRODUCTION

Western Canada Limestone Ltd operates a limestone mining operation located approximately 17 kilometres from downtown Kelowna, B.C. The operation produces mined products for use in construction and landscaping.

This report outlines the analysis conducted to support the use of the limestone products from the Western Canada Limestone Ltd. quarry for control of acid-rock drainage(ARD) and use in rip-rap applications.

The Crown granted tenure is contained within the Blue2017 claim group. Mineral Tenure is held under Tenure Number 1057757. On-going mining operations are shown in Figure 1 below.



Figure 1. – Photo of Western Canada Limestone Ltd. Quarry Operation(August 2012)

## PROJECT LOCATION

The project is located at kilometer 10.5 on the Bear Lake Main Road on the western shore of Lake Okanagan. The map below shows Tenure 1057757 which holds the operations of Western Canada Limestone Ltd.

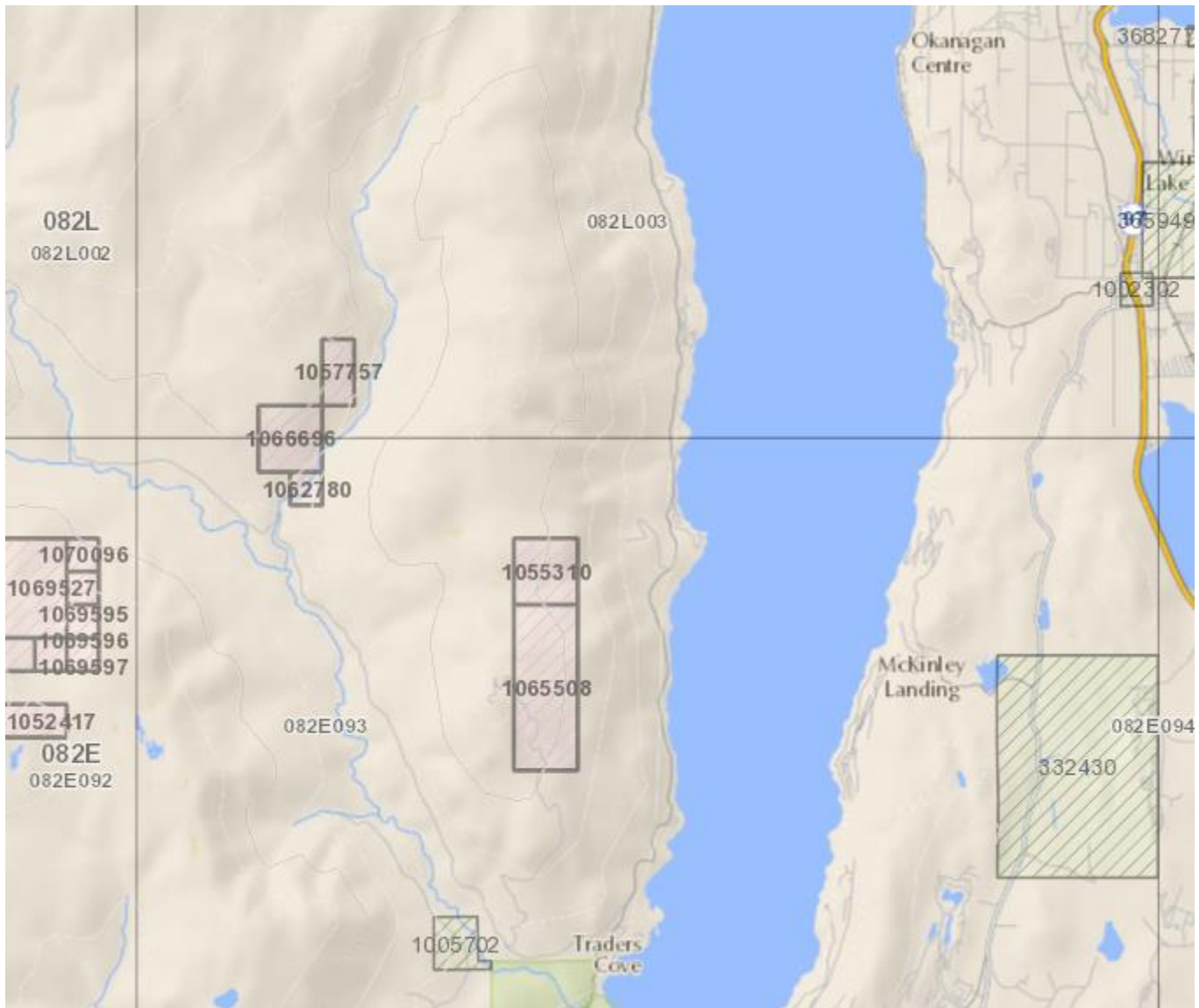


Figure 2. – Location of Mineral Tenure 1057757 and Western Canada Limestone Ltd.

Access to the site is from Kelowna is via Westside Road to Bear Lake Main FSR and turning onto Bald Range Road at kilometer 10.75.

## RESULTS AND DISCUSSION

### Test Samples

A representative limestone sample was provided to be used in detailed analysis. Approximately 100 kilograms of 75 mm stone was provided from the on-going operations in the quarry.

The sample material was crushed to approximately 6 mm in a laboratory jaw crusher in order to provide material for analysis. Analysis of the feed material is shown in Table 1 below and indicates the high grade nature of the sample material.

Table 1  
Summary of Analysis – Western Canada Limestone Ltd. Quarry Production Sample

Sample	CaO %	CaCO <sub>3</sub> %	MgO %	SiO <sub>2</sub> %	S %	LOI %
WCL Quarry Prod.	54.8	97.8	0.15	0.7	0.02	43.4

Samples were submitted to ALS Canada Limited for detailed acid-base accounting and geochemical analysis.

### Methodology and Test Procedures

In order to complete an evaluation of the Acid-Rock Drainage potential of the limestone from Western Canada Limestone Ltd., sample materials were submitted to ALS in Vancouver, B.C. for acid-base accounting. This is consistent with the Guidelines for Metal Leaching and Acid Rock Drainage at Mine Sites in British Columbia and Government of B.C. Technical Circular T-04/2013. Detailed results are attached as certificates from ALS Canada Ltd., certificates VA18199621 and VA18177038.

Analytical Results and Interpretation of Results

Acid-base accounting results are summarized in the following table for sample materials submitted to ALS and indicates that the material has a very high acid consumption potential.. Materials with a ratio of Neutralization Potential(NP) to Maximum Acid Potential(MPA) greater than 4, are typically thought to be at low risk to generate acid rock drainage. With a measured ratio of 3155, materials from Western Canada Limestone are consider to be at very low risk of generating acid rock drainage.

Whole rock analysis, which is also attached as a certificate from ALS, confirms the high grade nature of the material in terms of CaCO<sub>3</sub>, and indicates the very low levels of contained metals within the limestone.

Summary of Acid-Base Accounting Testing – WCL Limestone

Sample	S %	MPA kg/t CaCO <sub>3</sub>	NP kg/t CaCO <sub>3</sub>	NNP kg/t CaCO <sub>3</sub>	NP/MPA ratio
WCL limestone	0.01	0.3	986	986	3155

It can be concluded that this limestone is suitable for use as Rip-Rap with respect to the B.C. Guidelines for Metal Leaching and Acid Rock Drainage at Mine Sites in British Columbia.

The limestone from Western Canada Limestone Ltd. was also tested to determine the Micro-Deval hardness index by Interior Testing Services Ltd of Kelowna, B.C. A Micro-Deval number of 44.4 was determined for the limestone indicating it to be relatively soft. Detailed test results are also attached in Appendix 3.



**CERTIFICATE OF QUALIFIED PERSON**

**Jeffrey B. Austin, P.Eng.**

I, Jeffrey B. Austin, P.Eng., do hereby certify that:

1. I am a Consulting Engineer and President of International Metallurgical and Environmental Inc., residing at 906 Fairway Crescent, Kelowna, B.C., Canada. 2
2. This certificate applies to the technical report titled “PRELIMINARY CALCINING TEST WORK OF LIMESTONE FINES FROM WESTERN CANADA LIMESTONE LTD FOR DEVELOPING DESIGN CRITERIA OF A LIME PRODUCTION FACILITY”, dated November 15, 2012 (the “Technical Report”).
3. I fulfill the requirements of a qualified person for the purposes of NI 43-101 based on my academic qualifications, professional membership and relevant experience, as set out below:
  - a. I hold the following academic qualifications:

BASc.	University of British Columbia	1984
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- b. I am a member in good standing of the following professional and technical associations:

Association of Professional Engineers and Geoscientists of BC	15708
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- c. I have worked in the minerals industry as a Consulting Process Engineer continuously since 1987, a period of 26 years.
4. I have personally inspected the property.
5. I am responsible for all aspects of the Technical Report.
6. I am not independent of Western Canada Limestone Ltd. as defined in section 1.5 of NI 43-101. I currently serve as president of Western Canada Limestone Ltd.
7. I have read and am familiar with NI 43-101 and the sections of the Technical Report for which I am responsible. To the best of my knowledge, information, and belief, the parts of the Technical Report for which I am responsible have been prepared in compliance with NI 43-101.
8. As of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 16<sup>th</sup> day of December, 2012

“Signed and Sealed”

\_\_\_\_\_  
Jeffrey B. Austin, P.Eng.

## APPENDIX 1. – Project Costs

INVOICE

August 25, 2018

Invoice Number: 212663  
HST No.: 898084686

Mr. Don Sandberg  
Western Canada Limestone Ltd.  
906 Fairway Crescent  
Kelowna, B.C.  
V1Y4S7

Dear Don,

This invoice covers the costs of analytical work on aggregate samples from Western Canada Limestone Ltd.

ALS Canada VA18177038	\$119.74
ALS Canada VA18199621	\$168.00
Interior Testing Services Ltd. 61214	\$500.00
Interior Testing Services Ltd. 62147	\$105.00
Sub-total	<u>\$892.74</u>
GST	\$44.64
<b>Invoice total</b>	<b>\$937.38</b>

Thank-you for the opportunity to provide this service.

Yours very truly,

Jeffrey B. Austin, P.Eng. – President  
International Metallurgical and Environmental Inc.

Western Canada Limestone Ltd.

906 Fairway Crescent, Kelowna, B.C., Canada, V1Y 4S7, Telephone (250) 317-3739

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[austin@internationalmet.com](mailto:austin@internationalmet.com)

Western Canada Limestone Ltd.

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austin@internationalmet.com

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## APPENDIX 2. – ALS Canada Ltd. Certificates



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: **INTERNATIONAL METALLURGICAL AND ENVIRONMENTAL INC.**  
**906 FAIRWAY CRESCENT**  
**KELOWNA BC V1Y 4S7**

Page: 1  
 Total # Pages: 2 (A)  
 Plus Appendix Pages  
 Finalized Date: 30-AUG-2018  
 Account: MTS

**CERTIFICATE VA18199621**

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 15-AUG-2018.  
 The following have access to data associated with this certificate:  
 JEFF AUSTIN

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
OA-VOL08	Basic Acid Base Accounting	
S-IR08	Total Sulphur (Leco)	LECO
OA-ELE07	Paste pH	
S-CAL06	Sulfide Sulfur (calculated)	LECO
S-GRA06	Sulfate Sulfur-carbonate leach	WST-SEQ
C-GAS05	Inorganic Carbon (CO2)	
S-GRA06a	Sulfate Sulfur (HCl leachable)	WST-SEQ

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
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 Plus Appendix Pages  
 Finalized Date: 30-AUG-2018  
 Account: MTS

**CERTIFICATE OF ANALYSIS VA18199621**

Sample Description	Method Analyte Units LOD	WE1-21	OA-VOL08	OA-VOL08	OA-VOL08	OA-VOL08	OA-ELE07	OA-VOL08	S-IR08	S-GRA06	S-GRA06a	S-CAL06	C-GAS05	C-GAS05
		Recvd Wt. kg	MPA tCaCO3/1Kt	FIZZ RAT Unity	NNP tCaCO3/1Kt	NP tCaCO3/1Kt	pH Unity	Ratio (N Unity)	S %	S %	S %	S %	C %	CO2 %
WCL Limestone		0.30	0.3	4	986	986	8.2	3155	0.01	<0.01	<0.01	0.01	11.10	40.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 1  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 7-AUG-2018  
 Account: MTS

**CERTIFICATE VA18177038**

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 23-JUL-2018.  
 The following have access to data associated with this certificate:  
 JEFF AUSTIN

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-XRF26	Whole Rock By Fusion/XRF	XRF
OA-GRA05x	LOI for XRF	WST-SEQ
ME-MS41L	Super Trace Lowest DL AR by ICP-MS	

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Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 7-AUG-2018  
 Account: MTS

**CERTIFICATE OF ANALYSIS VA18177038**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
WCL Limestone		0.30	<0.0002	0.020	0.02	0.54	<10	21.7	0.01	0.011	>25.0	0.606	0.423	0.179	1.32	0.030

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 7-AUG-2018  
 Account: MTS

**CERTIFICATE OF ANALYSIS VA18177038**

Sample Description	Method Analyte Units LOD	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
WCL Limestone		4.29	0.052	0.051	0.021	<0.002	0.015	<0.005	<0.01	0.888	0.1	0.08	150.5	0.09	0.004	0.007

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 Account: MTS

**CERTIFICATE OF ANALYSIS VA18177038**

Sample Description	Method Analyte Units LOD	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
WCL Limestone		0.79	0.007	0.812	<0.001	<0.002	0.174	<0.001	0.01	0.127	0.258	0.4	0.02	215	<0.005	0.01

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 7 - AUG - 2018  
 Account: MTS

**CERTIFICATE OF ANALYSIS VA18177038**

Sample Description	Method Analyte Units LOD	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %
WCL Limestone		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		0.026	0.001	0.005	0.835	2.4	0.030	2.61	13.7	0.09	0.10	0.01	55.8	<0.01	0.09	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS VA18177038**

Sample Description	Method Analyte Units LOD	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	OA-GRA05x
		MgO %	MnO %	Na2O %	P2O5 %	SO3 %	SiO2 %	SrO %	TiO2 %	Total %	LOI 1000 %
WCL Limestone		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		0.13	0.03	<0.01	0.02	0.01	0.73	0.03	<0.01	100.10	43.09

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

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906 Fairway Crescent, Kelowna, B.C., Canada, V1Y 4S7, Telephone (250) 317-3739  
austin@internationalmet.com

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### APPENDIX 3. – Interior Testing Services Ltd. Test Results

**MICRO-DEVAL ABRASION TEST REPORT**



**TO:** Western Canada Limestone Ltd.  
 #13 - 2550 Acland Road  
 Kelowna, BC V1X 7L4

**ATTN:** Mr. Jeffrey Austin, P.Eng.

**PROJECT:** Western Canada Limestone QC **DATE TESTED:** July 20, 2018  
**SOURCE:** Western Canada Limestone Pit **SAMPLED BY:** Client **TESTED BY:** ST  
**DATE RECEIVED:** July 18, 2018 **SAMPLE ID:** -19mm to +9.5mm

**AGGREGATE QUALITY TEST AS PER ASTM D6928-10**

Sieve Sizes		Mass (grams)	
Passing	Retained On		
19.0mm	16.0mm	374.8	
16.0mm	12.5mm	375.6	
12.5mm	9.5mm	751.3	
Weight of Spheres (5000 ± 5g):		5003.4g	Total Sample (1500 ± 5g): 1501.7
Volume of Tap Water: 2.0 Litres at 20 ± 5°C		24.0°C	+1.18 mm Material After: 835.6
Machine Rotation = 100 ± 5rpm for 120 min ± 1min:			Micro-Deval Abrasion (% Loss): <b>44.4%</b>

**COMMENTS:** **\*\*Test run on a sample of fractured limestone as delivered by Client**

**According to BC-MOT Table 202-B Aggregate Properties**

The Max. Allowable % Loss for 25mm Base Course Gravel is: ≤ 25%  
 The Max. Allowable % Loss for SGSB (Sub-Base Aggregate) is: ≤ 30%  
 The Max. Allowable % Loss for BEF (Bridge End Fill) is: ≤ 30%

**According to ASTM Table X1.1 Referenced Micro-Deval Limits For Aggregate Applications**

The Max Allowable % Loss for Coarse Aggregate for Base Course Is: ≤ 21%  
 The Max Allowable % Loss for Coarse Aggregate for Surface Course Is: ≤ 18%

Reviewed By: Scott Terrice

Interior Testing Services Ltd.  
 #1-1965 Moss Court  
 Kelowna, BC V1Y 9L3  
[info@interiortesting.com](mailto:info@interiortesting.com)  
[interiortesting.com](http://interiortesting.com)