



Your P.O. #: 23761
Your Project #: VAN22000330

Attention: Susie Woo

Bureau Veritas Commodities
9050 Shaughnessy Street
Vancouver, BC
Canada V6P 6E5

Report Date: 2022/02/16
Report #: R7006838
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C221292

Received: 2022/01/26, 15:45

Sample Matrix: Solid
Samples Received: 17

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Platinum Group Elements	17	N/A	2022/02/16	BQL SOP-00002	Neutron Activation

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mayank Nigam, Project Manager

Email: Mayank.Nigam@bureauveritas.com

Phone# (905) 826-3080

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VERITAS

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RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		RSA794	RSA804	RSA805	RSA807	RSA808	RSA809	RSA810		
Sampling Date										
	UNITS	521554	521555	521556	521557	521558	521212	521213	RDL	QC Batch
Gold (Au)	ppb	13	30	42	41	30	12	5	5	7812909
Iridium (Ir)	ppb	4	7	9	7	9	3	3	1	7812909
Osmium (Os)	ppb	<10	<10	<10	<10	<10	<10	<10	10	7812909
Palladium (Pd)	ppb	160	270	320	260	240	90	60	20	7812909
Platinum (Pt)	ppb	60	130	130	100	90	40	<20	20	7812909
Rhodium (Rh)	ppb	6	10	12	9	9	<5	<5	5	7812909
Ruthenium (Ru)	ppb	<50	<50	<50	<50	<50	<50	<50	50	7812909
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Bureau Veritas ID		RSA811	RSA813	RSA814	RSA815	RSA816	RSA818	RSA819		
Sampling Date										
	UNITS	705837	521214	521215	521216	521217	521218	521219	RDL	QC Batch
Gold (Au)	ppb	140	<5	<5	7	13	12	11	5	7812909
Iridium (Ir)	ppb	52	2	2	3	3	3	13	1	7812909
Osmium (Os)	ppb	30	<10	<10	<10	<10	<10	<10	10	7812909
Palladium (Pd)	ppb	870	100	130	80	60	100	50	20	7812909
Platinum (Pt)	ppb	1800	40	30	40	50	<20	50	20	7812909
Rhodium (Rh)	ppb	140	<5	<5	<5	<5	<5	<5	5	7812909
Ruthenium (Ru)	ppb	280	<50	<50	<50	<50	<50	<50	50	7812909
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										

Bureau Veritas ID		RSA820	RSA821	RSA822		
Sampling Date						
	UNITS	521221	521222	705838	RDL	QC Batch
Gold (Au)	ppb	<5	<5	30	5	7812909
Iridium (Ir)	ppb	2	3	<1	1	7812909
Osmium (Os)	ppb	<10	<10	<10	10	7812909
Palladium (Pd)	ppb	60	110	<20	20	7812909
Platinum (Pt)	ppb	30	40	<20	20	7812909
Rhodium (Rh)	ppb	<5	<5	<5	5	7812909
Ruthenium (Ru)	ppb	<50	<50	<50	50	7812909
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



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GENERAL COMMENTS

Results relate only to the items tested.



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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Blake Barber", written over a horizontal line.

Blake Barber, Laboratory Manager

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