



# F E E S C H E D U L E



# 2016

PRICES IN CANADIAN FUNDS

C A N A D A 

## **TSL Laboratories – Since 1981**

At TSL Laboratories, we endeavor to provide the best possible service to you, our client. We remember always that our real reason for growth is your satisfaction.

### **Our Commitment:**

- Provide quality analyses, inserting repeats, certified and in-house standards at regular intervals
- Exceptional turnaround time

The procedures available at TSL are the most appropriate methods in terms of quality and cost. Special discounts can be arranged for larger projects.

Our management team at TSL Laboratories would be pleased to discuss terms with you.

## **SAMPLE PREPARATION**

### **DRILL CORE / ROCK**

#### **STANDARD PREPARATIONS**

Crush entire sample to 70% passing 10 mesh (1.70 mm)	\$ 7.90
Riffle split and pulverize ~250 g to 95% passing 150 mesh (106 µm)	
Surcharge for sample size above 2.5 kg	\$ 0.50/kg
Crush entire sample to 95% passing 10 mesh (1.70 mm)	\$11.90
Riffle split and pulverize ~1000 g to 95% passing 150 mesh (106 µm)	
Surcharge for sample size above 2.5 kg	\$ 1.00/kg

All equipment is cleaned with compressed air and brushes

#### **INDIVIDUAL PREPARATIONS**

Crush up to 2.5 kg, 70% passing 10 mesh (1.70 mm)	\$ 4.40
Second split of reject at initial crush	\$ 1.60
Second split from previously crushed reject	\$ 3.95
Pulverize up to 250 g, 95% passing 150 mesh (106 µm)	\$ 4.50
Pulverize up to 1000 g, 95% passing 150 mesh (106 µm)	\$ 6.50
Silica sand wash between samples	\$ 1.75

#### **SOIL / SEDIMENT**

Dry, sieve soils – Screened at 80 mesh (180 µm)	\$ 3.75
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#### **EXTRAS**

Special preparation procedures may be adopted at the client's request. These prices will be set accordingly. No charge will be applied for handling pulps not prepared at TSL Laboratories. The client will be notified prior to analyses if prepared pulps do not meet our standard preparation criteria.

**PRECIOUS METALS****GEOCHEMICAL ANALYSIS**

Gold	FA/AA	30 g	\$ 14.05
Gold	FA/AA	50 g	\$ 17.05
Gold, Platinum, Palladium	FA/ICP	30 g	\$ 19.65

**ASSAYS**

Gold	FA/Gravimetric	1 AT	\$ 17.05
Gold	FA/Gravimetric	2 AT	\$ 20.35
Silver	FA/Gravimetric	1 AT	\$ 17.65
Gold & Silver	FA/Gravimetric	1 AT	\$ 21.65
Gold Concentrate	FA/Gravimetric	1 AT	\$ 49.00
Silver Concentrate	FA/Gravimetric	1 AT	\$ 49.00
Bullion Fineness	Gold or Silver		\$ 83.00
Screen Metallic up to 1 kg			\$ 60.35

Screen Metallic Assay includes:

- Crush entire sample
- Pulverize entire sample to 95% passing 150 mesh
- Screen entire sample through 150 mesh
- Assay entire +150 mesh fraction
- Duplicate assay of -150 mesh fraction
- Weighted average of Gold for entire sample

**TRACE LEVEL GEOCHEMICAL ANALYSIS**  
**AQUA REGIA AA FINISH**

Arsenic	As	Nickel	Ni	First Element	\$ 4.05
Cobalt	Co	Silver	Ag	Each Additional Element	\$ 1.75
Copper	Cu	Zinc	Zn	(on same sample solution)	
Lead	Pb				

**ORE GRADE ASSAY PACKAGE - AA FINISH**

		Detection Limit		AQUA REGIA	MULTIACID
Cobalt	Co	.01			
Copper	Cu	.01	First Metal	\$ 8.90	\$ 9.90
Nickel	Ni	.01	Each Additional	\$ 4.50	\$ 4.50
Lead	Pb	.01	(on same sample solution)		
Silver	Ag	.01			
Zinc	Zn	.01			

Specific Gravity    S.G.    \$11.00

Control assays, concentrates, metallurgical samples and Umpire  
Assays - Prices upon Request

**WHOLE ROCK BY ICP-AES**  
**LiBO<sub>2</sub> - FUSION**

		Detection Limit
Silica Oxide	SiO <sub>2</sub>	0.02%
Aluminum Oxide	Al <sub>2</sub> O <sub>3</sub>	0.03%
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	0.04%
Magnesium Oxide	MgO	0.01%
Calcium Oxide	CaO	0.01%
Sodium Oxide	Na <sub>2</sub> O	0.01%
Potassium Oxide	K <sub>2</sub> O	0.04%
Titanium Oxide	TiO <sub>2</sub>	0.01%
Phosphorous Oxide	P <sub>2</sub> O <sub>5</sub>	0.01%
Manganese Oxide	MnO	0.01%
Chromium Oxide	Cr <sub>2</sub> O <sub>3</sub>	0.001%
Loss on Ignition	LOI	0.1%
Barium	Ba	5 ppm
Nickel	Ni	20 ppm
Strontium	Sr	10 ppm
Zirconium	Zr	10 ppm
Yttrium	Y	10 ppm
Niobium	Nb	10 ppm
Scandium	Sc	1 ppm

Price per sample                      \$36.90

## **ICP MULTIELEMENT PACKAGE**

The Aqua Regia digestion liberates most of the elements except those marked with an asterisk, where the digestion will not be complete.

<b>Element</b>		<b>ICP - AES Aqua Regia</b>	<b>ICP - MS Aqua Regia</b>
Silver	Ag*	0.3 ppm	0.1 ppm
Aluminum	Al*	0.01%	0.01%
Arsenic	As	2 ppm	0.5 ppm
Gold	Au*		0.5 ppb
Boron	B*		1 ppm
Barium	Ba*	1 ppm	1 ppm
Beryllium	Be*	1 ppm	
Bismuth	Bi	3 ppm	0.1 ppm
Calcium	Ca*	0.01%	0.01%
Cadmium	Cd	0.5 ppm	0.1 ppm
Cobalt	Co	1 ppm	0.1 ppm
Chromium	Cr*	1 ppm	1 ppm
Copper	Cu	1 ppm	0.1 ppm
Iron	Fe*	0.01%	0.01%
Gallium	Ga*		1 ppm
Mercury	Hg		0.01 ppm
Potassium	K*	0.01%	0.01%
Lanthanum	La*		1 ppm
Magnesium	Mg*	0.01%	0.01%
Manganese	Mn*	2 ppm	1 ppm
Molybdenum	Mo	1 ppm	0.1 ppm
Sodium	Na*	0.01%	0.001%
Nickel	Ni	1 ppm	0.1 ppm
Phosphorous	P*	0.001%	0.001%
Lead	Pb	3 ppm	0.1 ppm
Sulfur	S		0.05%
Antimony	Sb	3 ppm	0.1 ppm
Scandium	Sc		0.1 ppm
Selenium	Se		0.5 ppm
Tin	Sn*	5 ppm	
Strontium	Sr*	1 ppm	1 ppm
Tellurium	Te		0.2 ppm
Thorium	Th*		0.1 ppm
Titanium	Ti*	0.01%	0.001%
Thallium	Tl		0.1 ppm
Vanadium	V*	1 ppm	2 ppm
Tungsten	W*	2 ppm	0.1 ppm
Yttrium	Y	1 ppm	
Zinc	Zn	1 ppm	1 ppm
Zirconium	Zr*	1 ppm	
<b>All Elements</b>		<b>\$9.85</b>	<b>\$16.25</b>

## ICP MULTIELEMENT PACKAGE

MULTI  
ELEMENT

The Multi-acid digestion liberates most of the elements except those marked with an asterisk, where digestion may not be complete. Volatilization during digestion may result in some loss of those elements marked with a triangle.

Element		ICP - AES Multi-acid	ICP - MS Multi-acid
Silver	Ag	0.5 ppm	0.1 ppm
Aluminum	Al*	0.01%	0.01%
Arsenic	As $\Delta$	5 ppm	1 ppm
Gold	Au $\Delta$	4 ppm	0.1 ppm
Barium	Ba*	1 ppm	1 ppm
Beryllium	Be*	1 ppm	1 ppm
Bismuth	Bi	5 ppm	0.1 ppm
Calcium	Ca	0.01%	0.01%
Cadmium	Cd	0.4 ppm	0.1 ppm
Cerium	Ce		1 ppm
Cobalt	Co	2 ppm	0.2 ppm
Chromium	Cr*	2 ppm	1 ppm
Copper	Cu	2 ppm	0.1 ppm
Iron	Fe*	0.01%	0.01%
Hafnium	Hf*		0.1 ppm
Potassium	K	0.01%	0.010%
Lanthanum	La	2 ppm	0.1 ppm
Lithium	Li		0.1 ppm
Magnesium	Mg*	0.01%	0.01%
Manganese	Mn*	5 ppm	1 ppm
Molybdenum	Mo	2 ppm	0.1 ppm
Sodium	Na	0.01%	0.001%
Niobium	Nb	2 ppm	0.1 ppm
Nickel	Ni	2 ppm	0.1 ppm
Phosphorous	P	0.002%	0.001%
Lead	Pb	5 ppm	0.1 ppm
Rubidium	Rb		0.1 ppm
Sulfur	S*	0.10%	0.10%
Antimony	Sb $\Delta$	5 ppm	0.1 ppm
Scandium	Sc	1 ppm	1 ppm
Tin	Sn*	2 ppm	0.1 ppm
Strontium	Sr	2 ppm	1 ppm
Tantalum	Ta*		0.1 ppm
Thorium	Th	2 ppm	0.1 ppm
Titanium	Ti	0.01%	0.001%
Uranium	U	20 ppm	0.1 ppm
Vanadium	V	4 ppm	2 ppm
Tungsten	W*	4 ppm	0.1 ppm
Yttrium	Y	2 ppm	0.1 ppm
Zinc	Zn	2 ppm	1 ppm
Zirconium	Zr*	2 ppm	0.1 ppm
<b>All Elements</b>		<b>\$13.70</b>	<b>\$19.25</b>



## **SAMPLE SHIPPING**

Shipping labels and submittal forms are supplied without cost upon request. Proper numbering of samples with either sample tags or indelible pens is encouraged to help staff in handling of samples.

International shipments should be clearly marked:

**Geological Materials for Analysis Only**  
**No Commercial Value**

## **SAMPLE STORAGE**

First 3 months of sample storage - Free

Longer than 3 months - To be arranged

Pulp Storage:	250 gram	\$ 0.05 / month
	1 kg	\$ 0.15 / month
Reject is dependent on sample size - typically at		\$ 0.20 / month

TSL Laboratories will take all reasonable precautions to protect samples and rejects during analyses and storage, but will not incur any liability for loss, deterioration, or damage to samples from any cause.

Prices are subject to change without notice.

## **DATA TRANSFER**

The following services are available to the client without cost.

- Faxing (within North America)
- E-mail
- Signed Certificate sent via Canada Post.

## **EQUIVALENCES**

Selected Weights, Measures and Conversion Factors  
used in the Precious Metals Industry

parts per million (ppm)  
parts per billion (ppb)  
1 assay ton (A.T.)

1 ppm = 1 g/tonne = 1000 ppb = .0001 %  
 10,000 ppm = 1 %  
 1 Short ton = 2000 pounds = 29,166.7 Troy ounces  
 1 Troy ounce = 31.1035 grams  
 1 Metric tonne = 1000 Kilograms = 2204.6 pounds

## **CONVERSION CHART**

$$\frac{1 \text{ ppm}}{34.285714} = \text{Troy ounces per ton}$$

ppb	oz/ton
5	0.00015
10	0.00029
20	0.00058
30	0.00088
40	0.00117
50	0.00146
60	0.00175
70	0.00204
80	0.00233
90	0.00263
100	0.0029
200	0.0058
300	0.0088
400	0.0117
500	0.0146
600	0.0175
700	0.0204
800	0.0233
900	0.0263
1000	0.0292

ppm or g/tonne	oz/ton	%
1	0.029	0.0001
2	0.058	
3	0.088	
4	0.117	
5	0.146	
6	0.175	
7	0.204	
8	0.233	
9	0.263	
10	0.292	0.001
100	2.92	0.01
1000	29.2	0.1
10000	292	1



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