



GEOCHEMISTRY

2023 SCHEDULE

**Temiskaming
Testing
Laboratories**



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INTRODUCTION

At Temiskaming Testing Laboratories (TTL) we are excited to deliver services to our communities. We are striving to build a high-quality Analytical Laboratory here in Temiskaming shores. Currently we are in the process of re-accrediting the laboratory to ISO 9001:2015 and we will be participating in proficiency testing to get us up in running under the ISO 17025 accreditation soon. These are exciting times.

- We are looking for community engagement to help us steer the right services for the exploration community.
- We are committed to delivering fast turnaround at a competitive price.
- We encourage people to come and review the lab, we want to prove to stakeholders that their samples are in the right hands.

Anthony Dapaah has been working in the laboratory industry 30+ years, for companies such as Tarkwa Goldfields and Analabs (Ghana) Ltd in Ghana, Sumitomo Metals Technology in Japan, Maxxam Analytics (now Bureau Veritas), SGS, and AGAT Laboratories. His experience will lead TTL to success.

All the best,

Anthony Dapaah, PhD, C. Chem
Laboratory Manager

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Vision

At Temiskaming Testing Laboratories, our vision is to be the undisputed leader in providing comprehensive testing and analytical services, setting the highest industry standards for quality, reliability, and customer satisfaction. We envision a future where our laboratory stands at the forefront of technological advancements, utilizing cutting-edge instrumentation and innovative methodologies to deliver accurate and timely results to our diverse clientele. Our commitment to excellence extends beyond delivering exceptional testing services; we aim to be strategic partners to our clients, collaborating closely to address their unique challenges and contribute to their success. Through our unwavering dedication to quality, continuous improvement, and client-centric approach, we strive to earn the trust and loyalty of our customers and become the go-to testing laboratory in the region.

Mission statement

At Temiskaming Testing Laboratories, our mission is to provide unparalleled testing and analytical services to our clients, empowering them to make informed decisions and ensure the safety, quality, and compliance of their products and environments. We are committed to delivering accurate, reliable, and timely results through the application of advanced technologies, rigorous quality control processes, and the expertise of our highly skilled professionals. As a trusted partner, we strive to understand and exceed the unique needs of our clients, offering tailored solutions, exceptional customer service, and continuous support.

Quality Policy

Temiskaming Testing Laboratory, an assay laboratory, is committed to delivering accurate and reliable testing services while maintaining the highest standards of quality and customer satisfaction. We are dedicated to continually improving our processes, technology, and expertise to ensure the integrity of our results and meet or exceed our clients' expectations.

Our quality policy is based on the following principles:

1. Accuracy and Precision: We employ qualified professionals and utilize state-of-the-art equipment to conduct assays with the utmost accuracy and precision. We adhere to internationally recognized standards and best practices in all our testing processes.
2. Continuous Improvement: We foster a culture of continuous improvement, encouraging our staff to identify opportunities for enhancing our procedures,

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methodologies, and quality management system. We actively seek feedback from our clients to refine and optimize our services.

3. **Compliance and Ethics:** We operate in full compliance with applicable laws, regulations, and industry standards. We uphold the highest ethical standards, ensuring confidentiality, impartiality, and transparency in all our interactions and maintaining the integrity of our results.
4. **Client Satisfaction:** We prioritize client satisfaction by understanding their unique requirements, providing clear communication, and delivering accurate and timely results. We aim to exceed expectations and build long-term relationships based on trust, reliability, and exceptional customer service.
5. **Employee Engagement:** We invest in our employees' professional development, ensuring they have the necessary knowledge, skills, and resources to perform their tasks effectively. We foster a collaborative and inclusive work environment that encourages innovation, teamwork, and a strong commitment to quality.
6. **Environmental Responsibility:** We are dedicated to minimizing our environmental impact through sustainable practices, waste reduction, and responsible resource management. We strive to continually improve our environmental performance and support initiatives that promote a greener future.

By adhering to this quality policy, Temiskaming Testing Laboratory is committed to providing reliable, accurate, and timely assay services that enable our clients to make informed decisions with confidence.



2. SAMPLE PREPARATION

Sample preparation is one of the most critical stages in the lifecycle of a geological sample, typically any error attributed at this stage will be carried forward.

At TTL we are committed to high quality sample preparation, even though we provide industry standard preparation packages, feel free to talk with us and develop a custom package that meets the requirements of your program.

Sample Submission

We want our clients to feel secure and confident in the chain of custody of their samples as they move through the TTL network. Your samples are logged into our system upon receipt, and we track them throughout the process. Samples can be shipped to:

Sample Receiving

Temiskaming Testing Laboratories Ltd.
1 Presley Street,
Cobalt, ON, P0J1C0, Canada

It is the client's responsibility to disclose all hazardous materials. The laboratory reserves the right to refuse such samples. The samples will be returned at the client's expense.

Shipping Instructions: the client's name and address must be clearly marked on each packages. Each sample should be numbered and labeled, labels in good condition, all sample shipments should include a sample submission form. Sample that are poorly sorted will increase the TAT and could be subject to a sorting fee. Optimum sample size for Fire Assay is greater than 1 kg, minimum sample size 300g.

Quality Assurance Program

The Quality Assurance Program at our assay laboratory is designed to ensure the highest level of accuracy, reliability, and integrity in our assay services. We are committed to implementing a comprehensive set of procedures, controls, and continuous improvement measures to meet or exceed industry standards and client expectations.

Our Quality Assurance Program encompasses the following key elements:

1. **Robust Methodologies:** We employ standardized and validated assay methods that are aligned with internationally recognized guidelines and industry best practices. These methodologies undergo rigorous testing and validation to ensure accurate and precise results.

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2. **Quality Control Measures:** We implement a stringent quality control system to monitor the performance of our equipment, reagents, and processes. This includes regular calibration, internal quality control samples, we will begin participation in external quality assurance programs and proficiency testing Autumn 2023. These measures help us maintain the reliability and traceability of our assay results.
3. **Competent and Trained Staff:** We invest in our team's ongoing professional development, ensuring they possess the necessary expertise and knowledge to perform assays with precision and accuracy. Our staff receives regular training on assay methodologies, safety protocols, and quality assurance procedures, enabling them to consistently deliver reliable results.
4. **Documented Processes and Procedures:** We have established well-documented and standardized processes for all stages of the assay workflow. These procedures include sample handling, preparation, analysis, data recording, and reporting. The documentation ensures consistency, traceability, and accountability throughout the entire assay process.
5. **Continuous Improvement:** We foster a culture of continuous improvement, actively seeking feedback from clients, conducting internal audits, and regularly reviewing and updating our quality assurance program. This allows us to identify areas for enhancement, implement corrective actions, and adapt to evolving industry standards and client requirements.

Through our robust Quality Assurance Program, our assay laboratory is committed to providing our clients with accurate, reliable, and trustworthy assay results. We strive for excellence in all aspects of our operations, ensuring client satisfaction, regulatory compliance, and the highest standards of quality in the field of assay testing.

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Reception

Code	Description	Price
WRD-01	Single charge per batch for processing the samples into the system and producing the appropriate internal documentation for the lab	\$ 40.00
LOG-01	Weigh raw samples into the system	\$ 1.35

Sample Storage

Samples at TTL which are registered for analysis are kept free of charge during the typical analytical period, upon the release of the final certificate of analysis reasonable monthly storage fees will be charged, or if the client requests reasonable disposal or return fees will be applied.

Code	Description	Price
STO-10	Storage of coarse rejects after 60 days	\$ 0.80
STO-20	Storage of pulps < 250 g after 60 days	\$ 0.55
STO-30	Storage of pulps > 250 g after 60 days	\$ 0.08
DIS-10	Disposal of pulps and rejects*	
RTN-10	Return of samples to client, via courier	At Cost
RTN-11	Return of local samples by truck	By Quote

*Depends on characteristics of the samples, ie: Norm or Asbestos bearing samples

Miscellaneous Procedures

Code	Description	Price
WSH-10	Crusher Barren Rock Wash (between samples, or specific samples)	\$ 3.50
WSH-20	Pulverizer bowl barren Rock Wash (between samples, or specific samples)	\$ 4.50

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Specific Gravity

Specific gravity and bulk density of ores and waste are key criteria to establishing grade and tonnage of mineral deposits.

Code	Description	Price
SG-10	Bulk Density by Water displacement	\$ 18.00
SG-20	Bulk Density by Water displacement with varnish coating	\$ 22.00

Drill Core, Rocks, and Chips

Excessively wet samples may need oven-drying before preparation, additionally high-grade material may require additional equipment cleaning, please keep the lab informed on special parameters pertaining to your samples.

Full Packages

Code	Description	Price
PRP-10	Crush to ≥75% passing 2mm, Riffle Split - Pulverize 250 g ≥85% 75µm	\$ 10.00 +\$1.00/kg
PRP-20	Crush to ≥75% passing 2mm, Riffle Split - Pulverize 500 g ≥85% 75µm	\$ 11.00 +\$1.00/kg

Individual sample preparation can be used to custom tailor to your needs, these methods are based on a 2kg standard sample. Please contact us to determine your needs, as multiple screen sizes are available.

Drying

Code	Description	Price
DRY-40	Air Drying	\$ 3.50 +\$0.80/kg
DRY-30	Oven drying ≤65 (when volatile elements are analytes of interest)	\$ 3.50 +\$0.80/kg
DRY-10	Oven drying (very wet samples)	\$ 3.50 +\$0.80/kg
DRY-20	Oven drying at 105 °C	\$ 3.75 +\$0.80/kg

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Crushing

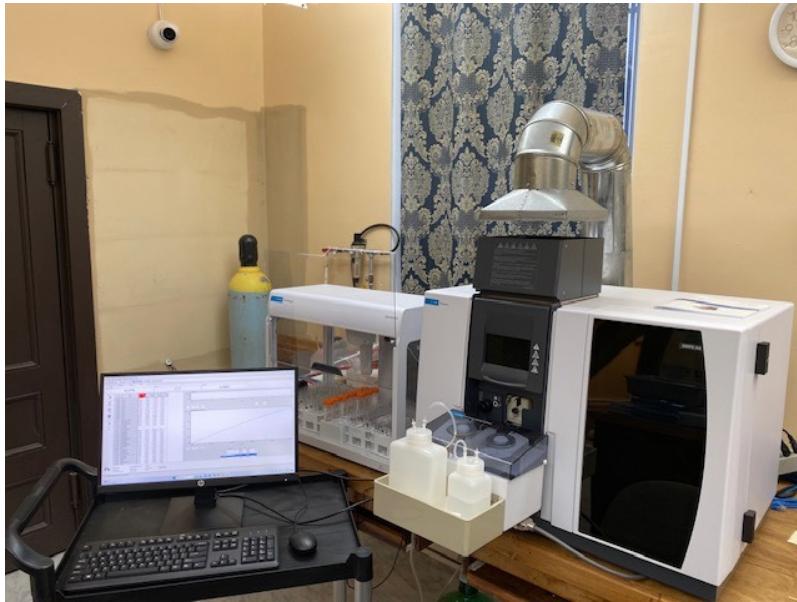
Code	Description	Price
CRU-10	Crushing to 75% passing 2mm	\$ 4.00 +\$0.80/kg
CRU-20	Crushing to 80% passing 2mm	\$ 4.50 +\$1.25/kg
CRU-30	Crushing to 90% passing 2mm	\$ 5.00 +\$1.50/kg

Splitting

Code	Description	Price
SPL-10	Split sample using riffle splitter	\$ 2.50 +\$0.60/kg

Pulverization

Code	Description	Price
PUL-10	Pulverise 250g to 85% passing 75 micron	\$ 6.00
PUL-11	Pulverise 250g to 90% passing 75 micron	\$ 7.00
PUL-20	Pulverise 500g to 85% passing 75 micron	\$ 8.00
PUL-21	Pulverise 500g to 90% passing 75 micron	\$ 9.00
PUL-30	Pulverise 1000g to 85% passing 75 micron	\$ 9.00
PUL-31	Pulverise 1000g to 90% passing 75 micron	\$ 10.00
PUL-40	Pulverise larger sample	By Quotation





3. PRECIOUS METALS

Lead Collection Fire Assay with AAS or Gravimetric Finish

Classical fire assay using lead oxide-based flux is employed to separate and collect the precious metals from the sample matrix (gangue), followed by cupellation to separate the precious metals from lead. The silver bead/prill so obtained is digested with HNO_3/HCl and subsequently analyzed by AAS. For gravimetric finish, the silver bead is digested with dilute HNO_3 , the Au is washed, dried, annealed and weighed. If silver is an analyte of interest, the silver bead is weighed prior to nitric acid digestion. The concentration is obtained by difference.

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Precious Metals Packages

Fire Assay AAS Finish

Code	Analyte	Idl (µg/g)	Range udl (µg/g)	Description	Price
FA301-AA	Au	0.005	10	Au-Fire Assay (30 g) - AAS finish	\$ 20.00
FA303-AA	Au, Ag	*		Au/Ag-Fire Assay (30 g) - AAS finish	\$ 28.00

*Silver done by gravimetric finish

Fire Assay Gravimetric Finish

Code	Analyte	Idl (µg/g)	Range udl (µg/g)	Description	Price
FA301-GR	Au	0.035		Au-Fire Assay (30 g) - Gravimetric finish	\$ 26.00
FA302-GR	Ag	3.5		Ag - Fire Assay (30g) - Gravimetric finish	\$ 29.00
FA303-GR	Au, Ag	*		Au/Ag-Fire Assay (30 g) - Gravimetric finish	\$ 33.00

Screen Fire Assay

Code	Analyte	Idl (µg/g)	Range udl (µg/g)	Description	Price
FAS301	Au	*		Au Screen 1kg pulp screened to 100-micron, duplicate 30g on undersize, assay of entire oversize	\$ 85.00