

Technical Report

Resources Estimation of the nickel Content in Asbestos Mines Tailings

Thetford Mines, Quebec, Canada

For Nichromet Extraction Inc.

Respectfully submitted to:
Nichromet Extraction Inc.

Date: October 15th, 2007



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Foreword

Geostat System Int'l Inc. received this mandate from Nichromet Extraction Inc. on June 2007 based on a May site visit and proposal.

This study focuses on the resources estimation of the nickel content in the Normandie, Bell, British Canada I, British Canada II, King Beaver, National and Lac d'Amiante Asbestos mines tailings, properties of Société Asbestos Ltée, 9075-6453 QUEBEC INC. and Lake Asbestos of Canada Limited.

I, Claude Duplessis P. Eng., project manager declare to have undertaken this study and written this report. I attest that I did not omit any information in my possession that could affect the conclusions of this report.

Claude Duplessis P. Eng.
Systèmes Géostat International Inc.
(s) *Claude Duplessis*
October 15th, 2007

Summary

Geostat received a mandate to prepare a technical report pertaining to the resources estimation with high level of confidence of the nickel content of the Normandie, Bell, National and Lac d'Amiante Asbestos mines tailings from Nichromet Extraction Inc. on June 2007. The pile on which Geostat has done extensive works, the Normandie tailings are located in the Irlande Township, province of Quebec, some 5.8 km southwest of Black Lake and 12.1 km southwest of Thetford Mines. The property is easily accessible by national paved roads.

This technical report incorporates and describes the summer 2007 sonic drilling and test pits sampling program done by Geostat on the Normandie, Bell, National, Lac d'Amiante, British Canadian I & II and King Beaver mill rejects, owned respectively by Société Asbestos Ltée, 9075-6453 Québec Inc. and Lake Asbestos Ltée of Thetford Mines.

For this study, Geostat used all the technical data available from historical metallurgical processes. Geostat supervised and collected data during the summer 2007 sonic drilling and test pits sampling program. Claude Duplessis Eng. visited the site on May 23rd and June 15, 2007 for the preparation of this technical report. Maxime Dupéré worked at the site from June 15 to June 22. At Geostat's knowledge, it is the first NI43-101 technical report written on the Normandie and Bell mines tailings piles. The sampling and security procedures were installed and supervised by Maxime Dupéré and Claude Duplessis of Geostat during the summer of 2007 sonic drilling and test pits sampling program and are considered adequate. Gilbert Rousseau eng. visited Nichromet's laboratory in Sherbrooke with Dr. Lalancette in July where the process has been initially established.

The resources reported in this document are compliant with current standards as outlined in the National Instrument 43-101. This study was completed at the resources estimation stage for the Normandie, Bell, National, Lac d'Amiante, asbestos tailings piles.

I, Claude Duplessis, qualified person and author of part of this report, declare that the sonic drill holes locations are adequate.

The summer 2007 sonic drilling campaign consisting of ten (11) sonic drill holes and fifteen (30) test pits permitted to describe the composition of the material while providing an estimation of the volume, quantity, variation in density and nickel content of asbestos mill rejects piles.

A land survey was done on the Normandie and Bell tailings piles by Les Mesures Lasertech of Mascouche for the location of the holes and the test pits. A detailed land survey was done on the Normandie tailings confirming that the pile is about 110 m high containing some 21,300,000 m³ of material.

Eleven holes were drilled with a sonic drill, property of Boart Longyear Canada, SONIC Drilling Division for a total of 595.85 meters. The totality of the holes length was sampled and half of each hole was sent for analysis, in a first analysis phase one out of two samples

have been analysed for a total of 339 samples from drill holes and all the samples from the 30 test pits were sampled and analysed. The samples were sent to the COREM laboratory in Quebec City.

In addition to various elements as shown in the table below, nickel has been analysed for total nickel content (Ni_A02-2) and also for soluble fraction by hydrochloric acid to evaluate maximum recuperation of nickel by Nichromet process. Geostat has requested COREM to analyse one sample out of three for soluble nickel by hydrochloric acid (Ni_B29-1). Average total % nickel in all the samples is 0.224 while average % nickel soluble by hydrochloric acid is 0.201 i.e. average recovery by hydrochloric acid is 90% of nickel in the piles based of samples only.

%Value	length(m)	SiO ₂	Al ₂ O ₃	MgO	CaO	K ₂ O	TiO ₂	MnO	P ₂ O ₅	Co	Cr	Cu	Fe	Ni A02-2	Pb	S	Zn	Ni B29-1
Average	0.803	38.791	1.358	36.807	0.473	0.126	0.020	0.094	0.018	0.008	0.257	0.006	5.343	0.224	0.005	0.005	0.005	0.201
Minimum	0.610	33.120	0.360	30.380	0.005	0.005	0.005	0.066	0.005	0.005	0.193	0.005	3.957	0.182	0.005	0.005	0.005	0.176
Maximum	3.050	41.940	3.065	39.630	1.001	0.751	0.108	0.112	0.057	0.014	0.626	0.087	6.473	0.801	0.036	0.005	0.010	0.228
Median	0.760	38.700	1.325	37.000	0.448	0.060	0.020	0.098	0.017	0.010	0.252	0.005	5.377	0.222	0.005	0.005	0.005	0.203
Number	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	136

Statistics of all the samples in percentage

The resources of the Normandie, Bell, National, Lac d'Amiante, British Canadian I & II and King Beaver are estimated in conformity with 43-101. Exploration works of summer 2007 have covered with various level of investigation the Normandie, Bell, National and Lac d'Amiante tailings piles. The resource of the other piles relies on historical estimation by LAB engineer in 2001.

The Normandie Pile has been extensively explored to serve as a witness pile to confirm historical grades and tonnages. This has been done with success. A resource block model of the Normandie pile was estimated by inverse distance composites of 2.5 feet (0.76 metres) with variable density measurements. The bottom of the tailings mountain is more compact than the material near surface.

For the Normandie pile, search ellipsoid is used to classify the material while for the others a proportion of the tonnage is applied in relation to the level of exploration, hence the British Canadian I & II and King Beaver asbestos tailings resources are classified as inferred and should not need a lot of investigation work to be converted into indicated resources since they were seen and their extent is physically known.

RESOURCES ALL PILES CLASSIFIED							
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl	Spec Grav	%MgO	%Cr	%Fe
measured	91 457 000	0.22	0.20	1.24	36.90	0.27	5.42
indicated	71 257 000	0.23	0.21	1.24	37.54	0.26	5.62
inferred	246 286 000	0.23	0.21	1.25	38.58	0.26	5.57
Measured+ Indicated							
	162 714 000	0.22	0.21	1.24	37.18	0.26	5.50
For public disclosure							
C.Duplessis ing		15-oct-07					

The asbestos mine tailings piles are: Normandie, Bell, National, Lac d'Amiante, British Canadian I & II and King Beaver. SolHCl is % nickel soluble by hydrochloric acid.

Gilbert Rousseau P. Eng. has reviewed the Nichromet Extraction Inc. nickel recovery process and has confirmed that the process is sound on a scientific basis.

Nichromet will have spent 3.5 million dollars from August 2006 to December 2007 in the construction and trials of the first pilot plant of 1T per hour. The money came from private investors which have pooled in over 10 million dollars into Nichromet since its beginning.

The first step of physical preparation has been achieved with grinding and magnetic separation to upgrade the original ore from 0.21 to 0.5% ni by concentrating six tonnes of raw asbestos tailings to produce one tonne at 0.5% Ni. The physical preparation has a 40% nickel recovery.

The second step of producing hydrochloric acid from potash and sulfuric acid has been tested with success.

Nichromet Extraction Inc. are currently working on digestion optimization and recovery with resin. Preliminary results at the pilot plant scale, show nickel recovery in the 80 to 85% range. The COREM soluble nickel analysis results of this year are showing a maximum recovery of 94%. Nichromet intention is to continue to work on optimizing the process up to year end and also in 2008 while it will go for a feasibility study said Dr. Lalancette.

Considering the above parameters, the actual effective nickel recovery is 30%.

In conclusion this drilling program permitted to prove the hypothesis of gradual variation of the density with depth. It also permitted to verify the homogeneous content of the tailings of the Normandie Pile. No domestic waste was encountered but an inquiry could be done to know the different stages of formation of the pile over the years.

This drilling program has enable Geostat to make adequate resources estimates on the nickel content in the Normandie main tailings pile. The analysis at COREM of soluble nickel with hydrochloric acid leach on the whole fraction of the sample shows recoveries in the 90 to 95% range, which is very interesting. Further testing by Nichromet should include processing all the material to maximize the recovery of nickel until magnetic separation shows significant impact and improve recovery results.

The investigation of grades has also indicated that historical grades from CRM study and tonnage estimation by LAB were adequate, it has also confirmed per recent conversation with the LAB engineer responsible of the 2001 asbestos tailings tonnages estimates.

The investigation also show that nickel content in the asbestos tailings piles are very similar from one pile to an other in the area of work.

The success of the Nichromet project would have a significant positive environmental impact with the use of the asbestos tailings for the filling of the old pits with the tailings of Nichromet process, thus securing and reclaiming huge pits and reducing population exposure to asbestos dusts of the piles.

Geostat first recommendation is to run additional test on nickel and by-product recovery, at the pilot plant scale in order to materially prove and improve the process. Once this is done, a pre feasibility study should be done to adequately evaluate the economical value of the process and project. All the environmental aspect will have to be covered in this study.

- The author considers that there is considerable potential to increase the mineral resources quality on the properties and potential to define mineral reserves based on actual information.
- The author recommends that Nichromet carry out all the necessary work and property acquisition agreements to secure its access to mining rights (asbestos tailings piles) with the land owners.
- The author recommends the following work program:
 - The first phase:
 - Surveying the other piles that have not been surveyed \$ 75,000
 - Test pits on British Canadian I & II and King Beaver \$ 50,000
 - The second phase has two objectives:
 - Pilot plant testing and construction \$ 3,500,000
 - Pre Feasibility study \$ 200,000
 - Should minimal commercial production achieved with the small scale plant, go ahead for a major feasibility study with detailed engineering \$ 3,000,000
 - Should feasibility proved to be positive with success of the pilot plant then construction and acquisition of infrastructures and first commercial scale plant construction 15t/hr \$50,000,000

Nichromet has taken advance in the logical process, it has constructed a 1 tonne per hour pilot plant and they have already started the second phase of our logical work program course.

Claude Duplessis P. Eng.
Systèmes Géostat International Inc.

October 15, 2007

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1. Introduction and terms of reference

Geostat has been retained by Mr. Jean Marc Lalancette of Nichromet Extraction Inc. to prepare an independent technical report pertaining to the evaluation of the nickel content of Asbestos Mines tailings.

This independent estimation of the nickel content was required by Nichromet Extraction Inc. since the company has a registered and patented method for the extraction of nickel from the asbestos mill rejects. Within the scope of work; Geostat extensive assessment on the Normandie aimed in the confirmation of all historical work regarding homogeneity of nickel values in the tailings piles of the Thetford mine area.

The purpose of this report is to describe the work and methodology used during the sonic drilling campaign and test pit exploration of June 2007 for the estimation of the nickel content of some of the Thetford Mines areas asbestos mines tailings for Nichromet Extraction Inc. It also includes an independent review of the proposed extraction method to recover the nickel.

This report includes the resources of the nickel in the Normandie, Bell, National, Lac d'Amiante, British Canadian I, British Canadian II and King Beaver, asbestos mine tailings piles as of October 15th 2007 and is the first NI 43-101 compliant estimate.

Maxime Dupéré geo., visited and supervised the work on site from June 15 to June 22, 2007. Lyne Maître M.Sc. Env. supervised the drilling campaign from June 25 to June 28, 2007 and has prepared the density analysis section. Claude Duplessis eng. has visited the site during exploration work and also the Nichromet pilot plant at various times during the investigation and has initially selected the drilling method and technology to evaluate the piles. Gilbert Rousseau eng. has visited the installations of Nichromet in Sherbrooke on July 4th and is responsible for the metallurgical section of this report.

Most of Geostat exploration and characterization works were focused on the Normandie main tailings piles in order to be able to derive measured and indicated resources.

In this document, the following terms are used:

Nichromet: Nichromet Extraction Inc.

LAB Chrysotile: LAB Chrysotile Inc.

ASBESTOS: SOCIÉTÉ ASBESTOS LIMITÉE

QUÉBEC INC.: 9075-6453 QUÉBEC INC

Lake Asbestos: Lake Asbestos of Canada Limited

Geostat: Systèmes Géostat International Inc., firm of consultants mandated to realise and supervise the work in order to evaluate the resources.

COREM: Consortium of applied research for the treatment and processing of mineral substances, it is an independent laboratory.

Normandie: Name of the concerned area of work and studies. Also named as Normandie Mine Pile tailings Project, Normandie Asbestos Tailings Pile, and Normandie Tailings Pile, Normandie Pile project.

Bell: Name of the concerned area of work and studies. Also named as Bell Mine Pile tailings Project, Bell Asbestos Tailings Pile, and Bell Tailings Pile, Bell Pile project.

British Canadian I: Name of the concerned area. Also named as BC 1 Mine Pile tailings and British Canada I

British Canadian II: Name of the concerned area. Also named as BC 2 or BC II Mine Pile tailings and British Canada II.

King Beaver: Name of the concerned area. Also named as KB Mine Pile tailings

Lac d'Amiante: Name of the concerned area. Also named as Lac or LAQ Mine Pile tailings

National : Name of the concerned area. Also named as La National Mine Pile tailings

This report was written by Geostat personnel in accordance with the National Instrument 43-101 Policy guidelines and conforms to it.

1.1 List of abbreviations

In this report, monetary units are in Canadian dollars (\$CA) unless when specified in United States dollars (\$US). The metric system of measurements and units is used throughout the report.

A table showing some abbreviations used in this report is provided below.

tonnes or mt	Metric tonnes
tpd	Tonnes per day
tons	Short tons (0.907185 tonnes)
kg	Kilograms
g	Grams
oz	Troy ounce (31.1035 grams)
g/t	Grams/tonne or ppm
ppm, ppb	Parts per million, parts per billion
ha	Hectares
m	Metres
km	Kilometres
m ³	Cubic metres
t/m ³	Tonnes/cubic meter

Table 1: List of abbreviations.

2. Reliance on other experts

The authors have not relied on external expertise in the preparation of this report.

3. Property description and location

The Normandie main tailings pile is located 5.8 km northwest of Black Lake and 12.1 km southwest of Thetford Mines, Chaudière-Appalaches region, Province of Quebec. The property is centered on MTM coordinates 232,937E and 5,098,908N (MTM-7, NAD 83) on the topographic map (NTS 32 B/13). The property is located in the Irlande Township and is easily accessible by national paved roads.

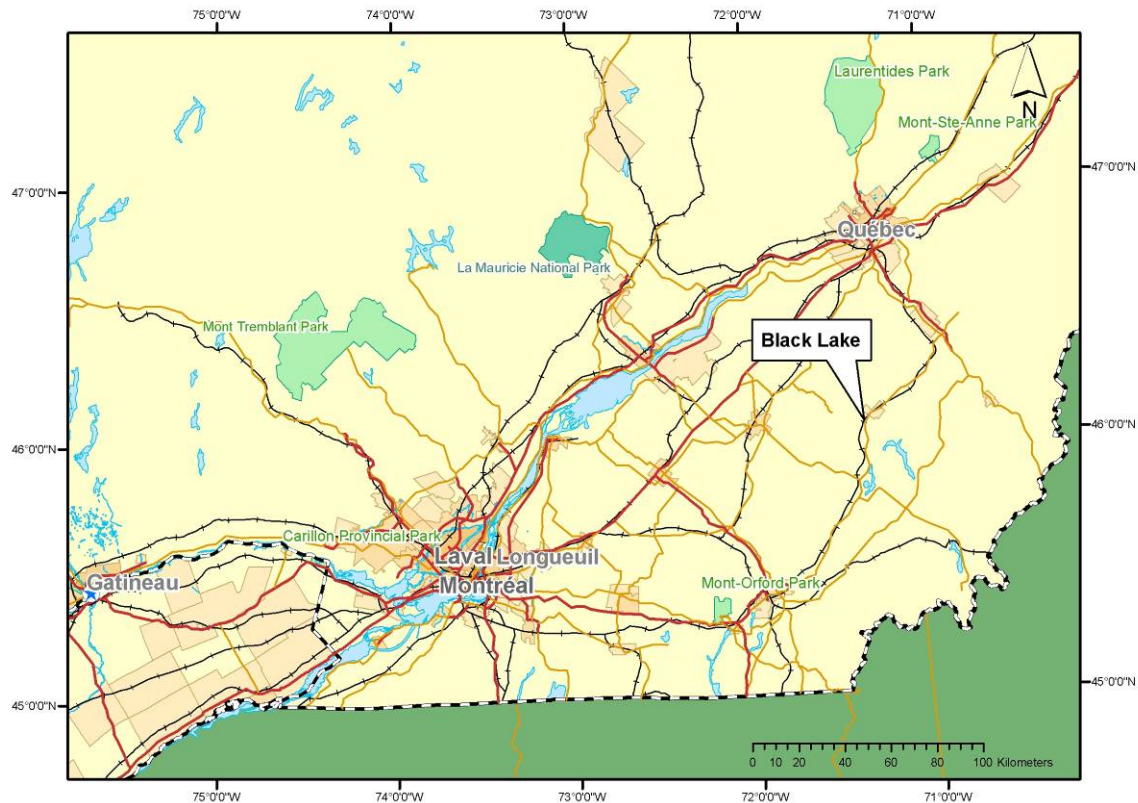


Figure 1: Location of the Thetford Mines Area Asbestos Tailings, Province of Quebec.

The Normandie Pile is situated on the lands owned by Société Asbestos Limitée (Mazarin) of Thetford Mines, Quebec. The Bell Mine Pile is situated on the lands owned by 9075-6453 QUEBEC INC. (Mazarin) of Thetford Mines, Quebec. The project has a particular aspect since Nichromet does not own mining and exploration rights. Nichromet has letters giving access and use of the tailings; copies of the letters are in Appendix. The area is made of properties owned by 9075-6453 QUEBEC INC. and Société Asbestos Ltée of Thetford Mines, Quebec. The current report is not an investigation on all the titles of the region for asbestos tailings, it aims to confirm access and possible use of the tailings which are given by the owners of the piles. A legal review of all the titles would have to be taken in order to address all the properties detail ownerships. This legal review is not part of the present Geostat's mandate.

Myself, Claude Duplessis Eng. Qualified Person is aware that this society has been owner of the land prior to the creation of the modern exploration title system of the province of Quebec. As per their date of acquisition of the land from the crown at that time in 1925, the society (Société Asbestos Ltée and 9075-6453 QUEBEC INC) owns all mineral rights in addition to surface rights except for gold and silver as shown in the following figure of GESTIM. According to the knowledge of the mineral right and application this is satisfying at this stage for the purpose of this report. The properties form an irregular block covering several mine sites and tailing piles. I also had discussion with Mme Luce Labreque principal assistant to President John Boutillier of both society (Société Asbestos Ltée and 9075-6453 QUEBEC INC) and she has confirmed the ownership of the land pertinent to this technical report.

See table below and also see scans of the letters of agreements in Appendix

Matricule	A r e a	Parameter	L O T S	R A N G	Township	M R C	Municipality	H o l d e r	
3499-16-3525	1 . 6 1 7	7 2 3 . 3 0 1	2 1 0 - 2	4	I r l a n d e	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
3498-61-9020	7 2 . 9 0 3	3 7 5 6 . 3 9 2	2 0 6 4		I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3795-24-8080	7 9 . 3 9 1	3 8 4 4 . 6 5 3	2 0 5 4		I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3795-24-8080	6 5 . 5 6 1	3 2 4 5 . 6 7 6	2 0 3 3		I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3795-24-8080	4 1 . 7 9 8	2 6 0 0 . 5 5 4	2 0 2 3		I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3498-61-9020	8 8 . 9 3 5	4 3 0 5 . 2 4 6	2 0 1 3		I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3498-61-9020	9 1 . 0 0 9	4 2 9 3 . 8 3 7	2 0 0 3		I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3498-61-9020	9 0 . 7 0 4	4 2 5 7 . 2 9 9	1 9 9 3		I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3498-61-9020	4 2 . 8 2 8	3 6 0 1 . 2 1 4	1 9 8 - 2	3	I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3498-61-9020	4 3 . 4 4 6	3 5 8 9 . 0 7 5	1 9 8 - 1	3	I r l a n d e	A m i a n t e	Coleraine	Societe_Asbestos	
3298-96-8590	4 0 . 6 6 1	3 5 3 0 . 5 1 7	1 9 7 - 2	3	I r l a n d e	A m i a n t e	I r l a n d e	Societe_Asbestos	
3298-96-8590	4 3 . 5 5 1	3 5 5 4 . 3 9 1	1 9 7 - 1	3	I r l a n d e	A m i a n t e	I r l a n d e	Societe_Asbestos	
4001-80-3055	3 5 . 7 3 8	3 3 3 1 . 6 2 7	3 1 1	4	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	4 1 . 0 6 6	3 5 6 0 . 9 0 9	3 0 1	4	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	4 0 . 7 6 2	3 6 9 9 . 5 1 8	2 9 1	4	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	4 4 . 8 0 3	3 8 4 7 . 0 4 8	2 8 1	4	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	5 2 . 0 9 7	3 9 6 4 . 3 5 4	2 7 1	4	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	1 8 9 . 6 1 1	7 7 5 2 . 8 5 0	Bloc A-5	1	7	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos
4001-80-3055	6 0 . 3 4 1	4 8 4 7 . 4 4 0	3 2 1	5	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	5 4 . 3 9 5	4 8 6 2 . 9 0 3	3 1 1	5	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	6 0 . 7 2 7	4 8 3 2 . 3 9 6	3 0 A	1	5	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos
4001-80-3055	5 4 . 6 1 7	4 5 6 7 . 5 3 3	2 9 A	1	5	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos
4001-80-3055	5 1 . 6 5 7	4 4 1 1 . 1 1 4	2 8 A	1	5	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos
4001-80-3055	4 9 . 8 2 1	4 2 2 6 . 5 4 1	2 6 1	5	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4001-80-3055	5 7 . 7 3 5	4 4 0 5 . 6 4 9	2 7 A	1	5	Coleraine	A m i a n t e	Thetford-Black Lake	Societe_Asbestos
3902-33-0595	1 0 6 . 2 5 1	4 7 7 4 . 3 1 7	P - 4 4 6	7	I r l a n d e	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
3902-33-0595	8 0 . 2 9 0	4 5 4 7 . 8 9 6	P - 4 4 5	7	I r l a n d e	A m i a n t e	Thetford-Black Lake	Societe_Asbestos	
4204-27-8090	3 6 . 2 7 2	2 5 1 0 . 1 3 8	P - 2 4	6	T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4204-27-8090	4 5 . 2 7 7	2 7 7 0 . 8 5 9	P - 2 5	6	T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4204-27-8090	1 4 . 3 8 9	1 5 8 4 . 2 9 0	P - 3 9 0	5	T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4204-27-8090	9 3 . 1 6 9	4 8 5 2 . 8 1 2	P - 2 6	6	T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4204-27-8090	9 9 . 6 8 5	5 9 3 0 . 9 0 0	P - 5 1 1	6	T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4105-96-4090	7 . 6 7 0	1 2 4 1 . 0 8 7	P - 2 8	4	T h e t f o r d	A m i a n t e	Thetford-Thetford	Mines d'Amiante Bell	
4005-59-7110	1 1 . 1 4 6	1 8 0 4 . 0 8 7	P - 5 6 2	1	0 I r l a n d e	A m i a n t e	Thetford-Thetford	Mines d'Amiante Bell	
4105-96-4090	4 1 . 9 8 0	2 6 4 4 . 0 9 8	P - 5 6 1	1	0 I r l a n d e	A m i a n t e	Thetford-Thetford	Mines d'Amiante Bell	
4204-27-8090	3 5 . 0 6 8	2 4 2 7 . 7 6 7	5 6 0	1	0 T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4204-27-8090	1 5 5 . 5 8 1	5 4 2 5 . 3 7 8	5 5 8	9	T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4204-27-8090	3 9 . 7 2 2	3 6 2 7 . 8 0 6	542 et 462	1	6 T h e t f o r d	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4203-32-9045	3 4 . 0 5 9	3 3 2 2 . 9 9 1	P - 2 9	1	6 Coleraine	A m i a n t e	Thetford-Thetford	Societe_Asbestos	
4610-90-7505	7 . 3 1 0	1 4 0 3 . 1 9 8	P - 1 7 A	4	T h e t f o r d	A m i a n t e	Thetford-Ponbriand	Societe_Asbestos	
4610-90-7505	1 8 . 2 5 6	1 8 2 5 . 4 1 2	P 1 6 C	4	T h e t f o r d	A m i a n t e	Thetford-Ponbriand	Societe_Asbestos	

4610-90-7505	2 1 . 4 8 0	3 1 7 6 . 7 3 7	P - 1 6 B 4	Thetford	Amiante	Thetford-Ponbriand	Societe_Asbestos
4610-90-7505	2 0 . 6 0 3	3 1 7 3 . 0 1 3	P - 1 6 A 4	Thetford	Amiante	Thetford-Ponbriand	Societe_Asbestos
4912-48-2080	9 . 8 7 5	1 6 1 3 . 3 7 6	P - 1 0 B 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
4912-48-2080	9 . 4 8 4	1 6 0 5 . 7 9 6	P - 1 0 A 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
4912-48-2080	1 8 . 5 4 9	2 2 1 4 . 9 2 7	P - 9 B 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
4912-48-2080	9 . 7 0 3	1 6 1 7 . 9 7 8	P - 9 C 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
5113-29-8500	1 8 . 2 0 1	2 2 1 2 . 8 0 9	P - 6 A 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
5113-29-8500	2 0 . 6 8 5	2 9 6 2 . 0 8 4	P - 6 B 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
6224_71_3030	3 6 . 6 7 0	2 4 5 7 . 4 1 7	1 3 8 3	St-Frederic	Robert-Cliche	St-Frederic	Societe_Asbestos
6122-49-6010	2 1 . 9 5 5	2 0 7 1 . 1 0 4	1 3 C 5	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos
6022-50-5510	1 8 . 0 5 3	2 1 1 0 . 6 7 6	1 3 B 5	Broughton	Amiante	East Broughton	Societe_Asbestos
6122-49-6010	2 4 . 0 6 4	3 2 6 9 . 8 6 7	1 3 A 4	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos
6122-49-6010	2 . 0 9 3	5 8 4 . 5 0 9	1 3 B 4	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos
6122-49-6010	2 6 . 6 0 1	3 3 2 1 . 3 1 5	1 3 E 4	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos
6122-49-6010	2 . 1 6 7	5 9 7 . 2 1 8	1 3 F 4	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos
6122-49-6010	1 5 . 1 3 1	3 1 5 8 . 9 6 9	1 3 C 4	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos
6122-49-6010	1 . 2 1 0	4 4 5 . 1 5 5	1 3 D 4	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos
4810-08-0335	2 5 . 1 2 7	2 5 7 0 . 7 3 4	P - 1 3 D 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
4711-56-2538	2 . 0 5 5	5 7 9 . 0 5 6	P - 1 3 B 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
4711-56-2538	4 . 0 6 7	9 2 7 . 9 7 3	P - 1 3 D 5	Thetford	Amiante	Thetford-Robertson	Societe_Asbestos
3499-16-3525	5 . 3 6 6	1 2 0 2 . 2 5 0	2 1 0 - 4 4	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3499-16-3525	3 8 . 0 8 0	3 1 0 7 . 9 6 1	2 1 0 - 3 4	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3499-16-3525	1 4 . 2 0 6	2 2 3 7 . 0 2 2	2 0 9 - 2 4	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3499-16-3525	2 5 . 1 9 6	2 5 3 2 . 8 3 5	2 0 9 - 1 4	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3499-16-3525	2 8 . 6 8 3	2 5 8 3 . 2 4 2	2 0 9 - 4 4	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3499-16-3525	9 . 8 5 0	1 4 3 6 . 2 1 2	2 0 9 - 3 4	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3498-61-9020	3 1 . 1 8 3	2 7 3 4 . 2 0 0	2 0 8 - 2 4	Irlande	Amiante	Coleraine	Societe_Asbestos
3498-61-9020	3 2 . 7 1 0	2 9 9 0 . 4 8 5	2 0 8 - 4 4	Irlande	Amiante	Coleraine	Societe_Asbestos
4001-80-3055	3 . 9 1 2	1 3 2 8 . 4 6 5	P - 4 4 8 8	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
4001-80-3055	2 6 . 6 4 2	3 8 9 3 . 5 3 7	P - 4 4 7 7	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3902-33-0595	8 6 . 5 6 0	4 5 2 5 . 5 0 9	P - 4 4 7 7	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
4001-80-3055	5 8 . 2 3 2	4 0 4 6 . 4 7 6	P 3 2 2 6	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3795-24-8080	6 7 . 1 9 2	4 7 8 4 . 2 4 6	P-Bloc B-1 1	8 Coleraine	Amiante	Coleraine	Societe_Asbestos
3795-24-8080	9 0 . 4 6 6	4 1 6 7 . 7 3 7	P - 2 0 4 4	Irlande	Amiante	Coleraine	Societe_Asbestos
3795-24-8080	4 6 5 . 0 1 2	1 3 9 6 1 . 8 1 9	P-Bloc A-1 1	7 Coleraine	Amiante	Coleraine	Societe_Asbestos
3898-71-4095	4 9 6 . 3 6 2	1 1 1 6 0 . 1 0 8	P-Bloc A-1 1	7 Coleraine	Amiante	Coleraine	Societe_Asbestos
3498-61-9020	7 9 . 8 8 6	3 8 3 7 . 8 8 4	2 0 7 4	Irlande	Amiante	Coleraine	Societe_Asbestos
3298-96-8590	1 7 . 5 2 6	1 8 0 7 . 4 7 2	P-196-7 3	Irlande	Amiante	Irlande	Societe_Asbestos
3902-33-0595	6 2 . 8 9 3	4 2 7 5 . 2 9 3	P - 4 5 0 8	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3902-33-0595	8 2 . 4 2 1	3 9 7 5 . 0 4 9	P - 4 4 9 8	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
3902-33-0595	9 6 . 6 4 9	4 1 4 1 . 5 4 5	P - 4 4 8 8	Irlande	Amiante	Thetford-Black Lake	Societe_Asbestos
4001-80-3055	4 0 . 8 3 6	3 4 6 5 . 4 6 8	3 2 1 4	4 Coleraine	Amiante	Thetford-Black Lake	Societe_Asbestos
4105-96-4090	2 1 . 7 5 3	1 9 1 8 . 7 0 1	P - 2 7 4	Thetford	Amiante	Thetford-Thetford	Mines d'Amiante Bell
4105-96-4090	1 . 8 8 6	7 0 2 . 5 0 9	P - 2 6 4	Thetford	Amiante	Thetford-Thetford	Mines d'Amiante Bell
4105-96-4090	2 . 6 3 1	1 4 2 9 . 8 2 7	P - 2 1 1 5	Thetford	Amiante	Thetford-Thetford	Mines d'Amiante Bell
4204-27-8090	2 8 . 1 9 3	3 7 3 3 . 0 6 5	P - 4 6 0 5	Thetford	Amiante	Thetford-Thetford	Societe_Asbestos
4204-27-8090	4 0 . 4 2 6	4 2 8 7 . 8 7 9	P - 4 5 0 5	Thetford	Amiante	Thetford-Thetford	Societe_Asbestos
4204-27-8090	2 2 . 2 7 4	3 5 6 1 . 3 8 1	P - 5 3 3 6	Thetford	Amiante	Thetford-Thetford	Societe_Asbestos
4204-27-8090	7 . 6 0 0	1 2 3 6 . 1 9 8	4 6 3 6	Thetford	Amiante	Thetford-Thetford	Societe_Asbestos
4204-27-8090	2 9 . 3 0 4	4 0 7 5 . 5 4 5	P - 3 0 A 1	6 Thetford	Amiante	Thetford-Thetford	Societe_Asbestos
4204-27-8090	2 5 . 0 6 0	4 0 4 3 . 6 3 3	P - 5 4 1 1	6 Thetford	Amiante	Thetford-Thetford	Societe_Asbestos
4105-96-4090	2 4 . 4 4 7	2 6 9 6 . 5 3 3	P - 3 9 8 5	Thetford	Amiante	Thetford-Thetford	Mines d'Amiante Bell
4105-96-4090	2 1 . 0 1 2	2 0 0 0 . 3 8 6	P - 4 2 0 5	Thetford	Amiante	Thetford-Thetford	Mines d'Amiante Bell
6122-49-6010	3 7 . 6 2 0	2 6 0 5 . 2 2 3	1 4 A 5	Broughton	Amiante	Sacre-Coeur-de-Jesus	Societe_Asbestos

Table 2: List of the property matricules in the agreement between Nichromet, and Société Asbestos Limitée and 9075-6453 QUEBEC Inc. (Mines d'Amiante Bell).

In addition to the above Normandie and Bell, Nichromet also has agreement to have access to Asbestos tailings of the British Canada I, British Canada II, King Beaver, National and Lac d'Amiante.

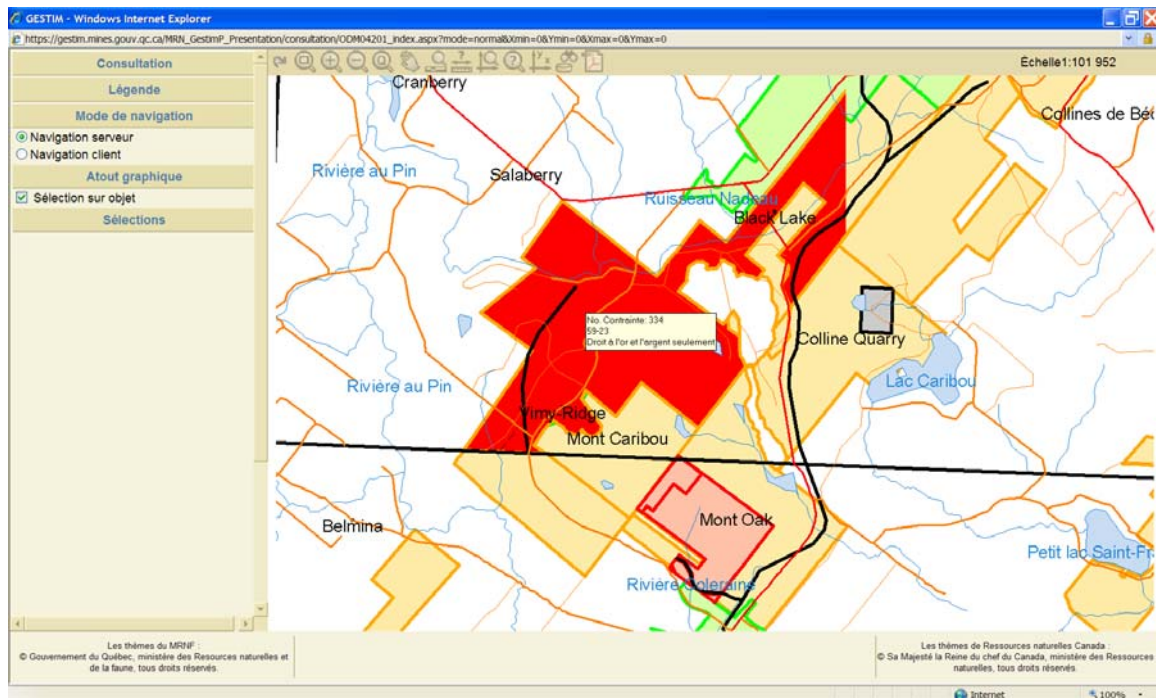


Figure 2: Expression of constrain in GESTIM where the land can only be claimed for Gold and Silver over usable licenses by Nichromet in orange.

Important notice: while Geostat was working to prepare accurate resources estimate of the asbestos mines tailings for Nichromet which had a formal signed agreement with LAB and Company & LAB Chrysotile Inc. for all the piles went bankrupt on August 5, 2007. As a result, the Pilot Plant Agreement between the parties and Nichromet Extraction Inc. dated as of December 20, 2004 extended by virtue of the Extension Agreement dated as of November 10, 2006 has ceased to exist.

However a formal letter from President of Asbestos Corporation Limited which holds exclusive right to mine, occupy and use certain asbestos properties located in Thetford Mines, Quebec, comprising asbestos tailings and tailings dumps, land and adjacent buildings has intention to reproduce substantially the same term and conditions as the Pilot Plant Agreement as soon as possible with Nichromet Extraction Inc.

In the mean time the President, Mr. John LeBoutiller, confirms within the official formal letter that he is making available to Nichromet the buildings where the pilot plant is located as well as the asbestos tailings which were generated by, and are adjacent to, the following mines:

- Normandie
- British Canadian I
- British Canadian II
- King Beaver
- LAC & National, property of Lake Asbestos of Canada Limited.
- Bell, property of 9075-6453 Québec Inc.

A copy of the formal letter is in Appendix.

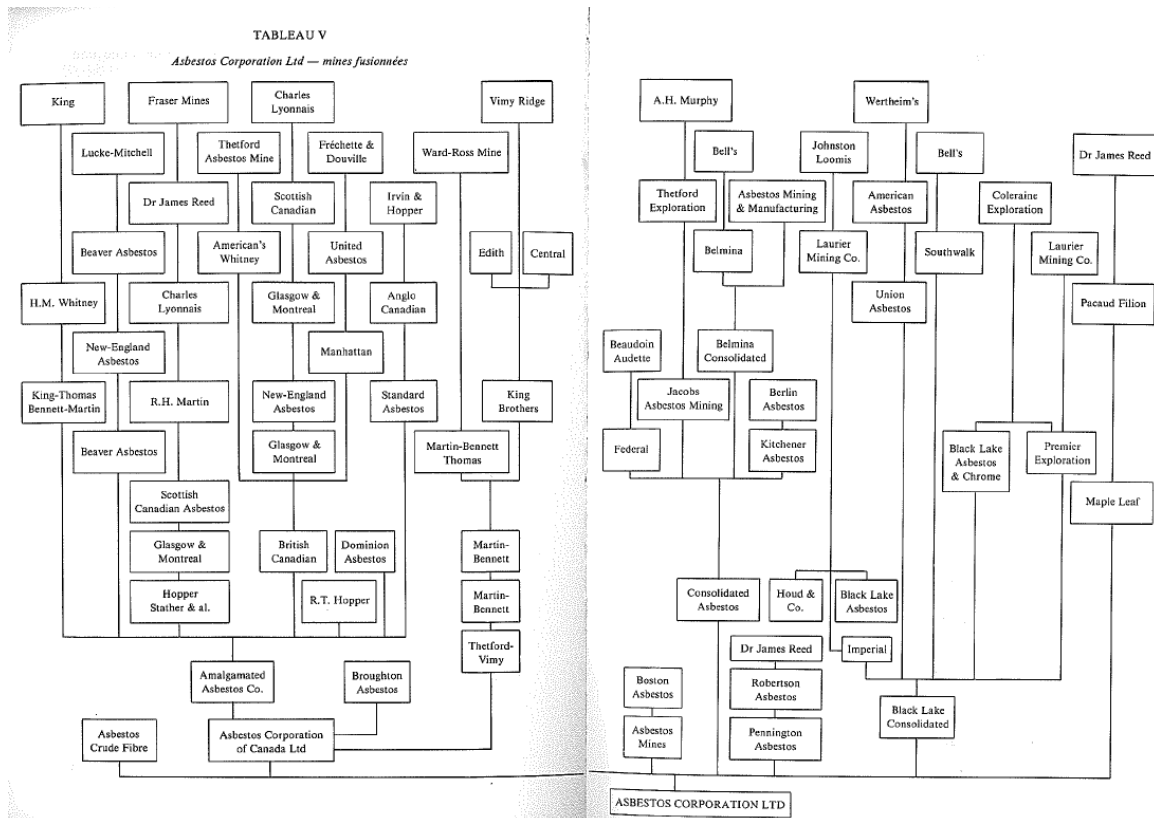


Figure 3: Flow chart of the merged properties under Asbestos Corporation LTD (as per Clément Fortier book of 1983, pages 114-115)

Flow chart is presenting the acquisition path between companies over time.

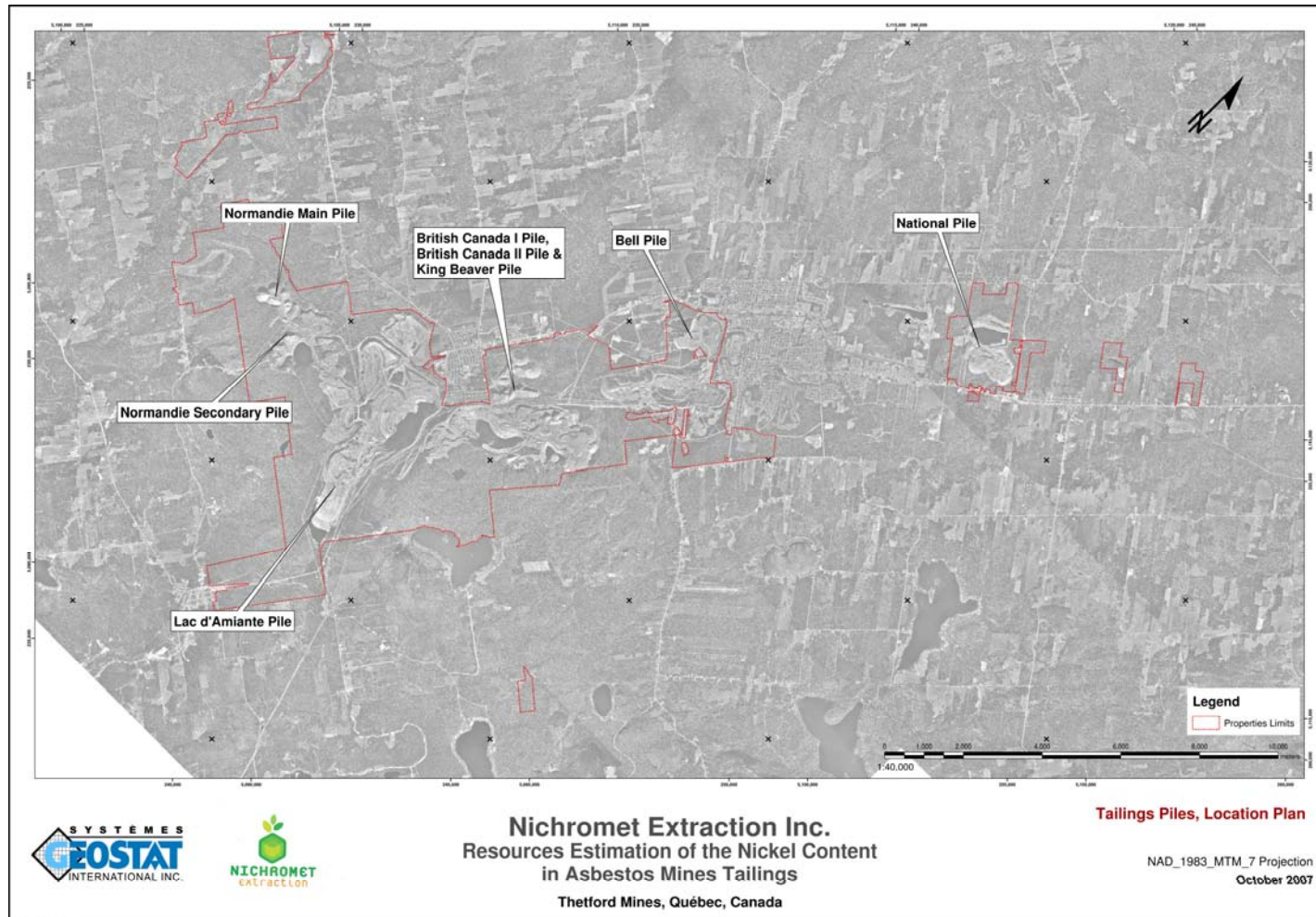


Figure 4: Asbestos Mines Tailings piles locations with property boundary.(not to scale)

The above plan is in appendix.

4. Accessibility, climate, local resources, infrastructures and physiography

4.1 Accessibility

The Normandie Pile project is easily accessible by the provincial paved highway 165, a regional road linking the town of Plessisville to Black Lake, now part of the town of Thetford Mines and 3.5 km southwest on the chemin de Vimy paved road linking to the town of Vimy-Ridge.

The topography consists of small hills and valleys with farm activities. Layers of sand and gravel varying from 10 to 50 meters cover the bedrock. Vegetation consists of leaf trees and conifers of the mixed forest, mainly yellow birches and white spruces. The thickness of the overburden varies between zero in the cliff areas of the nearby hills and mountains to 50 metres. Only a few natural outcrops are present on the property on the flanks of the nearby hills. A small buggy lake is situated 2 km west of the Normandie pile but is not inside the property's perimeter. The abandoned open pit is partially filled with water.

4.2 Climate

The climatologic data used to characterize the sector under study comes from the meteorological station of Quebec City,. These observations were carried out during 1961-1991.

4.2.1 Precipitation

On average 1209 mm of water fall annually in the area. The most abundant precipitation falls in September, with 124 mm of water. Average monthly precipitation ranges from 74 mm in February to 124 mm in August.

Snow falls from October to May, but is much more significant from November to March. The average for these five months is 42.1 cm of snow.

4.2.2 Temperature

In the area of Thetford Mines, the average temperature during July reaches 16°C, while the temperature in January falls to -11°C.

4.2.3 Winds

The anemometric data collected in Quebec City between 1961 and 1991 show that from September to March the west winds are dominant, whereas from January to April the winds coming from the southwest are more frequent. Furthermore, in this sector, the winds have

an average velocity varying between 11 and 17 km/h for an average of 14.5 km/h during the year

4.3 Local resources

The regional resources concerning labour force, supplies and equipment are abundant, the area being well served by geological and mining service firms in the asbestos sector. The closest towns, Black Lake and Thetford Mines, provide easily the workforce for major services and mine exploitation considering the low level of economic activity.

4.4 Infrastructures

The buildings of the Normandie mine are still in good shape although low maintenance is currently done. Security agents do a regular check of the infrastructures. All sleeping accommodations, machinery, hardware and food supplies are easily accessible in the town of Thetford Mines about 30 minutes from the site.

Electrical power is still available in the buildings of the Normandie Mine. Also, storage space is available next to the Nichromet office in the previously named LAB Chrysotile Inc. now Société Asbestos Ltée since the dissolution of the Limited Partnership.

The Quebec government has encouraged, in the past, natural resources development through the granting of permits, title security and financial incentives. Politically, the province and the municipality of Thetford Mines are supportive of mining activities. The extraction of nickel from the tailings pile is considered in the same field of activity.

4.5 Physiography

The overburden depth is varying from 10 to 50 meters as found on the information related to holes and is consisting of layers of clay, sand and gravel.

Topographic relief is moderate to strong. The Normandie Pile is locally up to 100 metres high. The eastern part of the property is very high relief due to a hill where the underground Normandie mine is situated. White spruces and yellow birches characterize the vegetation in the well-drained part of the property. A small bog is encountered to the west of the pile. A small lake borders the southeast corner of the pile. See pictures below.

The immediate proximity of the Normandie Pile project presents low relief topography. Primarily black spruce forests, swamps, and small lakes cover the property area. The vertical relief is 350 metres above sea level.

The tailings piles are reaching up to 110 m high like the Normandie main tailings piles.



Figure 5: Looking west from top of the pile: a buggy lake to the west of the Normandie Pile.



Figure 6: Looking East from top of pile: Normandie infrastructures and secondary tailings pile in center.

The above picture also shows a small lake bordering the southeast part of the pile. See also high relief of the Appalachians to the east. To the right is Mount Caribou.

5. History

5.1 Summary of previous work

The Normandie asbestos deposit was discovered in 1946 after a drill hole exploration program. A mill of a capacity of 6370 tonnes per day was running at that time and is now used as a warehouse for the Société Asbestos Ltée (Mazarin). The mine was operated from 1955 to 1982 by different subsidiary companies of the Asbestos Corporation Ltd (Société Asbestos Ltée).

Over the years many groups and research institutes have tried to value the asbestos tailings of the region. There has been an historical estimation of resources and quality of various tailings piles in the past.

5.1.1 Historical resources

Nichromet personnel have been able to retrieve a resource estimation of asbestos tailings piles done for LAB Chrysotile Inc. from 1996 and revised in 2001 by Michel Labbé eng. I, Claude Duplessis eng. personally contacted by phone the author of this table in order to validate the basis of these estimations. Mr Labbé mining engineer told me : *the tonnage estimation in the piles comes from different sources and level of confidence, some data or part of the tonnage in the piles comes from balanced sheet of the processing plant mass balanced while other relatively old piles were calculated on volumetrics. Mr. Labbé has mentioned a tonnage factor in the range of 1.37 per cubic meters* He also made reference to the mining technician who had assisted him in his task of estimation of resources of the asbestos tailings, it was Mr. Pamphile Vachon from Thetford who is actually retired. We have been able to reach him by phone and has confirmed that the tonnage calculation are accurate. Michel Labbé was chef of Engineering and Exploitation for LAB Black Lake operations from November 1997 to November 2003.

The following table presents the historical resources in the tailings piles up to 2001 based on 1996 updated calculation.

The table following the resource table shows average estimated grades per piles from Centre de Recherche Minéral du Québec (CRM) report.

DOSSIER RÉSIDUS

LAB Chrysotile, Inc.**Estimation des tonnages des différentes haides de résidus****Au 1^{er} janvier 1996**

RÉVISÉ FÉV 2001

Location	Tonnage	ÂGE
BE SAL (KB, BC, NORM- MABLE)	155 000 000 + 3,000,000	variable 1900 à 1997
Beli	60 000 000 + 6,000,000	1900 à PRÉSENT
LAQ	120 000 000 + 20,000,000	1950 à PRÉSENT
National	45 000 000	1956 à 1985
Federal	2 000 000	?
Flinkets	2 000 000	1940? à 1970?
Total	384 000 000 + 29,000,000	

PAS GÉRÉ
PAR LAB →Michel Labbé, ing.
01-02-21

Table 1 : Historical resources estimation of various asbestos tailings piles of LAB Chrysotile Inc. (2001 as per Michel Labbé mining Engineer)

Tableau 1: Composition chimique moyenne des résidus d'amiante tout venant non calcinés (% en poids)

- 2 -

SOURCE	MgO	SiO ₂	Fe ₃ O ₄	H ₂ O	Al ₂ O ₃	Ca O	Na	K	Ni	Co	Mn	Cr	Fe	Fe ₂ O ₃
BELL	38,25	38,6		12,53	1,28	0,43			0,23			0,09	5,2	8,21
NATIONAL	38,9	33,9		13,7	0,5	0,36	0,03	0,09	0,23			0,27	4,6	7,88
CAREY	41,0	36,5		13,7	0,40	0,15		0,02	0,29	0,006	0,044	0,15	5,5	7,3
KING BEAVER	36,7	38,6		12,1	0,94	0,3			0,21			0,29	5,1	
CAN. JOHNS MAIN	38,1	39,2		12,0	0,81	0,35			0,23			0,34	6,1	
LAC D'AMIANTE	39,8	37,1		11,9	0,64	0,38			0,24			0,10	6,0	
BRITISH CANAD #1	39,2	39,4		13,2					0,23			0,26	5,59	
BRITISH CANAD #11	39,0			13,3					0,24				5,3	
BOLDUC CANADIAN	36,3	37,5		12,9	1,32	1,34	0,006	0,010	0,16	0,015	0,05	0,2	7,2	
COURVAN	38,5	37,6		17,3	2,53	1,32	0,009	0,018	0,19	0,010	0,05	0,54	5,1	
MARBRIDGE	39,1			15,5	1,06	2,39		0,020	0,385	0,011	0,07	0,19	5,6	
ABITIBI ASBESTOS	36,65	35,6			1,70	0,98	0,005		0,19	0,02	0,01	0,20	8,9	
FLINKOTE	38,0	36,8	9,2	13,3										
NORDENHAM	38,6	32,2		18,1										8,2
ST-REMI	39,0	38,7		13,7										8,0
BOSTON	38,5	34,9		16,3										6,3
GOLDEN AGE	38,0	35,1	9,7	14,8										
NORMANDIE	37,5			12,0					0,25				5,2	
JEFFREY	37,6			13,0					0,22				6,0	

Table 2: Average chemical values of components in various asbestos tailings piles of the region(CRM)

5.2 Details of previous work on the Normandie Pile

To the author's knowledge, no extensive exploration and resource estimation work was done on the Normandie main and secondary pile, neither on the Bell Mine tailings pile. However, the data available from historical works to value the tailings show an average grade of 0.21% nickel in the asbestos mill tailings of Thetford Mines area. Mineralogy study of Chrysotile Asbestos from Scientific Advances in Asbestos from 1967 to 1985 was done by A.A.Hodgson in 1986, CRM of Quebec had also carried chemical composition assessment of various tailings from asbestos mines in Quebec in order to find a use for these available tailings (as shown in previous table). Nichromet has built a synthesis document of past works on nickel recovery from Serpentine dated June 2004. This document includes reports and tests dating as far as 1959, the document is available at Nichromet office.

The chemistry of the asbestos tailings is complex. According to Dr. Lalancette of Nichromet Extractions Inc. the metallurgical recovery of the nickel is based on the work done by G. W. Riley in the 60's on the Carey Canadian Mines tailings. One has to remember that according to the literature, apart from the nickel directly in the serpentine chemical formula, it is present in the asbestos tailings mainly in two forms : Heazlewoodite (Ni_3S_2) and a native nickel-iron alloy Awaruite (Ni_3Fe). Even if some nickel has replaced the magnesium in the serpentine formula to form Garnierite ($\text{Ni,Mg}(\text{SiO}_3)_x\text{H}_2\text{O}$), its amount is small enough ($\text{NiO} \pm 0,25 \%$) as probably not to be magnetic. It is not expressly stated in Mr. Riley's report but one must conclude that the nickel he recovered by the means of magnetic separators was probably in the form of Heazlewoodite and Awaruite and not in the form of nickel oxide (NiO) that has most likely reported to the tailings of his pilot plant flowsheets.

Actual tests at Nichromet pilot plant facilities in 2007 are showing that nickel was probably under the form of Heazlewoodite (Ni_3S_2) initially and it has been transformed over time into Garnierite which is a hydrochloridric acid leachable form of nickel mineral $\text{Ni,Mg}(\text{SiO}_3)_x\text{H}_2\text{O}$ as Dr. Lalancette indicated in our latest communication.

6. Geological setting

6.1 Regional geology

Well preserved ophiolitic sequences outcrop at several places along the Bay-Verte-Brompton line (LBVD) all the way to Newfoundland and even to the United States. The Widest ones are located in important scales: Mont-Orford, Asbestos and Thetford Mines, in the Eastern townships and the Mont-Albert in Gaspésie. Several fragments are also observed in the layers represented by the schists of Sutton, the schists of Bennett and the groups of Caldwell and Rosaire. Elsewhere, small portions of ultramafic rocks are present punctually, as along the layer of Ascott-Weedon and Chain Lakes in the Eastern townships and in Gaspésie in the mixtures of the Ruisseau Nadeau, the Complex of River Port-Daniel-North, the Complex of La Rédemption and the Complex of Lady Step (Brisebois and Al; 1992).

Until very recently, these sequences were described in the literature as being intrusive rocks. They are in fact allochthon units coming from a dismembered oceanic crust (Laurent, 1973). The various facies were reevaluated since the 1970's, in particular by Laurent and Al (1979) and Laurent and Hébert (1989). Except for the scales of the Eastern townships, where the effusive higher parts are preserved (pillowed basalts or solid masses), with pyroclastic and sedimentary rocks associated, the ophiolitic sequences are truncated; they only contain a part of the cumulates (dunite, harzburgite, pyroxenite, banded gabbro with or without sheet dykes) which constitute a complete ideal section.

Some of the largest asbestos layers of North America are located in the serpentinized peridotites; disseminated chromite levels are present in ultramafic cumulates. The small plutons of plagiogranite or diorite which evolved in an oceanic environment cut locally the lower part of the sequence. Until very recently, these ophiolitic sequences were interpreted like coming from oceanic dorsals; however some of them could be assigned to back arc environments (Tremblay, 1992), which complicates the paleogeographic rebuilding. The sole of these allochthon blocks is generally made up of amphibolite or serpentinized peridotite. The absolute age of these ophiolites is difficult to obtain due to the nature of the rock; it is regarded as an indirect way as being of Cambrian (Slivitzky and St-Julien, 1987) or Ordovician age.

6.1.1 Other deposits in the area

The Thetford Mines region is well known for its vast asbestos potential and the number of mines who operated throughout the years. To the author's knowledge, there are no other deposits or tailings piles or companies with the same activity field as for nickel extraction in the Asbestos tailings in the Thetford Mines Area at the moment.

In this study, resources are being estimated for the Normandie, Bell, National, Lac d'Amiante, British Canadian I, British Canadian II and King Beaver mines asbestos tailings.

Other tailings piles which could be considered as deposits also in the Thetford mines region are those of: Carey, Canadian Johns Manville and Flinkote. Nichromet does not have official access or agreement with the owners of those tailings piles. nickel grades of those tailings piles as per historical compilation shows grades ranging from 0.16 up to 0.38% but generally in the 0.21 to 0.24% range.

The potential of resources for the extraction of nickel is important because of the enormous volume of tailings in the Thetford Mines area.

6.2 Local geology (Bedrock)

In the piles there is no special geology, the tailings are made of homogeneous rejects from dry asbestos processing mills and the material ranges from smaller than 1mm to 7 cm diameter rocks.

Taken from the preliminary report RP 295(A) of 1955*, in the Examine database of the Ministère des ressources naturelles et de la faune, secteur Mines (MRNF). What and where the tailings come from:

Vimy Ridge Group

The deposits of this group are situated in the Ireland Township on the north slope of the Caribou Mountain, adjacent of the contact of the peridotite with the Caldwell quartzite. There are three distinct deposits in the Vimy Ridge zone: The Normandie ore body at the northeast end, the main Vimy Ridge at the center and the "C" group at the southwest end. They form a north-easterly-trending zone with a length of 4,600 feet and a maximum width of 1600 feet. The vertical range of the deposits is of the order of 1,200 feet.

A zone shattered and completely serpentized peridotite, trending roughly parallel to the major axis of the ore zone, has been proved by drilling to extent from the northwest end of Black Lake to the Vimy Ridge mine. A pronounced valley that lies along the steep northwest end of Caribou Mountain marks its continuation to the southwest of the mine.

Normandie Orebody

The newly(1955) discovered ore body, which lies in lots 24 and 25, range III and lots 24 and 25, range IV, Ireland Township. It pitches northward beneath the Caldwell quartzite. Asbestos Corporation Limited owns the property.*

Vimy Ridge Mine

Asbestos Corporation Limited owns the Vimy Ridge Mine. Open pit mining methods are employed. The mill has a capacity of 8400 tons per day. The main pit is in lots 24 and 25, range III, Ireland Township. The ore body has a length of 1,500 feet, a maximum width of 1,500 feet and a vertical range of about 600 feet. It is separated from the Normandie orebody by 400 feet of barren ground. The asbestos occurs as thin, closely spaced parallel veins in partly serpentized peridotite. The veins dip 20° to 30° northeast.

Apparently they are subsidiary to a system of steep dipping faults that strike generally north. Ribbon veining is common, these veins having in general the same attitude as those of the main vein system.

“C” Group

The “C” group is a pocket of asbestos-bearing ground in lot 25, range III, Ireland township, having a horizontal diameter of 400 feet and a depth of 100 feet. It is separated from the main Vimy Ridge ore body by 1,200 feet of practically barren ground

The material collected from the 2007 sonic drilling campaign permitted to better define the loose material from the tailings. Mainly Chrysotile and serpentized ultramafics, sand, gravel and clay were encountered.

6.2.1 Stratigraphy (Normandie main pile)

The material extracted from the piles comes from the Normandie mine. The pile’s material grain size consists in a variety of powder, fibres (mainly Chrysotile and serpentine), sand and gravel.

Some mafic, ultramafic materials were encountered but usually, the tailings are crushed evenly. Some differences in grain size occur at depth but there is no easy correlation from hole to hole.

The main stratigraphic change occurs in the level of compaction of the material where the specific gravity near surface range between 0.8 to 0.9 tonne/cubic meter while it increases with vertical depth up to 1.2 g/cc within 15 m and further increases in average near 1.3 g/cc at 30 m.

6.2.2 Structure

No major structures were encountered in the Normandie Pile. However, we must take notice that this is a tailings pile thus, the possibility of contaminant (waste) like lumber and metal is possible and was observed. The presence of an old conveyor vestige on top of the pile must be taken account in future excavation works.

Some levels were probably more compacted by the trucks movements while the top part was filled with conveyors, even work to prepare and install conveyors must have result in some compaction of the material.

No geological structure has cut the piles, only segregation of material may have occurred during disposal to a certain point. In order to compensate this effect samples were also taken at the bottom of the pile.



Figure 7: Looking East: Hole NOR-3 site, behind pick-up wooden structure remains of old conveyor.

7. Deposit type

The deposit type described below is of the general types of Asbestos underground mines and open pits in Canada. It is important to keep in mind that the material considered in this report refers only to the tailings of the Normandie mine. Note also that the mine is no longer in operation since 1983.

The asbestos chrysotile deposits were formed during the deformation and the deterioration of the ultramafic rocks under conditions of low pressure and temperature metamorphism (300 ± 50 °C with hydrostatic pressures lower than 1 kbar) (O' Hanley, 1991). Wicks and Whittaker (1977) concluded that the formation of chrysotile veins requires specific conditions of prograde metamorphism.

The preponderance of transverse fibre veins in the stockworks indicates that the chrysotile crystallized during the formation of fractures in tension or the dilation of preexistent fractures. O' Hanley (1988) proposed a model for the deposits boxed in peridotites of the alpine type, based on the elements common observed in the deposits of Thetford Mines, Cassiar and Woodsreef (Australia). In each case, the chrysotile was formed for one transitional period from the mode of regional constraints, with the passage of tectonics of convergence to tectonics of coulissage. The chrysotile transverse fibres filled extension fractures are formed in massive serpentinite. If, in the rock, a schistous fabric had been formed before the change of the mode of constraints, the rock would have continued to become deformed by ductile shearing rather than by fragile fracturing. It is necessary that the temperature, the pressure and the composition of the fluids are in the field of stability of chrysotile during the tension fracturing and, moreover, that the deformation and the metamorphism do not continue after the veins formation, up to the disappearance of chrysotile. O' Hanley (1988) observed that the presence of a major active fault during the change of constraints mode, was an important factor of the Cassiar and Thetford Mines deposits.

Taken from Geology of the types of mineral deposits of Canada V.1

8. Mineralization

8.1 The asbestos tailings piles mineralization

The useful substance taken from the Normandie Mine was chrysotile. Some magnetite and brucite are collectively associated with the chrysotile in veins. In host rocks, we find the following minerals: lizardite, antigorite, magnetite, brucite, chlorite, tremolite, talc, magnesite or dolomite, olivine, orthopyroxene and chromite.

The asbestos veins usually consist of transverse fibres, either crossed, meaning oriented fibres of chrysotile oriented at a high angle from the wall of the vein itself, or of longitudinal fibres, generally parallel to the walls of the vein which in that case present the aspect of a surface of gliding. The veins of transverse fibres constitute the most part of the ore of the deposits in Canada. The chrysotile also appears in aggregates, where the muddled asbestos fibres compose up to 80 % of the rock. The nickel is believed to be at the contact of chrysotile veins and the mother rock.

It is well known that all of the Quebec Eastern Townships asbestos ores contain a small amount of nickel mainly in the form of a nickel sulphide (Heazlewoodite Ni_3S_2), a native nickel-iron alloy (Awaruite Ni_3Fe) and most important, a hydrated metasilicate where the nickel took the place of some of the magnesium in the serpentine formula to form Garnierite ($\text{NiO}, \text{MgO}(\text{SiO}_2) \cdot x\text{H}_2\text{O}$). The non-silicate and probably non-acid soluble nickel content is quite similar for all the mines and is more or less 0.25 % Ni. On the other hand it would seem that the acid soluble nickel oxide (NiO) content of the Garnierite is also in the 0.25 % range or 0.20 % Ni. It is not clear yet, but apparently only the nickel in the Garnierite and perhaps some in the Heazlewoodite undergoes the Nichromet process. It has to be so, as at least Awaruite is more or less a form of stainless steel and thus more than probably very refractory to acid disintegration.

Other elements and metals that could be of interest are magnesium, chrome and iron.

In this study in addition to the Normandie main tailings piles, the Bell, the National and Lac d'amiante piles which have been explored with Sonic drill hole as well as excavator test pits. The other piles under agreement with Nichromet are also considered. They are not mineralized zones but tailings piles. Material within the pile has proved to be relatively homogenous in terms of nickel grade as shown in the resource section of this report.

9. Exploration work

9.1 Survey done by Mesures Lasertech Inc.

The company Les Mesures Lasertech Inc surveyed the Normandie main tailings pile. The coordinates system used is MTM NAD 83, zone 7. The survey was carried out with a GPS Topcon GR3 and a Quarryman ALS. In each case, the base position was established by auto positioning of the GPS base. The precision of the initial points is about 2 meters in x and y coordinates, and 3 meters in z coordinate. The interrelation between all surveyed points is in centimetres. The first calculation of the resources volume is about 21,286,000 cubic meters.

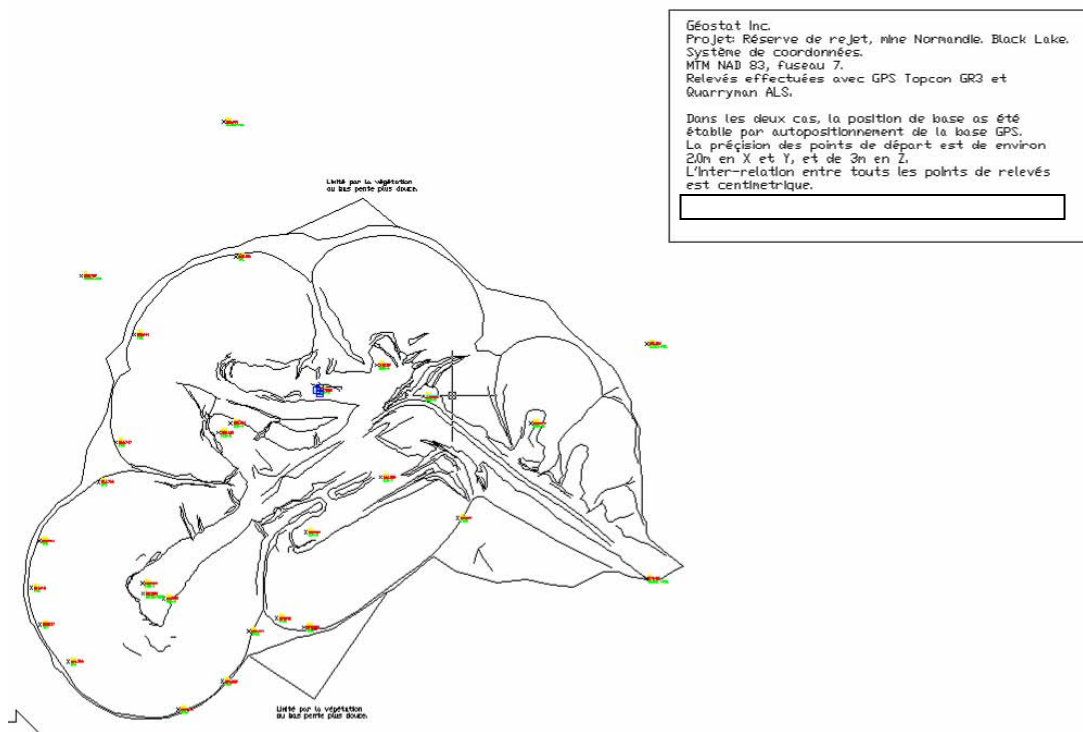


Figure 8: Survey of the Normandie main tailings pile, Black Lake sector, Thetford Mines, Québec

In addition to the Normandie surveying, Lasertech has surveyed test pits and drill sites of the Bell tailings. Moreover benchmarks were installed for future reference.

9.1.1 Volume evaluation of the Normandie Main Pile

The first estimation of the resources volume is about 21,285,988 cubic meters. This result was achieved by the survey of the pile using a good differential GPS. A professional team on site calculated the volume estimation; imprecision comes from the base of the pile.

10. Drilling, mapping and trenching

The drilling campaign was executed during June 2007, the drilling contractor was Boart Longyear Sonic division and professionals of Geostat did the supervision. A total of eleven (11) holes were drilled with a sonic drill for a total of 1,955 ft (595.9 meters). Ten (10) holes were drilled on the tailings piles of the Normandie main pile and one (1) hole was drilled on the main tailings pile of the Bell mine.

In addition of the drill holes, 30 test-pits were dug for additional sampling. Fifteen (15) test-pits 2 meters deep were dug at the base of the Normandie main tailings pile and nine (9) test-pits were excavated around the drill hole on the Bell pile. Two additional tailings areas were sampled: 3 test-pits were excavated on a tailings area of the Lac d'Amiante mine and 3 others test-pits were done on the National mine tailings piles.

The test-pits were excavated by the exclusive contractor of LAB Chrysotile (at that time), Mr. Michel Gouin.



Figure 9: Sonic Drilling set-up at NOR-1 drill hole on the Normandie tailings pile.

The Sonic drill was used in order to maximize the recovery of the fibrous material and also assess as precisely as possible the specific gravity of the samples taken. The Sonic drill technique is one of the best for recovery of unconsolidated material with little disturbance above and below water table. This machine and technique was used because Geostat had successfully used it in saturated mineral sands of Madagascar with success. Costs per meter are higher than conventional drilling but recovery was a must in this not so evident drilling conditions.

Hole Id	Foot	Metres	Initial metrage targeted
NOR-1	325	99.06	100
NOR-2	105	32.004	30
NOR-3	105	32.004	30
NOR-4	325	99.06	100
NOR-5	245	74.676	75
NOR-6	195	59.436	60
NOR-7	145	44.196	45
NOR-8	195	59.436	60
NOR-9	105	32.004	30
NOR-10	105	32.004	30
BEL-1	105	32.004	30
TOTAL	1955	595.884	590

Table 3: List of meters drilled during the summer 2007 sonic drilling program

MTM NAD 83 Zone7				
Name	Easting	Northing	Altitude (m)	Type of GPS
NOR-1	232937	5098908	366	Differential
NOR-2	232969	5098885	365	Differential
NOR-3	233053	5099135	359	Differential
NOR-4	233070	5099149	359	Differential
NOR-5	233201	5099199	347	Differential
NOR-6	233292	5099237	342	Differential
NOR-7	233297	5099067	342	Differential
NOR-8	233184	5098985	353	Differential
NOR-9	233362	5099189	335	Differential
NOR-10	233525	5099149	323	Differential
BEL-1 (NOR-11)	241145	5105825	337	Differential
TP-1	233079	5099401	250	Differential
TP-2	232925	5099283	261	Differential
TP-3	232897	5099120	265	Differential
TP-4	232870	5099061	265	Differential
TP-5	232781	5098971	263	Differential
TP-6	232769	5098900	265	Differential
TP-7	232782	5098845	265	Differential
TP-8	232824	5098789	269	Differential
TP-9	232890	5098715	273	hand Held
TP-10	232992	5098717	275	Differential
TP-11	233058	5098759	276	Differential
TP-12	233098	5098835	279	Differential
TP-13	233140	5098855	281	Differential
TP-14	233181	5098841	275	Differential
TP-15	233414	5099006	282	Differential
TP-16	237844	5097264	272	hand Held
TP-17	237831	5097231	278	hand Held
TP-18	237834	5097195	276	hand Held
TP-19	247164	5110754	423	hand Held
TP-20	247079	5110746	439	hand Held
TP-21	246775	5110571	370	hand Held
TP-22	241212	5105806	337	Differential
TP-23	241247	5105714	338	Differential
TP-24	241182	5105748	339	hand Held
TP-25	241114	5105772	342	hand Held
TP-26	241125	5105863	344	hand Held
TP-27	241234	5106093	331	Differential
TP-28	241132	5105957	339	Differential
TP-29	241096	5105864	327	Differential
TP-30	241080	5105815	327	Differential

Table 4: Drill holes and test pits coordinates.

11. Sampling methodology

Boart Longyear with a Sonic GP24-300RS carried out drilling. The Sonic drill extracted loose to very compact core from the tailings piles and places it in a sealable plastic tube for easy transportation and storage. Internal core barrel diameter is four inches (100 mm).

The core retrieved during drilling was generally measuring 5 ft (1.52 m). The core was cut in two equal parts on the longitudinal direction. The core was again separated in two samples of 2.5 ft (0.76 m) length, resulting in four samples of which two samples for analysis and two save samples for storage. The recover length of samples was measured for recovery calculation. Each corresponding analysis and save sample was equally separated and weighted on site in order to get the same weight (wet weight).



Figure 10: Numbering, weighting, and closing sample bags on site by Geostat's technician Nicholas Babin.



Figure 11: Cutting in half the samples with a machete on site by Geostat's technician.

Date	Hole Id	footage drilled		Comments
		From	to	
2007-06-15	NOR-1	4.57	16.764	first 4.57m lost
2007-06-16	NOR-1	16.764	68.58	
2007-06-17	NOR-1	68.58	99.06	EOH
2007-06-17	NOR-1	0	4.57	1m away from NOR-1
2007-06-17	NOR-2	0	10.668	
2007-06-18	NOR-2	10.668	32.004	
2007-06-18	NOR-3	0	32.004	EOH
2007-06-18	NOR-4	0	32.004	EOH
2007-06-19	NOR-4	62.484	77.724	TP-1 to 15
2007-06-20	NOR-4	77.724	99.06	EOH
2007-06-20	NOR-5	0	19.812	Rain storm 2hrs
2007-06-21	NOR-5	19.812	74.676	EOH
2007-06-22	NOR-7	0	44.196	
2007-06-25	NOR-8	0	59.436	
2007-06-26	NOR-6	0	59.436	Rain storm 3hrs
2007-06-27	NOR-9	0	32.004	EOH
2007-06-27	NOR-10	0	32.004	EOH
2007-06-28	BEL-1 (NOR-11)	0	32.004	End Of Hole

Table 5: Drilling campaign schedule.

A total of 716 samples were taken for nickel assay. 686 samples were taken from the drill holes and 30 samples were retrieved from the test-pits.

Hole Name	Sample Number series
NOR-1	348151 to 348247
NOR-2	348248 to 348250
NOR-3	53751 to 53788
NOR-4	53789 to 53826
NOR-5	53827 to 53900
NOR-7	437001 to 437037
NOR-8	437038 to 437121
NOR-6	437122 to 437177
NOR-9	437178 to 437249
NOR-10	437250 to 437321
BEL-1	437322 to 437359
Test Pit Name	Sample Number series
TP-1 to TP-30	437360 to 437400
	437401 to 437436
	437951 to 437980

Table 6: List of the samples taken during the 2007 Sonic Drilling campaign

12. Sample preparation, analysis and security

Geostat has had problems with ALS-Chemex Laboratory of Val d'Or, ALS was aware and had agreed to prepare and assay the samples so all of the samples were sent for analysis to ALS-Chemex Laboratory in Val-D'Or. However, after more than one week, the laboratory informed Geostat that they refuse to do the preparation of the samples thus, the analysis too (asbestos considerations).

An other alternative had to be found. SGS Lakefield and COREM were ready to process the samples. Geostat project manager Claude Duplessis has selected COREM based on price and time to have results for the report. The samples were then shipped to COREM Laboratory in Quebec City for preparation and analysis. Out of the 716 samples sent to the lab, only 373 samples were analyzed (half of the batch). 343 samples came from the drill holes and 30 samples came from the test-pits (all analyzed) less the 4 lost giving 369 assay results.

The reason for this was the time reduction to have the whole picture, should results show variation the second batch would have to be analysed. The results have shown low variability and very homogeneous grades. By taking only one sample out of two, Geostat has enable Nichromet to save time and money without jeopardizing the quality of the resources estimation. Decision was taken no to process the remaining samples at this stage. They are stored and can be assayed at any time if requested, these are witness samples. On the other hand, the material can also be used in the pilot plant feed, not the witness samples but the 1 out of 2 half remaining samples.

See list of samples below.

Drill hole samples submitted to COREM											
348151	348211	53771	53831	53891	437051	437111	437171	437231	437291	437351	437411
348153	348213	53773	53833	53893	437053	437113	437173	437233	437293	437353	437413
348155	348215	53775	53835	53895	437055	437115	437175	437235	437295	437355	437415
348157	348217	53777	53837	53897	437057	437117	437177	437237	437297	437357	437417
348159	348219	53779	53839	53899	437059	437119	437179	437239	437299	437359	437419
348161	348221	53781	53841	437001	437061	437121	437181	437241	437301	437361	437421
348163	348223	53783	53843	437003	437063	437123	437183	437243	437303	437363	437423
348165	348225	53785	53845	437005	437065	437125	437185	437245	437305	437365	437425
348167	348227	53787	53847	437007	437067	437127	437187	437247	437307	437367	437427
348169	348229	53789	53849	437009	437069	437129	437189	437249	437309	437369	437429
348171	348231	53791	53851	437011	437071	437131	437191	437251	437311	437371	437431
348173	348233	53793	53853	437013	437073	437133	437193	437253	437313	437373	437433
348175	348235	53795	53855	437015	437075	437135	437195	437255	437315	437375	437435
348177	348237	53797	53857	437017	437077	437137	437197	437257	437317	437377	
348179	348239	53799	53859	437019	437079	437139	437199	437259	437319	437379	
348181	348241	53801	53861	437021	437081	437141	437201	437261	437321	437381	
348183	348243	53803	53863	437023	437083	437143	437203	437263	437323	437383	
348185	348245	53805	53865	437025	437085	437145	437205	437265	437325	437385	
348187	348247	53807	53867	437027	437087	437147	437207	437267	437327	437387	
348189	348249	53809	53869	437029	437089	437149	437209	437269	437329	437389	
348191	53751	53811	53871	437031	437091	437151	437211	437271	437331	437391	
348193	53753	53813	53873	437033	437093	437153	437213	437273	437333	437393	
348195	53755	53815	53875	437035	437095	437155	437215	437275	437335	437395	
348197	53757	53817	53877	437037	437097	437157	437217	437277	437337	437397	
348199	53759	53819	53879	437039	437099	437159	437219	437279	437339	437399	
348201	53761	53821	53881	437041	437101	437161	437221	437281	437341	437401	
348203	53763	53823	53883	437043	437103	437163	437223	437283	437343	437403	
348205	53765	53825	53885	437045	437105	437165	437225	437285	437345	437405	
348207	53767	53827	53887	437047	437107	437167	437227	437287	437347	437407	
348209	53769	53829	53889	437049	437109	437169	437229	437289	437349	437409	
Test-Pits samples submitted to COREM											
437951	437954	437957	437960	437963	437966	437969	437972	437975	437978		
437952	437955	437958	437961	437964	437967	437970	437973	437976	437979		
437953	437956	437959	437962	437965	437968	437971	437974	437977	437980		

Table 7: List of the samples chosen for analysis at the COREM laboratory

Geostat has no reason to believe that the methodology used by the laboratory is not adequate.

With the problems encountered with ALS-Chemex of Val d'Or, one sample bag was lost during transfer and transportation from Black Lake to Val d'Or, Val d'Or to Timmins where ALS had stored the samples and then from Timmins to Quebec city. Geostat and the transporters as well as ALS-Chemex have been unable to locate the missing bag. The bag

number was #72. The bag had 8 samples in it (sample #437259 to 437266), which belongs, to drill hole NOR-6 between 25 and 47.5 feet (7.62 and 14.48 m).

Out of the 8 samples missing, the 4 that were supposed to be analysed. were:

437259 : from 25 to 30 ft (7.62 to 9.14 m)
 437261 : from 32.5 to 35 ft (9.91 to 10.67 m)
 437263 : from 37.5 to 40 ft (11.43 to 12.19 m)
 437265 : from 42.5 to 45 ft (12.95 to 13.72 m)

It has created a gap along the hole NOR-6 but based on the low variability of the measured grades from neighbour samples, we did not send back the witness sample stored in Nichromet facilities at Thetford mines.

It is important to mention that preparation of asbestos samples required special confined room in order to avoid breathing asbestos fibres. Drilling crew of Boart Long Year and Geostat staff had all necessary protection equipment at the drilling site, they decided on their own not to use it since material was wet and the only dusty event were when heavy trucks were moving over the pile.

A copy of the original assay certificates of the Geostat 2007 sonic (core) sampling program is in Appendix .

A copy of the laboratory sampling and analysis procedures is in Appendix

A copy of the laboratory sampling and analysis results is in Appendix

In addition to various elements, two different analysis of nickel content have been asked to COREM, one in order to have the total content of nickel in the sample by pyroanalysis and the second with a hydrochloric acid attract only in order to simulate Nichromet proposed recovery process. The second analysis has been requested on one sample out of three. This is discussed in the resources section.

Here is the list of the analysed parameters.

SiO2	Al2O3	MgO	CaO	K2O	TiO2	MnO	P2O5	Co	Cr
%	%	%	%	%	%	%	%	%	%
Cu	Fe	Ni	Pb	S	Zn	Ni			
%	%	%	%	%	%	%			

Dry weight of samples at reception has also been measured for density measurement calculation.

13. Data validation

No samples were sent to another laboratory for data validation. However, Geostat found the data to be adequate for the estimation of the resources of the tailings piles according to historical works and grades. No external control in some other laboratory was done since COREM has already worked in asbestos projects in the past and is to be considered as a reference in asbestos material analysis.

14. Adjacent properties

To Geostat's knowledge, there is no work in the same field of activity in the Thetford Mines area. Most of the tailings piles in the region are under agreement with Nichromet. Other major asbestos mines tailings are located near the town of Asbestos Quebec.

15. Mineral processing and metallurgical testing

15.1 Introduction

On July 4th, 2007, at the request of Mr. Claude Duplessis P.Eng., manager of Systemes Geostat International Inc., I, Gilbert Rousseau, P. Eng. met with Mr. Jean-Marc Lalancette Vice-President Research and Development of Nichromet Extraction Inc. at his laboratory in Sherbrooke, Province of Quebec.

The prime purpose of this meeting was to comfort Geostat as to the possibility to recover part of the nickel from the tailings of one of Lab Chrysotile's asbestos mine. In the author of this report mind the real question was not if nickel chloride (NiCl_2) could be produced as the process is well documented but if it could be produced economically.

I, Gilbert Rousseau, P. Eng. has absolutely no pretension to be an expert in chemistry as my field of expertise is mining and extractive metallurgy, however, it is well known that all of the Quebec Eastern Townships asbestos ores contain a small amount of nickel.

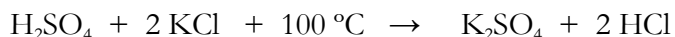
15.2 Minerallurgy

The nickel is mainly in the form of a nickel sulfide (Heazlewoodite Ni_3S_2), a native nickel-iron alloy (Awaruite Ni_3Fe) and most important, a hydrated metasilicate where the nickel took the place of some of the magnesium in the serpentine formula to form Garnierite ($\text{NiO}, \text{MgO}(\text{SiO}_2) \cdot x\text{H}_2\text{O}$). The non-silicate and probably non-acid soluble nickel content is quite similar for all the mines and is more or less 0.25 % Ni. On the other hand, it would seem that the acid soluble nickel oxide (NiO) content of the Garnierite is also in the 0.25 % range or 0.20 % Ni. It is not clear yet, but apparently only the nickel in the Garnierite and perhaps some in the Heazlewoodite undergo the Nichromet process. It has to be so, as at least Awaruite is more or less a form of stainless steel and thus more than probably very refractory to acid disintegration. Even if by nickel mines standards a head analysis of 0.21 % is very low, at today's nickel price (\$13.50 Can/lb) the acid leachable nickel value of the ore at Normandie is more than \$60.00/tonne.

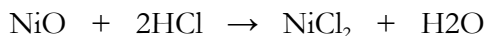
15.3 nickel extraction process and discussion

In short, the flowsheet devised by Mr. Lalancette is quite simple; the incoming tailings will first be crushed fine enough to eliminate by cycloning most of the asbestos fibers still left in the tailings. The material will then be ground to 100 % passing a 210 micrometer screen to undergo separation with magnetic separators into magnetic and non magnetic fractions. In this fashion, a magnetic concentrate grade of 0.5 % Ni could be achieved.

As there is no market for a concentrate at 0.5 % Ni, Dr. Lalancette devised a technique to recover most of this nickel as nickel chloride (NiCl₂) by the means of a hydrometallurgical process. This process is well documented as by a very simple chemical attack of the nickel oxide (NiO) with hydrochloric acid, nickel chloride could be obtained. Here again, at least on paper, the process is quite simple: first the process obviously needs some hydrochloric acid (HCl). This acid is produced by the reaction of sulfuric acid (H₂SO₄) with potassium chloride (KCl), which yields two products: potassium sulfate (K₂SO₄) and hydrochloric acid (HCl). The simplified chemical reaction is as follows:



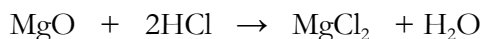
The hydrochloric acid produced from the above reaction will then serve to produce the nickel chloride from the asbestos tailings nickel oxide as per the following general chemical formula:



According to Nichromet's lab work, 71.5 % of the available nickel recovered at the magnetic separation could be dissolved from this reaction. As it is impossible to prevent at the same time the dissolution of iron, chrome, manganese and magnesium chloride as these elements are also part of the asbestos tailings, the nickel ions are selectively recovered from the above mixture by the mean of the chelating resin "DOWEX M4195".

A recovery of only 71.5 % of the nickel contained in the tailings is not much but in the process potassium sulfate is also produced. At a market price of some \$310.00/tonne, the potassium sulfate becomes a very important by-product.

Lastly, the attack of the magnesium oxide, which is the main part of the serpentine, by hydrochloric acid produces magnesium chloride (MgCl₂) according to the following general chemical reaction :



This last product also has a market value, in the range of \$0.12/lb.

Even if all of the above is well documented, and most of the process feasibility has been proven at the laboratory level by Dr. Lalancette, at least one question remain unanswered or, more probably, the chemistry of the asbestos tailings is not well understood (at least by the author of this section). This question is about the overall nickel recovery. According to Dr. Lalancette the metallurgical recovery of the nickel is based on the work done by G. W. Riley in the 60's on the Carey Canadian Mines tailings. One has to remember that according to the literature, apart from the nickel directly in the serpentine chemical formula, it is present in the asbestos tailings mainly in two forms : Heazlewoodite (Ni₃S₂) and a native nickel-iron alloy Awaruite (Ni₃Fe). Even if some nickel has replaced the magnesium in the serpentine formula to form Garnierite (Ni₃Mg(SiO₃)₂·xH₂O), its amount is small enough (NiO ± 0.25 %) as probably not to be magnetic. It is not expressly stated in Mr. Riley's report but one must conclude that the nickel he recovered by the means of magnetic separators was probably in the form of Heazlewoodite and Awaruite and not in the

form of nickel oxide (NiO) that has most likely reported to the tailings of his pilot plant flowsheets.

On the other hand, to raise the nickel content of the tailings from 0.25 % to 0.5 % by some kind of extractive metallurgy, the recovery would be around 35 % in a concentrate representing 17 % of the original feed. This partly explains why that at items 8 and 9 of Dr. Lalancette's report titled "Pilot Plant for nickel and Magnesium Products from Serpentinic Ores and Laterites by Chloridation Energy and Mass Balance, May 2005", the magnetite and the non magnetite fractions are equal in mass and about the same in nickel percentages (0.21 vs 0.24 % Ni). As magnetic separators are not designed to work as splitters, the only reasons for this behavior is that in all probability the magnetic separator used by Dr. Lalancette was not working at all, or not working properly, or for some reason there was no Heazlwoodite nor Awaruite in the tailings treated.

That did not change a thing in the process except that much more material had to go to chlorination for the same amount of nickel.

Finally, because of the huge amount of magnesium in the asbestos tailings, it is only fair to try to recover some of it in one form or another. Dr. Lalancette's work has demonstrated that along with the recovery of nickel chloride, it is possible to recover part of the magnesium as magnesium chloride.

15.4 conclusion

Now to go back to the second paragraph of this section as to the possibility to produce nickel chloride from asbestos mines tailings, **the answer is definitely yes.** Is it possible to produce nickel chloride economically? **The answer is yes if** there is a sound market for all the by-products (K_2SO_4 , $MgCl_2$, $Mg(OH)_2$, etc.).

Finally, above the fact that the process is probably economical, the real beauty of it remains in its potential of new discoveries. It is the undersigned feeling that the process merits to go to a continuous pilot plant phase. It is only then that the process will show its real full potential.

Respectfully submitted,

Gilbert Rousseau, P.Eng

15.5 Additional information

As per latest conversation over the phone with Dr. Lalancette by Claude Duplessis, Nichromet will have spent 3.5 million dollars from August 2006 to December 2007 in the construction and trials of the first pilot plant of 1T per hour. The money came from private investors which have pooled in over 10 million dollars into Nichromet since its beginning.

The first step of physical preparation has been achieved with grinding and magnetic separation to upgrade the original ore from 0.21 to 0.5% Ni by concentrating six tonnes of raw asbestos tailings to produce one tonne at 0.5% Ni.

The physical preparation has a 40% nickel recovery.

The second step of producing hydrochloric acid from potash and sulfuric acid has been tested with success.

Nichromet Extraction Inc. are currently working on digestion optimization and recovery with resin. Preliminary results at the pilot plant scale, show nickel recovery in the 80 to 85% range. The COREM soluble nickel analysis results of this year are showing a maximum recovery of 94%. Nichromet intention is to continue to work on optimizing the process up to year end and also in 2008 while it will go for a feasibility study said Dr. Lalancette.

Considering the above parameters, the actual effective nickel recovery is 30%.

16. Mineral resources and mineral reserve estimates

The resources of Nichromet have been estimated independently in the Normandie main tailings pile, Normandie secondary tailings pile, Bell mine main tailings pile, National tailings piles and Lac d'Amiante tailings piles. The resources in the other piles under agreement have been estimated using historical data and are classified accordingly.

16.1 Data used

The drill hole database used for resource estimation of the Normandie and Bell piles is in *file Nichromet_2007-09-20_v2.mdb* dated September 27th, 2007. That database has information for 11 drill holes and 30 test pits. (Normandie and Bell because there are the only piles investigated with drill holes)

The Normandie main pile has 10 drill holes and 15 tests pits, Normandie secondary does not have samples, the Bell main tailings has 1 hole and 12 tests pits. The Bell has 3 test pits and the Lac d'Amiante also has 3 test pits.

In addition to a detailed survey of Normandie main pile and survey points at the Bell main pile, 373 samples from drill holes were sent to the lab for analysis, 30 samples from the test-pits, 343 for the drill holes less the 4 missing we have a total of 369 values.

For the other piles we are using the historical data. For the tonnage we use the historical resources sheet of 2001 by Michel Labbé eng. While for the grades we use the CRM average grades table.

16.2 Mineralized zones

In this study there are 8 mines tailings piles from which Geostat has made an estimation of the resources based on recent works and historical information:

- 1) Normandie Main pile
- 2) Bell Main pile
- 3) Normandie secondary pile
- 4) National pile
- 5) Lac d'Amiante pile
- 6) British Canada I pile
- 7) British Canada II pile
- 8) King Beaver pile

+ The Normandie main pile is the main body of resources, i.e. high level of confidence; the surface and the bottom of the pile limit it. The Normandie is well documented with drill holes, test pits and detailed surface survey.

+ The Bell main pile is the second explored body of resources; it is also limited by surface and by bottom of the pile. The Bell is documented with one hole, test pits but do not have a detailed survey of the topography for accurate volume calculation.

+ The Normandie secondary pile is a satellite body of resources across the street from the old mill; the surface and the bottom of the pile limit it. This pile does not have samples and survey, but it is obvious that the material comes from the same Normandie open pit mine

+ The National pile is the third explored body of resources; it is also limited by surface and by bottom of the pile. The National is documented with 3 test pits but does not have a detailed survey of the topography for accurate volume calculation.

+ The Lac d'Amiante (LAQ) pile is the fourth explored body of resources; it is also limited by surface and by bottom of the pile. The LAQ is documented with 3 test pits but do not have a detailed survey of the topography for accurate volume calculation.

+ The British Canadian I pile, British Canada II pile and King Beaver pile are the other bodies of resources under Nichromet agreement with the owners of the asbestos tailings, we do not have recent samples nor 3D surveys, however we have historical data from 2001 for tonnage and average grades from CRM. These asbestos tailings represent major additional resources of which Nichromet has access to and are considered as mineralized zones and are included into the resources estimate of lower quality in terms of confidence level. These piles were seen during our visits and exist, so there is no reason not to take them into account.

16.2.1 Normandie main pile

Since segregation and compaction has occurred in the deposition of the tailings, the pile has been divided into 3 layers from the detailed surface survey. Only samples within the layers were used for estimation of the layer. This was done to respect the measured density of the material and force the estimation of density within the appropriate layer.

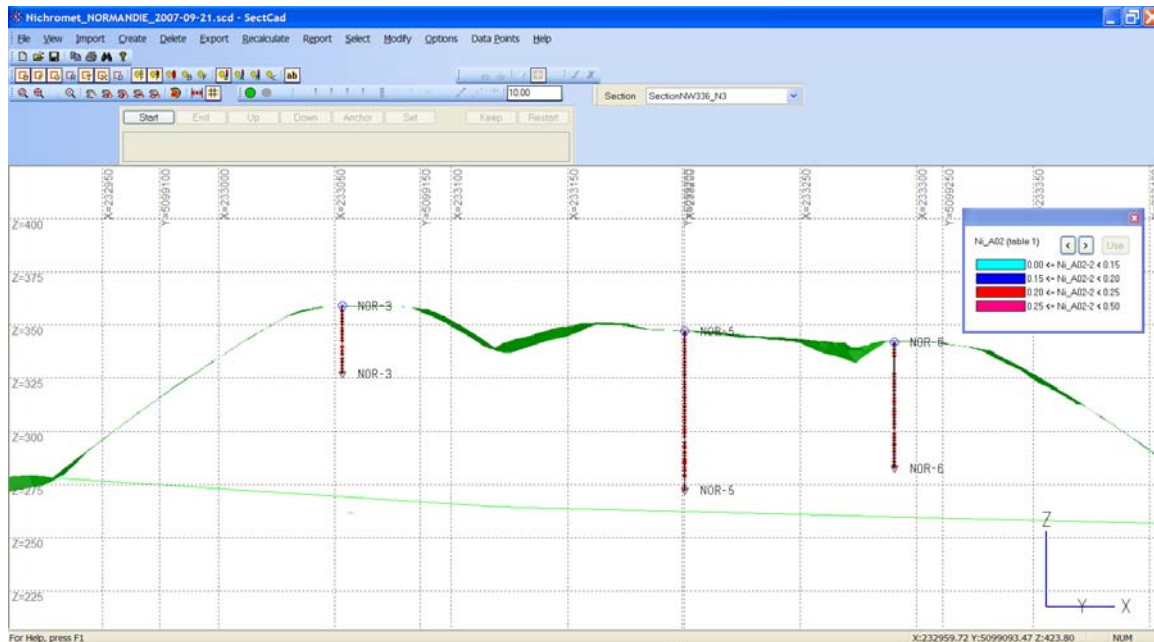


Figure 12: Cross section showing %Ni grade homogeneity in holes within SECTCAD

The above figure shows homogeneity of total %Ni grade(A02).

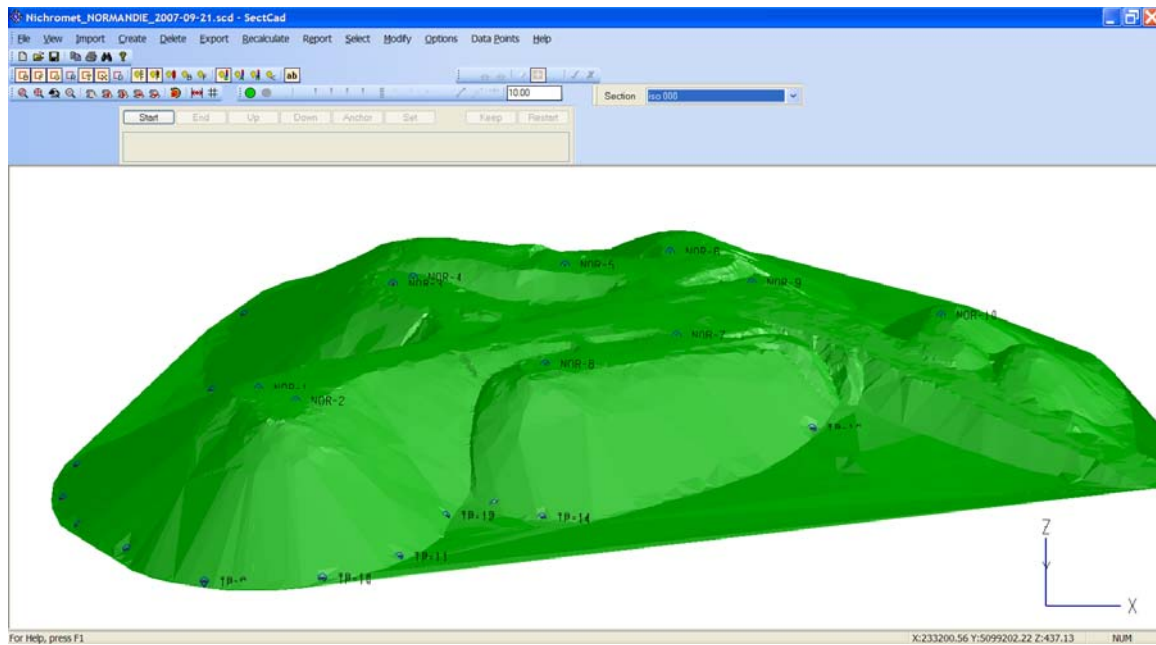


Figure 13: Normandie isometric view, DTM with holes & pits - looking north in SECTCAD

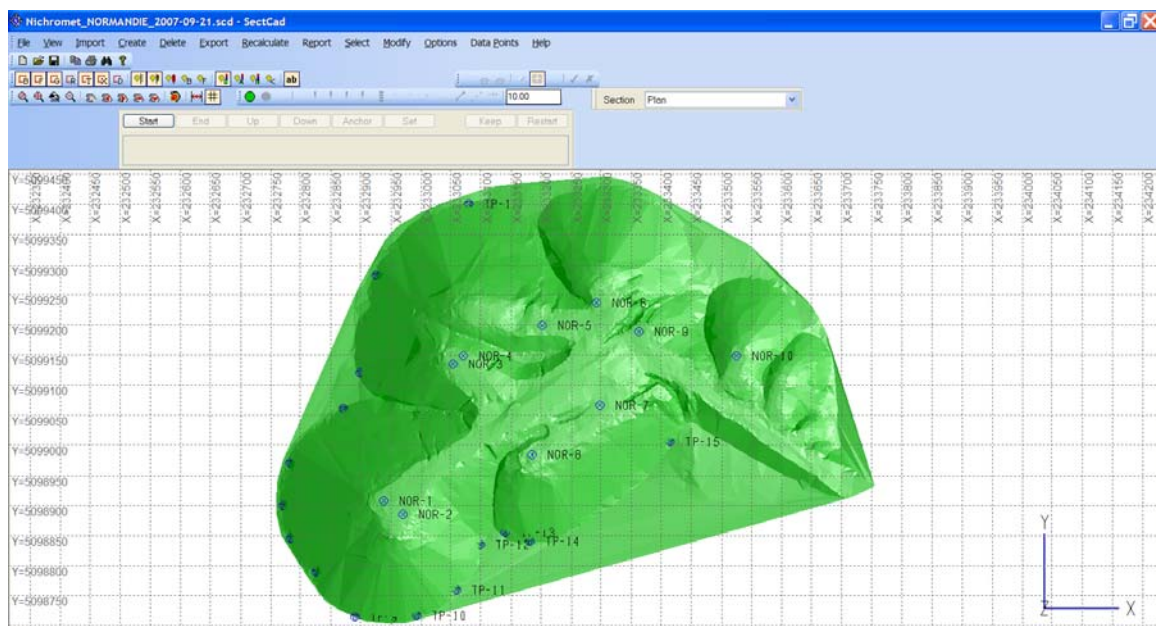


Figure 14: Plan view, with holes and pits, pile size 940 meters by 640 meters

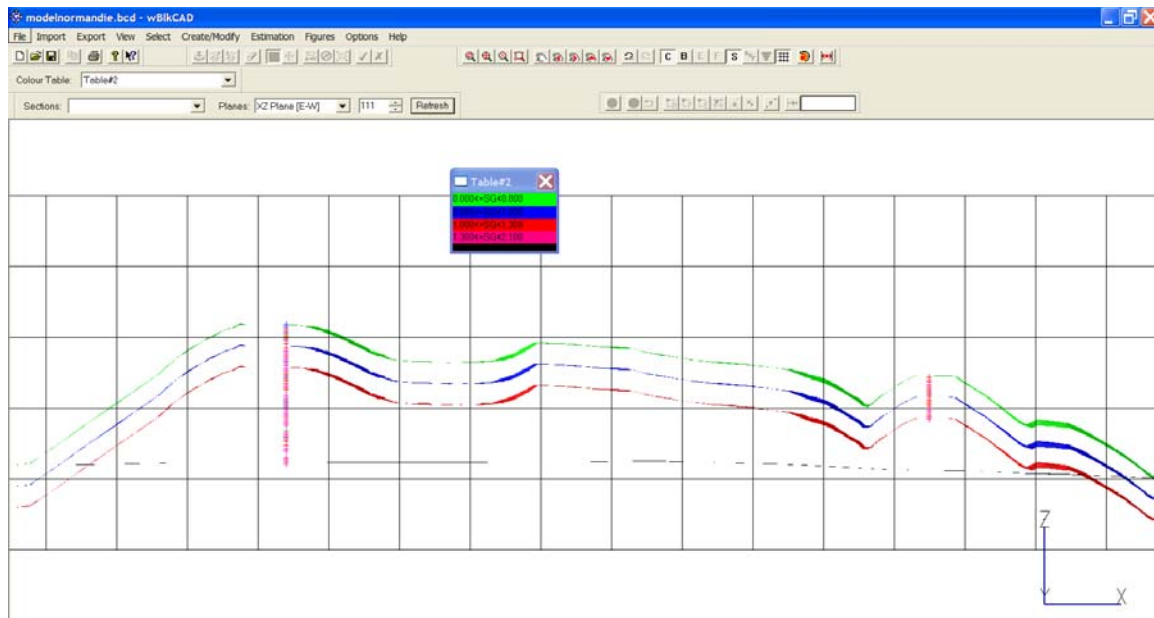


Figure 15: Cross section showing control surfaces in modelling density

The first green contour is the actual topography, in blue is the same but 15 m below surface and the red is 30 m below surface, the bottom of the pile is the black line. Specific gravity sample values are colour coded according to table 2 in the figure.

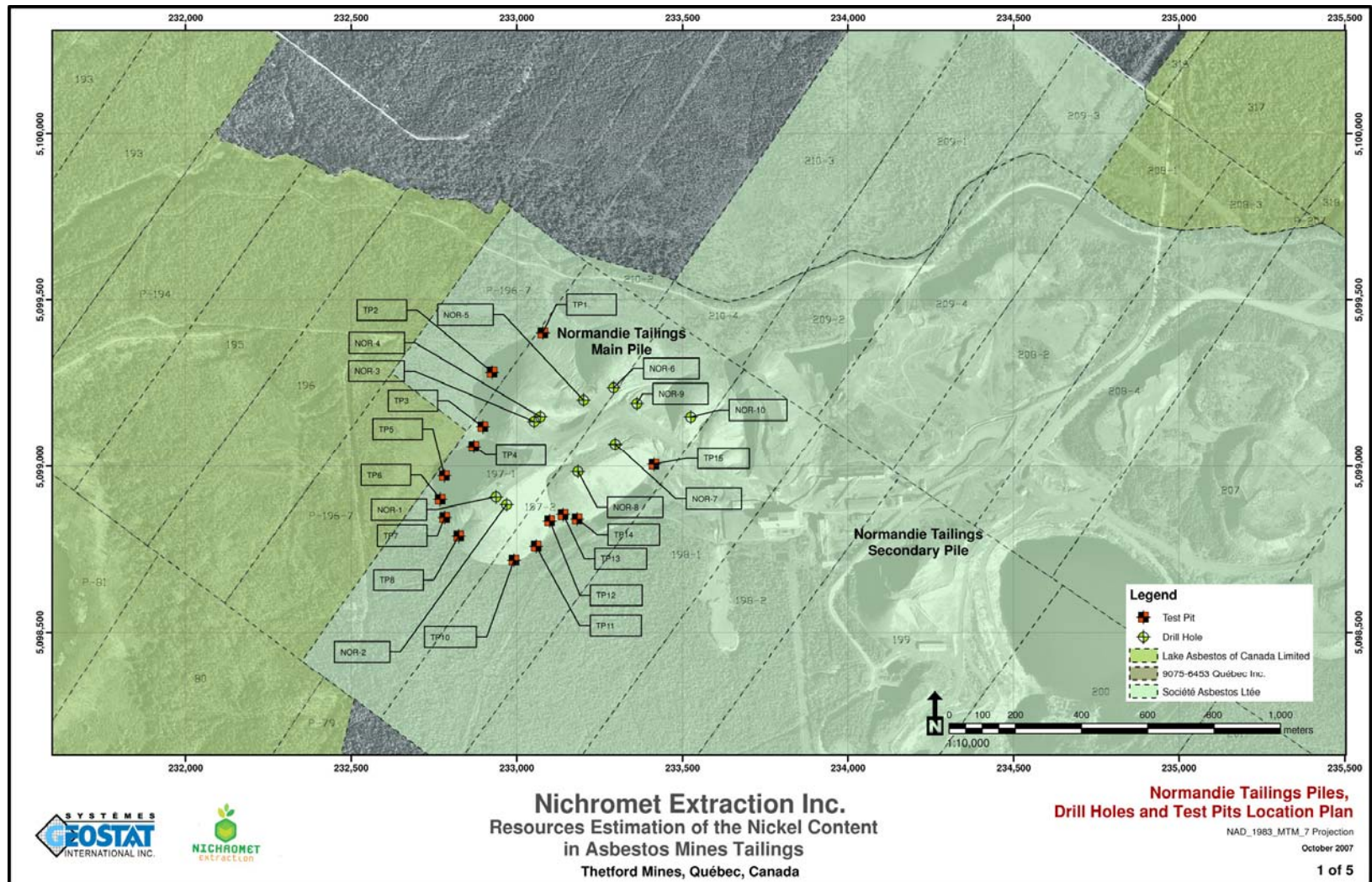


Figure 16: Normandie main pile holes and pits location plan (not to scale here)

16.2.2 Bell main pile

No elaborated model has been done at the Bell main pile, as there is only one hole and test pits.

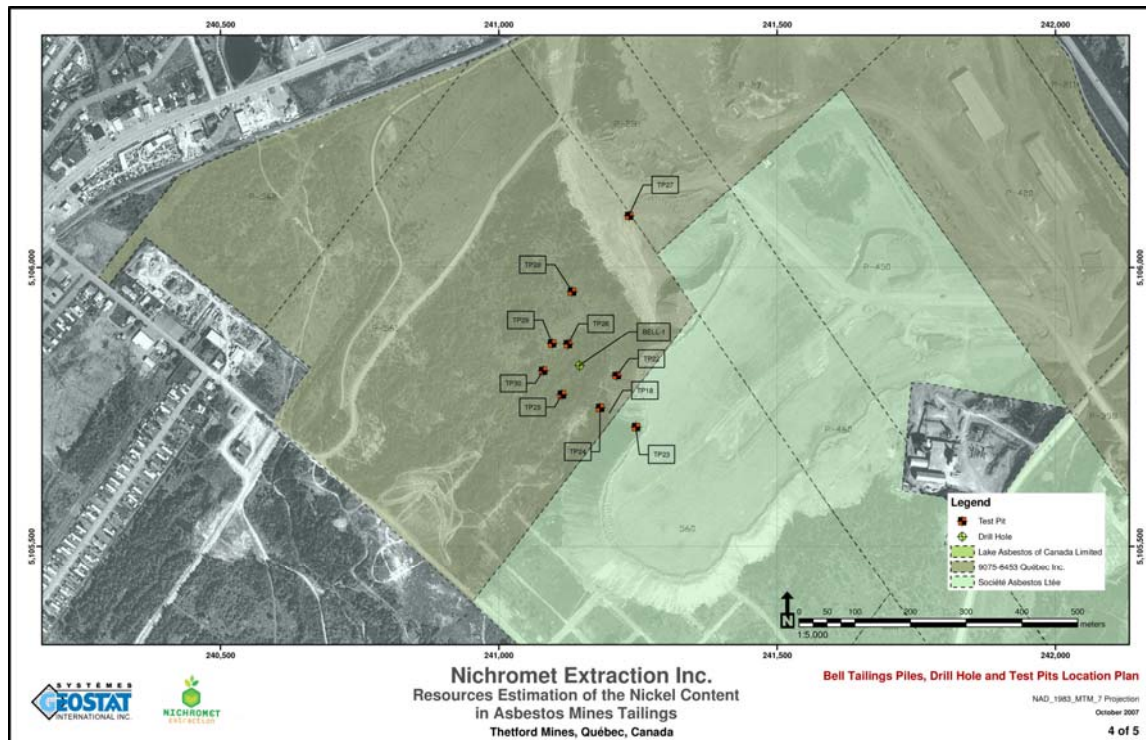


Figure 17: Bell main pile hole and pit location plan (not to scale)

It is important to mention that background image is not up to date with real extent of this pile. The complete perimeter fits with our survey, it has been confirmed with Google Earth web site viewer.

16.2.3 Normandie secondary pile

No new data exists except its extent measured on the satellite image. No elaborated model has been done at Normandie secondary pile. The location of this pile is on the previous location plan of Normandie across the street from the old mill.

16.2.4 Lac d'Amiante pile

No elaborated model has been done at the Lac d'Amiante pile, as there are only test pits for grade validation to compare with historical values.

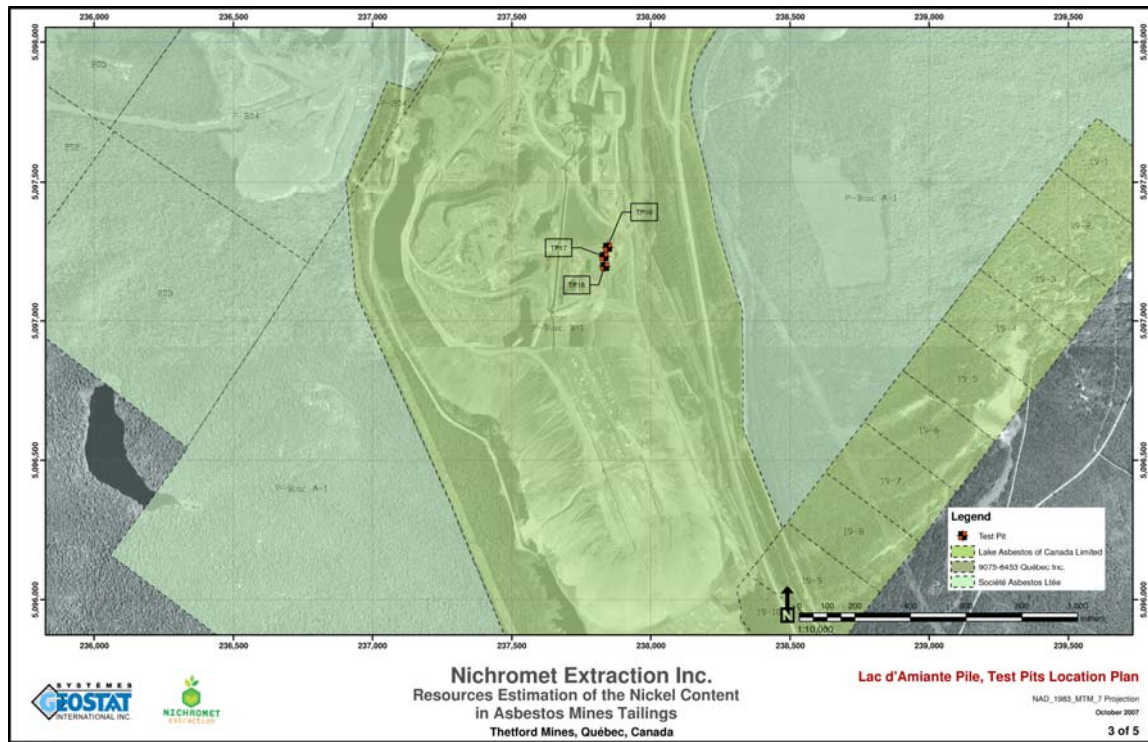


Figure 18: Lac d'Amiante pile, test pits location map(not to scale)

16.2.5 National pile

No elaborated model has been done at the National pile, as there are only test pits for grade validation to compare with historical values.

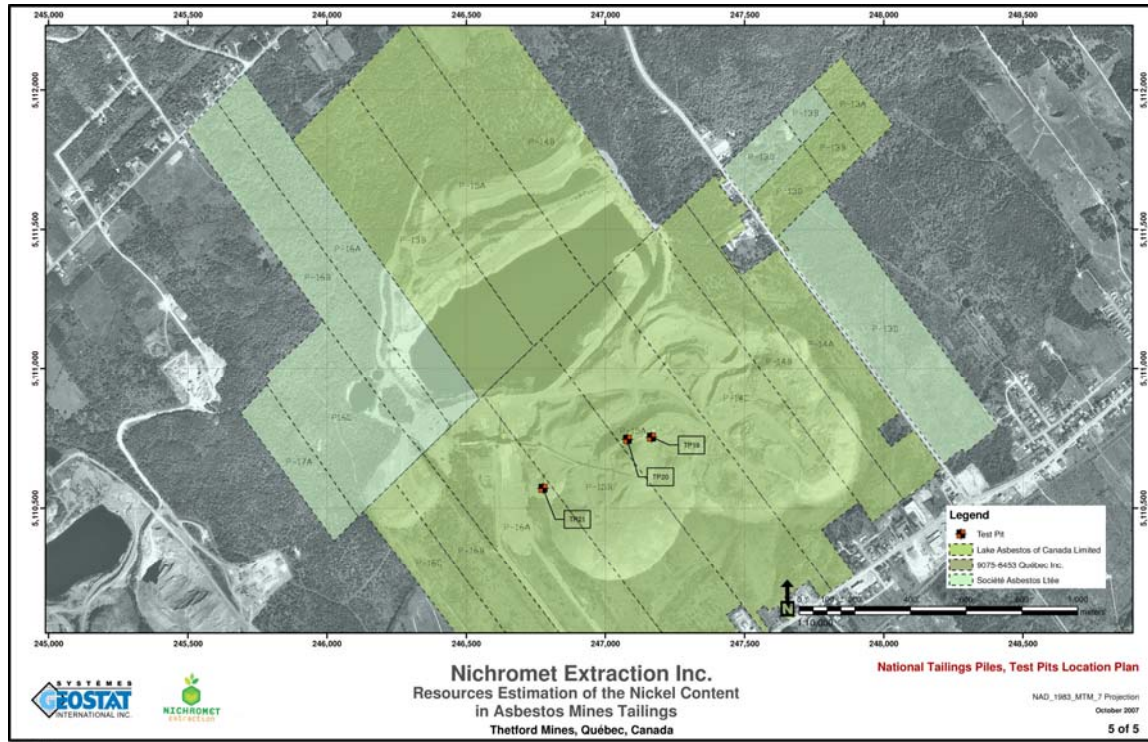


Figure 19: National Tailings piles, test pits location map (not to scale)

16.2.6 British Canadian I & II and King Beaver

No elaborated model has been done on these piles, as we did not collect samples during this assignment, only historical data exist.

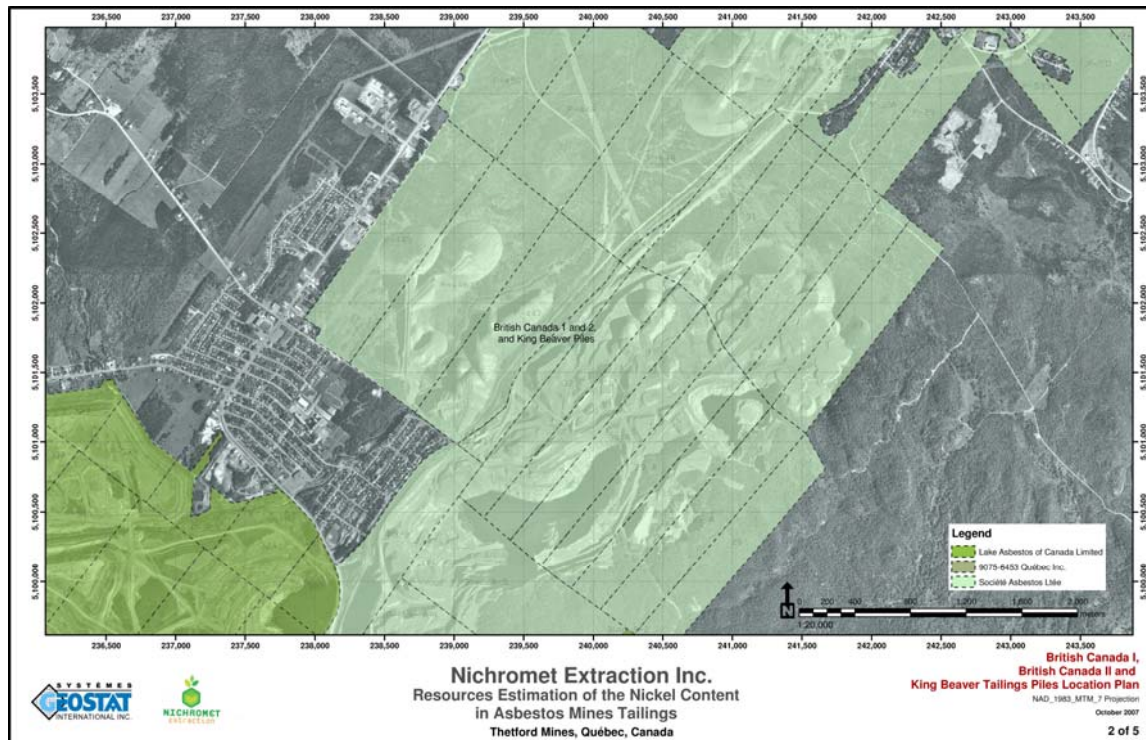


Figure 20: British Canadian I & II, King Beaver tailings piles, location plan (not to scale)

16.3 Composites

For the Normandie main pile within SECTCAD composites i.e. sample point coordinates have been calculated from original sample length, which is generally 0.76 m composites length for the holes and 0.61m for the test pit samples. The following figure shows the data points along the holes.

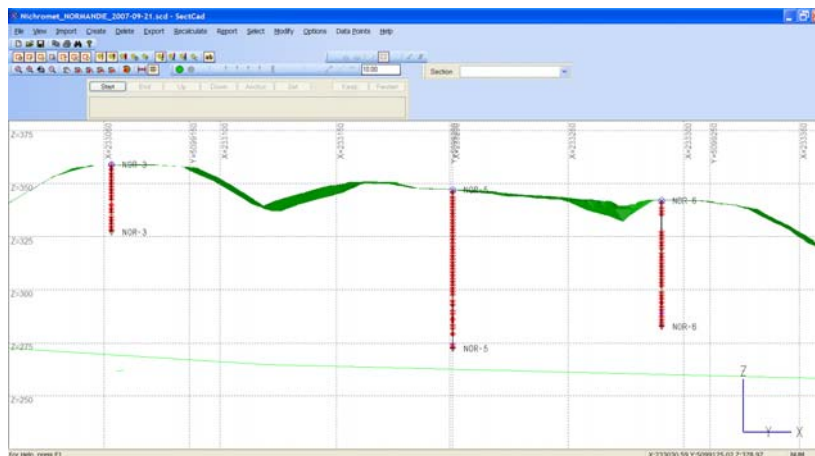


Figure 21: Composites 0.76 m long on the cross section

The Normandie main pile has 336 composites with the following assays: SiO₂, Al₂O₃, MgO, CaO, K₂O, TiO₂, MnO, P₂O₅, Co, Cr, Cu, Fe, Total Ni, Pb, S, Zn and Ni soluble in HCl. Specific gravity values are also reported. One out of 3 samples was analyzed for soluble Ni in HCl. All the samples were analysed for the all the above parameters.

16.3.1 Analysis of the nickel grade distribution

The grade distribution of Ni in the pile is visually homogenous as shown in previous figures. It has little variability and confirms the general conception that the asbestos tailings have an average grade with very few outliers. Values were not cut and were taken as they were analysed. Even if there is an outlier of 0.8% it is believed to be true since chrome content of the sample is also very above the average.

Here are the statistics of the 369 samples from Normandie, Bell, National and Lac d'Amiante all together.

%Value	length(m)	SiO2	Al2O3	MgO	CaO	K2O	TiO2	MnO	P2O5	Co	Cr	Cu	Fe	Ni A02-2	Pb	S	Zn	Ni B29-1
Average	0.803	38.791	1.358	36.807	0.473	0.126	0.020	0.094	0.018	0.008	0.257	0.006	5.343	0.224	0.005	0.005	0.005	0.201
Minimum	0.610	33.120	0.360	30.380	0.005	0.005	0.005	0.066	0.005	0.005	0.193	0.005	3.957	0.182	0.005	0.005	0.005	0.176
Maximum	3.050	41.940	3.065	39.630	1.001	0.751	0.108	0.112	0.057	0.014	0.626	0.087	6.473	0.801	0.036	0.005	0.010	0.228
Median	0.760	38.700	1.325	37.000	0.448	0.060	0.020	0.098	0.017	0.010	0.252	0.005	5.377	0.222	0.005	0.005	0.005	0.203
Number	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	136

Table 8: Statistics of the samples all samples.

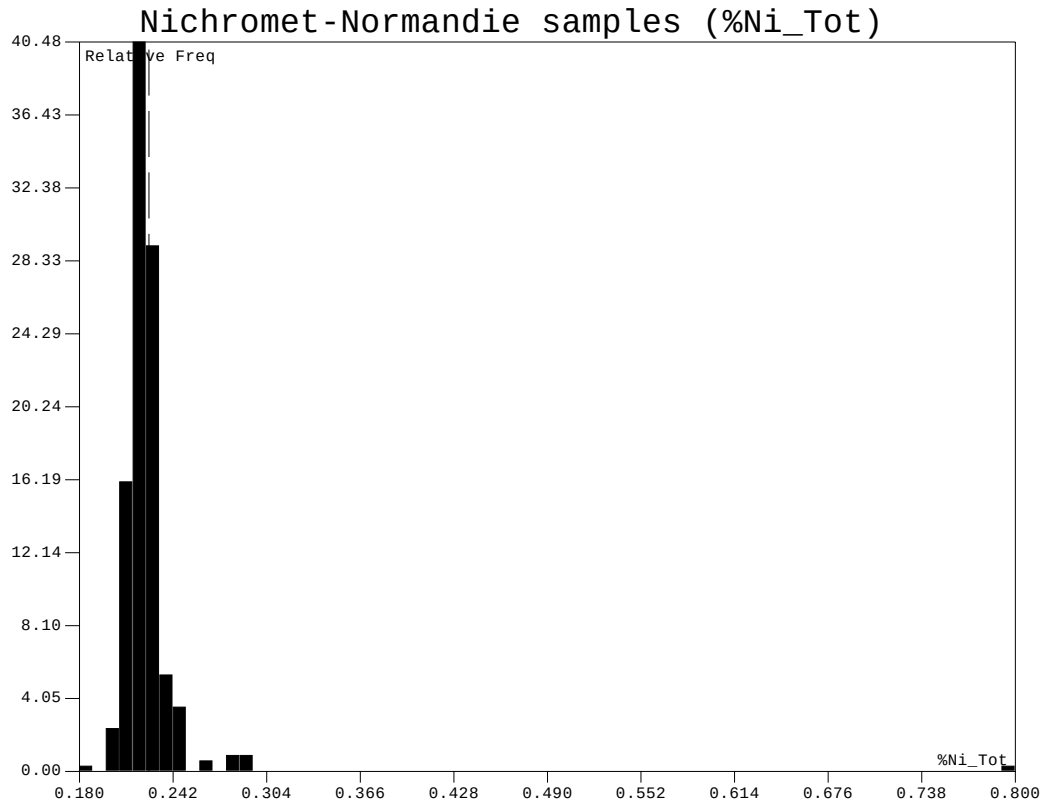


Figure 22: Histogram of % Ni Total, Normandie pile samples

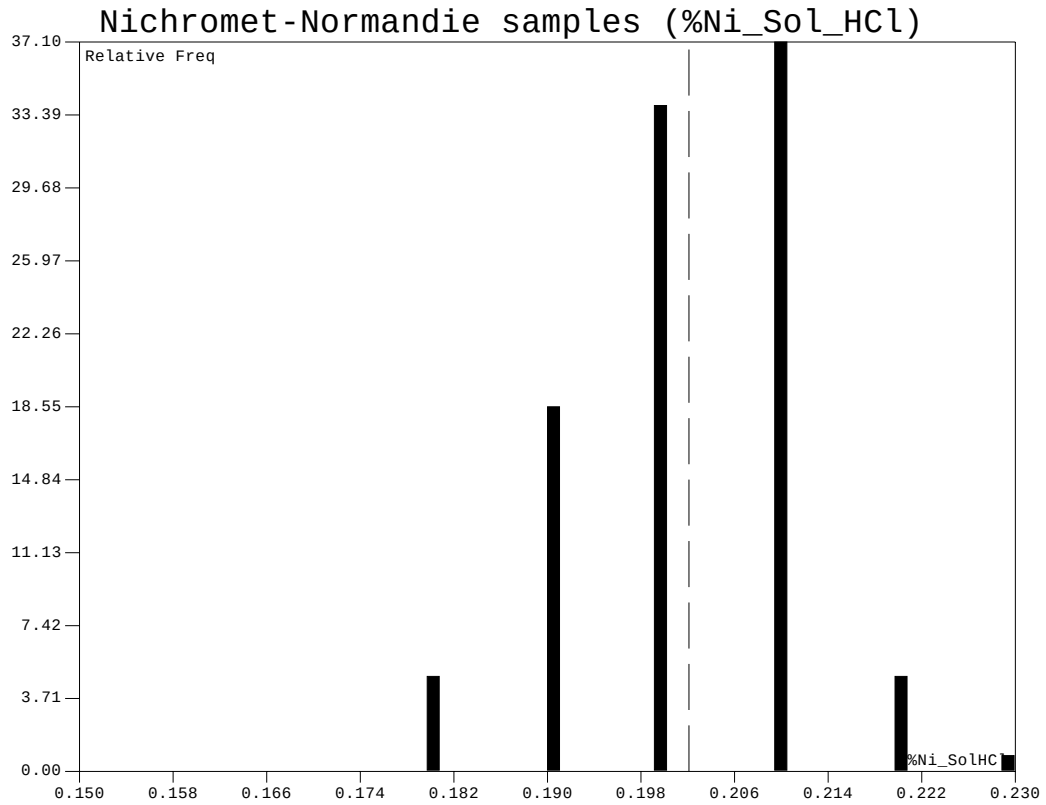


Figure 23: Histogram of % Ni Soluble to HCl, Normandie pile samples

STATISTICS FOR %Ni_Tot		
	Regular	Log
Minimum Value	0.1800	-1.6094
Percentile 5%	0.2100	-1.5606
16%	0.2100	-1.5606
50%	0.2200	-1.5141
84%	0.2300	-1.4697
95%	0.2500	-1.3863
Maximum Value	0.8000	0.0000
#Samples	336	
Average	0.2260	
Variance	0.0012	
Std. Dev.	0.0342	
Coef of Var.	0.1512	
Skewness	14.1929	
Kurtosis	237.3068	
#Log Samples	336	
Log Average	-1.4928	
Log Variance	0.0081	
Log Std. Dev.	0.0903	
Log Mean	0.2257	
Log Skewness	8.5549	
Log Kurtosis	117.7724	
STATISTICS FOR %Ni_SolHCl		
	Regular	Log
Minimum Value	0.1800	-1.7148
Percentile 5%	0.1800	-1.6607
16%	0.1900	-1.6607
50%	0.2000	-1.6094
84%	0.2100	-1.5606
95%	0.2100	-1.5141
Maximum Value	0.2300	0.0000
#Samples	124	
Average	0.2021	
Variance	0.0001	
Std. Dev.	0.0099	
Coef of Var.	0.0490	
Skewness	-0.2242	
Kurtosis	2.7923	
#Log Samples	124	
Log Average	-1.6002	
Log Variance	0.0024	
Log Std. Dev.	0.0494	
Log Mean	0.2021	
Log Skewness	-0.3518	
Log Kurtosis	2.8121	

Table 9: Statistics of the Normandie pile samples

16.3.2 Spatial continuity of the nickel distribution

The grade continuity is obvious, the only important variation is the density of the material with depth and this has been taken into account with layered modelling and specific gravity measurement of each drill hole samples in the Normandie tailings pile.

16.4 Resource estimation

The resources estimation in this report concern the 8 following piles :

- 1) Normandie Main pile
- 2) Bell Main pile
- 3) Normandie secondary pile
- 4) National pile
- 5) Lac d'Amiante pile
- 6) British Canada I pile
- 7) British Canada II pile
- 8) King Beaver pile

16.4.1 Definitions:

The classification of Mineral Resources and Mineral Reserves used in this report relies with the definitions provided in National Instrument 43-101, which came into effect in February 1, 2001. We further confirm that we have followed the guidelines adopted by the Council of the Canadian Institute of Mining Metallurgy and Petroleum. The relevant definitions for the CIM Standards/NI43-101 are as follows:

1. Preliminary Feasibility Study

A Preliminary Feasibility Study is a comprehensive study of the viability of a mineral project that has advanced to a stage where the mining method, in the case of underground mining, or the pit configuration, in the case of an open pit, has been established, where an effective method of mineral processing has been determined, and includes a financial analysis based on reasonable assumptions of technical, engineering, legal, operating, and economic factors and evaluation of other relevant factors which are sufficient for a Qualified Person, acting reasonably, to determine if all or part of the Mineral Resource may be classified as a Mineral Reserve.

2. Exploration Information

Exploration information means geological, geophysical, geochemical, sampling, drilling, trenching, analytical testing, assaying, mineralogical, metallurgical and other similar information concerning a particular property that is derived from activities undertaken to locate, investigate, define or delineate a mineral prospect or mineral deposit.

3. Mineral Resource

A Mineral Resource is a concentration or occurrence of natural, solid, inorganic or fossilized organic material in or on the earth's crust in such form and quantity and of such a grade or quality that it has reasonable prospects for economic extraction. The location, quantity, grade, geological characteristics and continuity of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge.

4. Inferred Mineral Resource

An 'Inferred Mineral Resource' is that part of a Mineral Resource for which quantity and grade or quality can be estimated on the basis of geological evidence and limited sampling and reasonably assumed, but not verified, geological and grade continuity. The estimate is based on limited information and sampling gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes.

5. Indicated Mineral Resource

An 'Indicated Mineral Resources' is that part of a Mineral Resources for which quantity, grade or quality, densities, shape and physical characteristics can be estimated with a level of confidence sufficient to allow the appropriate application of technical and economic parameters, to support mine planning and evaluation of the economic viability of the deposit. The estimate is based on detailed and reliable exploration and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes that are spaced closely enough for geological and grade continuity to be reasonably assumed.

6. Measured Mineral Resources

A 'Measured Mineral Resources' is that part of a Mineral Resource for which quantity, grade or quality, densities, shape, and physical characteristics are so well established that they can be estimated with confidence sufficient to allow the appropriate application of technical and economic parameters, to support production planning and evaluation of the economic viability of the deposit. The estimate is based on detailed and reliable exploration, sampling and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes that are spaced closely enough to confirm both geological and grade continuity.

7. Mineral Reserves

A Mineral Reserves is the economically mineable part of a Measured or Indicated Mineral Resource demonstrated by at least a Preliminary Feasibility Study. This Study must include adequate information on mining, processing, metallurgical, economic and other relevant factors that demonstrate, at the time of reporting, that economic extraction can be justified. A Mineral Reserves includes diluting materials and allowances for losses that may occur when the material is mined.

8. Probable Mineral Reserves

A 'Probable Mineral Reserves' is the economically mineable part of an Indicated, and in some circumstances a Measured Mineral Resources demonstrated by at least a Preliminary Feasibility Study. This Study must include adequate information on mining, processing, metallurgical, economic, and other relevant factors that demonstrate, at the time of reporting, that economic extraction can be justified.

9. Proven Mineral Reserves

A 'Proven Mineral Reserves' is the economically mineable part of a Measured Mineral Resources demonstrated by at least a Preliminary Feasibility Study. This Study must include adequate information on mining, processing, metallurgical, economic, and other relevant factors that demonstrate, at the time of reporting, that economic extraction is justified.

16.4.2 Resources estimate

1) Normandie Main pile

A block model has been created for the Normandie main pile. Characteristics of the block model are:

	X	Y	Z
Block Model Origin	232650	5098600	400
Block Size	5	5	-5

	X	Y	Z
Starting Coordinates	232650	5098600	400
Starting Block Indices	1	1	1
Ending Coordinates	233900	5099500	200
Ending Block Indices	251	181	41

Figure 24: Block grid configuration

Resources are estimated in each block 5 m (EW) x 5 m (NS) x 5m (Z) of a regular matrix with up to 251 columns (EW), 181 rows (NS) and 41 benches (Z) with its center within the limits of the mineralized zones.

The average grade for each parameter of each block is interpolated by inverse of the distance from the grades of nearby 0.76 m composites.

Block interpolation is done in three successive runs with constrain on layers. First run is for surface to 15 m with samples with the top layer, the second run is for the second layer with samples within those two layers, the third run is for bottom to the 15 meter interface i.e. 30 m from actual surface.

The search ellipsoid is spherical with 400 m long radius. A minimum of one composite, maximum 10 and a maximum of 4 from the same hole was use to estimate the resources. 445,812 blocks have been estimated.

Classification of resources for Normandie

A straightforward search ellipsoid method was used to classify the resources in this case.

A first search ellipsoid with 200 m E, 200 m N and 20 m Z was used to tag the measured with a minimum of 4 composites

The others blocks were tag inferred.

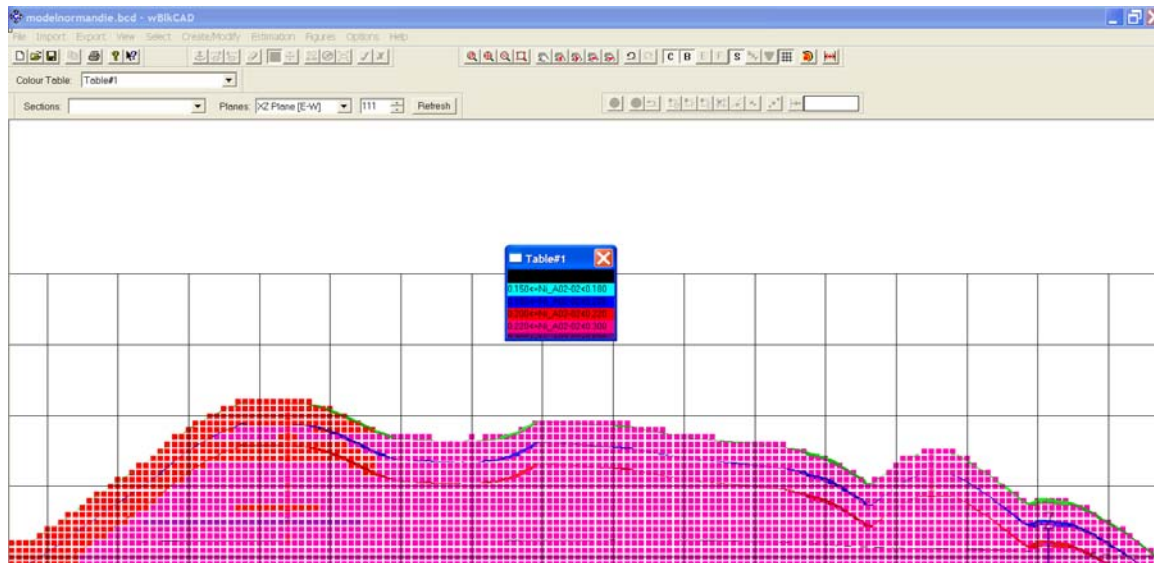


Figure 25: Block model vertical slice %Total nickel color code

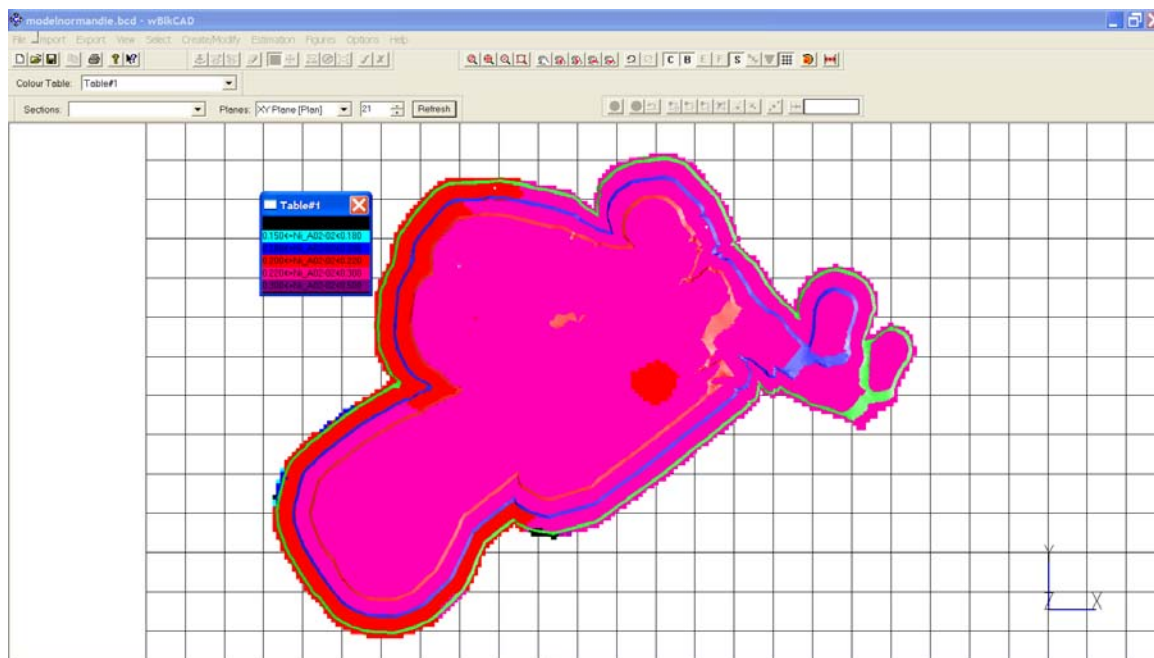


Figure 26: Block model bench 21 color coded according to %Tot Ni

NORMANDIE MAIN PILE RESOURCES CLASSIFIED								
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl	Spec Grav	%MgO	%Cr	%Fe	
measured	23 207 000	0.213	0.201	1.26	36.75	0.24	5.27	
indicated	3 007 000	0.220	0.208	1.21	37.23	0.25	5.57	
Measured+ Indicated	26 214 000	0.214	0.202	1.25	36.80	0.24	5.30	
For public disclosure								
C.Duplessis ing		12-10-2007						

Table 10: Normandie main pile resources classified

All resources in the main pile are classified as measured and indicated, it is the author opinion that this pile does not need additional investigation at this stage and the exploration works of summer 2007 are showing similar grades as per historical data. Just slightly lower.

The maximum soluble nickel by HCl is very close to total nickel content more or less 94% which means the nickel of this pile is soluble by HCl (Garnierite).

2) Bell tailings piles

For the Bell main pile, a simple average grade of the samples taken at the site is used for the estimation of the resources. The density is the average density measured with the drill hole. For the extent of the deposit one zone is considered indicated even if not surveyed in details the pile is regular and we can measure the surface with the GIS.

The historical resources tailings piles tonnage by LAB engineer in 2001 states 66 million tonnes, since we have one hole and test pits on one of the piles, the author is confident that most of the tonnage is there with the measured average grades. However we do not have a detail survey of the tailings piles. For this reason the author classified into the following ratios the resources of the Bell asbestos mine tailings piles: 1/3 measured, 1/3 indicated and 1/3 inferred.

A detail survey of the piles and few holes with test pits could easily bring the inferred resources into indicated category.

%Value	length(m)	SiO ₂	Al ₂ O ₃	MgO	CaO	K ₂ O	TiO ₂	MnO	P ₂ O ₅	Co	Cr	Cu	Fe	Ni A02-2	Pb	S	Zn	Ni B29-1
Average	0.766	40.301	2.101	34.680	0.655	0.472	0.034	0.090	0.025	0.007	0.278	0.008	4.834	0.205	0.005	0.005	0.005	0.191
Minimum	0.610	38.800	1.435	32.540	0.321	0.276	0.012	0.077	0.005	0.005	0.214	0.005	4.107	0.189	0.005	0.005	0.005	0.176
Maximum	1.520	41.940	3.065	36.440	1.001	0.751	0.074	0.104	0.052	0.013	0.428	0.043	5.855	0.218	0.010	0.005	0.005	0.203
Median	0.760	40.290	2.005	34.930	0.607	0.454	0.032	0.088	0.024	0.005	0.262	0.005	4.814	0.205	0.005	0.005	0.005	0.191
Number	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	9

Table 11: Statistics on samples from Bell

BELL PILE RESOURCES CLASSIFIED								
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl	Spec Grav	%MgO	%Cr	%Fe	
measured	22 000 000	0.205	0.191	1.22	34.68	0.28	4.83	
indicated	22 000 000	0.205	0.191	1.22	34.68	0.28	4.83	
inferred	22 000 000	0.205	0.191	1.22	34.68	0.28	4.83	
For public disclosure C.Duplessis ing								

Table 12: Bell main pile resources classified

3) Normandy secondary pile

For the Normandie secondary pile, the grades of the inferred of the Normandie main pile is used with the density of the indicated of main Normandie. For the extent of the deposit one pyramid is considered inferred even if not surveyed the pile is regular and we can measure the surface with the GIS.

The resources pyramidal pile represents 62,500 m² with an approximate height of 50 meters. Average density is 1.22.

NORMANDIE SECONDARY PILE RESOURCES CLASSIFIED								
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl	Spec Grav	%MgO	%Cr	%Fe	
inferred	1 042 000	0.220	0.208	1.21	37.23	0.25	5.57	
For public disclosure C.Duplessis ing								
Grades of indicated Normandie Main piles								

Table 13: Normandie secondary pile resources classified

4) National pile

For the National pile, a simple average grade of the samples taken at the site is used for the estimation of the resources. The density is an assumed density.

The historical resources tailings piles tonnage by LAB engineer in 2001 states 45 million tonnes, since we have test pits on the piles, the author is confident that most of the tonnage is there with the measured average grades. However we do not have a detail survey of the tailings piles. For this reason the author classified into the following ratios the resources of the National asbestos mine tailings piles: 1/4 measured, 1/4 indicated and 1/2 inferred. A detail survey of the piles and few holes with test pits could easily bring the inferred resources into indicated category.

%Value	length(m)	SiO ₂	Al ₂ O ₃	MgO	CaO	K ₂ O	TiO ₂	MnO	P ₂ O ₅	Co	Cr	Cu	Fe	Ni A02-2	Pb	S	Zn	Ni B29-1
Average	0.610	36.343	0.563	38.920	0.063	0.005	0.008	0.100	0.011	0.011	0.245	0.005	5.994	0.242	0.005	0.005	0.005	0.218
Minimum	0.610	35.710	0.538	38.190	0.005	0.005	0.005	0.095	0.005	0.010	0.225	0.005	5.734	0.234	0.005	0.005	0.005	0.218
Maximum	0.610	36.870	0.595	39.630	0.155	0.005	0.013	0.103	0.016	0.013	0.271	0.005	6.240	0.252	0.005	0.005	0.005	0.218
Median	0.610	36.450	0.556	38.940	0.030	0.005	0.005	0.101	0.011	0.011	0.240	0.005	6.009	0.241	0.005	0.005	0.005	0.218
Number	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1

Table 14: Statistics on samples from National

NATIONAL PILE RESOURCES CLASSIFIED				Assumed				
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl	Spec Grav	%MgO	%Cr	%Fe	
measured	11 250 000	0.242	0.218	1.26	38.92	0.25	5.99	
indicated	11 250 000	0.242	0.218	1.26	38.92	0.25	5.99	
inferred	22 500 000	0.242	0.218	1.26	38.92	0.25	5.99	
For public disclosure								
C.Duplessis ing								

Table 15: National pile resources classified

5) Lac d'Amiante pile

For the Lac d'Amiante pile, a simple average grade of the samples taken at the site is used for the estimation of the resources. The density is an assumed density.

The historical resources tailings piles tonnage by LAB engineer in 2001 states 140 million tonnes, since we have test pits on the piles, the author is confident that most of the tonnage is there with the measured average grades. However we do not have a detail survey of the tailings piles. For this reason the author classified into the following ratios the resources of the National asbestos mine tailings piles: 1/4 measured, 1/4 indicated and 1/2 inferred. A detail survey of the piles and few holes with test pits could easily bring the inferred resources into indicated category.

%Value	length(m)	SiO2	Al2O3	MgO	CaO	K2O	TiO2	MnO	P2O5	Co	Cr	Cu	Fe	Ni A02-2	Pb	S	Zn	Ni B29-1
Average	0.610	36.717	0.648	37.747	0.249	0.066	0.009	0.100	0.014	0.012	0.282	0.005	5.693	0.227	0.009	0.005	0.005	0.210
Minimum	0.610	35.490	0.360	36.470	0.142	0.005	0.005	0.098	0.005	0.012	0.220	0.005	5.211	0.216	0.005	0.005	0.005	0.200
Maximum	0.610	38.030	1.048	38.450	0.309	0.152	0.011	0.104	0.020	0.013	0.367	0.005	6.079	0.239	0.012	0.005	0.005	0.219
Median	0.610	36.630	0.535	38.320	0.296	0.041	0.011	0.099	0.016	0.012	0.260	0.005	5.789	0.227	0.010	0.005	0.005	0.218
Number	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2

Table 16: Statistics on samples from Lac d'Amiante

LAC D'AMIANTE PILE RESOURCES CLASSIFIED								
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl	Spec Grav	%MgO	%Cr	%Fe	
measured	35 000 000	0.227	0.210	1.25	37.75	0.28	5.69	
indicated	35 000 000	0.242	0.218	1.25	38.92	0.25	5.99	
inferred	70 000 000	0.242	0.218	1.25	38.92	0.25	5.99	
				Assumed				
For public disclosure								
C.Duplessis ing								

Table 17: Lac d'Amiante pile resources classified

6,7,8) British Canada I pile, British Canada II pile and King Beaver pile

For the above piles, a simple average grade of the historical grades is taken and tonnage are the historical compiled in 2001.

The historical resources tailings piles tonnage by LAB engineer in 2001 states 158 million tonnes from which we have to remove Normandie of this total. For this reason the author classified the historical resources as inferred. Historical data are listed in the historical section of this report. For the nickel soluble to HCl, we assume 90% which has been measured in the Bell pile. A detail survey of the piles and few holes with test pits could easily bring the inferred resources into indicated category.

BRITISH CANADIAN I&II+KING BEAVER PILES RESOURCES CLASSIFIED							
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl Assumed	Spec Grav Assumed	%MgO	%Cr	%Fe
inferred	130 744 000	0.235	0.210	1.25	39.00	0.27	5.40
For public disclosure C.Duplessis ing Historical grades 2001							

Table 18: Bristish Canadian I & II plus King Beaver pile resources classified

Total resources are:

RESOURCES ALL PILES CLASSIFIED							
Class	Tonnage	%Ni Tot.in situ	%Ni SolHCl	Spec Grav	%MgO	%Cr	%Fe
measured	91 457 000	0.22	0.20	1.24	36.90	0.27	5.42
indicated	71 257 000	0.23	0.21	1.24	37.54	0.26	5.62
inferred	246 286 000	0.23	0.21	1.25	38.58	0.26	5.57
Measured+ Indicated							
	162 714 000	0.22	0.21	1.24	37.18	0.26	5.50
For public disclosure							
C.Duplessis ing		15-oct-07					

Table 19: Classified resources all asbestos tailings piles of the study

16.4.3 Specific gravity

The density of the samples was calculated with the volume of a half core barrel (or the length of a sample) and the total weight of the sample (dry weight). The diameter of the core barrel was 0.1 m. When the recuperation of the sample was total (100%), the length of a sample was usually of 2.5 ft (0.762 m.). For the calculation of the density, the length was recalculated in function of the percentage of recuperation. The specific gravity is given in tonnes per cubic meter.

For the 339 samples, the mean specific gravity is of 1.27 t/m³, the minimal value is 0.51 and the maximal value is of 2.77 t/m³. Some extreme values do not have to be considerate because they can originate from a sample that had a very poor recuperation (ex: 20%) or an abnormal length (ex: 10ft). Another factor could be the water that came from the drill and not normally from the humidity of the sample. In order to integrate this factor, each sample has been weighted wet and dry. The water content was calculated by the ratio of the difference between the wet weight and the dry weight of the sample and the weight wet.

The specific gravity and the water content for each sample are shown in the next table.

Hole Name	From (m)	To (m)	Length (m)	Recovery (%)	True Length (m)	Dry weight	S.G. (t/m3)	Wet weight (kg)	Water content (%)
BEL-1	0.0	0.8	0.76	100	0.76	3.08	1.029	3.3	6.7
BEL-1	1.5	3.0	1.52	50	0.76	3.98	1.330	4.2	5.2
BEL-1	3.8	4.6	0.76	100	0.76	3.595	1.201	3.7	2.8
BEL-1	6.1	7.6	1.52	60	0.91	4.01	1.117	4.2	4.5
BEL-1	8.4	9.1	0.76	70	0.53	2.59	1.236	2.7	4.1
BEL-1	9.9	10.7	0.76	100	0.76	3.215	1.074	3.4	5.4
BEL-1	11.4	12.2	0.76	100	0.76	3.485	1.165	3.5	0.4
BEL-1	13.0	13.7	0.76	90	0.69	2.68	0.995	2.9	7.6
BEL-1	14.5	15.2	0.76	80	0.61	3.425	1.431	4.2	18.5
BEL-1	16.0	16.8	0.76	100	0.76	3.755	1.255	4.1	8.4
BEL-1	17.5	18.3	0.76	90	0.69	3.97	1.474	4.2	5.5
BEL-1	19.1	19.8	0.76	90	0.69	3.11	1.155	3.3	5.8
BEL-1	20.6	21.3	0.76	100	0.76	3.365	1.125	3.4	1.0
BEL-1	22.1	22.9	0.76	100	0.76	4.34	1.450	4.5	3.6
BEL-1	23.6	24.4	0.76	100	0.76	3.14	1.049	3.5	10.3
BEL-1	25.1	25.9	0.76	100	0.76	4.035	1.348	4.3	6.2
BEL-1	26.7	27.4	0.76	100	0.76	3.735	1.248	4.2	11.1
BEL-1	28.2	29.0	0.76	100	0.76	4.04	1.350	4.4	8.2
NOR-1	0.0	1.5	1.52	60	0.91	3.138	0.874	3.8	17.4
NOR-1	2.3	3.0	0.76	80	0.61	2.365	0.988	2.7	12.4
NOR-1	3.8	4.6	0.76	90	0.69	3.156	1.172	3.7	14.7
NOR-1	4.6	5.3	0.76	100	0.76	1.53	0.511	1.8	15.0
NOR-1	6.1	6.9	0.76	100	0.76	2.43	0.812	2.6	6.5
NOR-1	7.6	9.1	1.52	50	0.76	3.535	1.181	4.4	19.7
NOR-1	9.9	10.7	0.76	100	0.76	3.465	1.158	3.7	6.4

NOR-1	11.4	12.2	0.76	100	0.76	2.01	0.672	2.1	4.3
NOR-1	13.0	13.7	0.76	100	0.76	2.72	0.909	3	9.3
NOR-1	14.5	15.2	0.76	90	0.69	1.94	0.720	2.5	22.4
NOR-1	16.0	16.8	0.76	80	0.61	1.715	0.716	1.8	4.7
NOR-1	22.9	24.4	1.52	20	0.30	3.31	2.765	4.1	19.3
NOR-1	25.1	25.9	0.76	100	0.76	2.995	1.001	3.2	6.4
NOR-1	26.7	27.4	0.76	110	0.84	2.385	0.725	3.3	27.7
NOR-1	28.2	29.0	0.76	100	0.76	2.21	0.739	2.4	7.9
NOR-1	29.7	30.5	0.76	130	0.99	3.555	0.914	3.8	6.4
NOR-1	31.2	32.0	0.76	70	0.53	2.99	1.427	3.2	6.6
NOR-1	32.8	33.5	0.76	100	0.76	2.88	0.962	3.1	7.1
NOR-1	34.3	35.1	0.76	100	0.76	3.867	1.292	4.8	19.4
NOR-1	36.6	37.3	0.76	90	0.69	3.785	1.405	3	-26.2
NOR-1	38.1	38.9	0.76	80	0.61	2.67	1.115	3.5	23.7
NOR-1	39.6	40.4	0.76	100	0.76	3.25	1.086	3.3	1.5
NOR-1	41.1	44.2	3.05	25	0.76	3.28	1.096	3.8	13.7
NOR-1	45.0	45.7	0.76	100	0.76	3.385	1.131	3.6	6.0
NOR-1	46.5	47.2	0.76	80	0.61	3.705	1.548	3.8	2.5
NOR-1	48.8	49.5	0.76	100	0.76	3.645	1.218	3.8	4.1
NOR-1	50.3	51.1	0.76	100	0.76	4.535	1.516	5	9.3
NOR-1	51.8	52.6	0.76	90	0.69	3.285	1.220	3.6	8.8
NOR-1	53.3	54.1	0.76	120	0.91	5.39	1.501	6.5	17.1
NOR-1	54.9	55.6	0.76	100	0.76	3.735	1.248	4.4	15.1
NOR-1	56.4	57.2	0.76	100	0.76	2.91	0.972	3.2	9.1
NOR-1	57.9	58.7	0.76	80	0.61	3.925	1.640	4.4	10.8
NOR-1	62.5	63.2	0.76	110	0.84	4.995	1.517	6.3	20.7
NOR-1	64.0	64.8	0.76	90	0.69	3.39	1.259	3.6	5.8
NOR-1	67.1	67.8	0.76	100	0.76	2.975	0.994	4.4	32.4
NOR-1	68.6	71.6	3.05	20	0.61	3.395	1.418	4.7	27.8
NOR-1	72.4	73.2	0.76	100	0.76	4.715	1.576	5.8	18.7
NOR-1	73.9	74.7	0.76	90	0.69	4.829	1.793	11.6	58.4
NOR-1	75.4	76.2	0.76	95	0.72	3.56	1.252	3.9	8.7
NOR-1	77.0	77.7	0.76	100	0.76	4.899	1.637	5.3	7.6
NOR-1	78.0	79.2	1.22	80	0.98	3.756	0.981	4.2	10.6
NOR-1	80.0	80.8	0.76	80	0.61	3.788	1.582	9	57.9
NOR-1	83.1	83.8	0.76	90	0.69	3.985	1.480	4	0.4
NOR-1	85.3	86.1	0.76	100	0.76	4.95	1.654	5.5	10.0
NOR-1	86.9	87.6	0.76	100	0.76	4.349	1.453	5.2	16.4
NOR-1	88.4	89.2	0.76	80	0.61	4.27	1.784	4.7	9.1
NOR-1	93.7	94.5	0.76	100	0.76	3.928	1.313	13.6	71.1
NOR-1	95.3	96.0	0.76	100	0.76	5.216	1.743	5.7	8.5
NOR-1	97.5	98.3	0.76	100	0.76	5.02	1.678	5.5	8.7
NOR-10	0.8	1.5	0.76	100	0.76	3.83	1.280	4	4.3
NOR-10	3.0	3.8	0.76	100	0.76	3.695	1.235	3.9	5.3
NOR-10	4.6	5.3	0.76	100	0.76	3.17	1.059	3.4	6.8
NOR-10	6.1	6.9	0.76	100	0.76	4.06	1.357	4.8	15.4
NOR-10	7.6	8.4	0.76	100	0.76	3.325	1.111	3.5	5.0
NOR-10	9.1	9.9	0.76	100	0.76	3.085	1.031	3.3	6.5
NOR-10	10.7	11.4	0.76	90	0.69	3.031	1.125	3.2	5.3

NOR-10	12.2	13.0	0.76	90	0.69	2.328	0.864	2.4	3.0
NOR-10	13.7	14.5	0.76	100	0.76	3.42	1.143	3.6	5.0
NOR-10	15.2	16.0	0.76	100	0.76	3.51	1.173	3.7	5.1
NOR-10	16.8	17.5	0.76	100	0.76	3.855	1.288	4.3	10.3
NOR-10	18.3	19.1	0.76	100	0.76	3.77	1.260	4.1	8.0
NOR-10	19.8	20.6	0.76	100	0.76	3.87	1.293	4.3	10.0
NOR-10	21.3	22.1	0.76	100	0.76	3.415	1.141	3.7	7.7
NOR-10	22.9	23.6	0.76	100	0.76	3.435	1.148	3.7	7.2
NOR-10	24.4	25.1	0.76	100	0.76	4.04	1.350	4.2	3.8
NOR-10	25.9	26.7	0.76	100	0.76	4.83	1.614	5.1	5.3
NOR-10	27.4	28.2	0.76	100	0.76	3.79	1.267	3.9	2.8
NOR-10	29.0	29.7	0.76	100	0.76	3.48	1.163	4.2	17.1
NOR-10	30.5	31.2	0.76	100	0.76	4.035	1.348	4.4	8.3
NOR-2	0.8	1.5	0.76	100	0.76	2.53	0.845	3	15.7
NOR-2	2.3	3.0	0.76	100	0.76	2.435	0.814	2.7	9.8
NOR-2	3.8	4.6	0.76	100	0.76	2.813	0.940	3.2	12.1
NOR-2	5.3	6.1	0.76	100	0.76	3.083	1.030	3.4	9.3
NOR-2	6.9	7.6	0.76	100	0.76	2.752	0.920	6.6	58.3
NOR-2	8.4	9.1	0.76	100	0.76	2.53	0.845	3.9	35.1
NOR-2	9.9	10.7	0.76	100	0.76	2.937	0.981	3.2	8.2
NOR-2	11.4	12.2	0.76	100	0.76	4.086	1.365	4.7	13.1
NOR-2	13.0	13.7	0.76	100	0.76	3.691	1.233	4.1	10.0
NOR-2	14.5	15.2	0.76	80	0.61	3.088	1.290	3.4	9.2
NOR-2	16.0	16.8	0.76	80	0.61	3.95	1.650	4.4	10.2
NOR-2	17.5	18.3	0.76	120	0.91	5.721	1.593	6.4	10.6
NOR-2	19.1	19.8	0.76	90	0.69	3.858	1.433	4.4	12.3
NOR-2	20.6	21.3	0.76	100	0.76	3.767	1.259	4.2	10.3
NOR-2	22.1	22.9	0.76	100	0.76	4.215	1.409	4.6	8.4
NOR-2	23.6	24.4	0.76	100	0.76	4.591	1.534	5.1	10.0
NOR-2	25.1	25.9	0.76	100	0.76	4.05	1.353	4.5	10.0
NOR-2	27.4	28.2	0.76	100	0.76	3.908	1.306	4.3	9.1
NOR-2	29.0	29.7	0.76	100	0.76	3.408	1.139	3.7	7.9
NOR-2	30.5	31.2	0.76	100	0.76	3.75	1.253	4.21	10.9
NOR-3	0.0	0.8	0.76	100	0.76	2.21	0.739	2.5	11.6
NOR-3	1.5	3.0	1.52	40	0.61	3.488	1.457	4.1	14.9
NOR-3	3.8	4.6	0.76	100	0.76	3.555	1.188	4.1	13.3
NOR-3	5.3	6.1	0.76	100	0.76	3.227	1.078	3.6	10.4
NOR-3	6.9	7.6	0.76	100	0.76	3.402	1.137	3.6	5.5
NOR-3	8.4	9.1	0.76	80	0.61	2.561	1.070	2.8	8.5
NOR-3	9.9	10.7	0.76	100	0.76	2.73	0.912	3	9.0
NOR-3	11.4	12.2	0.76	60	0.46	2.662	1.483	3.1	14.1
NOR-3	13.0	13.7	0.76	100	0.76	3.436	1.148	3.5	1.8
NOR-3	14.5	15.2	0.76	100	0.76	3.542	1.184	3.8	6.8
NOR-3	16.0	16.8	0.76	90	0.69	3.553	1.319	3.8	6.5
NOR-3	18.3	19.8	1.52	65	0.99	6.047	1.554	7.5	19.4
NOR-3	20.6	21.3	0.76	80	0.61	4.206	1.757	4.8	12.4
NOR-3	22.1	22.9	0.76	100	0.76	4.33	1.447	4.5	3.8
NOR-3	24.4	25.1	0.76	100	0.76	4.35	1.454	4.7	7.4
NOR-3	25.9	26.7	0.76	90	0.69	2.572	0.955	3.1	17.0

NOR-3	27.4	28.2	0.76	100	0.76	3.773	1.261	4.1	8.0
NOR-3	29.0	29.7	0.76	90	0.69	3.094	1.149	3.8	18.6
NOR-3	30.5	31.2	0.76	100	0.76	3.812	1.274	4.2	9.2
NOR-4	0.0	0.8	0.76	100	0.76	2.732	0.913	3	8.9
NOR-4	1.5	3.0	1.52	40	0.61	2.307	0.964	2.6	11.3
NOR-4	3.8	4.6	0.76	75	0.57	2.845	1.268	3.1	8.2
NOR-4	5.3	6.1	0.76	90	0.69	2.395	0.889	2.5	4.2
NOR-4	6.9	7.6	0.76	100	0.76	2.268	0.758	2.5	9.3
NOR-4	8.4	9.1	0.76	100	0.76	2.98	0.996	3.2	6.9
NOR-4	9.9	10.7	0.76	100	0.76	3.25	1.086	3.5	7.1
NOR-4	11.4	12.2	0.76	80	0.61	2.192	0.916	2.4	8.7
NOR-4	13.0	13.7	0.76	100	0.76	3.286	1.098	3.5	6.1
NOR-4	16.8	17.5	0.76	100	0.76	3.815	1.275	4.6	17.1
NOR-4	18.3	19.1	0.76	100	0.76	3.965	1.325	4.4	9.9
NOR-4	19.8	20.6	0.76	80	0.61	3.24	1.353	3.2	-1.3
NOR-4	21.3	22.1	0.76	80	0.61	3.585	1.498	3.8	5.7
NOR-4	22.9	23.6	0.76	80	0.61	2.895	1.209	3.5	17.3
NOR-4	24.4	25.1	0.76	90	0.69	3.975	1.476	4.2	5.4
NOR-4	25.9	26.7	0.76	90	0.69	2.65	0.984	3.1	14.5
NOR-4	27.4	28.2	0.76	100	0.76	4.037	1.349	4.4	8.3
NOR-4	29.0	29.7	0.76	90	0.69	3.875	1.439	4.2	7.7
NOR-4	30.5	31.2	0.76	90	0.69	3.92	1.456	4.3	8.8
NOR-4	32.0	32.8	0.76	100	0.76	4.065	1.358	4.5	9.7
NOR-4	33.5	34.3	0.76	100	0.76	3.26	1.089	3.5	6.9
NOR-4	35.1	35.8	0.76	100	0.76	3.662	1.224	3.9	6.1
NOR-4	36.6	37.3	0.76	100	0.76	2.93	0.979	3.2	8.4
NOR-4	38.1	38.9	0.76	100	0.76	3.805	1.272	4.1	7.2
NOR-4	39.6	40.4	0.76	100	0.76	3.665	1.225	4	8.4
NOR-4	41.1	41.9	0.76	100	0.76	3.768	1.259	4.4	14.4
NOR-4	42.7	43.4	0.76	100	0.76	4.02	1.343	4.3	6.5
NOR-4	44.2	45.0	0.76	100	0.76	3.69	1.233	4.1	10.0
NOR-4	45.7	46.5	0.76	100	0.76	3.8	1.270	3.9	2.6
NOR-4	50.3	51.1	0.76	100	0.76	4.621	1.544	5.4	14.4
NOR-4	51.8	52.6	0.76	100	0.76	4.41	1.474	4.8	8.1
NOR-4	53.3	54.1	0.76	80	0.61	2.241	0.936	3.1	27.7
NOR-4	54.9	55.6	0.76	100	0.76	3.16	1.056	3.3	4.2
NOR-4	56.4	57.2	0.76	100	0.76	2.498	0.835	3.8	34.3
NOR-4	57.9	58.7	0.76	100	0.76	4.463	1.491	4.7	5.0
NOR-4	59.4	61.0	1.52	60	0.91	4.776	1.330	6	20.4
NOR-4	61.7	62.5	0.76	100	0.76	4.152	1.388	4.4	5.6
NOR-4	63.2	64.0	0.76	100	0.76	4.41	1.474	4.7	6.2
NOR-4	64.8	65.5	0.76	100	0.76	3.877	1.296	4.1	5.4
NOR-4	66.3	67.1	0.76	100	0.76	5.178	1.730	5.4	4.1
NOR-4	67.8	68.6	0.76	100	0.76	3.107	1.038	3.3	5.8
NOR-4	69.3	70.1	0.76	100	0.76	4.475	1.495	4.7	4.8
NOR-4	70.9	71.6	0.76	100	0.76	4.27	1.427	4.6	7.2
NOR-4	74.7	75.4	0.76	80	0.61	1.51	0.631	2.5	39.6
NOR-4	76.2	77.0	0.76	100	0.76	4.97	1.661	6	17.2
NOR-4	77.7	78.5	0.76	90	0.69	3.965	1.472	4.5	11.9

NOR-4	79.2	80.0	0.76	90	0.69	2.67	0.991	3.2	16.6
NOR-4	80.8	81.5	0.76	90	0.69	3.075	1.142	3.6	14.6
NOR-4	82.3	83.1	0.76	100	0.76	3.518	1.176	4.2	16.2
NOR-4	83.8	86.9	3.05	20	0.61	2.905	1.214	4.6	36.8
NOR-4	87.6	88.4	0.76	90	0.69	3.67	1.363	4.2	12.6
NOR-4	89.2	89.9	0.76	110	0.84	5.37	1.631	5.9	9.0
NOR-4	93.7	94.5	0.76	110	0.84	5.18	1.574	6	13.7
NOR-4	95.3	96.0	0.76	90	0.69	2.98	1.107	3.3	9.7
NOR-4	96.8	97.5	0.76	100	0.76	4.67	1.561	5.3	11.9
NOR-4	98.3	99.1	0.76	100	0.76	4.715	1.576	5.2	9.3
NOR-5	0.8	1.5	0.76	100	0.76	2.625	0.877	2.9	9.5
NOR-5	3.0	3.8	0.76	80	0.61	2.985	1.247	3.2	6.7
NOR-5	4.6	5.3	0.76	100	0.76	2.315	0.774	3.6	35.7
NOR-5	6.1	6.9	0.76	100	0.76	3	1.003	3.3	9.1
NOR-5	7.6	8.4	0.76	100	0.76	3.76	1.257	4.1	8.3
NOR-5	9.1	9.9	0.76	100	0.76	2.81	0.939	3.2	12.2
NOR-5	10.7	11.4	0.76	100	0.76	3.24	1.083	3.6	10.0
NOR-5	12.2	13.0	0.76	100	0.76	3.115	1.041	3.4	8.4
NOR-5	13.7	14.5	0.76	100	0.76	3.695	1.235	3.9	5.3
NOR-5	15.2	16.0	0.76	100	0.76	3.37	1.126	3.7	8.9
NOR-5	16.8	17.5	0.76	100	0.76	4.035	1.348	4.4	8.3
NOR-5	18.3	19.1	0.76	100	0.76	3.305	1.104	3.6	8.2
NOR-5	19.8	20.6	0.76	90	0.69	4.41	1.637	4.8	8.1
NOR-5	21.3	22.1	0.76	90	0.69	3.575	1.327	3.8	5.9
NOR-5	22.9	23.6	0.76	80	0.61	4.79	2.001	5.6	14.5
NOR-5	24.4	25.1	0.76	100	0.76	4.295	1.435	4.9	12.3
NOR-5	25.9	26.7	0.76	100	0.76	6.265	2.094	6.8	7.9
NOR-5	27.4	28.2	0.76	90	0.69	3.78	1.404	4.7	19.6
NOR-5	29.0	29.7	0.76	100	0.76	3.785	1.265	4.1	7.7
NOR-5	30.5	31.2	0.76	100	0.76	2.875	0.961	3.1	7.3
NOR-5	32.0	32.8	0.76	100	0.76	4.39	1.467	4.8	8.5
NOR-5	33.5	34.3	0.76	100	0.76	2.935	0.981	3.1	5.3
NOR-5	35.1	35.8	0.76	100	0.76	4.375	1.462	5.1	14.2
NOR-5	36.6	37.3	0.76	100	0.76	4.59	1.534	4.9	6.3
NOR-5	38.1	38.9	0.76	100	0.76	4.855	1.622	5.4	10.1
NOR-5	39.6	40.4	0.76	100	0.76	4.165	1.392	4.5	7.4
NOR-5	41.1	41.9	0.76	100	0.76	4.52	1.511	5.3	14.7
NOR-5	42.7	43.4	0.76	100	0.76	4.51	1.507	4.8	6.0
NOR-5	44.2	45.0	0.76	100	0.76	4.155	1.389	4.7	11.6
NOR-5	45.7	46.5	0.76	100	0.76	5.23	1.748	6.1	14.3
NOR-5	47.2	48.0	0.76	90	0.69	4.19	1.556	4.8	12.7
NOR-5	48.8	49.5	0.76	100	0.76	5.105	1.706	5.7	10.4
NOR-5	51.8	52.6	0.76	100	0.76	5.095	1.703	5.6	9.0
NOR-5	53.3	54.9	1.52	45	0.69	3.51	1.303	4.4	20.2
NOR-5	56.4	57.2	0.76	100	0.76	3.685	1.231	4.1	10.1
NOR-5	57.9	58.7	0.76	100	0.76	4.555	1.522	5.3	14.1
NOR-5	59.4	62.5	3.05	20	0.61	3.35	1.399	4.6	27.2
NOR-5	63.2	64.0	0.76	100	0.76	4.43	1.480	4.7	5.7
NOR-5	64.8	65.5	0.76	90	0.69	3.97	1.474	4.2	5.5

NOR-5	67.1	68.6	1.52	60	0.91	6.65	1.852	7.2	7.6
NOR-5	72.4	73.2	0.76	120	0.91	4.82	1.342	5.3	9.1
NOR-5	73.9	74.7	0.76	100	0.76	4.445	1.485	4.7	5.4
NOR-6	0.8	1.5	0.76	100	0.76	3.83	1.280	4	4.3
NOR-6	3.0	3.8	0.76	100	0.76	3.195	1.068	3.3	3.2
NOR-6	4.6	5.3	0.76	100	0.76	2.615	0.874	2.8	6.6
NOR-6	6.1	6.9	0.76	100	0.76	3.275	1.094	3.4	3.7
NOR-6	14.5	15.2	0.76	100	0.76	3.855	1.288	4.1	6.0
NOR-6	16.0	16.8	0.76	100	0.76	3.75	1.253	4.1	8.5
NOR-6	17.5	18.3	0.76	100	0.76	3.805	1.272	4	4.9
NOR-6	19.1	19.8	0.76	80	0.61	3.55	1.483	3.8	6.6
NOR-6	20.6	21.3	0.76	100	0.76	3.65	1.220	4	8.8
NOR-6	22.1	22.9	0.76	100	0.76	3.665	1.225	3.8	3.6
NOR-6	24.4	25.1	0.76	100	0.76	3.84	1.283	4	4.0
NOR-6	25.9	26.7	0.76	100	0.76	4.06	1.357	4.6	11.7
NOR-6	27.4	28.2	0.76	100	0.76	3.755	1.255	3.9	3.7
NOR-6	29.0	29.7	0.76	100	0.76	3.26	1.089	3.8	14.2
NOR-6	30.5	31.2	0.76	100	0.76	4.06	1.357	4.3	5.6
NOR-6	32.0	32.8	0.76	90	0.69	3.155	1.171	4.2	24.9
NOR-6	33.5	34.3	0.76	100	0.76	4.065	1.358	4.4	7.6
NOR-6	35.1	35.8	0.76	100	0.76	4.12	1.377	4.5	8.4
NOR-6	36.6	37.3	0.76	100	0.76	4.48	1.497	4.6	2.6
NOR-6	38.1	38.9	0.76	100	0.76	4.65	1.554	4.8	3.1
NOR-6	39.6	40.4	0.76	100	0.76	4.755	1.589	5	4.9
NOR-6	42.7	43.4	0.76	90	0.69	3.455	1.283	4.3	19.7
NOR-6	44.2	45.0	0.76	100	0.76	4.235	1.415	5.1	17.0
NOR-6	45.7	46.5	0.76	100	0.76	4.41	1.474	5.4	18.3
NOR-6	47.2	48.8	1.52	40	0.61	4.155	1.736	5	16.9
NOR-6	49.5	50.3	0.76	90	0.69	3.85	1.430	4.4	12.5
NOR-6	51.1	51.8	0.76	80	0.61	3.78	1.579	4.2	10.0
NOR-6	52.6	53.3	0.76	100	0.76	4.01	1.340	4.4	8.9
NOR-6	54.1	54.9	0.76	100	0.76	3.895	1.302	4.6	15.3
NOR-6	55.6	56.4	0.76	90	0.69	3.545	1.316	4.3	17.6
NOR-6	57.2	57.9	0.76	100	0.76	2.805	0.937	3.2	12.3
NOR-6	58.7	59.4	0.76	100	0.76	3.2	1.069	3.6	11.1
NOR-7	0.8	1.5	0.76	100	0.76	2.765	0.924	3.3	16.2
NOR-7	2.3	3.0	0.76	100	0.76	3.295	1.101	3.5	5.9
NOR-7	3.8	4.6	0.76	100	0.76	3	1.003	3.3	9.1
NOR-7	5.3	6.1	0.76	100	0.76	2.535	0.847	2.9	12.6
NOR-7	6.9	7.6	0.76	100	0.76	3.31	1.106	3.5	5.4
NOR-7	8.4	9.1	0.76	100	0.76	3.785	1.265	4.2	9.9
NOR-7	9.9	10.7	0.76	100	0.76	3.055	1.021	3.4	10.1
NOR-7	11.4	12.2	0.76	100	0.76	4.145	1.385	4.4	5.8
NOR-7	13.0	13.7	0.76	100	0.76	3.42	1.143	3.8	10.0
NOR-7	14.5	15.2	0.76	100	0.76	3.645	1.218	3.8	4.1
NOR-7	16.0	16.8	0.76	100	0.76	3.4	1.136	3.6	5.6
NOR-7	17.5	18.3	0.76	100	0.76	4.395	1.469	4.6	4.5
NOR-7	19.1	19.8	0.76	100	0.76	3.835	1.282	4.1	6.5
NOR-7	20.6	21.3	0.76	100	0.76	3.18	1.063	3.6	11.7

NOR-7	22.1	22.9	0.76	100	0.76	3.5	1.170	4.4	20.5
NOR-7	23.6	24.4	0.76	100	0.76	3.66	1.223	4	8.5
NOR-7	25.1	25.9	0.76	100	0.76	3.22	1.076	3.4	5.3
NOR-7	26.7	27.4	0.76	100	0.76	3.89	1.300	4.3	9.5
NOR-7	28.2	29.0	0.76	100	0.76	3.84	1.283	4.2	8.6
NOR-7	29.7	30.5	0.76	100	0.76	3.87	1.293	4.3	10.0
NOR-7	31.2	32.0	0.76	100	0.76	3.595	1.201	4	10.1
NOR-7	34.3	35.1	0.76	100	0.76	3.235	1.081	3.4	4.9
NOR-7	35.8	36.6	0.76	100	0.76	4.345	1.452	4.7	7.6
NOR-7	37.3	38.1	0.76	100	0.76	4.015	1.342	4.4	8.8
NOR-7	38.9	39.6	0.76	90	0.69	3.47	1.288	3.8	8.7
NOR-7	40.4	41.1	0.76	100	0.76	3.71	1.240	4	7.3
NOR-7	41.9	42.7	0.76	100	0.76	4.02	1.343	4.4	8.6
NOR-7	43.4	44.2	0.76	100	0.76	3.42	1.143	4	14.5
NOR-8	0.8	1.5	0.76	100	0.76	2.63	0.879	2.9	9.3
NOR-8	2.3	3.0	0.76	100	0.76	2.75	0.919	3.1	11.3
NOR-8	3.8	4.6	0.76	100	0.76	3.285	1.098	3.6	8.8
NOR-8	5.3	6.1	0.76	100	0.76	2.43	0.812	2.7	10.0
NOR-8	6.9	7.6	0.76	100	0.76	2.53	0.845	2.8	9.6
NOR-8	8.4	9.1	0.76	100	0.76	3.18	1.063	3.5	9.1
NOR-8	9.9	10.7	0.76	100	0.76	2.975	0.994	3.3	9.8
NOR-8	11.4	12.2	0.76	100	0.76	3.25	1.086	3.6	9.7
NOR-8	13.0	13.7	0.76	100	0.76	2.87	0.959	3.1	7.4
NOR-8	15.2	16.0	0.76	100	0.76	3.96	1.323	4.3	7.9
NOR-8	16.8	17.5	0.76	100	0.76	3.74	1.250	4.3	13.0
NOR-8	18.3	19.1	0.76	100	0.76	3.73	1.247	4.1	9.0
NOR-8	19.8	20.6	0.76	100	0.76	3.31	1.106	3.6	8.1
NOR-8	21.3	22.1	0.76	100	0.76	3.52	1.176	3.8	7.4
NOR-8	22.9	23.6	0.76	80	0.61	3.96	1.654	4.4	10.0
NOR-8	24.4	25.1	0.76	100	0.76	4.15	1.387	4.5	7.8
NOR-8	25.9	26.7	0.76	90	0.69	3.57	1.326	3.9	8.5
NOR-8	27.4	28.2	0.76	100	0.76	3.315	1.108	3.6	7.9
NOR-8	29.0	29.7	0.76	90	0.69	3.78	1.404	4.6	17.8
NOR-8	30.5	31.2	0.76	80	0.61	3.14	1.312	3.5	10.3
NOR-8	32.0	33.5	1.52	50	0.76	4.73	1.581	5.5	14.0
NOR-8	33.5	34.3	0.76	100	0.76	3.965	1.325	4.4	9.9
NOR-8	35.8	36.6	0.76	100	0.76	3.8	1.270	4.4	13.6
NOR-8	37.3	38.1	0.76	80	0.61	2.955	1.234	3.4	13.1
NOR-8	38.9	39.6	0.76	100	0.76	4.585	1.532	4.9	6.4
NOR-8	40.4	41.1	0.76	100	0.76	4.12	1.377	4.4	6.4
NOR-8	43.4	44.2	0.76	100	0.76	4.765	1.592	5.7	16.4
NOR-8	45.0	45.7	0.76	70	0.53	2.57	1.227	3.1	17.1
NOR-8	46.5	47.2	0.76	100	0.76	4.09	1.367	4.4	7.0
NOR-8	49.5	50.3	0.76	110	0.84	3.29	1.000	4	17.8
NOR-8	51.1	51.8	0.76	90	0.69	4.285	1.591	5.2	17.6
NOR-8	52.6	53.3	0.76	100	0.76	4.59	1.534	5	8.2
NOR-8	53.3	54.1	0.76	80	0.61	2.65	1.107	3.7	28.4
NOR-8	55.6	56.4	0.76	100	0.76	4.305	1.439	5.1	15.6
NOR-8	57.2	57.9	0.76	90	0.69	4.45	1.652	4.9	9.2

NOR-8	58.7	59.4	0.76	90	0.69	3.72	1.381	4	7.0
NOR-9	0.8	1.5	0.76	100	0.76	3.92	1.310	4.2	6.7
NOR-9	3.8	4.6	0.76	80	0.61	2.905	1.214	3.2	9.2
NOR-9	5.3	6.1	0.76	90	0.69	2.455	0.912	2.6	5.6
NOR-9	6.9	7.6	0.76	90	0.69	2.755	1.023	3	8.2
NOR-9	8.4	9.1	0.76	90	0.69	2.925	1.086	3.2	8.6
NOR-9	9.9	10.7	0.76	100	0.76	3.53	1.180	4	11.8
NOR-9	11.4	12.2	0.76	100	0.76	3.29	1.099	3.5	6.0
NOR-9	13.0	13.7	0.76	80	0.61	2.94	1.228	3.3	10.9
NOR-9	14.5	15.2	0.76	100	0.76	3.815	1.275	4.3	11.3
NOR-9	16.0	16.8	0.76	90	0.69	3.165	1.175	3.5	9.6
NOR-9	18.3	19.8	1.52	50	0.76	3.77	1.260	3.9	3.3
NOR-9	20.6	21.3	0.76	90	0.69	3.395	1.261	3.5	3.0
NOR-9	22.1	22.9	0.76	90	0.69	3.4	1.262	3.6	5.6
NOR-9	23.6	24.4	0.76	80	0.61	2.68	1.120	3	10.7
NOR-9	25.1	25.9	0.76	100	0.76	3.99	1.333	4.4	9.3
NOR-9	26.7	27.4	0.76	80	0.61	2.705	1.130	2.8	3.4
NOR-9	28.2	29.0	0.76	90	0.69	3.565	1.324	3.8	6.2
NOR-9	29.7	30.5	0.76	90	0.69	3.67	1.363	4	8.3
NOR-9	31.2	32.0	0.76	100	0.76	3.215	1.074	3.5	8.1

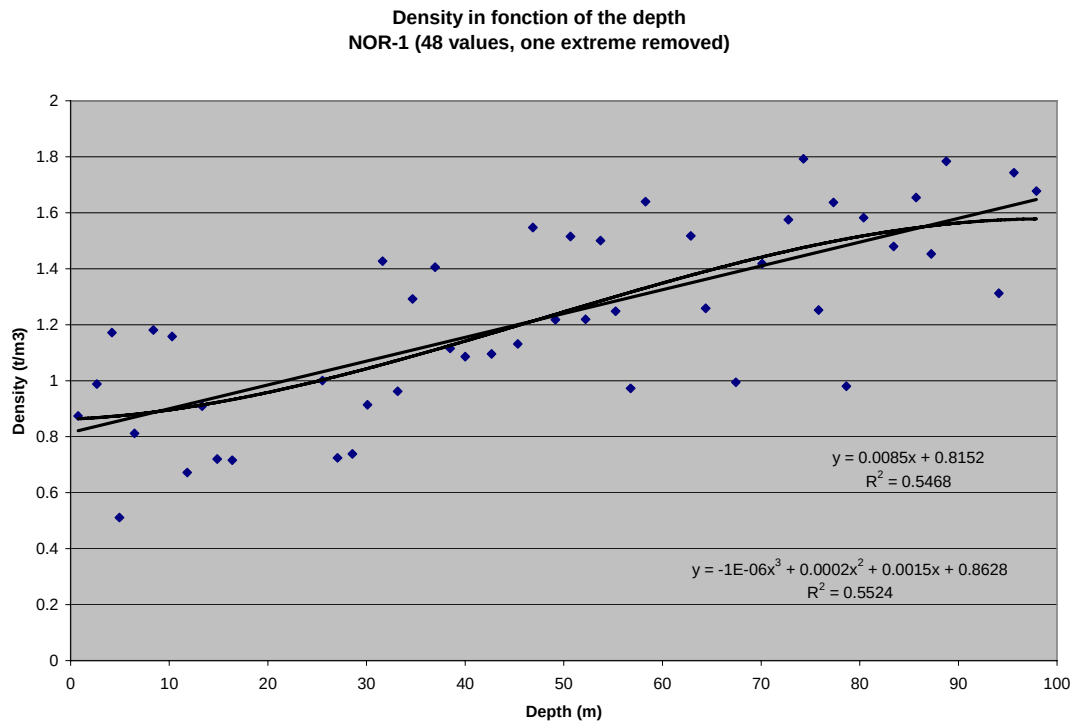
Table 20: Density per samples

In the next table, the mean density of the samples is given by hole.

Hole Name	Density)	Depth Hole (m.)
BEL-1	1.224	32
NOR-1	1.305	99
NOR-10	1.213	32
NOR-2	1.210	32
NOR-3	1.197	32
NOR-4	1.280	99
NOR-5	1.330	75
NOR-6	1.307	59
NOR-7	1.193	44
NOR-8	1.254	59
NOR-9	1.191	32

Table 21: Average density per hole

A relation between the specific gravity of the samples and its depth was observed. The strongest relation of the density, which is increasing in function of the depth, was observed in the hole NOR-1 on the Normandie pile. The next figure shows the regression with a linear equation and a polynomial equation of third degree. Only one sample was removed for presentation purposes because it was an extreme value (2.77 t/m^3) caused probably by a weak recuperation (20%) and a length of 1.52 m. However it was kept into the estimation since low values were also kept.



The correlation coefficients of the two kind of regression are relatively strong with 0.55. The mean density of 1.27 which was observed for all the samples corresponds to an approximate depth of 55 meters.

The next graph shows all the values of density except 17 irregular values in function of their depth. The same relation is observed with more values situated in a depth of 50 meters.

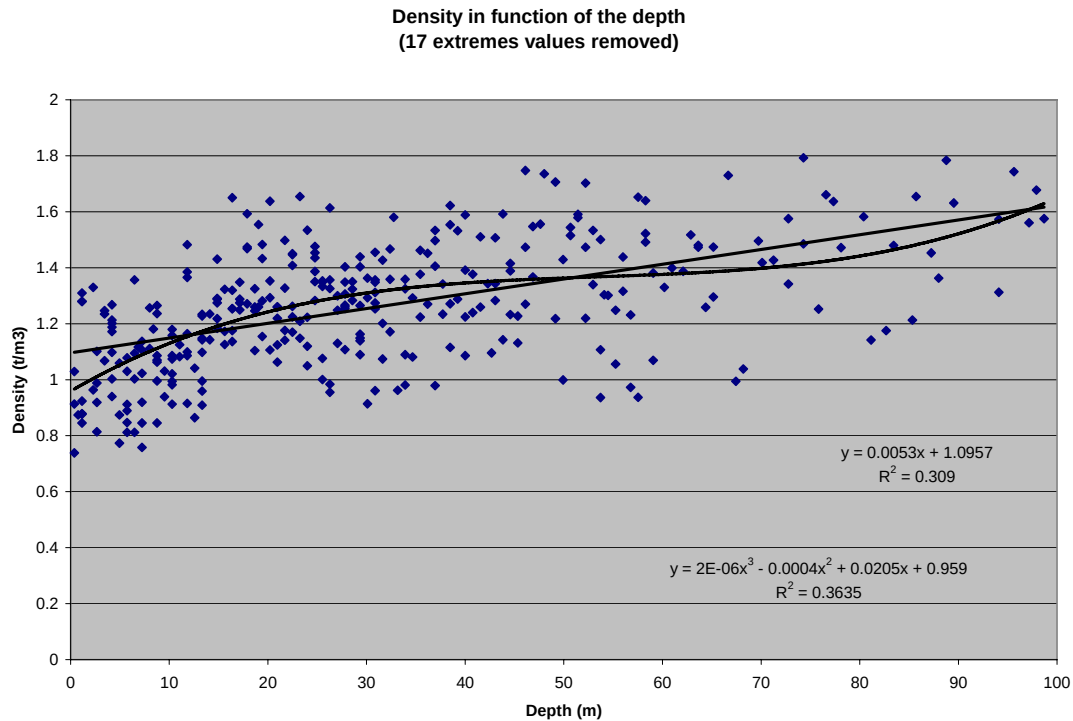


Figure 27: Variation of density with depth

17. Other relevant data and information

Nichromet is actually building a pilot plant in Thetford Mines in order to test and demonstrate the complete process at the first level of industrial plant, a one tonne per hour pilot plant.

18. Interpretation and conclusions

This drilling program permitted to prove the hypothesis of gradual variation of the density with depth. It also permitted to verify the homogeneous content of the tailings of the Normandie Pile. No domestic waste was encountered but an inquiry could be done to know the different stages of formation of the pile over the years.

This drilling program has enable Geostat to make adequate resources estimates on the nickel content in the Normandie main tailings pile. The analysis at COREM of soluble nickel with hydrochloric acid leach on the whole fraction of the sample shows recoveries in the 90 to 95% range, which is very interesting. Further testing by Nichromet should include processing all the material to maximize the recovery of nickel until magnetic separation shows significant impact and improve recovery results.

The investigation of grades has also indicated that historical grades from CRM study and tonnage estimation were adequate, it has also confirmed per recent conversation with the LAB engineer responsible of the 2001 asbestos tailings tonnages estimates.

The investigation also shows that nickel content in the asbestos tailings piles is very similar from one pile to an other in the area of work.

The success of the Nichromet project would have a significant positive environmental impact with the use of the asbestos tailings for the filling of the old pits with the tailings of Nichromet process, thus securing huge pits and reducing population exposure to asbestos dusts of the piles.

19. Recommendations

Geostat first recommendation is to run additional test on nickel and by-product recovery, at the pilot plant scale in order to materially prove and improve the process. Once this is done, a pre feasibility study should be done to adequately evaluate the economical value of the process and project. All the environmental aspect will have to be covered in this study.

- The author considers that there is considerable potential to increase the mineral resources quality on the properties and potential to define mineral reserves based on actual information.
- The author recommends that Nichromet carry out all the necessary work and property acquisition agreements to secure its access to mining rights (asbestos tailings piles) with the land owners.
- The author recommends the following work program:
 - The first phase:
 - Surveying the other piles that have not been surveyed \$ 75,000
 - Test pits on British Canadian I & II and King Beaver \$ 50,000
 - The second phase has two objectives:
 - Pilot plant testing and construction \$ 3,500,000
 - Pre feasibility study \$ 200,000
- Should minimal commercial production achieved with the small scale plant, go ahead for a major feasibility study with detailed engineering \$ 3,000,000
- Should feasibility proved to be positive with success of the pilot plant then construction and acquisition of infrastructures and first commercial scale plant construction 15t/hr \$50,000,000

Nichromet has taken advance in the logical process, it has constructed a 1 tonne per hour pilot plant and they have already started the second phase of our logical work program course.

C.D. October 15, 2007

20. References

- + Voyage au coeur des Appalaches – Guide des curiosités minérales de la M.R.C. de l'Amiante, Musée min.ralogique et minier de la région de l'Amiante, 1993
- + Nichromet Dr. Lalancette's report titled "Pilot Plant for nickel and Magnesium Products from Serpentinic Ores and Laterites by Chloridation Energy and Mass Balance, May 2005"
- + Nichromet Extraction Report of June 2004 on nickel Recovery from Serpentine which includes:
 - Mineralogy of Chrysotile Asbestos, Chemical Composition of Tailings
 - The occurrence of Native nickel-iron in the Serpentine Rock of the Eastern Townships of Quebec Province
 - Heazlewoodite and Awaruite in Serpentinities of the Eastern Township, Québec
 - Garnierite
 - Reduction of Garnierite
 - Magnetic concentrate from various tailings of Quebec
 - Pilot Plant Investigation for the Recovery of nickel, Iron from Tailings
- + Black Lake Lac d'Amiante 1882-1982, by Clément Fortier Tome I, Amiante et chrome des Appalaches Cent ans d'histoire, 1983.
- + Chemical average grades of asbestos piles by CRM
- + Summary of estimation of asbestos tailings piles tonnage by Michel Labbé eng. in 2001.

21. Signature of the technical report

This report titled: Technical Report Resources Estimation of the nickel Content in Asbestos Mines Tailings, Thetford Mines and dated October 15th, was prepared and signed by the authors.

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Blainville, Québec Canada
October 15th 2007

22. Certificate of qualifications of authors

Certificate of Claude Duplessis, eng.

To Accompany the Report entitled

“Technical Report Resources Estimation of the nickel Content in Asbestos Mines Tailings,
Thetford Mines and dated October 15th 2007

I, Claude Duplessis, eng., do hereby certify that:

1. I reside at 3 du Carabinier, Blainville, Quebec, Canada, J7C 5B8.
2. I am a graduate from the University of Quebec in Chicoutimi, Quebec in 1988 with a B.Sc.A in geological engineering and I have practiced my profession continuously since that time.
3. I am a registered member of the Ordre des ingénieurs du Québec (Registration Number 45523). I am also a registered engineer in the province of Alberta (Registration Number M77963). I am a Member of the Canadian Institute of Mining, Metallurgy and Petroleum and member of the Prospector and Developers Association of Canada.
4. I am a Senior Engineer and Manager of Geostat Systems International Inc.
5. I have worked as an engineer for a total of 19 years since my graduation. My relevant experience for the purpose of the Technical Report is: Over 15 years of consulting in the field of Mineral Resource estimation, orebody modeling, mineral resource auditing and geotechnical engineering.
6. I have read the definition of “qualified person” set out in the National Instrument 43-101 and certify that by reason of my education, affiliation with a professional association and past relevant work experience, I fulfill the requirements to be an independent qualified person for the purposes of NI 43-101.
7. I have prepared and written the technical report jointly with Mr. Maxime Dupéré geo., whose certificate appears below for sections 1, 3, 5, 6, 8 & 12. I have also jointly worked with Gilbert Rousseau whose certificate appears below on section 15. I am sole responsible for sections 13, 14, 16, 17, 18, 19 & 20 of this report. I have personally visited the site at several occasions in summer 2007.
8. I have no personal knowledge as of the date of this certificate of any material fact or material change, which is not reflected in this report.
9. I am independent of Nichromet Extraction Inc. applying all of the tests set forth in section 1.4 of NI 43-101 and section 3.5 of NI 43-101 Companion Policy.

10. I have read NI 43-101 and Form 43-101F1 and have prepared the technical report in compliance with NI 43-101 and Form 43-101F1; and have prepared the report in conformity with generally accepted Canadian mining industry practice, and 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.

Signed at Blainville, Quebec this 15th day of October, 2007

(s) Claude Duplessis

Claude Duplessis, P. Eng.

Certificate of Gilbert Rousseau, eng.

To Accompany the Report entitled

**“Technical Report Resources Estimation of the nickel Content in Asbestos Mines Tailings,
Thetford Mines, October 15th 2007**

I, Gilbert Rousseau, eng., do hereby certify that:

11. I reside at 6928 Blvd Grande Baie Sud, La Baie, Qc, G7B 3P6.
12. I am a graduate from the Ecole Polytechnique of Montreal in 1969 with a B.Sc.A in mining engineering and I have practiced my profession continuously since that time.
13. I am a registered member of the Ordre des Ingénieurs du Québec (Registration Number 20288).
14. I have worked as an engineer for a total of 38 years since my graduation. My relevant experience for the purpose of this Technical Report is more than 15 years as metallurgical engineer at mill superintendent level plus 8 years as a teacher in “Technique Minérale” at the Cegep of Abitibi-Temiscamingue.
15. I have read the definition of “qualified person” set out in the National Instrument 43-101 and certify that by reason of my education, affiliation with a professional association and past relevant work experience, I fulfill the requirements to be an independent qualified person for the purposes of NI 43-101.
16. I have prepared and written part of this technical report in section 15 to which this certificate is attached. I have personally visited the Nichromet laboratory in Sherbrooke in summer 2007.
17. I have no personal knowledge as of the date of this certificate of any material fact or material change, which is not reflected in this report.
18. I am independent of Nichromet Extraction Inc. applying all of the tests set forth in section 1.4 of NI 43-101 and section 3.5 of NI 43-101 Companion Policy.
19. I have read NI 43-101 and Form 43-101F1 and have prepared the technical report in compliance with NI 43-101 and Form 43-101F1; and have prepared the report in conformity with generally accepted Canadian mining industry practice, and 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.

Signed at La Baie, Province of Quebec this 15th day of October, 2007
Gilbert Rousseau, P. Eng.

Certificat of Maxime Dupéré, geo.

To Accompany the Report entitled
***“Technical Report Resources Estimation of the nickel Content in Asbestos Mines
Tailings, Thetford Mines and dated October 15th 2007”***

I, Maxime Dupéré, geo., do hereby certify that:

20. I reside at 14010 Poitras, Mirabel, Québec, Canada, J7N 1K7.
21. I am a graduate from the Université de Montréal, Quebec in 1999 with a B.Sc. in geology and I have practised my profession continuously since 2001.
22. I am a registered member of the Ordre des géologues du Québec (Registration Number 501).
23. I am currently employed by Geostat Systems International Inc.
24. I have worked as a geologist for a total of 6 years since my graduation. My relevant experience for the purpose of the Technical Report is: Close to 5 years of working in the field of geological exploration and drill hole logging, interpretation and sampling for diamond, gold and soils
25. I have read the definition of “qualified person” set out in the National Instrument 43-101 and certify that by reason of my education, affiliation with a professional association and past relevant work experience, I fulfil the requirements to be an independent qualified person for the purposes of NI 43-101 for the 2007 drilling and sampling campaign.
26. I have prepared and written this report jointly with Mr. Claude Duplessis, eng., whose certificate appears above for sections 1, 3, 5, 6, 8 & 12. I am sole responsible for sections 4, 7, 9, 10 & 11 of this report. I have personally visited the site and I supervised the majority of the 2007 drilling and sampling campaign.
27. I have no personal knowledge as of the date of this certificate of any material fact or change, which is not reflected in this report.
28. Neither I, nor any affiliated entity of mine, is at present, under an agreement, arrangement or understanding or expects to become, an insider, associate, affiliated entity or employee of Nichromet Extraction Inc., or any associated or affiliated entities.
29. Neither I, nor any affiliated entity of mine own, directly or indirectly, nor expect to receive, any interest in the properties or securities of Nichromet Extraction Inc., or any associated or affiliated companies.

30. Neither I, nor any affiliated entity of mine, have earned the majority of our income during the preceding three years from Nichromet Extraction Inc., or any associated or affiliated companies.
31. I have read NI 43-101 and Form 43-101F1 and have prepared the technical report in compliance with NI 43-101 and Form 43-101F1; and have prepared the report in conformity with generally accepted Canadian mining industry practice, and as of the date of the 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.

Signed at Blainville, Quebec this 15th day of October, 2007



Maxime Dupéré, geo.

Appendix 1: COREM Sample preparation procedures

LABORATORY OF ANALYTICAL SERVICES

***Preparation guide of solid samples
coming from external clients***

***LSA-guide-P01 (2003/03/21)
Document revised : 2006/05/03***

Authorised signature : _____
CSA-LSA

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1 INTRODUCTION

The laboratory of the analytical services (LSA) of COREM has a samples preparation room for its external customers. We find in this room all the equipment necessary to the preparation of the samples, which makes it possible to the laboratory personnel to carry out the analyses on material out of powder or filings.

This handbook is a guide for the workers preparation room of the LSA. We will detail the procedure of the various operations carried out in the preparation room for solid samples.

2 GENERAL

We present here all the work steps which the assigned personnel must do to provide samples of adequate grain size to the various analytical sectors of the LSA.

The samples arrive in various packaging such as:

- Carton;
- wooden boxes;
- bag;
- Envelope;
- metal boiler, plastic;
- plastic container.

The appointed personnel in the preparation room must initially check the sample to ensure itself of his conformity with the request for analysis form. He stores then the sample in the preparation room while waiting for the recording of the sample and the preparation of the work sheet and the labels.

The flow chart of the process P-LSA-01 presents the essential steps that any solid sample (rocks, ores, grounds, sediments, etc) must undergo, from reception to the return to its owner. This process is summarized in appendix of this document.

2.1 CLIENT DEMAND

Generally, the customer addresses his request to the coordinator or to his representative. This one must be assured of the conformity of the request. We understand by conformity that any request of the customer can be realizable by the LSA in time and with the analytical quality required according to process's "Requests for analyses" P-LSA-01 of the laboratory.

The customer must fill out the suitable form or provide a document describing his needs and requirements, in order to send the request to the coordinator so that he can confirm the feasibility of the analyses according to customer specifications.

2.2 RECEPTION AND INSPECTION

At the time of reception of the samples, the coordinator, or its designated representative, must have an idea of the nature of the sample and analyses desired.

Sample checking is done in conformity with the customer's note of the section 7 of the P-LSA-01. All relevant documents accompanied with the samples must be preserved

2.3 NON-CONFORMITY

If there is nonconformity on one of the checked points, the coordinator, or his designated representative, communicates with the customer to warn him of a nonconformity and follow-up of its request according to notes 3 to 7 of process P-LSA-01.

In the possibility where the nonconformity is major, a nonconformity form must be filled and signed by the head of department, then turned over to the customer. The samples are then placed in the place dedicated to the products not-in conformity while waiting for an answer of the customer.

2.4 RECORDING AND MANAGMENT

At the time of the recording, a sequential laboratory number is assigned with each sample. This number appears on all the work forms and the labels which are produced by the system of management of the analytical data (LIMS).

For each request for analysis recorded in the LIMS, the forms are produced and used. The list of these forms appears in P-LSA-01.

Moreover, the LIMS produces labels used to identify the bottles of samples.

The request for analysis forms are gathered in the preparation room in a book identified "Starlims" including the year, the first number of request for analysis as well as the last number, in a monthly manner. To facilitate research, a label is placed on the first request for analysis form in the book. This document makes it possible to quickly recall information associated with the preparation with the samples concerned and their conservation.

3 PREPARATION AND PHYSICAL TREATMENT

At this stage, each sample undergoes, initially, a visual inspection. According to characteristics' observed and analytical needs, the samples must undergo certain stages of the physical treatment.

3.1 DRYING (P01)

All wet samples must obligatorily be dried. The means used to dry are either with compressed air or in a drying oven at 60 °C, 105 °C or according to client's request. This step does not apply when the moisture analysis is desired on a fraction of the sample. The containers used at this step are either stainless steel disposable commercial aluminium dishes.

3.2 SIEVING (DG113)

Sieving is done at the client's request. He determines the type of sieving wanted, i.e. size and the distribution of the sieves. Sieving can be done using two methods.

3.2.1 HAND SIEVING

Using a sieve of adapted size and grid, we recover the sample fraction passing the sieve. This physical separation is done under the hood. The coarse fraction must also be preserved for the later needs.

3.2.1.1 SIEVE CLEANING

The sieves must always be cleaned using a brush and compressed air to dislodge the particles possibly stuck in the meshes of the sieve. A paper soaked with methanol is then passed on the walls of the sieve to eliminate the stuck residues.

When necessary, the sieves can be cleaned using a water jet and dried to room temperature or in the drying oven at 60 °C before storing in boxes.

3.2.1.2 SIEVE LIST

A list of the sieves available at the preparation laboratory is presented in appendix.

3.2.2 SIEVING WITH THE VIBRATING SIEVER

When several fractions of the samples must be separated, it can be advantageous to use the vibrating sieve. The suitable sieves are then superimposed ones on the others in order to have coarsest on top and finest at the bottom.

The rough sample, crushed or crushed (see further in the text) according to client specifications, is placed at the top of the sieves. A sample lid and a collection dish are installed. Time and speed of vibration are selected on the apparatus. We can, if needed, weight the various fractions obtained from the sieves.

3.3 FRAGMENTATION (PR100)

Sometimes samples are of exaggerated size, i.e. the diameter of the sample is higher than 8 cm. We use, in this case, a hydraulic press to reduce the diameter of the parts to an acceptable size.

3.3.1 HYDRAULIC PRESS USE

- ✦ Clean surfaces of the press with methanol;
- ✦ Start the press a few seconds and to stop it. Does this step three times. This procedure makes it possible fill with oil the hydraulic system;
- ✦ Place the rock on the bottom knife and slowly push the top knife on the rock using the lever used for this purpose for cutting the rock.

N.B. Always wear safety glasses and work gloves during use of the press.

3.4 CRUSHING (P02)

The crushing step makes it possible to reduce all the sample to $\pm 1/4$ inch in order to make it homogeneous. Crushing can also be done with dimensions of $1/4$ inch to an inch. The apparatus being used for this operation is a jaw crusher of the type Bico-Braun Chip Munk Crusiters.

It is very important to clean the crusher between each sample using compressed air and, if needed, by crushing a piece of pure silica and/or washing it with water or with methanol.

3.4.1 JAW CRUSHER USE

- ✎ Make sure the equipment is clean before and between each sample by cleaning the jaws and the dish with air. If necessary, remove the particles stuck using a spatula or a brush and finish cleaning with methanol. When contamination seems too important, crush several times with pieces of quartz, following the usual steps crushing;
- ✎ According to customer requirements, an adjustment of the opening of the jaws can be made. This adjustment is done with a special key which is in the tool cupboard;
- ✎ Enable the ventilation system;
- ✎ Put small quantity of sample into the apparatus to avoid blocking it;
- ✎ Recover the crushed sample, approximately $\pm 1/4$ inch, in the container in lower part of the apparatus;
- ✎ Drain the crushed sample in a suitable container with its identification tag.
- ✎ Clean the apparatus with compressed air;
- ✎ Lubricate the crusher at the specified places with especially identified grease found in the tool cupboard.

3.5 SEPARATION ET HOMOGENISATION (P02)

After all the sample is crushed to $1/4$ inch diameter, a manual splitter is used to homogenize the sample and reduce its quantity to approximately 200 G. Its is very important, because it makes it possible to obtain a representative quantity of material to be analyzed.

3.5.1 SEPARATOR USE

- ✎ Install the splitter under a hood;
- ✎ Clean the apparatus and its components with compressed air before each sample preparation;
- ✎ Place the two containers on each side in lower part of the slides;
- ✎ Pour the crushed sample above the slides in the middle of the splitter;
- ✎ Repeat this last operation if needed until satisfaction;
- ✎ Recover the content of one of the container.
- ✎ Replace the container under the slide.

This procedure makes it possible to reduce the quantity of material by half.

- ✎ Pour the contents of this half above the slides in the middle of the splitter.

- ✦ The volume of material in a container will decrease by half after each separation;
- ✦ Repeat the two last steps until obtaining the quantity necessary to make the analyses and to keep a reserve sample.
- ✦ We keep usually approximately 150 G for the reserve sample and approximately 55 G for the analyses. We separate until a weight of approximately 200 G total;
- ✦ Place the sample in a container with its identification label.

This sample will go to be pulverized. Place the other sample in an envelope identified as a preliminary with the name of the customer, the identification number and its project number.

- ✦ Clean the apparatus with compressed air or water and methanol.

3.6 PULVERIZATION (P03 OU P05)

After separation of the sample, approximately 55 G is weighed on a platform balance and is pulverized for analyses and a second part of approximately 150 G is stored in a bag. All sample surplus is thrown away unless written instructions from the client. After a three (3) months period, the samples are returned to the client or thrown away.

The techniques used for the analysis of the various geological material components generally require samples to be very finely pulverized. It implies that the samples must be parcelled and crushed in a suitable way. All the crushing apparatuses use abrasion and impact in order to achieve this goal.

To pulverize the samples, we use various types of crushers;

- Grinding stones of alumina ceramics (porcelain)
Type: BICO-BRAUN UA
- Tungsten carbide ball planetary crusher
Type: PULVERISETTE 5
- Agate mortar crusher

The type of crusher used to pulverize the sample depends on the type of sample, the required parameters and the volume of material available.

It can happen that on a given sample, several types of pulverization must be carried out. The goal is to avoid contamination of the samples during crushing in order to provide results of great quality.

3.6.1 PULVERISATION WITH GRINDING STONES (P03)

Here are the steps of the Grinding stones of alumina ceramics (porcelain) crusher:

- ✦ Start the ventilation system;
- ✦ Loosen the part containing the grinding stone;
- ✦ Clean the apparatus with compressed air and start the grinding stone;
- ✦ Tighten the part containing the grinding stone;
- ✦ Put the sample into the apparatus in small quantities. Check if the sample powder is fine enough;

- ✦ Do a pass of compressed air in the higher part to make fall remainders from the sample;
- ✦ Collect the powder in the dish below the apparatus, drain it in a round bottom dish, homogenize it with a broad spatula and finally, place the sample in a bottle;
- ✦ Clean the round bottom dish and the spatula between each sample;
- ✦ Clean the apparatus by introducing some quartz into the apparatus by repeating the three last steps. Throw away this material;
- ✦ Do a pass of compressed air in the apparatus to clean it and adjust the grinding stones, if need be, while turning the adjustment screw. It is very important to clean before each sample all the surfaces of the apparatus which can be put in contact with samples:
 - The dish including corners and the lower part;
 - The fall and the top of the lid;
 - The rubber tip and brushes that we put into the opening.

Advantages

- Less handling than the other crushers.
- The powder is easily collected.
- Good fineness of pulverization (- 150 mesh).
- Crushing continuously for bulkier samples.

Disadvantages

- Difficult to obtain fineness lower than -150 mesh.
- A lot of contamination with this type of crusher.
- Apparatus can crush only one sample at a time.
- Requires more than 10 G of material to be crushed.
- Partial loss of the sample.

N.B. Refer to equipment manual for maintenance and care.

3.6.2 TUNGSTEN CARBIDE BALL PLANETARY CRUSHER (P05)

Here are the steps for the utilisation of the tungsten carbide ball planetary crusher of the type PULVERISETTE 5.

- ✦ Clean jars with compressed air;
- ✦ Clean the 6 balls using a sieve, for support, and compressed air;
- ✦ Replace the balls in the jars;
- ✦ Introduce the sample inside each jar. The system accepts 4 jars.

It is essential to note each jar with its corresponding sample number.

- ✦ Add a few drops of methanol on each samples;
- ✦ Close the jars and put them in the apparatus while verifying they are correctly in the specified grooves. **Always balance the centrifugation system with two jars laid out in an opposite way;**
- ✦ Tighten the fasteners well on the jars using the pneumatic key and respect the numbering indicated on the jars and the fasteners;
- ✦ Close the lid;

- ✦ Select speed and time of crushing (2 to 8 minutes according to need);
- ✦ Press START button;
- ✦ At the end of crushing, remove the jars. Never leave the jars locked a long period;
- ✦ Collect the powder in a dish with spout and drain in a bottle while placing the client's identification tag.
- ✦ Use the suitable brushes identified from 1 à 4 according to the list;
- ✦ Clean the dish and the brushes with air between each sample. Use methanol and paper towels if needed;
- ✦ Clean the jars by putting quartz and by repeating the proper steps.
- ✦ The time of crushing for quartz is 5 minutes or more if needed.
- ✦ Also clean the Teflon seals with methanol and a paper towel to dislodge the maximum of residue. Replace these seals if needed.

Advantages

- Makes a fine powder (-200 mesh).
- Powder gets off easily from jars and balls.
- Apparatus can crush for samples simultaneously.
- Very little loss.

Disadvantages

- The jars are heavy.
- Must clean the balls on a sieve.
- Needs more than 10 g of material for crushing.

3.6.3 AGATE MORTAR CRUSHER (P09)

This type of crushing is used only when we have samples with small volume of material. Quantities of sample lower than 10 G cannot be crushed with the grinding stones and the balls. It is then necessary to hand crush the sample with the agate mortar.

3.6.3.1 MORTAR USE

- ✦ Clean mortar and pestle with water or methanol;
- ✦ Dry with compressed air;
- ✦ Put sample in mortar;
- ✦ Reduce it to powder with a circular motion using the pestle;
- ✦ Collect powder and drain into a round base dish, homogenise it with broad spatula. Transfer it in a bottle with the client identification tag;
- ✦ Clean mortar and pestle with water or methanol and dry.

Advantages

- Powder gets off easily
- Quick to use
- Uses a small quantity of material < 10 g.

Disadvantages

- Gives grain size of -100 mesh.

- Device only crushes one sample at a time.

3.7 PREPARATION OF WOOD AND PEAT SAMPLES (T01)

When we receive this type of sample, we must use a rotary crusher with knives of the type PULVERISETTE 14. This crusher avoids heating and calcining the sample as it is the case with the alumina ceramic and tungsten carbide crushers.

3.7.1 KNIFE CRUSHER USE

- ✎ Completely eliminate rocks, sand and metal particles which could damage the knives; Introduce a small quantity of sample into the suitable container and close the lid;
- ✎ Turn the button speed to position 2 until the sample is shredded and bring back to position zero.
- ✎ Repeat this step until satisfaction;
- ✎ Drain the whole in a round bottom dish, homogenize with a broad spatula and transfer it in a plastic bottle;
- ✎ Clean the knives with methanol and a compressed air and replace the grid with the arrow upwards.

3.8 METAL CUTTINGS PREPARATION (P06)

As regards the metal parts, the only way for making filings is to use a drill and a titanium or carbide point bit. The LSA preparation room has a drill press to facilitate collection of filings on metal parts

3.8.1 DRILL PRESS USE

- ✎ Eliminate any solid residue on the work surface with a small brush or with compressed air
- ✎ Check the work surface to eliminate any solid residue with a small brush or with compressed air
- ✎ Place samples in vice tighten it firmly;
- ✎ Choose an adequate bit according to the desired filings to be obtained and type of sample treated;
- ✎ Adjust the height of the support if needed;
- ✎ Work at sufficient revolutions;
- ✎ Once filings obtained, take it out of the vice and clean the apparatus and work surface with a small broom or a brush.

N.B. Always wear safety glasses and work gloves for there are risk of projection and the samples become often hot.

4 BOTTLING AND LABELLING (NO CODE)

The bottling and labelling constitute the final stage of the sample preparation with regard to the room of preparation.

Once pulverized, the sample is carefully drained in a bottle making sure the label indicating the customer nomination is inside the bottle.

For all the types of crushing, we use the clear bottle (2 formats available).

As mentioned above, labels of identification are prepared during the recording of the request. On the label, we find the number of the laboratory and the customer nomination. This label is divided into two parts: the longest part of the label is found on the side of the flask and the other part on the lid.

Here is the bottling procedure for samples.

- ✦ Choose the suitable bottle according to the total mass of the sample;
- ✦ Choose the suitable bottle according to the total mass of the sample;
- ✦ Put the self-stick label prepared during recording on the bottle and the lid.
- ✦ Put the customer identification label in the bottle;
- ✦ Pour the sample powder in a round bottom dish with a spout. Make sure always to clean the dish with an air blast between each sample;
- ✦ Homogenize the sample using a broad spatula;
- ✦ Place the spout in the bottle and pour the sample;
- ✦ Send sample to the reception of the laboratory.

5 QUALITY ASSURANCE AND QUALITY CONTRÔLE

The quality assurance is a group of activities allowing the installation of mechanisms analytical results evaluation. The quality control is a preventive measure which ensures the correct operation of the methods of analysis in a laboratory. The quality of analytical data rests on the validation of the analytical protocols, a functional recording mode of data, equipment and instruments of laboratory in conformity with the analytical procedures, a mode of sampling and conservation of checked samples and check procedures of quality rigorously applied. The quality control must include a checking of the effectiveness of the pre-treatment of sample as well as the accuracy of proportioning.

5.1 CONTAMINATION

Sensitized to the problem of the contamination during sample preparation, the laboratory made several studies since 1982, for each type of pulveriser, in order to determine the nature and the importance of the contaminations which can result from this. The conclusions of this report allowed, for each request, to determine the mode of preparation best adapted to avoid contamination.

In addition to these basic directives, several other points of the total preparation procedure ensure the integrity of the samples. After each sample preparation, the apparatus is cleaned systematically with a brush and air, then a more thorough cleaning with pulverization of pieces of silica before being cleaned again with compressed air and, in certain cases, with methanol. These cleanings can be repeated if needed according to the possible type of contamination.

Silica used for cleaning is prepared in the preparation room. Silica bags of approximately 50 kg

coming from the Bastagonk silica mine Quartz of Charlevoix are preserved in the 1140 warehouse. If need be, by group of 3 or 4 bags, silica is conveyed at the laboratory of preparation and is crushed with a diameter of approximately $\frac{1}{4}$ of inch using a jaw crusher.

This silica is then preserved in plastic containers preserved under the specified hood close to the pulveriser (P05)

5.2 QUALITY CONTROL

According to context, mandate, nature and number of the samples, an adequate quality control must be defined and applied according to the various elements of control and frequency of their application.

It is at this stage that the quality assurance program is applied.

During the recording of requests, the coordinator or the designated person in charge can incorporate in the series, control samples. These control samples are certified reference materials (CRM), interns (IRM) or duplicates samples (double).

Preparation blank: A pure sample of the required elements and a volume equivalent to the analyzed samples is subjected to the same analytical process of the pre-treatment to the proportioning.

Reference material (MR): Material whose one or more properties are sufficiently well defined to make it possible to use it for the evaluation of a method of measurement. The RM come from real samples analyzed several times. MR must be retraceable and validated periodically compared to MRC of comparable nature or with a material coming from an evaluation of performance by a recognized organization.

Certified reference material (CRM): Material whose one or more values of the properties are certified by a technically valid procedure, delivered by an organization of certification and accompanied by a certificate.

Duplicate: Two distinct aliquot parts obtained from the same sample and subjected to the same analytical process of the pre treatment proportioning.

Replica: Several distinct aliquot parts obtained from the same sample and subjected to the same analytical process of the pre treatment proportioning.

This step is one other steps which enable us to check all the analytical stages of the LSA.

6 SAMPLE STORAGE

Samples are stored in cupboards identified according to process's set up and governed by article 4.15 of the LSA quality handbook.

7 DISPOSAL AND AMPLE RETURN TO THE CLIENT

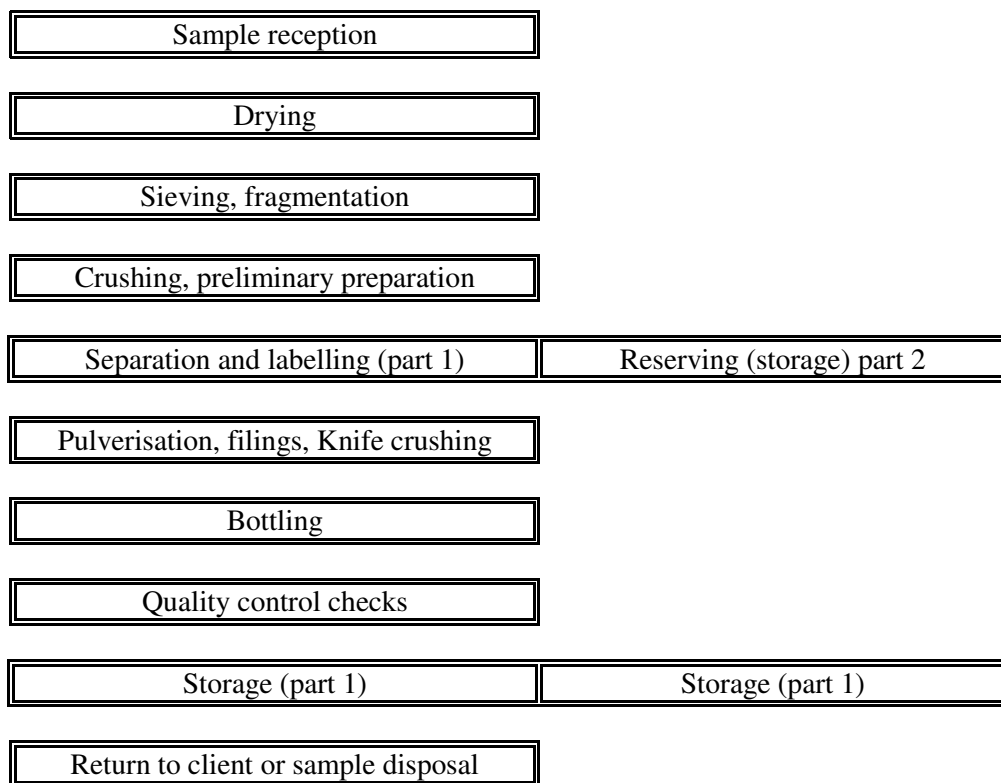
When all the analyses are finished and that the certificate is emitted, the samples are preserved for a period of at most one year for the customers who makes the request and of three (3) months for all the other customers of the LSA.

If a customer wishes his samples returned to him after analysis, the coordinator or his designated representative proceeds with the sample return to the expenses of the customer.

8 CONCLUSION

In retrospect this document contains all the information relevant and necessary to the good operation of the preparation room. We described the sample progress from its reception all the way to its return to the owner.

FLOW CHART FOR SAMPLE PREPARATION



SIEVES AVAILABLE AT LSA PREPERATION ROOM

NUMBER (U.S. Standard)	DIAMETRE (mm)	CALIBER (mesh)	QUANTITY (8 in diameter)
10	2,00	9	1
12	1,70	10	1
14	1,40	12	1
16	1,18	14	1
18	1,00	16	1
20	0,850	20	1
25	0,710	24	1
30	0,600	28	1
35	0,500	32	1
40	0,425	35	1
50	0,300	48	1
70	0,212	65	1
80	0,180	80	1
100	0,150	100	1
140	0,106	150	1
170	0,090	170	1
200	0,075	200	1
230	0,063	250	1
270	0,053	270	1
325	0,045	325	2
400	0,038	400	3
---	5,00	---	1
---	10,00	---	1
---	75,00	---	1 of 12 in

Appendix 2: COREM Procedure HCl digestion for the analysis of soluble nickel

1. Weigh 2.5 G of dry sample and put in a 250 ml beaker;
2. Add 70 ml of concentrated HCl;
3. Boil it during 30 minutes with agitation;
4. Add 50 ml of water and boil 30 minutes more;
5. Let it cool and measure 250 ml;
6. Analyze by AA

Appendix 3: COREM LSA-M A02 Fluorescence X Procedure

ANALYTICAL SERVICES LABORATORY

***MAJOR AND MINOR ELEMENT ANALYSIS
USING FLUORESCENCE X – ENSEMBLE A02
(Si, Al, , Mg, Ca, K, Ti, Mn, P, Co, Cr, Cu ,Fe, Ni, Pb, S and Zn)***

Preliminary

ANALYTICAL METHOD

LSA-M-A02 - (2007/07/24)

Authorized signature : _____
CSA-LSA

1. FIELD OF APPLICATION

This method applies to the determination of the elements Si, Al, Mg, Ca, K, Ti, Mn, P, Co, Cr, Cu, Fe, Ni, Pb, S and Zn in the sulphured ores. Only two conditions must be observed:

1. The sample must be able to be amalgamated suitably in a mixture of lithium metaborate and lithium tetraborate 50/50. This excludes the majority of metals or composites whose melting points are very high, as the silicon carbide for example.
2. The sum of the contents of the proportioned elements must approach 100%. This condition is dictated by the program of digital processing of the intensities which takes into account the inter-elements effects suitable for the analysis by x-rays fluorescence.

2. PRINCIPLE

A portion of sample is mixed with a flux; the mixture is then amalgamated at a temperature of approximately 1050°C and is poured in a mould to form a disc of glass. This disc of glass will be presented to the spectrometer of x-rays (x-ray fluorescence).

This technique of fusion makes it possible to counteract the inter-elements effects of surface, grain size and mineralogy which make the x-ray spectrometry (x-ray fluorescence) often difficult. It allows, moreover, by the dilution which it imposes, to decrease the extent of the mathematical corrections for the software of correction of the inter-elements effects.

Measurement on the spectrometer allows the acquisition of intensities in kilo counts a second (kcps) for each element of interest. The program of digital processing transforms these intensities into concentrations which are reported in the form of oxide.

2.1 Chemical reactions

Without object.

3. INTERFERENCES

The following spectral interferences are corrected during measurements on the spectrometer:

Pb on S K α
Fe on Co K α
Mn on Fe K α
Na on Mg K α
Zn on Mg K α ; Zn on Pb L α
Ni on Pb L α

4. RELIABILITY

The definitions of section 4 as well as the tests carried are inspired from the document of the *Ministère de l'Environnement et de la Faune du Québec* for the accreditation of the environmental analysis laboratories. The specific conditions for the tests are mentioned more particularly in under repertoires of section 4.

4.1 Limit of detection

4.1.1 Limit of instrumental detection

The apparatus detection limit or instrumental (LDI) for this application is determined by the Philips software. The LDI is calculated by using the following formula:

$$\text{LDI (\%)} = 3 \times \text{sensitivity (kcps/\%)} \times [\text{background intensity (kc)} / \text{counting time (S)}]^{1/2}$$

The background intensity is given using the coefficients of Lagrange (SuperQ/Reference Manual version June 1, 2001, p55).

4.1.2 Detection limit of the method

The detection limit of the method (LDM) for the A23 application was given by using the following equation:

$$\text{LDM (\%)} = 3 \times \text{LDI where LDI = Limit of instrumental detection.}$$

4.1 Quantification Limit

The quantification limit of the method (LQM) corresponds to the minimal concentration which can be quantified using a method of analysis with a definite reliability.

The quantification limit of the method (LQM) for the A23 application was given by using the following equation:

LQM (%) = 10 X LDI where LDI = Limit of instrumental detection.

4.3 Sensitivity

The sensitivity of each element of this method is expressed by the relationship between the signal obtained and the concentration of a standard. The sensitivity corresponds to the slope of the calibration curve expressed in kilo intensity per second (kcps/%).

4.4 Fidelity

Fidelity corresponds to the narrowness of the agreement between the results obtained by applying the experimental process on several occasions. Fidelity can be expressed in term of repeatability and replicability for the A23 method. Reproducibility (comparison with other laboratories) could be carried out for this method.

4.4.1 Repeatability

The repeatability corresponds to the narrowness of the agreement between the individual results obtained on the same sample subjected to the test in the same laboratory and from which at least one of the following elements is different: the analyst, the apparatus, and the day.

A borated pearl is prepared starting from the same sample controls and then analyzed ten times successively by the A23 method. The analyses are carried out on the same x-ray spectrometer.

The value is given from the following equation:

$$\frac{t(0.975; n-1) \times S}{\sqrt{n}}$$

4.4.2 Replicability

The replicability corresponds to the narrowness of the agreement between the successive individual results obtained on the same sample submitted for testing in the same laboratory while preserving the same conditions.

Ten different borated pearls are prepared starting from the same sample controls and then analyzed by the A23 method. The analyses are carried out by the same analyst, inside 24h, by using the same apparatus of fusion and the same x-ray spectrometer. The value is given from the following equation:

$$\frac{t(0.975;n-1)xs}{\sqrt{n}}$$

4.5 Justness

The accuracy corresponds to the narrowness of the agreement between the value certified by a recognized organization and the average result which would be obtained by applying 10 times the experimental process. The accuracy is measured, on a given level of concentration, in the quantifiable zone practises method. It is expressed by a relative error.

Accuracy (%) = 100 - relative error (%)

Relative error (%) = $\frac{(\text{certified value} - \text{average value})}{\text{Certified value}} \times 100$

Information relating to the reliability of the A02 method

See Appendix-1 of the analyses method book.

5. SAMPLING AND SAMPLE PREPARATION

The samples must be prepared accordingly to the procedures of the “Preparation guide of the solid samples (LSA-Guide-P01)”. Then take a representative fraction of the sample for proportioning.

The samples must be homogeneous and of a grain size lower than 150 mesh (106µm). The ceramic or tungsten carbide is used for the pulverization of the samples. A quantity of approximately 5 grams is normally necessary, but it is possible to work with a little less than 2 grams.

6. EQUIPMENT

- µ-pipette 200 µl
- Ultrasound bath, Branson 5510
- Precision balance for flux 0,001g
- Precision balance 0,0001g
- Beaker of 4 litres.
- Bunsen burner
- Crucible of porcelain Coors # 60104 or 60105
- Crucibles of Pt-With the 5% of 25 ml, models (A)
- Spoon of porcelain Coors # 480
- Fluxer Claisse, models M4 with 3 positions
- Barnstead/Thermolyne Furnace which can reach a max. temperature of 1200 °C
- Furnace Lindberg Blue which can reach a temperature maximum of 1200 °C
- Mould of Pt-With the 5% 32 mm in diameter, reinforced type
- Computer
- sampler of 102 positions, Philips PW2510
- Grip for the handling of the pearls
- Hotplate
- Cooler Haskris R175
- X-Ray fluorescence spectrometer, Philips PW2400
- Electric Feeding system without interruption, Toshiba 1400 XL Plus (UPS)
- Suction pole for the pearls (M4)

7. REAGENTS, STANDARDS AND REFERENCE MATERIALS

- Mixture of lithium metaborate(LiM) and lithium tetraborate(Bed) 50/50 commercial, Claisse, cat. # 0620, quality “granular, pure”
- Sodium Nitrate (NaNO₃) certified A.C.S.
- Lithium Bromide(LiBr)
- Potassium Pyrosulphate

- ***Solution of lithium bromide 25%***

In an 800 ml beaker, weigh 125 G of lithium bromide. Add demineralised water to the 500 ml mark. Agitate to dissolve completely. Transfer in a bottle in Nalgene from 500 ml and transfer a portion from the solution in a 100 ml bottle for the use. Identify these solutions correctly.

- ***Citric Acid solution:***

Heat two beakers containing each one 2,750 ml of water on a hotplate until temperature reaches approximately 70 °C (water must not boil during the acid preparation). Dissolve approximately 600 G of citric acid monohydrate in each hot water beaker.

N.B. Prepare this solution just before washing to prevent a degradation of the acid.

8. ANALYTICAL PROTOCOL

8.1 Calibration

The calibration of the spectrometer is carried out by preparing a curve for each element starting from certified materials of reference and pure synthetic materials.

The correction of the instrumental drift with medium and long terms is done with a monitor. The monitor, composed of one (or of several) specimen(S) which contains the elements of interest, is measured regularly and so it is possible to use the same curves during several months.

8.2 Proportioning

8.2.1 Washing of the platinum crucibles

- Place the platinum crucibles in the ultrasound bath basket.
- Gently empty the two beakers of citric acid in the ultrasound bath.
- Start the ultrasound bath using the dial of control and set it to 60 minutes.
- Repeat the preparation of the citric acid and washing a second time.
- A washing with the potassium pyrosulphate can be carried out if needed.

8.2.2 Washing of the platinum crucibles with pyrosulphate

The goal of this washing step is to eliminate the residues which resist the regular washing of the platinum crucibles. This washing step is done using potassium pyrosulphate (dipotassium disulphate), laboratory grade, a porcelain container and a Bunsen burner.

- fill up $\frac{3}{4}$ of platinum crucibles with potassium pyrosulphate;
- Light the propane burners;
- Place the crucibles filled with pyrosulphate above the burners;
- Melt the pyrosulphate move the crucible so that pyrosulphate in fusion comes in contact with all the interior surface of the crucible (Make sure that pyrosulphate does not come into contact with the grips in order to avoid contamination);
- Pour still hot pyrosulphate in a porcelain container;
- Let cool the crucibles and rinse them with water;
- Carry out a conventional cleaning of the platinum crucibles (see cleaning procedure of the platinum crucibles).

8.2.3 Polishing of the platinum moulds

The goal of this operation is to make the interior of the moulds smoothest possible, without asperity. The items being used for this polishing are as follows:

- Rotary Tool DREMEL at variable speed MultiPro;
- Leco polish paste: 1 μ m (810-870)
3 μ m (810-872)
6 μ m (810-874)
9 μ m (810-912)
- Leco polishing oil(Extender Compound) Microid Diamond (811-001);
- Dremel felt plugs (#429) stuck on Dremel polishing disc (Plugs stuck using epoxy glue).

The Follow the procedure as follows:

- Before polishing the moulds, wash with citric acid (see cleaning method of the platinum crucibles) during one (1) hour, hot;
- Rinse with demineralised water;
- Use the polishing pastes in the abrasive descending order(9 μ m, 6 μ m, 3 μ m, 1 μ m (optional)) by adding 1 or 2 Leco polishing oil drops;
- Use the suitable felts (numbered: 1, 3, 6 and 9) with the “DREMEL”;
- Rinse the moulds with water between each steps;
- Wash the moulds with citric acid (see cleaning method of the platinum crucibles) during one (1) hour, hot;
- Rinse with demineralised water;

- Dry on a hotplate.
- Make a fusion with the mixture of lithium métaborate and lithium tétraborate only (blank) before use of the moulds.

8.2.4 Washing of the porcelain crucibles

- Scrape the sample residue with a scraper (e.g.: screwdriver);
- Place the crucibles in a crystallizer (19 cm diam.);
- Add demineralised water to approximately 50% of the crystallizer;
- Add hydrochloric acid to cover the crucibles;
- Heat on hotplate at high and boil one (1) hour;
- Rinse with tap water;
- Rinse with demineralised water;
- Dry on linen or a hotplate;
- Put in the furnace at least one (1) hour at 1050 °C;
- Withdraw from furnace and introduce the crucibles into a desiccator.

8.2.5 Glass disk preparation

- Weigh exactly 6,70 G of the mixture of lithium metaborate and tetraborate 50/50 in glass bottles.
- In a platinum crucible, Weigh precisely approximately 0,2000 G of sample (between 0,195 and 0,205 G). The weight is written in a computer.
- Weigh 1.5g NaCN (1.5 ± 0.05g) and add in the platinum crucible.
- Add approximately 1 to 2 grams of LiM/Bed from the glass bottle in the platinum crucible.
- Stir with a spatula while demolishing, if necessary, agglomerated matter.
- Add the remainder of LiM/LiT contained in the small bottle **without mixing with what is already present in the crucible.**
- Add 540 µL lithium bromide solution 25% to the center of the platinum crucible.
- Place the crucible and the mould on one of the fluxor.
- Select the merge program # 5 on the fluxor M4.
- After fusion, withdraw the glass disc from the mould using the suction rod (M4) while avoiding touching the disc planes with fingers (danger of contamination out of sodium particularly).
- Always maintain disc plane on a very clean surface and identify the disc by sticking a label on the other face.
- Place the disc in a paper envelope clearly identified.

8.2.6 Measure on the spectrometer

- See the summary of operation for the of x-ray fluorescence spectrometer (PW 2400, software Super Q 3.0) in the method's appendix.
- From the spectrometer operation software, prepare a work list including samples information files: sample identification, weight used and the value of the loss on ignition.
- Place the samples on the automatic sampler while placing the label on the top of the sample.
- Start measurement of the samples.

9. CALCULATIONS

Conversion of the intensities into concentrations

The intensities measured for each element of interest are corrected for:

- Instrumental drift
- background(S)
- Spectral interferences in intensity

The calculated intensities are then used for the calculation of the concentrations according to the following equation:

$$C = D + (E \times R \times (1+M)) \quad \text{where as:}$$

C = concentration of the element in the oxide form (%)

D = ordinate to the origin of the calibration curve (%)

E = slope of the calibration curve (%/kcps)

R = sharp intensity (kcps)

M = Correction factor of the inter-elements affects

The correction factor M is obtained according to the following equation:

$$1+M = 1 + \sum_{j=1}^N \alpha_{i,j} * C_j \quad \text{where as:}$$

α = alpha ratio for the correction of the matrix effects

I = element of interest

J =interfering element

NR = number of elements present

C_j = concentration of the interfering element J

A final correction is made to take in account of the difference between the weight of

sample used and 0,2000 G. This correction is the ratio of the mass measured for the analysis on the usual mass of 0.2000g (value $X/0.2000g$).

10. REMARKS

The fluxor operation parameters are in the X-Ray fluorescence analyses method book's appendix.

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Appendix 4: COREM analysis certificates.

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F-GEN-53



RAPPORT D'ANALYSE version 1

Votre référence: **Projet Nichromet**

Poches # 67 à 77

Date de réception : **2007-08-02**

Certificat émis le .: **2007-09-04**

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :		18474- 1	18474- 2	18474- 3	18474- 4	18474- 5	18474- 6
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437227	437229	437231	437233	437235	437237
A02- 2 Analyse		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
A02- 2 SiO2		38.66 %	37.59 %	36.56 %	38.62 %	39.70 %	38.92 %
A02- 2 Al2O3		1.049 %	1.106 %	1.032 %	0.969 %	0.937 %	0.991 %
A02- 2 MgO		37.29 %	38.18 %	37.00 %	37.60 %	38.17 %	37.77 %
A02- 2 CaO		0.565 %	0.448 %	0.525 %	0.495 %	0.496 %	0.427 %
A02- 2 K2O		0.020 %	0.017 %	0.017 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 TiO2		< 0.01 %	0.020 %	0.016 %	0.018 %	< 0.01 %	0.018 %
A02- 2 MnO		0.104 %	0.094 %	0.093 %	0.104 %	0.108 %	0.100 %
A02- 2 P2O5		< 0.01 %	0.021 %	< 0.01 %	< 0.01 %	0.016 %	< 0.01 %
A02- 2 Co		< 0.01 %	0.012 %	< 0.01 %	< 0.01 %	0.012 %	0.011 %
A02- 2 Cr		0.269 %	0.252 %	0.249 %	0.267 %	0.270 %	0.261 %
A02- 2 Cu		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.014 %	< 0.01 %
A02- 2 Fe		5.349 %	5.409 %	5.337 %	5.929 %	5.715 %	5.627 %
A02- 2 Ni		0.228 %	0.227 %	0.221 %	0.232 %	0.249 %	0.245 %
A02- 2 Pb		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-29	2007-08-29		2007-08-29		
B29- 1 Ni		0.201 %	0.201 %		0.197 %		
P02- 1 Préparation		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P02- 1 Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P05- 1 Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale		4.585 kg	4.120 kg	4.765 kg	2.570 kg	4.090 kg	3.290 kg

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RAPPORT D'ANALYSE version 1

Votre référence

Projet Nichromet

Poches # 67 à 77

Date de réception :

2007-08-02

Certificat émis le .:

2007-09-04

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :	18474- 7	18474- 8	18474- 9	18474- 10	18474- 11	18474- 12
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437239	437241	437243	437245	437247	437249
A02- 2 Analyse	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
A02- 2 SiO2	38.25 %	38.16 %	39.06 %	38.41 %	38.32 %	37.93 %
A02- 2 Al2O3	0.881 %	1.358 %	1.072 %	1.030 %	1.346 %	0.826 %
A02- 2 MgO	38.19 %	36.95 %	37.99 %	38.23 %	37.34 %	38.07 %
A02- 2 CaO	0.429 %	0.693 %	0.527 %	0.473 %	0.648 %	0.438 %
A02- 2 K2O	< 0.01 %	0.082 %	0.036 %	0.020 %	0.056 %	< 0.01 %
A02- 2 TiO2	0.012 %	0.025 %	0.014 %	< 0.01 %	0.012 %	< 0.01 %
A02- 2 MnO	0.106 %	0.103 %	0.106 %	0.101 %	0.102 %	0.098 %
A02- 2 P2O5	0.019 %	0.019 %	0.020 %	0.010 %	< 0.01 %	< 0.01 %
A02- 2 Co	0.012 %	0.010 %	0.012 %	0.013 %	0.011 %	0.011 %
A02- 2 Cr	0.265 %	0.248 %	0.288 %	0.257 %	0.251 %	0.282 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.568 %	5.398 %	5.502 %	5.453 %	5.296 %	5.403 %
A02- 2 Ni	0.229 %	0.225 %	0.234 %	0.223 %	0.220 %	0.237 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-29			2007-08-29		
B29- 1 Ni	0.195 %			0.201 %		
P02- 1 Préparation	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	4.285 kg	4.590 kg	2.650 kg	4.305 kg	4.450 kg	3.720 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :		18474- 13	18474- 14	18474- 15	18474- 16	18474- 17	18474- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437251	437253	437255	437257	437259	437261
A02- 2 Analyse		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
A02- 2 SiO2		39.40 %	38.36 %	37.81 %	37.63 %	Éch. absent	Éch. absent
A02- 2 Al2O3		1.341 %	1.422 %	1.044 %	1.138 %	Éch. absent	Éch. absent
A02- 2 MgO		37.39 %	36.81 %	37.95 %	37.76 %	Éch. absent	Éch. absent
A02- 2 CaO		0.632 %	0.571 %	0.306 %	0.483 %	Éch. absent	Éch. absent
A02- 2 K2O		0.031 %	0.010 %	< 0.01 %	< 0.01 %	Éch. absent	Éch. absent
A02- 2 TiO2		0.028 %	0.024 %	0.017 %	< 0.01 %	Éch. absent	Éch. absent
A02- 2 MnO		0.103 %	0.105 %	0.097 %	0.104 %	Éch. absent	Éch. absent
A02- 2 P2O5		0.030 %	0.021 %	0.013 %	< 0.01 %	Éch. absent	Éch. absent
A02- 2 Co		< 0.01 %	0.012 %	< 0.01 %	0.010 %	Éch. absent	Éch. absent
A02- 2 Cr		0.255 %	0.240 %	0.257 %	0.306 %	Éch. absent	Éch. absent
A02- 2 Cu		< 0.01 %	0.017 %	< 0.01 %	< 0.01 %	Éch. absent	Éch. absent
A02- 2 Fe		5.455 %	5.761 %	5.468 %	5.646 %	Éch. absent	Éch. absent
A02- 2 Ni		0.228 %	0.233 %	0.228 %	0.228 %	Éch. absent	Éch. absent
A02- 2 Pb		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	Éch. absent	Éch. absent
A02- 2 S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	Éch. absent	Éch. absent
A02- 2 Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	Éch. absent	Éch. absent
B29- 1 Analyse		2007-08-29			2007-08-29	2007-08-29	2007-08-29
B29- 1 Ni		0.195 %			0.209 %	Éch. absent	Éch. absent
P02- 1 Préparation		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P02- 1 Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P05- 1 Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale		3.830 kg	3.195 kg	2.615 kg	3.275 kg	Éch. absent	Éch. absent

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Numéro COREM :	18474- 19	18474- 20	18474- 21	18474- 22	18474- 23	18474- 24
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437263	437265	437267	437269	437271	437273
A02- 2 Analyse	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
A02- 2 SiO2	Éch. absent	Éch. absent	39.32 %	38.38 %	38.66 %	38.86 %
A02- 2 Al2O3	Éch. absent	Éch. absent	1.315 %	1.847 %	1.206 %	1.013 %
A02- 2 MgO	Éch. absent	Éch. absent	37.73 %	36.68 %	37.95 %	38.06 %
A02- 2 CaO	Éch. absent	Éch. absent	0.491 %	0.890 %	0.516 %	0.432 %
A02- 2 K2O	Éch. absent	Éch. absent	0.027 %	0.108 %	0.014 %	< 0.01 %
A02- 2 TiO2	Éch. absent	Éch. absent	0.012 %	0.049 %	< 0.01 %	0.016 %
A02- 2 MnO	Éch. absent	Éch. absent	0.097 %	0.101 %	0.108 %	0.107 %
A02- 2 P2O5	Éch. absent	Éch. absent	< 0.01 %	0.057 %	0.019 %	< 0.01 %
A02- 2 Co	Éch. absent	Éch. absent	0.011 %	< 0.01 %	0.011 %	0.011 %
A02- 2 Cr	Éch. absent	Éch. absent	0.244 %	0.237 %	0.265 %	0.282 %
A02- 2 Cu	Éch. absent	Éch. absent	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	Éch. absent	Éch. absent	5.269 %	5.419 %	5.784 %	5.560 %
A02- 2 Ni	Éch. absent	Éch. absent	0.226 %	0.215 %	0.224 %	0.249 %
A02- 2 Pb	Éch. absent	Éch. absent	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	Éch. absent	Éch. absent	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	Éch. absent	Éch. absent	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-29	2007-08-29		2007-08-29		
B29- 1 Ni	Éch. absent	Éch. absent		0.199 %		
P02- 1 Préparation	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	Éch. absent	Éch. absent	3.855 kg	3.750 kg	3.805 kg	3.550 kg

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Numéro COREM :		18474- 25	18474- 26	18474- 27	18474- 28	18474- 29	18474- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437275	437277	437279	437281	437283	437285
A02- 2 Analyse		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
A02- 2 SiO2		37.67 %	37.45 %	38.63 %	38.04 %	38.51 %	38.20 %
A02- 2 Al2O3		1.097 %	0.801 %	1.601 %	1.311 %	1.479 %	1.297 %
A02- 2 MgO		37.58 %	37.86 %	36.63 %	36.84 %	36.37 %	36.99 %
A02- 2 CaO		0.339 %	0.401 %	0.649 %	0.549 %	0.662 %	0.751 %
A02- 2 K2O		< 0.01 %	< 0.01 %	0.080 %	0.019 %	0.032 %	< 0.01 %
A02- 2 TiO2		0.015 %	0.014 %	0.026 %	0.018 %	0.021 %	0.018 %
A02- 2 MnO		0.099 %	0.102 %	0.092 %	0.101 %	0.101 %	0.105 %
A02- 2 P2O5		< 0.01 %	< 0.01 %	0.019 %	0.016 %	0.012 %	0.022 %
A02- 2 Co		0.011 %	0.011 %	0.010 %	0.012 %	0.011 %	0.011 %
A02- 2 Cr		0.249 %	0.253 %	0.234 %	0.248 %	0.247 %	0.257 %
A02- 2 Cu		< 0.01 %	< 0.01 %	< 0.01 %	0.087 %	< 0.01 %	< 0.01 %
A02- 2 Fe		5.457 %	5.664 %	5.468 %	5.622 %	5.476 %	5.366 %
A02- 2 Ni		0.233 %	0.225 %	0.222 %	0.220 %	0.219 %	0.215 %
A02- 2 Pb		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-29			2007-08-29		
B29- 1 Ni		0.207 %			0.206 %		
P02- 1 Préparation		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P02- 1 Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P05- 1 Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale		3.650 kg	3.665 kg	3.840 kg	4.060 kg	3.755 kg	3.260 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :		18474- 31	18474- 32	18474- 33	18474- 34	18474- 35	18474- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437287	437289	437291	437293	437295	437297
A02- 2 Analyse		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
A02- 2	SiO2	38.00 %	38.38 %	38.08 %	37.76 %	38.73 %	38.00 %
A02- 2	Al2O3	1.233 %	1.084 %	1.819 %	1.651 %	1.164 %	1.604 %
A02- 2	MgO	37.55 %	37.91 %	36.43 %	36.12 %	37.66 %	36.52 %
A02- 2	CaO	0.406 %	0.396 %	0.791 %	0.758 %	0.522 %	0.581 %
A02- 2	K2O	0.027 %	< 0.01 %	0.094 %	0.060 %	0.027 %	0.036 %
A02- 2	TiO2	0.016 %	0.010 %	0.042 %	0.031 %	0.014 %	0.031 %
A02- 2	MnO	0.102 %	0.097 %	0.099 %	0.103 %	0.104 %	0.091 %
A02- 2	P2O5	< 0.01 %	< 0.01 %	0.023 %	0.029 %	0.018 %	< 0.01 %
A02- 2	Co	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	0.011 %	0.011 %
A02- 2	Cr	0.240 %	0.256 %	0.254 %	0.233 %	0.265 %	0.229 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.599 %	5.516 %	5.384 %	5.545 %	5.600 %	5.222 %
A02- 2	Ni	0.226 %	0.242 %	0.228 %	0.210 %	0.218 %	0.222 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-29			2007-08-29		
B29- 1	Ni	0.203 %			0.185 %		
P02- 1	Préparation	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	4.060 kg	3.155 kg	4.065 kg	4.120 kg	4.480 kg	4.650 kg

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Numéro COREM :	18474- 37	18474- 38	18474- 39
Nature :	SOLIDES	SOLIDES	SOLIDES
Désignation :	437299	437301	437303
A02- 2 Analyse	2007-08-30	2007-08-30	2007-08-30
A02- 2 SiO2	38.40 %	38.97 %	38.37 %
A02- 2 Al2O3	1.128 %	1.379 %	1.190 %
A02- 2 MgO	37.60 %	37.28 %	37.59 %
A02- 2 CaO	0.395 %	0.514 %	0.382 %
A02- 2 K2O	< 0.01 %	0.020 %	< 0.01 %
A02- 2 TiO2	0.017 %	0.011 %	0.023 %
A02- 2 MnO	0.103 %	0.102 %	0.106 %
A02- 2 P2O5	0.024 %	0.024 %	< 0.01 %
A02- 2 Co	< 0.01 %	< 0.01 %	0.010 %
A02- 2 Cr	0.253 %	0.254 %	0.265 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.547 %	5.498 %	5.620 %
A02- 2 Ni	0.227 %	0.222 %	0.227 %
A02- 2 Pb	0.013 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-29		
B29- 1 Ni	0.198 %		
P02- 1 Préparation	2007-08-28	2007-08-28	2007-08-28
P02- 1 Conc.	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-28	2007-08-28	2007-08-28
P05- 1 Pul. BW	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	4.755 kg	3.455 kg	4.235 kg
18474- 1	B29- 1/Ni	: Le dosage B29 (Ni) mise en solution HCl (Selon la méthode	

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33313 Geostat Systems International Inc.

Claude Duplessis

fournie du client)

18474- 17	P12- 1/Masse totale: Poche 72 manquante
18474- 18	P12- 1/Masse totale: Poche 72 manquante
18474- 19	P12- 1/Masse totale: Poche 72 manquante
18474- 20	P12- 1/Masse totale: Poche 72 manquante

Responsable :



Bernard Montminy, chimiste, M.Sc.

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Geostat Systems International Inc.

Claude Duplessis

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J7C 3V5

Téléphone : 4504331050 Télécopieur : 4504331048 Courriel :

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

COREM

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33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :	18463- 1	18463- 2	18463- 3	18463- 4	18463- 5	18463- 6
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437147	437149	437151	437153	437155	437157
A02- 2 Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02- 2 SiO2	39.33 %	39.11 %	38.01 %	39.10 %	39.33 %	38.76 %
A02- 2 Al2O3	1.118 %	1.185 %	1.241 %	1.001 %	0.901 %	0.798 %
A02- 2 MgO	38.10 %	38.21 %	37.88 %	38.60 %	38.40 %	38.31 %
A02- 2 CaO	0.792 %	0.757 %	0.762 %	0.584 %	0.517 %	0.412 %
A02- 2 K2O	< 0.01 %	0.027 %	0.014 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 TiO2	0.014 %	0.023 %	0.022 %	0.019 %	0.013 %	0.015 %
A02- 2 MnO	0.101 %	0.105 %	0.109 %	0.107 %	0.106 %	0.100 %
A02- 2 P2O5	0.017 %	< 0.01 %	0.019 %	0.015 %	0.010 %	< 0.01 %
A02- 2 Co	0.010 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.246 %	0.242 %	0.248 %	0.264 %	0.278 %	0.268 %
A02- 2 Cu	< 0.01 %	0.021 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.472 %	5.470 %	5.554 %	5.683 %	5.818 %	5.328 %
A02- 2 Ni	0.223 %	0.221 %	0.223 %	0.253 %	0.239 %	0.260 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27	2007-08-28		2007-08-27		
B29- 1 Ni	0.208 %	0.203 %		0.210 %		
P02- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	3.835 kg	3.180 kg	3.500 kg	3.660 kg	3.220 kg	3.890 kg

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Numéro COREM :		18463- 7	18463- 8	18463- 9	18463- 10	18463- 11	18463- 12
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437159	437161	437163	437165	437167	437169
A02-	2	Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02-	2	SiO2	38.70 %	38.95 %	38.12 %	38.71 %	38.60 %
A02-	2	Al2O3	1.224 %	0.843 %	0.923 %	0.939 %	1.328 %
A02-	2	MgO	37.90 %	37.84 %	37.84 %	37.79 %	37.36 %
A02-	2	CaO	0.596 %	0.503 %	0.436 %	0.619 %	0.554 %
A02-	2	K2O	0.034 %	< 0.01 %	< 0.01 %	< 0.01 %	0.069 %
A02-	2	TiO2	0.023 %	< 0.01 %	< 0.01 %	< 0.01 %	0.028 %
A02-	2	MnO	0.102 %	0.103 %	0.104 %	0.106 %	0.103 %
A02-	2	P2O5	0.021 %	0.010 %	0.012 %	0.015 %	0.010 %
A02-	2	Co	< 0.01 %	0.011 %	0.012 %	0.010 %	< 0.01 %
A02-	2	Cr	0.252 %	0.258 %	0.257 %	0.256 %	0.229 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %
A02-	2	Fe	5.400 %	5.500 %	5.490 %	5.298 %	5.666 %
A02-	2	Ni	0.221 %	0.225 %	0.224 %	0.231 %	0.236 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-27		2007-08-27		
B29-	1	Ni	0.212 %		0.209 %		
P02-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1	Masse totale	3.840 kg	3.870 kg	3.595 kg	3.235 kg	4.345 kg

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Numéro COREM :		18463- 13	18463- 14	18463- 15	18463- 16	18463- 17	18463- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437171	437173	437175	437177	437179	437181
A02- 2	Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02- 2	SiO2	38.68 %	38.73 %	38.75 %	37.97 %	39.64 %	39.50 %
A02- 2	Al2O3	1.075 %	1.118 %	1.915 %	1.152 %	1.525 %	1.954 %
A02- 2	MgO	37.38 %	37.45 %	36.06 %	37.30 %	36.03 %	35.12 %
A02- 2	CaO	0.575 %	0.453 %	0.898 %	0.513 %	0.471 %	0.467 %
A02- 2	K2O	0.033 %	0.032 %	0.110 %	< 0.01 %	0.197 %	0.342 %
A02- 2	TiO2	0.022 %	0.012 %	0.027 %	< 0.01 %	0.023 %	0.046 %
A02- 2	MnO	0.102 %	0.099 %	0.104 %	0.099 %	0.082 %	0.081 %
A02- 2	P2O5	< 0.01 %	< 0.01 %	0.035 %	0.012 %	0.026 %	0.043 %
A02- 2	Co	0.011 %	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %	0.012 %
A02- 2	Cr	0.223 %	0.222 %	0.240 %	0.245 %	0.229 %	0.254 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.210 %	5.313 %	5.344 %	5.697 %	5.143 %	5.243 %
A02- 2	Ni	0.219 %	0.221 %	0.213 %	0.218 %	0.207 %	0.209 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27		
B29- 1	Ni	0.206 %			0.216 %		
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.470 kg	3.710 kg	4.020 kg	3.420 kg	2.630 kg	2.750 kg

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Numéro COREM :	18463- 19	18463- 20	18463- 21	18463- 22	18463- 23	18463- 24
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437183	437185	437187	437189	437191	437193
A02- 2 Analyse	2007-08-29	2007-08-29	2007-08-29	2007-09-11	2007-08-29	2007-08-29
A02- 2 SiO2	39.13 %	38.74 %	38.90 %	38.96 %	38.84 %	38.52 %
A02- 2 Al2O3	1.451 %	1.758 %	1.214 %	1.340 %	1.259 %	1.391 %
A02- 2 MgO	36.60 %	35.97 %	36.48 %	36.98 %	36.71 %	36.61 %
A02- 2 CaO	0.418 %	0.456 %	0.460 %	0.364 %	0.375 %	0.350 %
A02- 2 K2O	0.167 %	0.251 %	0.141 %	0.168 %	0.160 %	0.134 %
A02- 2 TiO2	0.022 %	0.034 %	0.025 %	0.020 %	0.025 %	0.022 %
A02- 2 MnO	0.080 %	0.083 %	0.086 %	0.073 %	0.080 %	0.075 %
A02- 2 P2O5	0.021 %	0.028 %	0.011 %	0.030 %	0.016 %	0.010 %
A02- 2 Co	0.010 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	0.011 %
A02- 2 Cr	0.267 %	0.277 %	0.233 %	0.260 %	0.254 %	0.225 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %	< 0.01 %
A02- 2 Fe	4.835 %	5.502 %	5.294 %	5.107 %	5.055 %	5.287 %
A02- 2 Ni	0.215 %	0.208 %	0.212 %	0.218 %	0.231 %	0.214 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.206 %			0.215 %		
P02- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	3.285 kg	2.430 kg	2.530 kg	3.180 kg	2.975 kg	3.250 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :	18463- 25	18463- 26	18463- 27	18463- 28	18463- 29	18463- 30
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437195	437197	437199	437201	437203	437205
A02- 2 Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02- 2 SiO2	38.21 %	38.70 %	33.12 %	39.17 %	39.47 %	39.27 %
A02- 2 Al2O3	1.247 %	1.388 %	1.086 %	1.083 %	1.350 %	1.163 %
A02- 2 MgO	36.65 %	36.34 %	30.45 %	36.92 %	36.12 %	36.82 %
A02- 2 CaO	0.319 %	0.420 %	0.312 %	0.380 %	0.348 %	0.307 %
A02- 2 K2O	0.145 %	0.182 %	0.118 %	0.114 %	0.143 %	0.149 %
A02- 2 TiO2	0.040 %	0.031 %	0.020 %	0.020 %	0.027 %	0.015 %
A02- 2 MnO	0.072 %	0.081 %	0.066 %	0.075 %	0.075 %	0.072 %
A02- 2 P2O5	0.021 %	0.036 %	0.015 %	0.031 %	0.017 %	0.013 %
A02- 2 Co	< 0.01 %	0.011 %	< 0.01 %	0.013 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.266 %	0.255 %	0.194 %	0.234 %	0.238 %	0.259 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.453 %	5.158 %	4.303 %	5.448 %	5.193 %	5.095 %
A02- 2 Ni	0.215 %	0.213 %	0.182 %	0.220 %	0.210 %	0.215 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.017 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.218 %			0.210 %		
P02- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	2.870 kg	3.960 kg	3.740 kg	3.730 kg	3.310 kg	3.520 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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33313 Geostat Systems International Inc.

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Numéro COREM :		18463- 31	18463- 32	18463- 33	18463- 34	18463- 35	18463- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437207	437209	437211	437213	437215	437217
A02-	2 Analyse	2007-08-29	2007-08-29	2007-08-29	2007-09-05	2007-08-29	2007-08-29
A02-	2 SiO2	39.77 %	39.56 %	39.57 %	37.73 %	38.19 %	37.62 %
A02-	2 Al2O3	1.943 %	1.412 %	1.697 %	0.778 %	1.384 %	0.748 %
A02-	2 MgO	35.16 %	36.09 %	35.82 %	38.26 %	36.86 %	38.13 %
A02-	2 CaO	0.573 %	0.477 %	0.477 %	0.351 %	0.456 %	0.341 %
A02-	2 K2O	0.315 %	0.163 %	0.219 %	< 0.01 %	0.135 %	< 0.01 %
A02-	2 TiO2	0.041 %	0.031 %	0.028 %	< 0.01 %	0.022 %	< 0.01 %
A02-	2 MnO	0.081 %	0.072 %	0.087 %	0.101 %	0.091 %	0.099 %
A02-	2 P2O5	0.026 %	0.024 %	0.045 %	0.026 %	0.029 %	0.023 %
A02-	2 Co	0.010 %	0.011 %	0.010 %	0.010 %	< 0.01 %	< 0.01 %
A02-	2 Cr	0.258 %	0.247 %	0.216 %	0.233 %	0.245 %	0.257 %
A02-	2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Fe	5.374 %	5.584 %	4.944 %	5.601 %	5.300 %	5.327 %
A02-	2 Ni	0.207 %	0.222 %	0.207 %	0.230 %	0.220 %	0.221 %
A02-	2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1 Analyse	2007-08-27			2007-08-27		
B29-	1 Ni	0.196 %			0.216 %		
P02-	1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02-	1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05-	1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1 Masse totale	3.960 kg	4.150 kg	3.570 kg	3.315 kg	3.780 kg	3.140 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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Numéro COREM :		18463- 37	18463- 38	18463- 39	18463- 40
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437219	437221	437223	437225
A02- 2	Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02- 2	SiO2	37.74 %	38.09 %	38.31 %	38.96 %
A02- 2	Al2O3	0.873 %	1.171 %	1.046 %	1.379 %
A02- 2	MgO	37.90 %	37.47 %	37.48 %	37.02 %
A02- 2	CaO	0.493 %	0.639 %	0.557 %	0.741 %
A02- 2	K2O	0.031 %	0.040 %	0.040 %	0.072 %
A02- 2	TiO2	< 0.01 %	0.028 %	0.017 %	0.020 %
A02- 2	MnO	0.097 %	0.097 %	0.103 %	0.103 %
A02- 2	P2O5	0.021 %	0.019 %	< 0.01 %	0.016 %
A02- 2	Co	< 0.01 %	< 0.01 %	0.011 %	0.013 %
A02- 2	Cr	0.260 %	0.241 %	0.249 %	0.236 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.377 %	5.087 %	5.657 %	5.588 %
A02- 2	Ni	0.264 %	0.218 %	0.223 %	0.226 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27
B29- 1	Ni	0.209 %			0.214 %
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.965 kg	4.730 kg	3.800 kg	2.955 kg
18463- 1	B29- 1/Ni	: Le dosage B29 (Ni) mise en solution HCl (selon la méthode fo			

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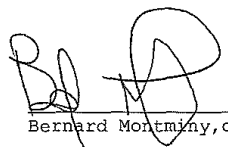
33313 Geostat Systems International Inc.

Claude Duplessis

urnie du client)

18463- 22 A02- 2/SiO2 : 18463-22: Les teneurs pour le dosage A02 ont été modifiées
18463- 34 A02- 2/SiO2 : La teneur du nickel a été modifiée, ce certificat annule et
remplace celui émis précédemment

Responsable :



Bernard Montminy, chimiste, M.Sc.

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Numéro COREM :		18477- 1	18477- 2	18477- 3	18477- 4	18477- 5	18477- 6
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437387	437389	437391	437393	437395	437397
A02- 2 Analyse		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-31
A02- 2	SiO2	37.59 %	38.29 %	37.94 %	37.90 %	38.24 %	37.55 %
A02- 2	Al2O3	1.002 %	1.124 %	0.897 %	1.417 %	1.240 %	1.107 %
A02- 2	MgO	37.73 %	38.11 %	37.88 %	37.27 %	37.62 %	38.28 %
A02- 2	CaO	0.337 %	0.544 %	0.427 %	0.510 %	0.400 %	0.342 %
A02- 2	K2O	0.019 %	0.058 %	0.015 %	0.037 %	< 0.01 %	0.029 %
A02- 2	TiO2	0.010 %	0.026 %	0.019 %	0.020 %	0.013 %	0.014 %
A02- 2	MnO	0.094 %	0.096 %	0.101 %	0.099 %	0.101 %	0.095 %
A02- 2	P2O5	0.016 %	0.017 %	0.016 %	0.036 %	0.014 %	< 0.01 %
A02- 2	Co	0.011 %	0.011 %	0.010 %	< 0.01 %	0.011 %	0.011 %
A02- 2	Cr	0.252 %	0.310 %	0.254 %	0.247 %	0.271 %	0.265 %
A02- 2	Cu	0.015 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.495 %	5.493 %	5.453 %	6.322 %	5.870 %	5.287 %
A02- 2	Ni	0.226 %	0.221 %	0.224 %	0.222 %	0.225 %	0.229 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27	2007-08-27		2007-08-27		
B29- 1	Ni	0.207 %	0.209 %		0.203 %		
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.415 kg	3.435 kg	4.040 kg	4.830 kg	3.790 kg	3.480 kg

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Numéro COREM :		18477- 7	18477- 8	18477- 9	18477- 10	18477- 11	18477- 12
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437399	437401	437403	437405	437407	437409
A02- 2	Analyse	2007-08-31	2007-09-01	2007-09-01	2007-09-01	2007-09-01	2007-09-01
A02- 2	SiO2	38.16 %	41.63 %	39.95 %	41.31 %	40.39 %	39.72 %
A02- 2	Al2O3	1.414 %	2.897 %	2.192 %	2.142 %	2.620 %	1.807 %
A02- 2	MgO	37.18 %	32.54 %	34.51 %	34.30 %	33.88 %	36.09 %
A02- 2	CaO	0.489 %	1.001 %	0.652 %	0.921 %	0.749 %	0.566 %
A02- 2	K2O	0.052 %	0.672 %	0.475 %	0.505 %	0.635 %	0.446 %
A02- 2	TiO2	0.012 %	0.048 %	0.044 %	0.037 %	0.046 %	0.026 %
A02- 2	MnO	0.097 %	0.088 %	0.077 %	0.091 %	0.093 %	0.078 %
A02- 2	P2O5	0.015 %	0.027 %	0.024 %	0.033 %	0.040 %	0.020 %
A02- 2	Co	0.010 %	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Cr	0.238 %	0.247 %	0.254 %	0.244 %	0.248 %	0.349 %
A02- 2	Cu	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	6.043 %	4.837 %	4.522 %	5.059 %	4.607 %	4.107 %
A02- 2	Ni	0.222 %	0.190 %	0.204 %	0.200 %	0.196 %	0.216 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27		
B29- 1	Ni	0.215 %			0.180 %		
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	4.035 kg	3.080 kg	3.980 kg	3.595 kg	4.010 kg	2.590 kg

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Numéro COREM :		18477- 13	18477- 14	18477- 15	18477- 16	18477- 17	18477- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437411	437413	437415	437417	437419	437421
A02-	2	Analyse	2007-09-01	2007-09-01	2007-09-01	2007-09-01	2007-09-01
A02-	2	SiO2	40.36 %	40.78 %	41.94 %	38.92 %	40.29 %
A02-	2	Al2O3	2.030 %	3.065 %	2.805 %	1.615 %	2.156 %
A02-	2	MgO	34.93 %	33.36 %	33.07 %	35.51 %	33.81 %
A02-	2	CaO	0.657 %	0.443 %	0.978 %	0.321 %	0.868 %
A02-	2	K2O	0.308 %	0.707 %	0.751 %	0.306 %	0.668 %
A02-	2	TiO2	0.024 %	0.053 %	0.041 %	0.025 %	0.034 %
A02-	2	MnO	0.102 %	0.087 %	0.093 %	0.083 %	0.097 %
A02-	2	P2O5	< 0.01 %	0.048 %	0.027 %	0.019 %	0.012 %
A02-	2	Co	0.010 %	< 0.01 %	0.010 %	< 0.01 %	0.013 %
A02-	2	Cr	0.302 %	0.227 %	0.257 %	0.262 %	0.283 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %
A02-	2	Fe	4.661 %	4.304 %	4.492 %	5.319 %	5.134 %
A02-	2	Ni	0.215 %	0.189 %	0.189 %	0.218 %	0.212 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-27		2007-08-27		
B29-	1	Ni	0.190 %		0.195 %		
P02-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1	Masse totale	3.215 kg	3.485 kg	2.680 kg	3.425 kg	3.755 kg

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Numéro COREM :	18477- 19	18477- 20	18477- 21	18477- 22	18477- 23	18477- 24
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437423	437425	437427	437429	437431	437433
A02- 2 Analyse	2007-09-01	2007-09-01	2007-09-01	2007-09-01	2007-09-01	2007-09-01
A02- 2 SiO2	40.15 %	38.80 %	40.17 %	39.72 %	39.44 %	40.09 %
A02- 2 Al2O3	1.722 %	1.859 %	1.946 %	2.005 %	1.726 %	1.906 %
A02- 2 MgO	35.04 %	35.11 %	35.13 %	35.01 %	36.01 %	34.98 %
A02- 2 CaO	0.523 %	0.356 %	0.607 %	0.515 %	0.597 %	0.580 %
A02- 2 K2O	0.424 %	0.330 %	0.445 %	0.454 %	0.315 %	0.347 %
A02- 2 TiO2	0.025 %	0.027 %	0.022 %	0.032 %	0.026 %	0.025 %
A02- 2 MnO	0.084 %	0.101 %	0.094 %	0.087 %	0.088 %	0.085 %
A02- 2 P2O5	0.035 %	0.016 %	0.031 %	0.020 %	0.025 %	0.023 %
A02- 2 Co	< 0.01 %	0.010 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.279 %	0.428 %	0.384 %	0.340 %	0.309 %	0.244 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.035 %
A02- 2 Fe	4.632 %	5.855 %	5.070 %	4.816 %	4.790 %	5.044 %
A02- 2 Ni	0.209 %	0.198 %	0.205 %	0.211 %	0.211 %	0.204 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.176 %			0.186 %		
P02- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	3.110 kg	3.365 kg	4.340 kg	3.140 kg	4.035 kg	3.735 kg

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Numéro COREM :	18477- 25	18477- 26	18477- 27	18477- 28	18477- 29	18477- 30
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437435	437951	437952	437953	437954	437955
A02- 2 Analyse	2007-09-01	2007-09-04	2007-09-04	2007-09-04	2007-09-04	2007-09-04
A02- 2 SiO2	40.25 %	38.43 %	38.70 %	39.83 %	39.59 %	39.73 %
A02- 2 Al2O3	1.799 %	0.861 %	0.749 %	1.692 %	1.511 %	1.759 %
A02- 2 MgO	36.28 %	37.76 %	38.31 %	35.35 %	35.54 %	35.71 %
A02- 2 CaO	0.600 %	0.329 %	0.417 %	0.525 %	0.440 %	0.452 %
A02- 2 K2O	0.276 %	< 0.01 %	< 0.01 %	0.235 %	0.204 %	0.249 %
A02- 2 TiO2	0.021 %	0.015 %	< 0.01 %	0.028 %	0.026 %	0.023 %
A02- 2 MnO	0.093 %	0.098 %	0.099 %	0.080 %	0.082 %	0.082 %
A02- 2 P2O5	< 0.01 %	0.016 %	< 0.01 %	0.026 %	0.018 %	0.019 %
A02- 2 Co	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.258 %	0.245 %	0.240 %	0.263 %	0.261 %	0.234 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	4.234 %	5.009 %	5.136 %	5.062 %	5.047 %	5.297 %
A02- 2 Ni	0.214 %	0.227 %	0.236 %	0.250 %	0.236 %	0.210 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.203 %			0.186 %		
P02- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	4.040 kg	4.325 kg	3.740 kg	3.730 kg	3.580 kg	3.970 kg

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Numéro COREM :	18477- 31	18477- 32	18477- 33	18477- 34	18477- 35	18477- 36
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437956	437957	437958	437959	437960	437961
A02- 2 Analyse	2007-09-04	2007-09-04	2007-09-04	2007-09-04	2007-09-04	2007-09-04
A02- 2 SiO2	38.59 %	39.63 %	39.86 %	39.47 %	40.04 %	39.30 %
A02- 2 Al2O3	1.190 %	1.588 %	1.714 %	1.536 %	1.577 %	1.844 %
A02- 2 MgO	36.98 %	36.07 %	35.40 %	36.16 %	35.80 %	35.24 %
A02- 2 CaO	0.278 %	0.442 %	0.482 %	0.503 %	0.454 %	0.540 %
A02- 2 K2O	0.134 %	0.236 %	0.269 %	0.183 %	0.175 %	0.256 %
A02- 2 TiO2	0.024 %	0.028 %	0.031 %	0.030 %	0.023 %	0.038 %
A02- 2 MnO	0.080 %	0.075 %	0.077 %	0.086 %	0.080 %	0.089 %
A02- 2 P2O5	< 0.01 %	0.025 %	0.032 %	0.011 %	0.019 %	0.026 %
A02- 2 Co	0.012 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %
A02- 2 Cr	0.293 %	0.248 %	0.223 %	0.227 %	0.245 %	0.222 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.091 %	5.386 %	5.053 %	5.189 %	5.353 %	5.673 %
A02- 2 Ni	0.212 %	0.210 %	0.222 %	0.207 %	0.205 %	0.196 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.192 %			0.196 %		
P02- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	3.545 kg	2.320 kg	2.915 kg	3.235 kg	3.795 kg	3.315 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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Page : 6 de 11

33313 Geostat Systems International Inc.
Claude Duplessis

Numéro COREM :		18477- 37	18477- 38	18477- 39	18477- 40	18477- 41	18477- 42
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437962	437963	437964	437965	437966	437967
A02- 2 Analyse		2007-09-04	2007-09-04	2007-09-04	2007-09-04	2007-09-04	2007-09-04
A02- 2	SiO2	39.48 %	39.45 %	38.96 %	39.27 %	36.63 %	35.49 %
A02- 2	Al2O3	1.520 %	1.213 %	1.751 %	1.087 %	0.360 %	0.535 %
A02- 2	MgO	36.01 %	36.68 %	35.54 %	38.17 %	38.32 %	38.45 %
A02- 2	CaO	0.524 %	0.530 %	0.495 %	0.418 %	0.296 %	0.142 %
A02- 2	K2O	0.238 %	0.140 %	0.273 %	< 0.01 %	< 0.01 %	0.041 %
A02- 2	TiO2	0.034 %	0.018 %	0.033 %	0.011 %	< 0.01 %	0.011 %
A02- 2	MnO	0.088 %	0.089 %	0.099 %	0.105 %	0.104 %	0.099 %
A02- 2	P2O5	0.022 %	0.021 %	0.026 %	0.012 %	0.016 %	< 0.01 %
A02- 2	Co	0.011 %	0.011 %	< 0.01 %	0.011 %	0.012 %	0.013 %
A02- 2	Cr	0.254 %	0.259 %	0.269 %	0.246 %	0.260 %	0.367 %
A02- 2	Cu	< 0.01 %	0.028 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.005 %	5.413 %	5.284 %	5.494 %	6.079 %	5.789 %
A02- 2	Ni	0.206 %	0.218 %	0.207 %	0.224 %	0.227 %	0.239 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.012 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27			2007-08-27		2007-08-27
B29- 1	Ni	0.201 %			0.212 %		0.219 %
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.580 kg	4.100 kg	2.990 kg	3.585 kg	3.670 kg	3.310 kg

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33313 Geostat Systems International Inc.
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Numéro COREM :		18477- 43	18477- 44	18477- 45	18477- 46	18477- 47	18477- 48
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437968	437969	437970	437971	437972	437973
A02- 2 Analyse		2007-09-04	2007-09-04	2007-09-04	2007-09-05	2007-09-05	2007-09-05
A02- 2	SiO2	38.03 %	36.45 %	35.71 %	36.87 %	40.68 %	41.57 %
A02- 2	Al2O3	1.048 %	0.595 %	0.556 %	0.538 %	2.927 %	2.579 %
A02- 2	MgO	36.47 %	38.94 %	39.63 %	38.19 %	33.36 %	33.70 %
A02- 2	CaO	0.309 %	< 0.01 %	0.030 %	0.155 %	0.880 %	0.816 %
A02- 2	K2O	0.152 %	< 0.01 %	< 0.01 %	< 0.01 %	0.616 %	0.504 %
A02- 2	TiO2	0.011 %	< 0.01 %	0.013 %	< 0.01 %	0.074 %	0.048 %
A02- 2	MnO	0.098 %	0.101 %	0.095 %	0.103 %	0.103 %	0.092 %
A02- 2	P2O5	0.020 %	0.016 %	< 0.01 %	0.011 %	0.052 %	0.023 %
A02- 2	Co	0.012 %	0.013 %	0.011 %	0.010 %	< 0.01 %	0.012 %
A02- 2	Cr	0.220 %	0.225 %	0.240 %	0.271 %	0.269 %	0.214 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.043 %
A02- 2	Fe	5.211 %	6.240 %	6.009 %	5.734 %	4.814 %	4.913 %
A02- 2	Ni	0.216 %	0.234 %	0.241 %	0.252 %	0.197 %	0.212 %
A02- 2	Pb	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27			2007-08-27		
B29- 1	Ni	0.200 %			0.218 %		
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.541 kg	3.960 kg	3.158 kg	3.340 kg	2.823 kg	2.925 kg

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33313 Geostat Systems International Inc.
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Numéro COREM :		18477- 49	18477- 50	18477- 51	18477- 52	18477- 53	18477- 54
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437974	437975	437976	437977	437978	437979
A02- 2 Analyse		2007-09-05	2007-09-05	2007-09-05	2007-09-05	2007-09-05	2007-09-05
A02- 2	SiO2	40.37 %	40.46 %	39.67 %	39.55 %	40.06 %	41.03 %
A02- 2	Al2O3	1.542 %	1.927 %	1.610 %	1.435 %	2.326 %	1.925 %
A02- 2	MgO	35.31 %	34.45 %	35.50 %	36.44 %	34.14 %	34.60 %
A02- 2	CaO	0.479 %	0.791 %	0.661 %	0.448 %	0.869 %	0.517 %
A02- 2	K2O	0.377 %	0.511 %	0.319 %	0.422 %	0.441 %	0.521 %
A02- 2	TiO2	0.025 %	0.038 %	0.026 %	0.012 %	0.039 %	0.023 %
A02- 2	MnO	0.079 %	0.104 %	0.088 %	0.092 %	0.087 %	0.089 %
A02- 2	P2O5	0.023 %	0.036 %	0.010 %	0.026 %	0.038 %	0.016 %
A02- 2	Co	0.013 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Cr	0.279 %	0.280 %	0.237 %	0.253 %	0.269 %	0.299 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	4.767 %	4.635 %	4.962 %	4.812 %	4.948 %	4.778 %
A02- 2	Ni	0.213 %	0.202 %	0.208 %	0.215 %	0.198 %	0.201 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27			2007-08-27		
B29- 1	Ni	0.193 %			0.203 %		
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	2.775 kg	2.613 kg	2.770 kg	2.521 kg	2.352 kg	1.908 kg

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RAPPORT D'ANALYSE version 1

Votre référence ...: **Projet Nichromet**
Poches # 50-51 et 90 a 96
Date de réception : **2007-08-02**
Certificat émis le .: **2007-09-06**

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :	18477- 55
Nature :	SOLIDES
Désignation :	437980
A02- 2 Analyse	2007-09-05
A02- 2 SiO2	40.46 %
A02- 2 Al2O3	2.020 %
A02- 2 MgO	35.11 %
A02- 2 CaO	0.563 %
A02- 2 K2O	0.488 %
A02- 2 TiO2	0.032 %
A02- 2 MnO	0.086 %
A02- 2 P2O5	0.014 %
A02- 2 Co	< 0.01 %
A02- 2 Cr	0.256 %
A02- 2 Cu	< 0.01 %
A02- 2 Fe	5.084 %
A02- 2 Ni	0.207 %
A02- 2 Pb	< 0.01 %
A02- 2 S	< 0.01 %
A02- 2 Zn	< 0.01 %
B29- 1 Analyse	2007-08-27
B29- 1 Ni	0.191 %
P02- 1 Préparation	2007-08-23
P02- 1 Conc.	Terminée
P05- 1 Préparation	2007-08-23
P05- 1 Pul. BW	Terminée
P12- 1 Analyse	2007-08-28
P12- 1 Masse totale	2.462 kg

18477- 1 B29- 1/Ni : Le dosage B29 (Ni) mise en solution HCl (Selon la méthode fo

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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33313 Geostat Systems International Inc.

Claude Duplessis

(fournie par le client)

Votre référence ...: **Projet Nichromet**
Poches # 50-51 et 90 à 96
Date de réception : **2007-08-02**
Certificat émis le : **2007-09-06**

Responsable :



Bernard Montminy, chimiste, M.Sc.

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Poches # 42 à 55

Geostat Systems International Inc.

Claude Duplessis

10, boulevard de la Seigneurie Est, suite 203
Blainville, QC
J7C 3V5

Téléphone : 4504334050 Télécopieur : 4504331048 Courriel :

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.



RAPPORT D'ANALYSE version 3

33313 Geostat Systems International Inc.
Claude Duplessis

Votre référence ...: **Projet Nichromet**
Poches # 42 à 55
Date de réception : **2007-07-31**
Certificat émis le : **2007-09-14**

Numéro COREM :	18462- 1	18462- 2	18462- 3	18462- 4	18462- 5	18462- 6
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437069	437071	437073	437075	437077	437079
A02- 2 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
A02- 2 SiO2	38.22 %	38.75 %	38.42 %	38.56 %	38.52 %	37.61 %
A02- 2 Al2O3	0.939 %	1.051 %	1.098 %	1.379 %	1.254 %	0.950 %
A02- 2 MgO	38.11 %	37.73 %	37.77 %	37.04 %	37.57 %	38.01 %
A02- 2 CaO	0.403 %	0.488 %	0.488 %	0.651 %	0.470 %	0.382 %
A02- 2 K2O	0.010 %	0.022 %	< 0.01 %	0.085 %	0.022 %	< 0.01 %
A02- 2 TiO2	0.011 %	0.010 %	0.014 %	0.025 %	0.020 %	< 0.01 %
A02- 2 MnO	0.102 %	0.101 %	0.099 %	0.104 %	0.103 %	0.100 %
A02- 2 P2O5	0.015 %	0.025 %	0.013 %	0.027 %	0.026 %	0.015 %
A02- 2 Co	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.013 %
A02- 2 Cr	0.246 %	0.261 %	0.273 %	0.239 %	0.230 %	0.302 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.266 %	5.712 %	5.686 %	5.504 %	5.239 %	5.819 %
A02- 2 Ni	0.234 %	0.230 %	0.234 %	0.245 %	0.224 %	0.222 %
A02- 2 Pb	< 0.01 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.213 %			0.208 %		
P02- 1 Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-27	2007-08-27	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	4.295 kg	3.780 kg	6.265 kg	3.785 kg	2.875 kg	4.390 kg

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RAPPORT D'ANALYSE version 3

33313 Geostat Systems International Inc.

Claude Duplessis

Votre référence **Projet Nichromet**

Poches # 42 à 55

Date de réception : **2007-07-31**

Certificat émis le : **2007-09-14**

Numéro COREM :		18462- 7	18462- 8	18462- 9	18462- 10	18462- 11	18462- 12
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437081	437083	437085	437087	437089	437091
A02- 2 Analyse		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
A02- 2	SiO ₂	37.91 %	38.32 %	38.90 %	38.33 %	38.07 %	38.57 %
A02- 2	Al ₂ O ₃	1.041 %	1.135 %	0.895 %	1.062 %	1.174 %	0.901 %
A02- 2	MgO	37.99 %	37.85 %	38.22 %	38.20 %	38.44 %	38.16 %
A02- 2	CaO	0.388 %	0.540 %	0.399 %	0.384 %	0.342 %	0.458 %
A02- 2	K ₂ O	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	TiO ₂	< 0.01 %	0.018 %	< 0.01 %	0.021 %	< 0.01 %	0.013 %
A02- 2	MnO	0.100 %	0.098 %	0.103 %	0.103 %	0.102 %	0.104 %
A02- 2	P ₂ O ₅	0.012 %	< 0.01 %	0.010 %	0.018 %	0.016 %	0.017 %
A02- 2	Co	0.013 %	< 0.01 %	0.012 %	0.013 %	0.011 %	0.010 %
A02- 2	Cr	0.270 %	0.258 %	0.261 %	0.270 %	0.265 %	0.262 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.487 %	5.753 %	6.047 %	5.777 %	5.553 %	5.471 %
A02- 2	Ni	0.225 %	0.227 %	0.229 %	0.228 %	0.231 %	0.219 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27		
B29- 1	Ni	0.210 %			0.209 %		
P02- 1	Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	2.935 kg	4.375 kg	4.590 kg	4.855 kg	4.165 kg	4.520 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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RAPPORT D'ANALYSE version 3

Votre référence ...: **Projet Nichromet**
Poches # 42 à 55
Date de réception : **2007-07-31**
Certificat émis le : **2007-09-14**

33313 Geostat Systems International Inc.
Claude Duplessis

Numéro COREM :		18462- 13	18462- 14	18462- 15	18462- 16	18462- 17	18462- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437093	437095	437097	437099	437101	437103
A02-	2 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
A02-	2 SiO2	38.50 %	38.35 %	38.32 %	38.04 %	38.52 %	38.35 %
A02-	2 Al2O3	1.103 %	1.203 %	1.082 %	1.010 %	1.194 %	1.051 %
A02-	2 MgO	37.88 %	37.96 %	37.59 %	37.99 %	37.94 %	38.06 %
A02-	2 CaO	0.454 %	0.551 %	0.513 %	0.446 %	0.461 %	0.417 %
A02-	2 K2O	< 0.01 %	< 0.01 %	0.013 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 TiO2	< 0.01 %	0.010 %	0.011 %	0.014 %	< 0.01 %	0.010 %
A02-	2 MnO	0.097 %	0.100 %	0.108 %	0.099 %	0.107 %	0.101 %
A02-	2 P2O5	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %	0.022 %	< 0.01 %
A02-	2 Co	0.012 %	0.012 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Cr	0.267 %	0.254 %	0.266 %	0.263 %	0.238 %	0.276 %
A02-	2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Fe	5.416 %	5.916 %	5.611 %	5.880 %	5.852 %	5.487 %
A02-	2 Ni	0.225 %	0.228 %	0.224 %	0.233 %	0.225 %	0.245 %
A02-	2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1 Analyse	2007-08-27			2007-08-27		
B29-	1 Ni	0.207 %			0.212 %		
P02-	1 Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P02-	1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1 Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P05-	1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1 Masse totale	4.510 kg	4.155 kg	5.230 kg	4.190 kg	5.105 kg	5.095 kg

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RAPPORT D'ANALYSE version 3

33313 Geostat Systems International Inc.
Claude Duplessis

Votre référence ...: **Projet Nichromet**
Poches # 42 à 55
Date de réception : **2007-07-31**
Certificat émis le : **2007-09-14**

Numéro COREM :		18462- 19	18462- 20	18462- 21	18462- 22	18462- 23	18462- 24
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437105	437107	437109	437111	437113	437115
A02- 2	Analyse	2007-08-28	2007-08-28	2007-09-11	2007-08-28	2007-08-28	2007-08-28
A02- 2	SiO ₂	38.43 %	38.72 %	39.32 %	38.27 %	37.55 %	38.48 %
A02- 2	Al ₂ O ₃	0.982 %	1.322 %	1.172 %	1.110 %	0.955 %	1.243 %
A02- 2	MgO	37.72 %	37.28 %	37.76 %	37.61 %	37.76 %	38.10 %
A02- 2	CaO	0.496 %	0.679 %	0.662 %	0.449 %	0.312 %	0.687 %
A02- 2	K ₂ O	0.010 %	0.024 %	< 0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	TiO ₂	0.011 %	0.018 %	0.019 %	0.017 %	< 0.01 %	0.011 %
A02- 2	MnO	0.101 %	0.103 %	0.103 %	0.097 %	0.097 %	0.104 %
A02- 2	P ₂ O ₅	< 0.01 %	0.032 %	0.014 %	0.010 %	< 0.01 %	0.021 %
A02- 2	Co	< 0.01 %	< 0.01 %	0.012 %	0.010 %	0.010 %	< 0.01 %
A02- 2	Cr	0.254 %	0.265 %	0.282 %	0.248 %	0.230 %	0.260 %
A02- 2	Cu	< 0.01 %	< 0.01 %	0.038 %	< 0.01 %	0.022 %	< 0.01 %
A02- 2	Fe	5.689 %	5.738 %	5.683 %	5.684 %	5.581 %	5.616 %
A02- 2	Ni	0.227 %	0.227 %	0.247 %	0.237 %	0.225 %	0.219 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27		2007-08-28	2007-08-27		
B29- 1	Ni	0.208 %		0.211 %	0.205 %		
P02- 1	Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.510 kg	3.685 kg	4.555 kg	3.350 kg	4.430 kg	3.970 kg

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RAPPORT D'ANALYSE version 3

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Poches # 42 à 55
Date de réception : **2007-07-31**
Certificat émis le .: **2007-09-14**

Numéro COREM :		18462- 25	18462- 26	18462- 27	18462- 28	18462- 29	18462- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437117	437119	437121	437123	437125	437127
A02-	2 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
A02-	2 SiO2	39.15 %	38.07 %	37.72 %	37.99 %	37.86 %	38.24 %
A02-	2 Al2O3	1.814 %	1.227 %	1.199 %	1.115 %	0.810 %	0.797 %
A02-	2 MgO	36.39 %	37.14 %	37.57 %	37.96 %	39.16 %	38.85 %
A02-	2 CaO	0.787 %	0.504 %	0.421 %	0.498 %	0.389 %	0.344 %
A02-	2 K2O	0.132 %	0.012 %	0.023 %	0.032 %	< 0.01 %	< 0.01 %
A02-	2 TiO2	0.045 %	0.019 %	0.019 %	0.013 %	0.016 %	< 0.01 %
A02-	2 MnO	0.101 %	0.099 %	0.099 %	0.100 %	0.098 %	0.103 %
A02-	2 P2O5	0.028 %	< 0.01 %	0.012 %	0.013 %	0.016 %	0.015 %
A02-	2 Co	< 0.01 %	0.012 %	0.011 %	0.013 %	0.014 %	0.010 %
A02-	2 Cr	0.250 %	0.251 %	0.266 %	0.229 %	0.250 %	0.254 %
A02-	2 Cu	< 0.01 %	< 0.01 %	0.013 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Fe	5.604 %	5.737 %	5.554 %	5.615 %	5.399 %	5.454 %
A02-	2 Ni	0.216 %	0.290 %	0.227 %	0.222 %	0.234 %	0.227 %
A02-	2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1 Analyse	2007-08-27			2007-08-27		
B29-	1 Ni	0.198 %			0.210 %		
P02-	1 Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P02-	1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1 Préparation	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P05-	1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1 Masse totale	6.650 kg	4.820 kg	4.445 kg	2.765 kg	3.295 kg	3.000 kg

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RAPPORT D'ANALYSE version 3

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Votre référence ...: **Projet Nichromet**
Poches # 42 à 55
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-09-14**

Numéro COREM :			18462- 31	18462- 32	18462- 33	18462- 34	18462- 35	18462- 36
Nature :			SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :			437129	437131	437133	437135	437137	437139
A02- 2 Analyse			2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
A02- 2	SiO ₂		37.99 %	38.25 %	36.92 %	38.38 %	38.00 %	38.72 %
A02- 2	Al ₂ O ₃		0.773 %	0.855 %	0.768 %	0.879 %	0.955 %	1.363 %
A02- 2	MgO		38.58 %	38.42 %	38.60 %	38.11 %	38.05 %	36.93 %
A02- 2	CaO		0.323 %	0.383 %	0.439 %	0.495 %	0.393 %	0.795 %
A02- 2	K ₂ O		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.080 %
A02- 2	TiO ₂		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.021 %	0.027 %
A02- 2	MnO		0.103 %	0.098 %	0.098 %	0.102 %	0.102 %	0.106 %
A02- 2	P ₂ O ₅		0.013 %	< 0.01 %	0.011 %	0.014 %	0.014 %	0.032 %
A02- 2	Co		0.011 %	0.011 %	0.012 %	< 0.01 %	0.011 %	< 0.01 %
A02- 2	Cr		0.246 %	0.248 %	0.271 %	0.251 %	0.244 %	0.232 %
A02- 2	Cu		< 0.01 %	< 0.01 %	0.012 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe		5.566 %	5.751 %	5.318 %	5.481 %	5.542 %	5.551 %
A02- 2	Ni		0.232 %	0.233 %	0.254 %	0.226 %	0.222 %	0.216 %
A02- 2	Pb		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse			2007-08-27			2007-08-27		
B29- 1	Ni		0.213 %			0.205 %		
P02- 1	Préparation		2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P02- 1	Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation		2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
P05- 1	Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse		2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale		2.535 kg	3.310 kg	3.785 kg	3.055 kg	4.145 kg	3.420 kg

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Votre référence ...: **Projet Nichromet**
Poches # 42 à 55
Date de réception : **2007-07-31**
Certificat émis le : **2007-09-14**

Numéro COREM :	18462- 37	18462- 38	18462- 39
Nature :	SOLIDES	SOLIDES	SOLIDES
Désignation :	437141	437143	437145
A02- 2 Analyse	2007-08-28	2007-08-28	2007-08-28
A02- 2 SiO2	38.66 %	38.55 %	39.27 %
A02- 2 Al2O3	1.206 %	1.462 %	1.211 %
A02- 2 MgO	38.04 %	37.24 %	38.07 %
A02- 2 CaO	0.549 %	0.824 %	0.666 %
A02- 2 K2O	< 0.01 %	0.042 %	0.010 %
A02- 2 TiO2	0.015 %	0.027 %	< 0.01 %
A02- 2 MnO	0.106 %	0.099 %	0.104 %
A02- 2 P2O5	0.020 %	0.020 %	0.013 %
A02- 2 Co	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.283 %	0.241 %	0.251 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.632 %	5.118 %	5.274 %
A02- 2 Ni	0.226 %	0.224 %	0.221 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27		
B29- 1 Ni	0.208 %		
P02- 1 Préparation	2007-08-21	2007-08-21	2007-08-21
P02- 1 Conc.	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-21	2007-08-21	2007-08-21
P05- 1 Pul. BW	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-28	2007-08-28	2007-08-28
P12- 1 Masse totale	3.645 kg	3.400 kg	4.395 kg
18462- 1	B29- 1/Ni	: Le dosage B29 (Ni) mise en solution HCl (Selon la méthode	

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A02- 2/SiO2

33313 Geostat Systems International Inc.

Claude Duplessis

fournie par le client)

: 18462-21: Les teneurs pour le dosage A02 ont été modifiées, ce certificat annule et remplace celui émis précédemment

RAPPORT D'ANALYSE version 3

Votre référence ...: **Projet Nichromet**
Poches # 42 à 55
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-09-14**

Responsable :

Bernard Montminy, chimiste, M.Sc.

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Poches # 56 à 66

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RAPPORT D'ANALYSE version 3

Votre référence **Projet Nichromet**
Poches # 56 à 66
Date de réception : **2007-07-31**
Certificat émis le .. **2007-09-25**

33313 Geostat Systems International Inc.
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		18463- 1	18463- 2	18463- 3	18463- 4	18463- 5	18463- 6
Numéro COREM :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Nature :		437147	437149	437151	437153	437155	437157
Désignation :							
A02- 2	Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02- 2	SiO ₂	39.33 %	39.11 %	38.01 %	39.10 %	39.33 %	38.76 %
A02- 2	Al ₂ O ₃	1.118 %	1.185 %	1.241 %	1.001 %	0.901 %	0.798 %
A02- 2	MgO	38.10 %	38.21 %	37.88 %	38.60 %	38.40 %	38.31 %
A02- 2	CaO	0.792 %	0.757 %	0.762 %	0.584 %	0.517 %	0.412 %
A02- 2	K ₂ O	< 0.01 %	0.027 %	0.014 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	TiO ₂	0.014 %	0.023 %	0.022 %	0.019 %	0.013 %	0.015 %
A02- 2	MnO	0.101 %	0.105 %	0.109 %	0.107 %	0.106 %	0.100 %
A02- 2	P ₂ O ₅	0.017 %	< 0.01 %	0.019 %	0.015 %	0.010 %	< 0.01 %
A02- 2	Co	0.010 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Cr	0.246 %	0.242 %	0.248 %	0.264 %	0.278 %	0.268 %
A02- 2	Cu	< 0.01 %	0.021 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.472 %	5.470 %	5.554 %	5.683 %	5.818 %	5.328 %
A02- 2	Ni	0.223 %	0.221 %	0.223 %	0.253 %	0.239 %	0.260 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27	2007-08-28		2007-08-27		
B29- 1	Ni	0.208 %	0.203 %		0.210 %		
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.835 kg	3.180 kg	3.500 kg	3.660 kg	3.220 kg	3.890 kg

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Poches # 56 à 66
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-09-25**

33313 Geostat Systems International Inc.
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Numéro COREM :		18463- 7	18463- 8	18463- 9	18463- 10	18463- 11	18463- 12
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437159	437161	437163	437165	437167	437169
A02-	2 Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02-	2 SiO2	38.70 %	38.95 %	38.12 %	38.71 %	38.60 %	38.21 %
A02-	2 Al2O3	1.224 %	0.843 %	0.923 %	0.939 %	1.328 %	0.986 %
A02-	2 MgO	37.90 %	37.84 %	37.84 %	37.79 %	37.36 %	37.53 %
A02-	2 CaO	0.596 %	0.503 %	0.436 %	0.619 %	0.554 %	0.435 %
A02-	2 K2O	0.034 %	< 0.01 %	< 0.01 %	< 0.01 %	0.069 %	0.025 %
A02-	2 TiO2	0.023 %	< 0.01 %	< 0.01 %	< 0.01 %	0.028 %	0.018 %
A02-	2 MnO	0.102 %	0.103 %	0.104 %	0.106 %	0.103 %	0.101 %
A02-	2 P2O5	0.021 %	0.010 %	0.012 %	0.015 %	0.010 %	0.020 %
A02-	2 Co	< 0.01 %	0.011 %	0.012 %	0.010 %	< 0.01 %	0.011 %
A02-	2 Cr	0.252 %	0.258 %	0.257 %	0.256 %	0.229 %	0.238 %
A02-	2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %
A02-	2 Fe	5.400 %	5.500 %	5.490 %	5.298 %	5.666 %	5.758 %
A02-	2 Ni	0.221 %	0.225 %	0.224 %	0.231 %	0.236 %	0.230 %
A02-	2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1 Analyse	2007-08-27			2007-08-27		
B29-	1 Ni	0.212 %			0.209 %		
P02-	1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02-	1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1 Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05-	1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1 Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1 Masse totale	3.840 kg	3.870 kg	3.595 kg	3.235 kg	4.345 kg	4.015 kg

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RAPPORT D'ANALYSE version 3

Votre référence: **Projet Nichromet**
Poches # 56 à 66
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-09-25**

33313 Geostat Systems International Inc.
Claude Duplessis

Numéro COREM :		18463- 13	18463- 14	18463- 15	18463- 16	18463- 17	18463- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437171	437173	437175	437177	437179	437181
A02-	2	Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02-	2	SiO ₂	38.68 %	38.73 %	38.75 %	39.64 %	39.50 %
A02-	2	Al ₂ O ₃	1.075 %	1.118 %	1.915 %	1.525 %	1.954 %
A02-	2	MgO	37.38 %	37.45 %	36.06 %	36.03 %	35.12 %
A02-	2	CaO	0.575 %	0.453 %	0.898 %	0.513 %	0.467 %
A02-	2	K ₂ O	0.033 %	0.032 %	0.110 %	< 0.01 %	0.197 %
A02-	2	TiO ₂	0.022 %	0.012 %	0.027 %	< 0.01 %	0.023 %
A02-	2	MnO	0.102 %	0.099 %	0.104 %	0.099 %	0.082 %
A02-	2	P ₂ O ₅	< 0.01 %	< 0.01 %	0.035 %	0.012 %	0.026 %
A02-	2	Co	0.011 %	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Cr	0.223 %	0.222 %	0.240 %	0.245 %	0.229 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Fe	5.210 %	5.313 %	5.344 %	5.697 %	5.143 %
A02-	2	Ni	0.219 %	0.221 %	0.213 %	0.218 %	0.207 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-27		2007-08-27		
B29-	1	Ni	0.206 %		0.216 %		
P02-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1	Masse totale	3.470 kg	3.710 kg	4.020 kg	3.420 kg	2.630 kg
						2.630 kg	2.750 kg

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RAPPORT D'ANALYSE version 3

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Poches # 56 à 66
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33313 Geostat Systems International Inc.
Claude Duplessis

Numéro COREM :		18463- 19	18463- 20	18463- 21	18463- 22	18463- 23	18463- 24
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437183	437185	437187	437189	437191	437193
A02- 2 Analyse		2007-08-29	2007-08-29	2007-08-29	2007-09-11	2007-08-29	2007-08-29
A02- 2	SiO ₂	39.13 %	38.74 %	38.90 %	38.96 %	38.84 %	38.52 %
A02- 2	Al ₂ O ₃	1.451 %	1.758 %	1.214 %	1.340 %	1.259 %	1.391 %
A02- 2	MgO	36.60 %	35.97 %	36.48 %	36.98 %	36.71 %	36.61 %
A02- 2	CaO	0.418 %	0.456 %	0.460 %	0.364 %	0.375 %	0.350 %
A02- 2	K ₂ O	0.167 %	0.251 %	0.141 %	0.168 %	0.160 %	0.134 %
A02- 2	TiO ₂	0.022 %	0.034 %	0.025 %	0.020 %	0.025 %	0.022 %
A02- 2	MnO	0.080 %	0.083 %	0.086 %	0.073 %	0.080 %	0.075 %
A02- 2	P ₂ O ₅	0.021 %	0.028 %	0.011 %	0.030 %	0.016 %	0.010 %
A02- 2	Co	0.010 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	0.011 %
A02- 2	Cr	0.267 %	0.277 %	0.233 %	0.260 %	0.254 %	0.225 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %	< 0.01 %
A02- 2	Fe	4.835 %	5.502 %	5.294 %	5.107 %	5.055 %	5.287 %
A02- 2	Ni	0.215 %	0.208 %	0.212 %	0.218 %	0.231 %	0.214 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.010 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27		
B29- 1	Ni	0.206 %			0.215 %		
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.285 kg	2.430 kg	2.530 kg	3.180 kg	2.975 kg	3.250 kg

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RAPPORT D'ANALYSE version 3

Votre référence: **Projet Nichromet**
Poches # 56 à 66
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-09-25**

33313 Geostat Systems International Inc.
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Numéro COREM :		18463- 25	18463- 26	18463- 27	18463- 28	18463- 29	18463- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437195	437197	437199	437201	437203	437205
A02-	2	Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02-	2	SiO ₂	38.21 %	38.70 %	33.12 %	39.17 %	39.27 %
A02-	2	Al ₂ O ₃	1.247 %	1.388 %	1.086 %	1.083 %	1.163 %
A02-	2	MgO	36.65 %	36.34 %	30.45 %	36.92 %	36.12 %
A02-	2	CaO	0.319 %	0.420 %	0.312 %	0.380 %	0.348 %
A02-	2	K ₂ O	0.145 %	0.182 %	0.118 %	0.114 %	0.143 %
A02-	2	TiO ₂	0.040 %	0.031 %	0.020 %	0.020 %	0.027 %
A02-	2	MnO	0.072 %	0.081 %	0.066 %	0.075 %	0.075 %
A02-	2	P ₂ O ₅	0.021 %	0.036 %	0.015 %	0.031 %	0.017 %
A02-	2	Co	< 0.01 %	0.011 %	< 0.01 %	0.013 %	< 0.01 %
A02-	2	Cr	0.266 %	0.255 %	0.194 %	0.234 %	0.238 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Fe	5.453 %	5.158 %	4.303 %	5.448 %	5.193 %
A02-	2	Ni	0.215 %	0.213 %	0.182 %	0.220 %	0.210 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-27		2007-08-27		
B29-	1	Ni	0.218 %		0.210 %		
P02-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1	Masse totale	2.870 kg	3.960 kg	3.740 kg	3.730 kg	3.310 kg
						3.310 kg	3.520 kg

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Poches # 56 à 66
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-09-25**

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Numéro COREM :		18463- 31	18463- 32	18463- 33	18463- 34	18463- 35	18463- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437207	437209	437211	437213	437215	437217
A02-	2	Analyse	2007-08-29	2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02-	2	SiO ₂	39.77 %	39.56 %	39.57 %	37.73 %	38.19 %
A02-	2	Al ₂ O ₃	1.943 %	1.412 %	1.697 %	0.778 %	1.384 %
A02-	2	MgO	35.16 %	36.09 %	35.82 %	38.26 %	36.86 %
A02-	2	CaO	0.573 %	0.477 %	0.477 %	0.351 %	0.456 %
A02-	2	K ₂ O	0.315 %	0.163 %	0.219 %	< 0.01 %	0.135 %
A02-	2	TiO ₂	0.041 %	0.031 %	0.028 %	< 0.01 %	0.022 %
A02-	2	MnO	0.081 %	0.072 %	0.087 %	0.101 %	0.091 %
A02-	2	P ₂ O ₅	0.026 %	0.024 %	0.045 %	0.026 %	0.029 %
A02-	2	Co	0.010 %	0.011 %	0.010 %	0.010 %	< 0.01 %
A02-	2	Cr	0.258 %	0.247 %	0.216 %	0.233 %	0.245 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Fe	5.374 %	5.584 %	4.944 %	5.601 %	5.300 %
A02-	2	Ni	0.207 %	0.222 %	0.207 %	0.230 %	0.220 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-27		2007-08-27		
B29-	1	Ni	0.196 %		0.216 %		
P02-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12-	1	Masse totale	3.960 kg	4.150 kg	3.570 kg	3.315 kg	3.780 kg

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RAPPORT D'ANALYSE version 3

33313 Geostat Systems International Inc.

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Votre référence ...: **Projet Nichromet**

Poches # 56 à 66

Date de réception : **2007-07-31**

Certificat émis le ..: **2007-09-25**

Numéro COREM :		18463- 37	18463- 38	18463- 39	18463- 40
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437219	437221	437223	437225
A02- 2 Analyse		2007-08-29	2007-08-29	2007-08-29	2007-08-29
A02- 2	SiO ₂	37.74 %	38.09 %	38.31 %	38.96 %
A02- 2	Al ₂ O ₃	0.873 %	1.171 %	1.046 %	1.379 %
A02- 2	MgO	37.90 %	37.47 %	37.48 %	37.02 %
A02- 2	CaO	0.493 %	0.639 %	0.557 %	0.741 %
A02- 2	K ₂ O	0.031 %	0.040 %	0.040 %	0.072 %
A02- 2	TiO ₂	< 0.01 %	0.028 %	0.017 %	0.020 %
A02- 2	MnO	0.097 %	0.097 %	0.103 %	0.103 %
A02- 2	P ₂ O ₅	0.021 %	0.019 %	< 0.01 %	0.016 %
A02- 2	Co	< 0.01 %	< 0.01 %	0.011 %	0.013 %
A02- 2	Cr	0.260 %	0.241 %	0.249 %	0.236 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.377 %	5.087 %	5.657 %	5.588 %
A02- 2	Ni	0.264 %	0.218 %	0.223 %	0.226 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27
B29- 1	Ni	0.209 %			0.214 %
P02- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-23	2007-08-23	2007-08-23	2007-08-23
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-28	2007-08-28	2007-08-28	2007-08-28
P12- 1	Masse totale	3.965 kg	4.730 kg	3.800 kg	2.955 kg

18463- 1 B29- 1/Ni : Le dosage B29 (Ni) mise en solution HCl (selon la méthode fo

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RAPPORT D'ANALYSE version 3

33313 Geostat Systems International Inc.

Claude Duplessis

(urnie du client)

18463- 22 A02- 2/SiO2 : 18463-22: Les teneurs pour le dosage A02 ont été modifiées
18463- 34 A02- 2/SiO2 : La teneur du nickel a été modifiée, ce certificat annule et
remplace celui émis précédemment

Votre référence ...: **Projet Nichromet**
Poches # 56 à 66
Date de réception : **2007-07-31**
Certificat émis le : **2007-09-25**

Responsable :

Bernard Montminy, chimiste, M.Sc.

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Geostat Systems International Inc.

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RAPPORT D'ANALYSE version 2

Votre référence ...: **Projet Nichromet**

Poches # 31 à 41

Date de réception : **2007-07-31**

Certificat émis le : **2007-09-06**

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :		18461- 1	18461- 2	18461- 3	18461- 4	18461- 5	18461- 6
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		53889	53891	53893	53895	53897	53899
A02- 2 Analyse		2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24
A02- 2 SiO2		39.23 %	38.32 %	37.69 %	38.42 %	38.59 %	38.61 %
A02- 2 Al2O3		1.374 %	1.205 %	1.266 %	1.516 %	1.401 %	1.181 %
A02- 2 MgO		36.82 %	37.58 %	36.59 %	37.25 %	36.88 %	37.27 %
A02- 2 CaO		0.598 %	0.434 %	0.480 %	0.626 %	0.630 %	0.471 %
A02- 2 K2O		0.060 %	0.042 %	0.042 %	0.059 %	0.050 %	< 0.01 %
A02- 2 TiO2		0.020 %	0.012 %	0.018 %	0.019 %	0.015 %	0.018 %
A02- 2 MnO		0.102 %	0.105 %	0.102 %	0.102 %	0.099 %	0.103 %
A02- 2 P2O5		0.012 %	0.030 %	0.022 %	0.030 %	0.013 %	0.022 %
A02- 2 Co		0.010 %	0.011 %	0.010 %	0.011 %	0.011 %	0.011 %
A02- 2 Cr		0.256 %	0.224 %	0.259 %	0.253 %	0.247 %	0.236 %
A02- 2 Cu		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe		5.773 %	5.366 %	5.875 %	5.422 %	5.490 %	5.509 %
A02- 2 Ni		0.231 %	0.225 %	0.224 %	0.221 %	0.222 %	0.220 %
A02- 2 Pb		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27			2007-08-27		
B29- 1 Ni		0.212 %			0.213 %		
P02- 1 Préparation		2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation		2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1 Masse totale		2.241 kg	3.160 kg	2.498 kg	4.463 kg	4.776 kg	4.152 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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RAPPORT D'ANALYSE version 2

Votre référence ...: **Projet Nichromet**

Poches # 31 à 41

Date de réception : **2007-07-31**

Certificat émis le : **2007-09-06**

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :		18461- 7	18461- 8	18461- 9	18461- 10	18461- 11	18461- 12
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437001	437003	437005	437007	437009	437011
A02- 2	Analyse	2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24
A02- 2	SiO2	38.73 %	38.71 %	38.61 %	38.69 %	38.63 %	39.03 %
A02- 2	Al2O3	1.274 %	1.246 %	1.266 %	1.323 %	1.197 %	1.428 %
A02- 2	MgO	37.43 %	37.18 %	37.58 %	37.36 %	38.51 %	37.11 %
A02- 2	CaO	0.510 %	0.556 %	0.533 %	0.602 %	0.425 %	0.788 %
A02- 2	K2O	0.017 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.016 %
A02- 2	TiO2	0.015 %	0.018 %	0.015 %	0.014 %	0.016 %	0.020 %
A02- 2	MnO	0.105 %	0.103 %	0.100 %	0.104 %	0.093 %	0.105 %
A02- 2	P2O5	0.012 %	0.034 %	< 0.01 %	0.027 %	0.010 %	0.033 %
A02- 2	Co	0.011 %	0.011 %	< 0.01 %	< 0.01 %	0.012 %	0.012 %
A02- 2	Cr	0.251 %	0.256 %	0.254 %	0.240 %	0.231 %	0.250 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.762 %	5.736 %	5.748 %	5.681 %	5.339 %	5.447 %
A02- 2	Ni	0.227 %	0.289 %	0.226 %	0.217 %	0.230 %	0.212 %
A02- 2	Pb	< 0.01 %	0.036 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27		
B29- 1	Ni	0.195 %			0.199 %		
P02- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1	Masse totale	4.410 kg	3.877 kg	5.178 kg	3.107 kg	4.475 kg	4.270 kg

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Numéro COREM :		18461- 13	18461- 14	18461- 15	18461- 16	18461- 17	18461- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437013	437015	437017	437019	437021	437023
A02- 2 Analyse		2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24
A02- 2	SiO2	39.23 %	39.42 %	38.53 %	37.95 %	38.65 %	39.03 %
A02- 2	Al2O3	1.514 %	1.392 %	1.337 %	1.276 %	1.135 %	1.427 %
A02- 2	MgO	37.32 %	36.99 %	36.72 %	37.27 %	37.38 %	36.94 %
A02- 2	CaO	0.749 %	0.810 %	0.563 %	0.496 %	0.491 %	0.567 %
A02- 2	K2O	0.017 %	0.015 %	0.025 %	< 0.01 %	< 0.01 %	0.050 %
A02- 2	TiO2	0.027 %	0.028 %	0.023 %	0.023 %	0.016 %	0.025 %
A02- 2	MnO	0.108 %	0.106 %	0.098 %	0.099 %	0.102 %	0.106 %
A02- 2	P2O5	0.010 %	0.020 %	< 0.01 %	0.020 %	0.013 %	0.011 %
A02- 2	Co	0.014 %	0.011 %	< 0.01 %	0.013 %	0.011 %	< 0.01 %
A02- 2	Cr	0.254 %	0.256 %	0.241 %	0.268 %	0.252 %	0.329 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	6.025 %	5.780 %	5.489 %	5.784 %	5.641 %	5.419 %
A02- 2	Ni	0.225 %	0.219 %	0.214 %	0.233 %	0.229 %	0.801 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.016 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27			2007-08-27		
B29- 1	Ni	0.193 %			0.188 %		
P02- 1	Préparation	2007-08-14	2007-08-14	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-14	2007-08-14	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-15	2007-08-15	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12- 1	Masse totale	1.510 kg	4.970 kg	3.965 kg	2.670 kg	3.075 kg	3.518 kg

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Numéro COREM :	18461- 19	18461- 20	18461- 21	18461- 22	18461- 23	18461- 24
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437025	437027	437029	437031	437033	437035
A02- 2 Analyse	2007-08-24	2007-08-24	2007-09-05	2007-08-27	2007-08-27	2007-08-27
A02- 2 SiO2	38.07 %	38.04 %	38.55 %	38.22 %	38.40 %	38.24 %
A02- 2 Al2O3	1.090 %	1.232 %	1.068 %	1.108 %	1.409 %	1.258 %
A02- 2 MgO	37.32 %	37.03 %	37.18 %	37.73 %	37.45 %	37.17 %
A02- 2 CaO	0.421 %	0.370 %	0.308 %	0.315 %	0.366 %	0.380 %
A02- 2 K2O	0.010 %	0.010 %	0.012 %	< 0.01 %	0.011 %	0.033 %
A02- 2 TiO2	< 0.01 %	0.013 %	< 0.01 %	< 0.01 %	0.012 %	0.019 %
A02- 2 MnO	0.101 %	0.099 %	0.102 %	0.103 %	0.104 %	0.102 %
A02- 2 P2O5	0.024 %	< 0.01 %	0.025 %	< 0.01 %	0.024 %	0.018 %
A02- 2 Co	0.011 %	0.012 %	< 0.01 %	0.013 %	0.010 %	0.012 %
A02- 2 Cr	0.248 %	0.255 %	0.265 %	0.242 %	0.231 %	0.231 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.016 %	< 0.01 %
A02- 2 Fe	5.585 %	5.473 %	5.512 %	5.570 %	5.591 %	5.316 %
A02- 2 Ni	0.223 %	0.229 %	0.235 %	0.222 %	0.219 %	0.221 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27		2007-08-28	2007-08-27		
B29- 1 Ni	0.185 %		0.200 %	0.186 %		
P02- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12- 1 Masse totale	2.905 kg	3.670 kg	5.370 kg	5.180 kg	2.980 kg	4.670 kg

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Numéro COREM :		18461- 25	18461- 26	18461- 27	18461- 28	18461- 29	18461- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437037	437039	437041	437043	437045	437047
A02- 2 Analyse		2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
A02- 2	SiO2	37.99 %	38.00 %	38.57 %	38.53 %	39.14 %	38.73 %
A02- 2	Al2O3	1.440 %	1.264 %	1.204 %	1.690 %	1.872 %	1.260 %
A02- 2	MgO	36.96 %	37.16 %	37.21 %	36.96 %	36.59 %	37.39 %
A02- 2	CaO	0.448 %	0.371 %	0.379 %	0.551 %	0.918 %	0.600 %
A02- 2	K2O	0.033 %	< 0.01 %	< 0.01 %	0.029 %	0.160 %	0.053 %
A02- 2	TiO2	0.021 %	0.018 %	0.019 %	0.018 %	0.047 %	0.028 %
A02- 2	MnO	0.102 %	0.096 %	0.100 %	0.095 %	0.099 %	0.108 %
A02- 2	P2O5	0.023 %	0.016 %	< 0.01 %	0.033 %	0.032 %	< 0.01 %
A02- 2	Co	< 0.01 %	0.010 %	0.012 %	0.010 %	0.012 %	0.010 %
A02- 2	Cr	0.243 %	0.246 %	0.241 %	0.238 %	0.245 %	0.238 %
A02- 2	Cu	0.014 %	< 0.01 %	0.044 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.384 %	5.621 %	5.480 %	5.590 %	5.156 %	5.313 %
A02- 2	Ni	0.224 %	0.212 %	0.215 %	0.213 %	0.215 %	0.215 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.011 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27			2007-08-27		
B29- 1	Ni	0.177 %			0.184 %		
P02- 1	Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12- 1	Masse totale	4.715 kg	2.625 kg	2.985 kg	2.315 kg	3.000 kg	3.760 kg

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Numéro COREM :		18461- 31	18461- 32	18461- 33	18461- 34	18461- 35	18461- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437049	437051	437053	437055	437057	437059
A02- 2 Analyse		2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
A02- 2	SiO2	39.11 %	38.78 %	39.38 %	38.64 %	38.35 %	38.98 %
A02- 2	Al2O3	1.804 %	1.164 %	1.515 %	1.430 %	1.224 %	1.509 %
A02- 2	MgO	37.23 %	37.88 %	37.26 %	37.37 %	37.80 %	36.61 %
A02- 2	CaO	0.905 %	0.565 %	0.653 %	0.638 %	0.639 %	0.661 %
A02- 2	K2O	0.072 %	0.034 %	0.067 %	0.027 %	0.021 %	0.021 %
A02- 2	TiO2	0.025 %	0.013 %	0.032 %	0.017 %	0.020 %	0.024 %
A02- 2	MnO	0.106 %	0.100 %	0.096 %	0.110 %	0.103 %	0.100 %
A02- 2	P2O5	0.026 %	0.014 %	< 0.01 %	< 0.01 %	0.016 %	0.011 %
A02- 2	Co	0.011 %	0.010 %	0.011 %	< 0.01 %	0.011 %	0.011 %
A02- 2	Cr	0.243 %	0.256 %	0.241 %	0.249 %	0.261 %	0.236 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.544 %	5.301 %	4.993 %	5.326 %	5.585 %	5.527 %
A02- 2	Ni	0.213 %	0.224 %	0.225 %	0.218 %	0.227 %	0.219 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-27			2007-08-27		
B29- 1	Ni	0.179 %			0.191 %		
P02- 1	Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-17	2007-08-17	2007-08-17
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-17	2007-08-17	2007-08-17
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12- 1	Masse totale	2.810 kg	3.240 kg	3.115 kg	3.695 kg	3.370 kg	4.035 kg

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Numéro COREM :	18461- 37	18461- 38	18461- 39	18461- 40
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437061	437063	437065	437067
A02- 2 Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27
A02- 2 SiO2	38.18 %	38.45 %	37.62 %	39.57 %
A02- 2 Al2O3	1.753 %	1.431 %	0.928 %	1.121 %
A02- 2 MgO	37.10 %	37.35 %	37.99 %	38.12 %
A02- 2 CaO	0.743 %	0.618 %	0.406 %	0.709 %
A02- 2 K2O	0.045 %	0.038 %	< 0.01 %	< 0.01 %
A02- 2 TiO2	0.026 %	0.025 %	0.013 %	0.018 %
A02- 2 MnO	0.101 %	0.101 %	0.105 %	0.101 %
A02- 2 P2O5	0.022 %	0.010 %	< 0.01 %	< 0.01 %
A02- 2 Co	< 0.01 %	< 0.01 %	0.010 %	0.012 %
A02- 2 Cr	0.243 %	0.251 %	0.259 %	0.268 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.375 %	5.464 %	5.656 %	5.423 %
A02- 2 Ni	0.220 %	0.217 %	0.228 %	0.235 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27
B29- 1 Ni	0.207 %			0.211 %
P02- 1 Préparation	2007-08-17	2007-08-17	2007-08-17	2007-08-17
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-17	2007-08-17	2007-08-17	2007-08-17
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12- 1 Masse totale	3.305 kg	4.410 kg	3.575 kg	4.790 kg

18461- 1 B29- 1/Ni : Le dosage B29 (Ni) mise en solution HCl (selon la méthode

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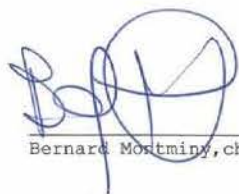
fournie par le client)

18461- 21

A02- 2/SiO2

: La teneur du nickel a été modifiée , ce certificat annule et
remplace celui émis précédemment

Responsable :



Bernard Mostmin, chimiste, M.Sc.

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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Geostat Systems International Inc.

Claude Duplessis

10, boulevard de la Seigneurie Est, suite 203
Blainville, QC
J7C 3V5

Téléphone : 4504334050 Télécopieur : 4504331048 Courriel :

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33313 Geostat Systems International Inc.

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Numéro COREM :	18460- 1	18460- 2	18460- 3	18460- 4	18460- 5	18460- 6
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	53809	53811	53813	53815	53817	53819
A02- 2 Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-20
A02- 2 SiO2	39.69 %	39.86 %	39.94 %	39.51 %	39.10 %	39.24 %
A02- 2 Al2O3	1.555 %	1.530 %	1.362 %	1.434 %	1.325 %	1.379 %
A02- 2 MgO	36.50 %	37.38 %	37.18 %	36.41 %	36.37 %	36.79 %
A02- 2 CaO	0.366 %	0.308 %	0.353 %	0.333 %	0.384 %	0.379 %
A02- 2 K2O	0.226 %	0.239 %	0.300 %	0.214 %	0.202 %	0.187 %
A02- 2 TiO2	0.030 %	0.019 %	0.014 %	0.020 %	0.015 %	0.017 %
A02- 2 MnO	0.091 %	0.090 %	0.092 %	0.086 %	0.093 %	0.094 %
A02- 2 P2O5	0.013 %	0.032 %	0.021 %	0.029 %	0.015 %	0.019 %
A02- 2 Co	0.010 %	0.010 %	0.011 %	0.011 %	0.010 %	< 0.01 %
A02- 2 Cr	0.332 %	0.256 %	0.234 %	0.278 %	0.236 %	0.302 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.313 %	4.598 %	4.840 %	4.900 %	5.146 %	4.906 %
A02- 2 Ni	0.225 %	0.234 %	0.237 %	0.240 %	0.222 %	0.234 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
B29- 1 Ni	0.216 %	0.230 %	0.233 %	0.225 %	0.221 %	0.236 %
P02- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P12- 1 Masse totale	3.553 kg	6.047 kg	4.206 kg	4.330 kg	4.350 kg	2.572 kg

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33313 Geostat Systems International Inc.
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Numéro COREM :	18460- 7	18460- 8	18460- 9	18460- 10	18460- 11	18460- 12
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	53821	53823	53825	53827	53829	53831
A02- 2 Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
A02- 2 SiO2	39.23 %	39.35 %	39.92 %	38.68 %	38.94 %	38.79 %
A02- 2 Al2O3	1.340 %	1.578 %	1.452 %	1.305 %	1.595 %	1.346 %
A02- 2 MgO	36.45 %	35.62 %	35.66 %	36.46 %	35.79 %	35.19 %
A02- 2 CaO	0.309 %	0.531 %	0.398 %	0.388 %	0.412 %	0.428 %
A02- 2 K2O	0.193 %	0.222 %	0.223 %	0.199 %	0.204 %	0.208 %
A02- 2 TiO2	0.021 %	0.029 %	0.037 %	0.025 %	0.025 %	0.020 %
A02- 2 MnO	0.078 %	0.090 %	0.076 %	0.087 %	0.091 %	0.097 %
A02- 2 P2O5	0.021 %	0.015 %	0.017 %	< 0.01 %	0.024 %	0.018 %
A02- 2 Co	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.281 %	0.243 %	0.272 %	0.246 %	0.278 %	0.211 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	4.999 %	4.930 %	4.976 %	5.439 %	5.458 %	6.473 %
A02- 2 Ni	0.216 %	0.217 %	0.223 %	0.208 %	0.209 %	0.206 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
B29- 1 Ni	0.214 %	0.213 %	0.211 %	0.200 %	0.200 %	0.204 %
P02- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-14	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P12- 1 Masse totale	3.773 kg	3,094 kg	3,812 kg	2,732 kg	2,307 kg	2,845 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :	18460- 13	18460- 14	18460- 15	18460- 16	18460- 17	18460- 18
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	53833	53835	53837	53839	53841	53843
A02- 2 Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
A02- 2 SiO2	38.95 %	38.98 %	39.83 %	38.89 %	38.82 %	39.32 %
A02- 2 Al2O3	1.493 %	1.297 %	1.572 %	1.298 %	1.478 %	1.518 %
A02- 2 MgO	35.37 %	36.55 %	35.55 %	35.21 %	35.45 %	36.16 %
A02- 2 CaO	0.302 %	0.340 %	0.452 %	0.589 %	0.431 %	0.453 %
A02- 2 K2O	0.261 %	0.163 %	0.263 %	0.166 %	0.233 %	0.226 %
A02- 2 TiO2	0.015 %	0.019 %	0.025 %	0.017 %	0.024 %	0.013 %
A02- 2 MnO	0.086 %	0.087 %	0.089 %	0.096 %	0.098 %	0.097 %
A02- 2 P2O5	0.028 %	0.021 %	0.018 %	0.022 %	0.020 %	0.012 %
A02- 2 Co	0.013 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.240 %	0.236 %	0.240 %	0.245 %	0.256 %	0.248 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.026 %	5.164 %	4.776 %	6.364 %	5.773 %	5.454 %
A02- 2 Ni	0.215 %	0.219 %	0.220 %	0.216 %	0.219 %	0.219 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
B29- 1 Ni	0.238 %	0.221 %	0.221 %	0.214 %	0.222 %	0.222 %
P02- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P12- 1 Masse totale	2,395 kg	2,268 kg	2,980 kg	3,250 kg	2,192 kg	3,286 kg

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33313 Geostat Systems International Inc.
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Numéro COREM :		18460- 19	18460- 20	18460- 21	18460- 22	18460- 23	18460- 24
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		53845	53847	53849	53851	53853	53855
A02-	2	Analyse	2007-08-15	2007-08-15	2007-08-16	2007-08-16	2007-08-16
A02-	2	SiO2	40.29 %	39.86 %	39.92 %	38.49 %	40.29 %
A02-	2	Al2O3	1.753 %	1.370 %	1.430 %	1.445 %	1.806 %
A02-	2	MgO	35.66 %	35.62 %	35.72 %	36.42 %	35.96 %
A02-	2	CaO	0.554 %	0.423 %	0.460 %	0.299 %	0.424 %
A02-	2	K2O	0.205 %	0.174 %	0.179 %	0.194 %	0.250 %
A02-	2	TiO2	0.043 %	0.021 %	0.015 %	0.030 %	0.021 %
A02-	2	MnO	0.095 %	0.096 %	0.091 %	0.078 %	0.092 %
A02-	2	P2O5	0.043 %	0.027 %	0.025 %	0.023 %	0.013 %
A02-	2	Co	< 0.01 %	< 0.01 %	< 0.01 %	0.012 %	< 0.01 %
A02-	2	Cr	0.258 %	0.250 %	0.257 %	0.268 %	0.245 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Fe	5.012 %	5.820 %	5.134 %	5.107 %	4.961 %
A02-	2	Ni	0.218 %	0.220 %	0.223 %	0.222 %	0.218 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
B29-	1	Ni	0.218 %	0.212 %	0.220 %	0.217 %	0.216 %
P02-	1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P12-	1	Masse totale	3,815 kg	3,965 kg	3,240 kg	3,585 kg	2,895 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :		18460- 25	18460- 26	18460- 27	18460- 28	18460- 29	18460- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		53857	53859	53861	53863	53865	53867
A02- 2 Analyse		2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
A02- 2 SiO2		40.28 %	40.04 %	39.90 %	39.06 %	39.72 %	39.40 %
A02- 2 Al2O3		1.863 %	1.799 %	1.893 %	1.608 %	1.643 %	1.513 %
A02- 2 MgO		35.37 %	35.26 %	35.35 %	36.10 %	36.26 %	36.47 %
A02- 2 CaO		0.484 %	0.463 %	0.478 %	0.472 %	0.475 %	0.373 %
A02- 2 K2O		0.309 %	0.302 %	0.298 %	0.254 %	0.256 %	0.254 %
A02- 2 TiO2		0.036 %	0.029 %	0.025 %	0.018 %	0.023 %	0.020 %
A02- 2 MnO		0.090 %	0.086 %	0.077 %	0.086 %	0.078 %	0.076 %
A02- 2 P2O5		0.019 %	0.012 %	0.023 %	< 0.01 %	0.014 %	0.013 %
A02- 2 Co		0.010 %	< 0.01 %	0.011 %	0.010 %	0.011 %	< 0.01 %
A02- 2 Cr		0.268 %	0.263 %	0.234 %	0.293 %	0.302 %	0.260 %
A02- 2 Cu		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe		5.150 %	5.112 %	4.983 %	5.156 %	5.082 %	4.942 %
A02- 2 Ni		0.210 %	0.223 %	0.202 %	0.216 %	0.218 %	0.217 %
A02- 2 Pb		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
B29- 1 Ni		0.212 %	0.183 %	0.209 %	0.212 %	0.215 %	0.213 %
P02- 1 Préparation		2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation		2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P12- 1 Masse totale		2,650 kg	4,037 kg	3,875 kg	3,920 kg	4,065 kg	3,260 kg

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RAPPORT D'ANALYSE version 3

Votre référence: **Projet Nichromet**

Poches # 20 à 30

Date de réception : **2007-07-31**

Certificat émis le .: **2007-09-05**

33313 Geostat Systems International Inc.

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Numéro COREM :		18460- 31	18460- 32	18460- 33	18460- 34	18460- 35	18460- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		53869	53871	53873	53875	53877	53879
A02- 2	Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
A02- 2	SiO2	39.37 %	38.51 %	38.57 %	38.70 %	38.48 %	38.67 %
A02- 2	Al2O3	1.641 %	1.627 %	1.109 %	1.529 %	1.434 %	1.462 %
A02- 2	MgO	36.30 %	35.62 %	37.79 %	37.18 %	37.06 %	37.16 %
A02- 2	CaO	0.339 %	0.411 %	0.413 %	0.686 %	0.766 %	0.781 %
A02- 2	K2O	0.272 %	0.364 %	0.017 %	0.055 %	0.046 %	0.060 %
A02- 2	TiO2	0.018 %	0.032 %	< 0.01 %	0.022 %	0.016 %	0.024 %
A02- 2	MnO	0.071 %	0.077 %	0.100 %	0.101 %	0.099 %	0.103 %
A02- 2	P2O5	0.019 %	0.020 %	< 0.01 %	0.015 %	0.018 %	0.018 %
A02- 2	Co	0.010 %	0.011 %	0.011 %	0.010 %	0.011 %	0.010 %
A02- 2	Cr	0.280 %	0.259 %	0.238 %	0.251 %	0.238 %	0.238 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.021 %	5.294 %	5.190 %	5.430 %	5.438 %	5.518 %
A02- 2	Ni	0.215 %	0.207 %	0.218 %	0.217 %	0.220 %	0.226 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
B29- 1	Ni	0.215 %	0.211 %	0.225 %	0.220 %	0.217 %	0.224 %
P02- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P12- 1	Masse totale	3,662 kg	2,930 kg	3,805 kg	3,665 kg	3,768 kg	4,020 kg

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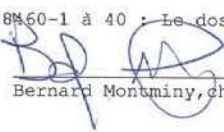
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Numéro COREM :	18460- 37	18460- 38	18460- 39	18460- 40
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	53881	53883	53885	53887
A02- 2 Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16
A02- 2 SiO2	38.57 %	38.69 %	38.18 %	38.54 %
A02- 2 Al2O3	1.406 %	1.081 %	1.273 %	1.538 %
A02- 2 MgO	37.67 %	37.87 %	37.93 %	36.70 %
A02- 2 CaO	0.532 %	0.453 %	0.522 %	0.540 %
A02- 2 K2O	0.017 %	0.015 %	0.064 %	0.061 %
A02- 2 TiO2	0.010 %	< 0.01 %	0.016 %	0.023 %
A02- 2 MnO	0.104 %	0.101 %	0.098 %	0.102 %
A02- 2 P2O5	0.014 %	0.019 %	< 0.01 %	0.031 %
A02- 2 Co	0.010 %	< 0.01 %	0.011 %	0.010 %
A02- 2 Cr	0.275 %	0.284 %	0.250 %	0.244 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.410 %	5.377 %	5.705 %	5.354 %
A02- 2 Ni	0.217 %	0.228 %	0.233 %	0.214 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16
B29- 1 Ni	0.223 %	0.217 %	0.231 %	0.217 %
P02- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P12- 1 Masse totale	3,690 kg	3,800 kg	4,621 kg	4,410 kg

18460- 1 B29- 1/Ni : 18460-1 à 40 : Le dosage B29 (Ni), mise en solution HCl/HNO3

Responsable :


Bernard Montminy, chimiste, M.Sc.

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Geostat Systems International Inc.

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Numéro COREM :	18459- 1	18459- 2	18459- 3	18459- 4	18459- 5	18459- 6
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	348229	348231	348233	348235	348237	348239
A02- 2 Analyse	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-24	2007-08-23
A02- 2 SiO2	39.55 %	38.22 %	39.60 %	38.40 %	38.42 %	39.14 %
A02- 2 Al2O3	1.717 %	1.052 %	1.396 %	1.393 %	1.323 %	1.621 %
A02- 2 MgO	35.39 %	37.05 %	36.90 %	36.85 %	36.31 %	36.03 %
A02- 2 CaO	0.462 %	0.385 %	0.398 %	0.361 %	0.384 %	0.414 %
A02- 2 K2O	0.256 %	0.077 %	0.124 %	0.117 %	0.165 %	0.242 %
A02- 2 TiO2	0.025 %	< 0.01 %	0.021 %	0.020 %	0.026 %	0.023 %
A02- 2 MnO	0.086 %	0.088 %	0.093 %	0.087 %	0.086 %	0.085 %
A02- 2 P2O5	0.031 %	0.029 %	0.010 %	0.018 %	0.024 %	0.010 %
A02- 2 Co	0.010 %	0.012 %	0.012 %	0.010 %	0.011 %	< 0.01 %
A02- 2 Cr	0.238 %	0.257 %	0.239 %	0.271 %	0.245 %	0.245 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.128 %	5.370 %	5.269 %	5.293 %	5.378 %	5.081 %
A02- 2 Ni	0.213 %	0.224 %	0.230 %	0.225 %	0.224 %	0.207 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.188 %			0.197 %		
P02- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12- 1 Masse totale	3.985 kg	4.950 kg	4.349 kg	4.270 kg	3.928 kg	5.216 kg

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Numéro COREM :	18459- 7	18459- 8	18459- 9	18459- 10	18459- 11	18459- 12
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	348241	348243	348245	348247	348249	53751
A02- 2 Analyse	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
A02- 2 SiO2	39.68 %	38.63 %	39.47 %	40.03 %	38.12 %	38.70 %
A02- 2 Al2O3	1.511 %	1.605 %	1.753 %	1.650 %	1.298 %	1.379 %
A02- 2 MgO	36.44 %	35.43 %	36.05 %	35.93 %	36.15 %	36.14 %
A02- 2 CaO	0.423 %	0.471 %	0.439 %	0.463 %	0.414 %	0.370 %
A02- 2 K2O	0.191 %	0.214 %	0.241 %	0.222 %	0.108 %	0.146 %
A02- 2 TiO2	0.020 %	0.034 %	0.028 %	0.024 %	0.020 %	0.108 %
A02- 2 MnO	0.078 %	0.084 %	0.089 %	0.075 %	0.085 %	0.084 %
A02- 2 P2O5	0.033 %	0.024 %	< 0.01 %	0.034 %	0.031 %	0.015 %
A02- 2 Co	< 0.01 %	0.010 %	0.011 %	0.010 %	0.010 %	0.011 %
A02- 2 Cr	0.263 %	0.257 %	0.248 %	0.245 %	0.239 %	0.237 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.302 %	5.288 %	5.246 %	5.389 %	5.733 %	5.598 %
A02- 2 Ni	0.215 %	0.202 %	0.208 %	0.281 %	0.204 %	0.222 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27		
B29- 1 Ni	0.192 %			0.187 %		
P02- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12- 1 Masse totale	5.020 kg	3.138 kg	2.365 kg	3.156 kg	2.530 kg	2.435 kg

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Numéro COREM :		18459- 13	18459- 14	18459- 15	18459- 16	18459- 17	18459- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		53753	53755	53757	53759	53761	53763
A02-	2	Analyse	2007-08-23	2007-08-23	2007-08-23	2007-08-23	2007-08-23
A02-	2	SiO2	38.22 %	39.79 %	38.49 %	38.35 %	41.48 %
A02-	2	Al2O3	1.503 %	1.732 %	1.654 %	1.719 %	1.575 %
A02-	2	MgO	36.30 %	36.25 %	36.62 %	35.53 %	36.05 %
A02-	2	CaO	0.426 %	0.492 %	0.325 %	0.554 %	0.384 %
A02-	2	K2O	0.188 %	0.206 %	0.211 %	0.268 %	0.248 %
A02-	2	TiO2	0.023 %	0.017 %	0.018 %	0.024 %	0.035 %
A02-	2	MnO	0.085 %	0.103 %	0.076 %	0.071 %	0.074 %
A02-	2	P2O5	0.016 %	0.025 %	0.025 %	0.029 %	0.016 %
A02-	2	Co	0.010 %	< 0.01 %	0.013 %	< 0.01 %	< 0.01 %
A02-	2	Cr	0.234 %	0.227 %	0.238 %	0.221 %	0.244 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Fe	4.840 %	5.183 %	5.189 %	4.740 %	4.881 %
A02-	2	Ni	0.275 %	0.218 %	0.219 %	0.205 %	0.212 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-27		2007-08-27		
B29-	1	Ni	0.190 %		0.184 %		
P02-	1	Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-16	2007-08-16
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-27	2007-08-27
P12-	1	Masse totale	2.813 kg	3.083 kg	2.752 kg	2.530 kg	2.937 kg

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Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	53765	53767	53769	53771	53773	53775
A02- 2 Analyse	2007-08-23	2007-08-23	2007-08-28	2007-08-24	2007-08-24	2007-08-24
A02- 2 SiO2	37.80 %	38.72 %	39.08 %	38.52 %	39.36 %	38.99 %
A02- 2 Al2O3	1.575 %	1.334 %	1.596 %	1.423 %	1.368 %	1.619 %
A02- 2 MgO	35.56 %	37.01 %	35.99 %	37.08 %	36.57 %	36.26 %
A02- 2 CaO	0.385 %	0.336 %	0.460 %	0.347 %	0.388 %	0.486 %
A02- 2 K2O	0.206 %	0.149 %	0.257 %	0.150 %	0.158 %	0.249 %
A02- 2 TiO2	0.023 %	0.012 %	0.033 %	0.016 %	0.023 %	0.021 %
A02- 2 MnO	0.088 %	0.077 %	0.082 %	0.090 %	0.085 %	0.080 %
A02- 2 P2O5	< 0.01 %	0.030 %	0.032 %	< 0.01 %	0.021 %	0.020 %
A02- 2 Co	< 0.01 %	0.011 %	0.011 %	< 0.01 %	0.010 %	0.010 %
A02- 2 Cr	0.209 %	0.239 %	0.269 %	0.254 %	0.235 %	0.233 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.234 %	4.579 %	5.054 %	5.218 %	5.363 %	5.189 %
A02- 2 Ni	0.201 %	0.215 %	0.216 %	0.218 %	0.217 %	0.213 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27		2007-08-28	2007-08-27		
B29- 1 Ni	0.182 %		0.194 %	0.194 %		
P02- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-16	2007-08-16	2007-08-16	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-27	2007-08-27	2007-08-27	2007-08-15	2007-08-15	2007-08-15
P12- 1 Masse totale	3.691 kg	3.088 kg	3.950 kg	5.721 kg	3.858 kg	3.767 kg

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Numéro COREM :		18459- 25	18459- 26	18459- 27	18459- 28	18459- 29	18459- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		53777	53779	53781	53783	53785	53787
A02- 2	Analyse	2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24	2007-08-24
A02- 2	SiO2	39.36 %	40.07 %	38.51 %	39.02 %	38.77 %	37.92 %
A02- 2	Al2O3	1.566 %	1.906 %	1.354 %	1.956 %	1.333 %	1.223 %
A02- 2	MgO	36.30 %	34.84 %	37.25 %	35.35 %	37.10 %	37.00 %
A02- 2	CaO	0.460 %	0.538 %	0.416 %	0.502 %	0.297 %	0.282 %
A02- 2	K2O	0.201 %	0.273 %	0.182 %	0.258 %	0.170 %	0.148 %
A02- 2	TiO2	0.018 %	0.043 %	0.024 %	0.038 %	0.023 %	0.022 %
A02- 2	MnO	0.084 %	0.087 %	0.071 %	0.088 %	0.078 %	0.076 %
A02- 2	P2O5	0.019 %	0.027 %	0.030 %	0.028 %	0.016 %	0.015 %
A02- 2	Co	0.010 %	0.011 %	0.010 %	< 0.01 %	0.011 %	0.010 %
A02- 2	Cr	0.277 %	0.240 %	0.239 %	0.626 %	0.245 %	0.331 %
A02- 2	Cu	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.254 %	4.894 %	4.992 %	5.434 %	4.969 %	5.394 %
A02- 2	Ni	0.211 %	0.216 %	0.219 %	0.210 %	0.281 %	0.214 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27		
B29- 1	Ni	0.186 %			0.178 %		
P02- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-16	2007-08-16
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-16	2007-08-16
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1	Masse totale	4.215 kg	4.591 kg	4.050 kg	3.908 kg	3.408 kg	3.750 kg

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Numéro COREM :		18459- 31	18459- 32	18459- 33	18459- 34	18459- 35	18459- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		53789	53791	53793	53795	53797	53799
A02- 2	Analyse	2007-08-24	2007-08-24	2007-08-24	2007-08-27	2007-08-24	2007-08-24
A02- 2	SiO2	38.58 %	38.92 %	39.33 %	39.87 %	39.55 %	34.58 %
A02- 2	Al2O3	1.564 %	1.590 %	1.611 %	1.416 %	1.150 %	1.206 %
A02- 2	MgO	35.09 %	35.81 %	35.94 %	35.67 %	36.14 %	30.38 %
A02- 2	CaO	0.446 %	0.343 %	0.342 %	0.399 %	0.337 %	0.422 %
A02- 2	K2O	0.251 %	0.172 %	0.228 %	0.180 %	0.149 %	0.138 %
A02- 2	TiO2	0.027 %	0.021 %	0.033 %	0.016 %	< 0.01 %	0.023 %
A02- 2	MnO	0.084 %	0.081 %	0.075 %	0.088 %	0.088 %	0.077 %
A02- 2	P2O5	0.017 %	0.026 %	< 0.01 %	0.031 %	< 0.01 %	0.013 %
A02- 2	Co	0.010 %	< 0.01 %	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Cr	0.241 %	0.259 %	0.302 %	0.275 %	0.222 %	0.193 %
A02- 2	Cu	< 0.01 %	< 0.01 %	0.016 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.497 %	5.454 %	5.215 %	5.414 %	5.263 %	3.957 %
A02- 2	Ni	0.201 %	0.217 %	0.213 %	0.215 %	0.221 %	0.221 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse	2007-08-27			2007-08-27		
B29- 1	Ni	0.185 %			0.198 %		
P02- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1	Masse totale	2.210 kg	3.488 kg	3.555 kg	3.227 kg	3.402 kg	2.561 kg

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33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :	18459- 37	18459- 38	18459- 39	18459- 40
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	53801	53803	53805	53807
A02- 2 Analyse	2007-08-24	2007-08-24	2007-08-24	2007-08-24
A02- 2 SiO2	40.64 %	39.68 %	40.04 %	39.46 %
A02- 2 Al2O3	1.548 %	1.213 %	1.277 %	1.516 %
A02- 2 MgO	36.05 %	37.18 %	36.11 %	35.77 %
A02- 2 CaO	0.411 %	0.297 %	0.297 %	0.398 %
A02- 2 K2O	0.260 %	0.196 %	0.184 %	0.193 %
A02- 2 TiO2	0.023 %	0.020 %	0.020 %	0.020 %
A02- 2 MnO	0.093 %	0.093 %	0.094 %	0.093 %
A02- 2 P2O5	< 0.01 %	< 0.01 %	0.013 %	0.013 %
A02- 2 Co	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %
A02- 2 Cr	0.256 %	0.272 %	0.239 %	0.263 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	4.906 %	4.514 %	4.478 %	5.411 %
A02- 2 Ni	0.217 %	0.222 %	0.225 %	0.214 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-27			2007-08-27
B29- 1 Ni	0.204 %			0.197 %
P02- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-14	2007-08-14	2007-08-14	2007-08-14
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1 Masse totale	2.730 kg	2.662 kg	3.436 kg	3.542 kg
18459- 1	B29- 1/Ni	: Le dosage B29 (Ni) mise en solution HCl (selon la méthode fo		

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RAPPORT D'ANALYSE version 1

33313 Geostat Systems International Inc.

Claude Duplessis

urnie par le client)

Votre référence ...: **Projet Nichromet**
Poches # 11à19, 52
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-08-31**

Responsable :

Bernard Montheville, Chimiste, M.Sc.

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Geostat Systems International Inc.

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Téléphone : 4504334050 Télécopieur : 4504331048 Courriel :

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33313 Geostat Systems International Inc.

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Numéro COREM :	18456- 1	18456- 2	18456- 3	18456- 4	18456- 5	18456- 6
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	348151	348153	348155	348157	348159	348161
A02- 2 Analyse	2007-08-20	2007-08-20	2007-08-20	2007-08-20	2007-08-20	2007-08-20
A02- 2 SiO2	39.31 %	38.63 %	38.91 %	39.00 %	38.49 %	38.84 %
A02- 2 Al2O3	1.595 %	1.412 %	1.541 %	1.482 %	1.281 %	1.279 %
A02- 2 MgO	36.24 %	36.30 %	36.30 %	36.44 %	36.35 %	36.39 %
A02- 2 CaO	0.488 %	0.393 %	0.421 %	0.491 %	0.319 %	0.327 %
A02- 2 K2O	0.244 %	0.207 %	0.221 %	0.195 %	0.194 %	0.163 %
A02- 2 TiO2	0.033 %	0.029 %	0.030 %	0.031 %	0.022 %	0.021 %
A02- 2 MnO	0.080 %	0.079 %	0.077 %	0.079 %	0.074 %	0.085 %
A02- 2 P2O5	0.035 %	0.035 %	0.022 %	0.026 %	0.018 %	0.020 %
A02- 2 Co	0.010 %	0.010 %	< 0.01 %	0.010 %	0.010 %	< 0.01 %
A02- 2 Cr	0.233 %	0.278 %	0.277 %	0.243 %	0.295 %	0.251 %
A02- 2 Cu	< 0.01 %	0.013 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.026 %	5.226 %	5.271 %	5.003 %	5.592 %	5.131 %
A02- 2 Ni	0.210 %	0.220 %	0.215 %	0.220 %	0.215 %	0.219 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-17	2007-08-17	2007-08-17	2007-08-17	2007-08-17	2007-08-17
B29- 1 Ni	0.216 %	0.226 %	0.227 %	0.227 %	0.228 %	0.231 %
P02- 1 Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1 Masse totale	1,530 kg	2,430 kg	3,535 kg	3,465 kg	2,010 kg	2,720 kg

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Numéro COREM :	18456- 7	18456- 8	18456- 9	18456- 10	18456- 11	18456- 12
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	348163	348165	348167	348169	348171	348173
A02- 2 Analyse	2007-08-20	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
A02- 2 SiO2	39.20 %	39.97 %	39.37 %	38.97 %	39.01 %	38.81 %
A02- 2 Al2O3	1.490 %	1.396 %	1.533 %	1.384 %	1.526 %	1.245 %
A02- 2 MgO	36.20 %	36.74 %	36.86 %	36.52 %	36.25 %	36.83 %
A02- 2 CaO	0.393 %	0.380 %	0.389 %	0.379 %	0.397 %	0.335 %
A02- 2 K2O	0.176 %	0.157 %	0.162 %	0.138 %	0.220 %	0.146 %
A02- 2 TiO2	0.019 %	< 0.01 %	0.018 %	0.025 %	0.017 %	0.026 %
A02- 2 MnO	0.088 %	0.078 %	0.079 %	0.078 %	0.086 %	0.079 %
A02- 2 P2O5	0.026 %	0.022 %	0.022 %	0.020 %	0.038 %	0.024 %
A02- 2 Co	< 0.01 %	< 0.01 %	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.289 %	0.314 %	0.241 %	0.309 %	0.329 %	0.230 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.054 %	5.475 %	4.673 %	5.114 %	5.160 %	5.313 %
A02- 2 Ni	0.215 %	0.225 %	0.220 %	0.236 %	0.217 %	0.228 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-17	2007-08-17	2007-08-17	2007-08-17	2007-08-17	2007-08-17
B29- 1 Ni	0.231 %	0.228 %	0.228 %	0.229 %	0.222 %	0.224 %
P02- 1 Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1 Masse totale	1,940 kg	1,715 kg	3,310 kg	2,995 kg	2,385 kg	2,210 kg

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Numéro COREM :	18456- 13	18456- 14	18456- 15	18456- 16	18456- 17	18456- 18
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	348175	348177	348179	348181	348183	348185
A02- 2 Analyse	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
A02- 2 SiO2	39.69 %	38.35 %	39.14 %	39.38 %	39.42 %	39.97 %
A02- 2 Al2O3	1.608 %	1.398 %	1.106 %	1.765 %	1.760 %	1.951 %
A02- 2 MgO	36.02 %	36.44 %	37.04 %	36.03 %	36.29 %	35.25 %
A02- 2 CaO	0.637 %	0.370 %	0.356 %	0.505 %	0.457 %	0.567 %
A02- 2 K2O	0.150 %	0.141 %	0.140 %	0.250 %	0.269 %	0.357 %
A02- 2 TiO2	0.027 %	0.025 %	0.021 %	0.043 %	0.035 %	0.041 %
A02- 2 MnO	0.091 %	0.081 %	0.079 %	0.079 %	0.080 %	0.088 %
A02- 2 P2O5	0.036 %	< 0.01 %	0.020 %	0.040 %	0.023 %	0.030 %
A02- 2 Co	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %	0.011 %	< 0.01 %
A02- 2 Cr	0.295 %	0.424 %	0.281 %	0.247 %	0.220 %	0.294 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	4.835 %	5.400 %	5.082 %	4.846 %	4.914 %	5.182 %
A02- 2 Ni	0.220 %	0.231 %	0.219 %	0.215 %	0.209 %	0.211 %
A02- 2 Pb	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-17	2007-08-17	2007-08-17	2007-08-17	2007-08-17	2007-08-17
B29- 1 Ni	0.224 %	0.234 %	0.227 %	0.229 %	0.223 %	0.233 %
P02- 1 Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1 Masse totale	3,555 kg	2,990 kg	2,880 kg	3,867 kg	3,785 kg	2,670 kg

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Numéro COREM :		18456- 19	18456- 20	18456- 21	18456- 22	18456- 23	18456- 24
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		348187	348189	348191	348193	348195	348197
A02- 2 Analyse		2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
A02- 2	SiO2	39.67 %	40.36 %	40.18 %	39.87 %	39.53 %	39.49 %
A02- 2	Al2O3	1.599 %	1.892 %	1.945 %	1.677 %	1.443 %	1.600 %
A02- 2	MgO	35.88 %	35.78 %	35.49 %	35.74 %	36.51 %	35.67 %
A02- 2	CaO	0.360 %	0.521 %	0.538 %	0.483 %	0.354 %	0.445 %
A02- 2	K2O	0.224 %	0.293 %	0.291 %	0.245 %	0.154 %	0.216 %
A02- 2	TiO2	0.032 %	0.038 %	0.036 %	0.038 %	0.028 %	0.024 %
A02- 2	MnO	0.078 %	0.083 %	0.085 %	0.079 %	0.077 %	0.083 %
A02- 2	P2O5	0.029 %	0.011 %	0.032 %	0.032 %	0.011 %	0.011 %
A02- 2	Co	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %
A02- 2	Cr	0.263 %	0.226 %	0.222 %	0.241 %	0.234 %	0.325 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %
A02- 2	Fe	5.006 %	5.195 %	5.183 %	5.024 %	4.903 %	5.302 %
A02- 2	Ni	0.209 %	0.211 %	0.207 %	0.209 %	0.221 %	0.214 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-08-17			2007-08-22		
B29- 1	Ni	0.225 %			0.191 %		
P02- 1	Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12- 1	Masse totale	3,250 kg	3,280 kg	3,385 kg	3,705 kg	3,645 kg	4,535 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :		18456- 25	18456- 26	18456- 27	18456- 28	18456- 29	18456- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		348199	348201	348203	348205	348207	348209
A02-	2	Analyse	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
A02-	2	SiO ₂	38.27 %	38.83 %	39.41 %	39.22 %	39.53 %
A02-	2	Al ₂ O ₃	1.288 %	1.635 %	1.606 %	1.613 %	1.831 %
A02-	2	MgO	37.12 %	36.15 %	35.83 %	36.04 %	35.92 %
A02-	2	CaO	0.446 %	0.674 %	0.363 %	0.404 %	0.591 %
A02-	2	K ₂ O	0.147 %	0.190 %	0.230 %	0.244 %	0.213 %
A02-	2	TiO ₂	0.026 %	0.033 %	0.029 %	0.033 %	0.026 %
A02-	2	MnO	0.077 %	0.100 %	0.075 %	0.079 %	0.079 %
A02-	2	P ₂ O ₅	0.027 %	0.015 %	0.027 %	0.026 %	0.018 %
A02-	2	Co	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Cr	0.252 %	0.247 %	0.268 %	0.239 %	0.241 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	0.059 %
A02-	2	Fe	5.080 %	5.547 %	5.150 %	5.299 %	5.157 %
A02-	2	Ni	0.217 %	0.222 %	0.236 %	0.213 %	0.240 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-22		2007-08-22		
B29-	1	Ni	0.208 %		0.195 %		
P02-	1	Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12-	1	Masse totale	3,285 kg	5,390 kg	3,735 kg	2,910 kg	3,925 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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Page : 5 de 8

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :		18456- 31	18456- 32	18456- 33	18456- 34	18456- 35	18456- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		348211	348213	348215	348217	348219	348221
A02-	2	Analyse	2007-08-21	2007-08-21	2007-08-21	2007-08-21	2007-08-21
A02-	2	SiO2	39.90 %	40.00 %	39.40 %	39.17 %	39.07 %
A02-	2	Al2O3	1.478 %	1.778 %	1.721 %	1.934 %	1.301 %
A02-	2	MgO	35.76 %	35.02 %	35.67 %	35.29 %	36.55 %
A02-	2	CaO	0.435 %	0.538 %	0.426 %	0.612 %	0.318 %
A02-	2	K2O	0.221 %	0.311 %	0.238 %	0.292 %	0.157 %
A02-	2	TiO2	0.030 %	0.038 %	0.029 %	0.031 %	0.015 %
A02-	2	MnO	0.081 %	0.093 %	0.081 %	0.084 %	0.080 %
A02-	2	P2O5	0.021 %	0.024 %	0.022 %	0.018 %	0.014 %
A02-	2	Co	< 0.01 %	< 0.01 %	0.011 %	< 0.01 %	0.011 %
A02-	2	Cr	0.230 %	0.274 %	0.296 %	0.225 %	0.264 %
A02-	2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Fe	5.166 %	5.291 %	5.059 %	4.904 %	5.221 %
A02-	2	Ni	0.287 %	0.211 %	0.216 %	0.213 %	0.245 %
A02-	2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02-	2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29-	1	Analyse	2007-08-22		2007-08-22		
B29-	1	Ni	0.193 %		0.194 %		
P02-	1	Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P02-	1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05-	1	Préparation	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P05-	1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12-	1	Analyse	2007-08-15	2007-08-15	2007-08-15	2007-08-15	2007-08-15
P12-	1	Masse totale	3,390 kg	2,975 kg	3,395 kg	4,715 kg	4,829 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :	18456- 37	18456- 38	18456- 39
Nature :	SOLIDES	SOLIDES	SOLIDES
Désignation :	348223	348225	348227
A02- 2 Analyse	2007-08-21	2007-08-21	2007-08-21
A02- 2 SiO2	38.95 %	39.26 %	38.50 %
A02- 2 Al2O3	1.655 %	1.071 %	1.367 %
A02- 2 MgO	36.18 %	36.95 %	36.79 %
A02- 2 CaO	0.495 %	0.367 %	0.296 %
A02- 2 K2O	0.272 %	0.164 %	0.183 %
A02- 2 TiO2	0.025 %	0.010 %	0.024 %
A02- 2 MnO	0.082 %	0.092 %	0.088 %
A02- 2 P2O5	0.014 %	< 0.01 %	0.018 %
A02- 2 Co	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.297 %	0.244 %	0.229 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.141 %	4.902 %	5.128 %
A02- 2 Ni	0.218 %	0.237 %	0.218 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-08-22		
B29- 1 Ni	0.195 %		
P02- 1 Préparation	2007-08-15	2007-08-15	2007-08-15
P02- 1 Conc.	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-15	2007-08-15	2007-08-15
P05- 1 Pul. BW	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-15	2007-08-15	2007-08-15
P12- 1 Masse totale	4,899 kg	3,756 kg	3,788 kg
18456- 1	B29- 1/Ni	: 18456-1 à 19 : Le dosage B29 (Ni), mise en solution HCl/HNO3	

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RAPPORT D'ANALYSE version 2

Votre référence: **Projet Nichromet**
Poches # 1 à 10
Date de réception : **2007-07-31**
Certificat émis le ..: **2007-09-05**

Responsable :



Bernard Montminy, chimiste, M.Sc.

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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Téléphone : 4504334050 Télécopieur : 4504331048 Courriel :

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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RAPPORT D'ANALYSE version 1

Votre référence: **Projet Nichromet**

Poches # 78-88

Date de réception : **2007-08-02**

Certificat émis le .: **2007-09-12**

33313 Geostat Systems International Inc.

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Numéro COREM :	18475- 1	18475- 2	18475- 3	18475- 4	18475- 5	18475- 6
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437305	437307	437309	437311	437313	437315
A02- 2 Analyse	2007-09-05	2007-09-05	2007-09-05	2007-09-05	2007-09-05	2007-09-05
A02- 2 SiO2	38.37 %	37.77 %	37.78 %	37.72 %	38.02 %	38.53 %
A02- 2 Al2O3	1.017 %	0.968 %	1.012 %	1.157 %	0.851 %	1.034 %
A02- 2 MgO	37.72 %	37.27 %	37.97 %	37.45 %	38.36 %	38.04 %
A02- 2 CaO	0.419 %	0.366 %	0.367 %	0.257 %	0.338 %	0.429 %
A02- 2 K2O	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 TiO2	0.013 %	0.023 %	0.015 %	< 0.01 %	< 0.01 %	0.011 %
A02- 2 MnO	0.105 %	0.108 %	0.104 %	0.106 %	0.106 %	0.109 %
A02- 2 P2O5	< 0.01 %	0.012 %	0.026 %	0.022 %	< 0.01 %	< 0.01 %
A02- 2 Co	0.010 %	< 0.01 %	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Cr	0.254 %	0.263 %	0.246 %	0.238 %	0.262 %	0.262 %
A02- 2 Cu	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.546 %	5.419 %	5.463 %	5.494 %	5.882 %	5.643 %
A02- 2 Ni	0.227 %	0.225 %	0.228 %	0.226 %	0.254 %	0.226 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse	2007-09-04		2007-09-04			2007-09-04
B29- 1 Ni	0.213 %		0.212 %			0.209 %
P02- 1 Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P12- 1 Masse totale	4.410 kg	4.155 kg	3.850 kg	3.780 kg	4.010 kg	3.895 kg

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33313 Geostat Systems International Inc.

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Numéro COREM :		18475- 7	18475- 8	18475- 9	18475- 10	18475- 11	18475- 12
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437317	437319	437321	437323	437325	437327
A02- 2 Analyse		2007-09-05	2007-09-05	2007-09-05	2007-09-05	2007-09-06	2007-09-06
A02- 2	SiO2	38.08 %	38.32 %	37.99 %	39.33 %	38.30 %	37.03 %
A02- 2	Al2O3	0.969 %	0.826 %	0.872 %	1.303 %	1.236 %	0.845 %
A02- 2	MgO	37.75 %	38.08 %	38.03 %	37.13 %	37.23 %	38.23 %
A02- 2	CaO	0.356 %	0.311 %	0.375 %	0.578 %	0.433 %	0.262 %
A02- 2	K2O	< 0.01 %	< 0.01 %	< 0.01 %	0.025 %	< 0.01 %	< 0.01 %
A02- 2	TiO2	< 0.01 %	< 0.01 %	0.017 %	0.025 %	< 0.01 %	< 0.01 %
A02- 2	MnO	0.110 %	0.106 %	0.103 %	0.099 %	0.101 %	0.103 %
A02- 2	P2O5	0.011 %	0.024 %	0.011 %	0.019 %	0.013 %	< 0.01 %
A02- 2	Co	< 0.01 %	0.010 %	0.011 %	0.010 %	0.012 %	0.010 %
A02- 2	Cr	0.253 %	0.267 %	0.269 %	0.234 %	0.240 %	0.251 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	0.023 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.581 %	5.508 %	5.738 %	5.716 %	5.473 %	5.637 %
A02- 2	Ni	0.223 %	0.227 %	0.234 %	0.224 %	0.224 %	0.232 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse				2007-09-04			2007-09-04
B29- 1	Ni			0.213 %			0.219 %
P02- 1	Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P12- 1	Masse totale	3.545 kg	2.805 kg	3.200 kg	3.920 kg	2.905 kg	2.455 kg

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RAPPORT D'ANALYSE version 1

Votre référence: **Projet Nichromet**

Poches # 78-88

Date de réception : **2007-08-02**

Certificat émis le .: **2007-09-12**

33313 Geostat Systems International Inc.

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Numéro COREM :		18475- 13	18475- 14	18475- 15	18475- 16	18475- 17	18475- 18
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437329	437331	437333	437335	437337	437339
A02- 2 Analyse		2007-09-06	2007-09-06	2007-09-06	2007-09-06	2007-09-06	2007-09-06
A02- 2 SiO2		38.14 %	38.71 %	37.85 %	38.13 %	38.04 %	38.16 %
A02- 2 Al2O3		1.090 %	0.947 %	0.828 %	1.222 %	0.983 %	1.193 %
A02- 2 MgO		38.30 %	38.50 %	38.21 %	38.00 %	37.18 %	36.72 %
A02- 2 CaO		0.332 %	0.384 %	0.317 %	0.235 %	0.305 %	0.528 %
A02- 2 K2O		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 TiO2		0.016 %	< 0.01 %	< 0.01 %	0.016 %	0.021 %	< 0.01 %
A02- 2 MnO		0.104 %	0.103 %	0.105 %	0.107 %	0.112 %	0.103 %
A02- 2 P2O5		0.013 %	< 0.01 %	0.017 %	< 0.01 %	0.022 %	< 0.01 %
A02- 2 Co		0.011 %	0.010 %	0.013 %	0.010 %	0.012 %	< 0.01 %
A02- 2 Cr		0.247 %	0.246 %	0.253 %	0.232 %	0.251 %	0.253 %
A02- 2 Cu		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe		5.534 %	5.408 %	5.351 %	5.304 %	5.689 %	5.387 %
A02- 2 Ni		0.230 %	0.229 %	0.236 %	0.219 %	0.217 %	0.229 %
A02- 2 Pb		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse				2007-09-04			2007-09-04
B29- 1 Ni				0.228 %			0.209 %
P02- 1 Préparation		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P02- 1 Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P05- 1 Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P12- 1 Masse totale		2.755 kg	2.925 kg	3.530 kg	3.290 kg	2.940 kg	3.815 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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33313 Geostat Systems International Inc.

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Numéro COREM :		18475- 19	18475- 20	18475- 21	18475- 22	18475- 23	18475- 24
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437341	437343	437345	437347	437349	437351
A02- 2 Analyse		2007-09-06	2007-09-06	2007-09-06	2007-09-06	2007-09-06	2007-09-06
A02- 2	SiO2	37.80 %	38.26 %	38.68 %	38.21 %	38.20 %	38.32 %
A02- 2	Al2O3	0.950 %	1.007 %	1.106 %	1.145 %	1.171 %	1.071 %
A02- 2	MgO	38.21 %	37.69 %	37.33 %	36.71 %	37.23 %	37.22 %
A02- 2	CaO	0.315 %	0.285 %	0.440 %	0.315 %	0.395 %	0.333 %
A02- 2	K2O	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	TiO2	< 0.01 %	0.014 %	< 0.01 %	0.016 %	0.015 %	0.012 %
A02- 2	MnO	0.098 %	0.105 %	0.109 %	0.106 %	0.111 %	0.103 %
A02- 2	P2O5	< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	0.020 %	0.017 %
A02- 2	Co	0.013 %	< 0.01 %	0.010 %	0.010 %	0.012 %	0.012 %
A02- 2	Cr	0.270 %	0.244 %	0.267 %	0.258 %	0.253 %	0.238 %
A02- 2	Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.530 %	5.487 %	5.336 %	5.581 %	5.620 %	5.518 %
A02- 2	Ni	0.230 %	0.228 %	0.221 %	0.227 %	0.219 %	0.224 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse				2007-09-04		2007-09-04	
B29- 1	Ni			0.201 %		0.204 %	
P02- 1	Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P12- 1	Masse totale	3.165 kg	3.770 kg	3.395 kg	3.400 kg	2.680 kg	3.990 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :		18475- 25	18475- 26	18475- 27	18475- 28	18475- 29	18475- 30
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437353	437355	437357	437359	437361	437363
A02- 2 Analyse		2007-09-06	2007-09-07	2007-09-06	2007-09-06	2007-09-06	2007-09-07
A02- 2 SiO2		38.17 %	37.78 %	38.36 %	38.09 %	38.16 %	37.77 %
A02- 2 Al2O3		1.170 %	1.123 %	1.184 %	0.991 %	1.145 %	0.862 %
A02- 2 MgO		37.45 %	37.33 %	37.30 %	37.56 %	37.44 %	38.25 %
A02- 2 CaO		0.316 %	0.257 %	0.358 %	0.381 %	0.354 %	0.202 %
A02- 2 K2O		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	0.012 %	< 0.01 %
A02- 2 TiO2		< 0.01 %	< 0.01 %	0.014 %	0.012 %	0.015 %	0.010 %
A02- 2 MnO		0.107 %	0.105 %	0.109 %	0.105 %	0.107 %	0.100 %
A02- 2 P2O5		0.023 %	< 0.01 %	0.015 %	< 0.01 %	0.019 %	0.021 %
A02- 2 Co		< 0.01 %	0.011 %	0.012 %	0.010 %	< 0.01 %	0.011 %
A02- 2 Cr		0.282 %	0.249 %	0.251 %	0.244 %	0.253 %	0.270 %
A02- 2 Cu		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe		5.790 %	5.578 %	5.612 %	5.647 %	5.347 %	5.319 %
A02- 2 Ni		0.229 %	0.216 %	0.230 %	0.230 %	0.247 %	0.228 %
A02- 2 Pb		< 0.01 %	< 0.01 %	< 0.01 %	0.010 %	< 0.01 %	< 0.01 %
A02- 2 S		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn		< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse			2007-09-04			2007-09-04	
B29- 1 Ni			0.205 %			0.212 %	
P02- 1 Préparation		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P02- 1 Conc.		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P05- 1 Pul. BW		Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse		2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P12- 1 Masse totale		2.705 kg	3.565 kg	3.670 kg	3.215 kg	3.830 kg	3.695 kg

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

COREM

1180, rue de la Minéralogie, Québec (Québec) Canada G1N 1X7

Téléphone : (418) 527-8211

Télécopieur : (418) 527-4818

F-GEN-53

Page : 5 de 8

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :		18475- 31	18475- 32	18475- 33	18475- 34	18475- 35	18475- 36
Nature :		SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :		437365	437367	437369	437371	437373	437375
A02- 2 Analyse		2007-09-10	2007-09-10	2007-09-10	2007-09-10	2007-09-10	2007-09-10
A02- 2	SiO2	37.37 %	38.64 %	38.56 %	37.74 %	38.37 %	37.97 %
A02- 2	Al2O3	0.933 %	1.018 %	1.125 %	1.106 %	1.139 %	0.990 %
A02- 2	MgO	38.04 %	38.00 %	37.42 %	37.49 %	37.48 %	37.55 %
A02- 2	CaO	0.290 %	0.364 %	0.395 %	0.393 %	0.602 %	0.344 %
A02- 2	K2O	< 0.01 %	0.015 %	0.015 %	0.011 %	< 0.01 %	< 0.01 %
A02- 2	TiO2	0.010 %	0.020 %	< 0.01 %	0.012 %	< 0.01 %	0.019 %
A02- 2	MnO	0.104 %	0.101 %	0.104 %	0.106 %	0.101 %	0.097 %
A02- 2	P2O5	< 0.01 %	0.015 %	0.013 %	< 0.01 %	< 0.01 %	0.022 %
A02- 2	Co	0.011 %	0.011 %	0.010 %	< 0.01 %	< 0.01 %	0.011 %
A02- 2	Cr	0.253 %	0.242 %	0.261 %	0.262 %	0.247 %	0.248 %
A02- 2	Cu	< 0.01 %	0.011 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Fe	5.559 %	5.200 %	5.745 %	5.700 %	5.164 %	5.513 %
A02- 2	Ni	0.240 %	0.240 %	0.233 %	0.225 %	0.223 %	0.227 %
A02- 2	Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2	Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1	Analyse		2007-09-04			2007-09-04	
B29- 1	Ni		0.212 %			0.209 %	
P02- 1	Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P02- 1	Conc.	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1	Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P05- 1	Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1	Analyse	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P12- 1	Masse totale	3.170 kg	4.060 kg	3.325 kg	3.085 kg	3.031 kg	2.328 kg

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COREM

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Page : 6 de 8

33313 Geostat Systems International Inc.

Claude Duplessis

Numéro COREM :	18475- 37	18475- 38	18475- 39	18475- 40	18475- 41
Nature :	SOLIDES	SOLIDES	SOLIDES	SOLIDES	SOLIDES
Désignation :	437377	437379	437381	437383	437385
A02- 2 Analyse	2007-09-10	2007-09-10	2007-09-10	2007-09-10	2007-09-10
A02- 2 SiO2	38.71 %	37.24 %	37.64 %	38.46 %	39.43 %
A02- 2 Al2O3	1.242 %	0.780 %	1.001 %	0.748 %	1.097 %
A02- 2 MgO	37.57 %	38.01 %	37.61 %	38.30 %	38.22 %
A02- 2 CaO	0.543 %	0.215 %	0.296 %	0.220 %	0.347 %
A02- 2 K2O	0.020 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 TiO2	0.017 %	< 0.01 %	0.015 %	< 0.01 %	< 0.01 %
A02- 2 MnO	0.107 %	0.099 %	0.105 %	0.102 %	0.099 %
A02- 2 P2O5	0.017 %	< 0.01 %	< 0.01 %	< 0.01 %	0.017 %
A02- 2 Co	0.011 %	0.011 %	0.010 %	< 0.01 %	0.011 %
A02- 2 Cr	0.249 %	0.249 %	0.274 %	0.259 %	0.253 %
A02- 2 Cu	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Fe	5.359 %	5.349 %	5.323 %	5.616 %	5.302 %
A02- 2 Ni	0.224 %	0.229 %	0.231 %	0.244 %	0.233 %
A02- 2 Pb	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 S	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
A02- 2 Zn	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %	< 0.01 %
B29- 1 Analyse		2007-09-04			2007-09-04
B29- 1 Ni		0.214 %			0.214 %
P02- 1 Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P02- 1 Conc.	Terminée	Terminée	Terminée	Terminée	Terminée
P05- 1 Préparation	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P05- 1 Pul. BW	Terminée	Terminée	Terminée	Terminée	Terminée
P12- 1 Analyse	2007-08-30	2007-08-30	2007-08-30	2007-08-30	2007-08-30
P12- 1 Masse totale	3.420 kg	3.510 kg	3.855 kg	3.770 kg	3.870 kg
18475- 1	B29- 1/Ni	: Le dosage B29 (Ni) mise en solution HCl(Selon la méthode fo			

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

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33313 Geostat Systems International Inc.

Claude Duplessis

urnie par le client)

Votre référence ...: **Projet Nichromet**

Poches # 78-88

Date de réception : **2007-08-02**

Certificat émis le : **2007-09-12**

Responsable :



Bernard Montminy, chimiste, M.Sc.

Ce rapport contient des renseignements protégés et confidentiels à l'intention du destinataire. Les résultats ne se rapportent qu'aux échantillons soumis à l'analyse. Cette version remplace et annule toute version antérieure, le cas échéant. * Analyse faite par un sous-traitant.

COREM

1180, rue de la Minéralogie, Québec (Québec) Canada G1N 1X7

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Appendix 5: Copies of letters of agreements

Oct-11-2007 13:34

From=

T-246 P.001/002 F-482

**MAZARIN**

696, rue Monfette Est
Thetford Mines QC G6G 7G9
Téléphone (418) 338-3669
Télécopieur (418) 338-0229
Courriel: jleboutillier@mazarin-inc.com



840, boulevard Ouellet
Thetford Mines QC G6G 7A5
Téléphone (418) 338-5195
Télécopieur (418) 338-8089
Courriel : llabrecque@asbestos-corp.com

T É L É C O P I E

Destinataire : Monsieur Pierre Gauthier (514) 866-6193
Monsieur Claude Duplessis (450) 433-1048
Monsieur Jean-Marc Lalancette 338-8814
Compagnie : NICHROMET EXTRACTION
télécopieur :
Date : 11 octobre 2007
pages jointes : 1
Objet :

Voici le document demandé.

L'original suivra par courrier à Monsieur Pierre Gauthier.

Luce Labrecque
Adjointe à la direction

Oct-11-2007 13:34 From:

T-246 P.002/002 F-482

**SOCIÉTÉ ASBESTOS LIMITÉE**

840, boulevard Ouellet, Thetford Mines (Québec) Canada G6G 7A5

Thetford Mines QC
October 10, 2007Mr. Pierre Gauthier
Chairman
Nichromet Extraction Inc.
630, René Lévesque Blvd West
Suite 2930
Montreal QC H3B 1S6

Dear Sir:

As you know, LAB and Company, Limited, a limited corporation, and LAB Chrysotile Inc., a corporation, are deemed to have become bankrupt on August 5, 2007. As a result, the Pilot Plant Agreement between the above parties and Nichromet Extraction Inc. dated as of December 20, 2004, extended by virtue of an Extension Agreement dated as of November 10, 2006, has ceased to exist.

It is the intention of Asbestos Corporation Limited, which holds exclusive rights to mine, occupy and use certain asbestos properties located in Thetford Mines, Quebec, comprising asbestos tailings and tailing dumps, land and adjacent buildings, to draw up as soon as possible a new agreement which will reproduce substantially the same terms and conditions as the Pilot Plant Agreement.

In the meantime, we wish to confirm that we are making available to Nichromet the buildings where its pilot plant is located as well as the asbestos tailings which were generated by, and are adjacent to, the following mines:

- > Normandie
- > British Canadian 1
- > British Canadian 2
- > King-Beaver
- > LAC and National, property of Lake Asbestos of Canada, Limited.

We have also agreed in principle to lease to Nichromet, for a three-year term from January 1, 2008, at competitive rates, the existing pilot plant premises as well as the additional space that you have requested.

I trust that the above is to your satisfaction.

Yours sincerely,

John LeBoutillier
President

C.C.: Mr. Steve Duplessis -- Geostat Inc.

Téléphone : (418) 338-5195 ♦ Télécopieur : (418) 338-6069 ♦ Courriel : mail@asbestos.com

**SOCIÉTÉ ASBESTOS LIMITÉE**

840, boulevard Ouellet, Thetford Mines (Québec) Canada G6G 7A5

Thetford Mines QC
September 17, 2007

Mr. Pierre Gauthier
Chairman
Nichromet Extraction Inc.
630, René Lévesque Blvd West
Suite 2930
Montreal QC H3B 1S6

Dear Sir:

As you know, LAB and Company, Limited, a limited corporation, and LAB Chrysotile Inc., a corporation, are deemed to have become bankrupt on August 5, 2007. As a result, the Pilot Plant Agreement between the above parties and Nichromet Extraction Inc. dated as of December 20, 2004, extended by virtue of an Extension Agreement dated as of November 10, 2006, has ceased to exist.

It is the intention of Asbestos Corporation Limited, which holds exclusive rights to mine, occupy and use certain asbestos properties located in Thetford Mines, Quebec, comprising asbestos tailings and tailing dumps, land and adjacent buildings, to draw up as soon as possible a new agreement which will reproduce substantially the same terms and conditions as the Pilot Plant Agreement.

In the meantime, we wish to confirm that we are making available to Nichromet the buildings where its pilot plant is located as well as the asbestos tailings which were generated by, and are adjacent to, the following mines: Normandie, British Canadian 1, British Canadian 2 and King-Beaver.

We have also agreed in principle to lease to Nichromet, for a three-year term from January 1, 2008, at competitive rates, the existing pilot plant premises as well as the additional space that you have requested.

I trust that the above is to your satisfaction.

Yours sincerely,

John LeBoutillier
President

9075-6453 QUÉBEC INC.
852, boulevard Ouellet
Thetford Mines (Québec) G6G 7A5

Thetford Mines QC
September 17, 2007

Mr. Pierre Gauthier
Chairman
Nichromet Extraction Inc.
630, René Lévesque Blvd West
Suite 2930
Montreal QC H3B 1S6

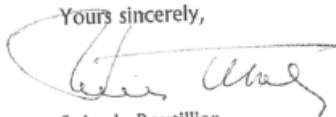
Dear Sir:

I refer to a letter of today's date addressed to you by Asbestos Corporation Limited.

We hereby confirm that 9075-6453 Quebec Inc. is making available to Nichromet the asbestos tailings which were generated by, and are adjacent to, the Bell mine.

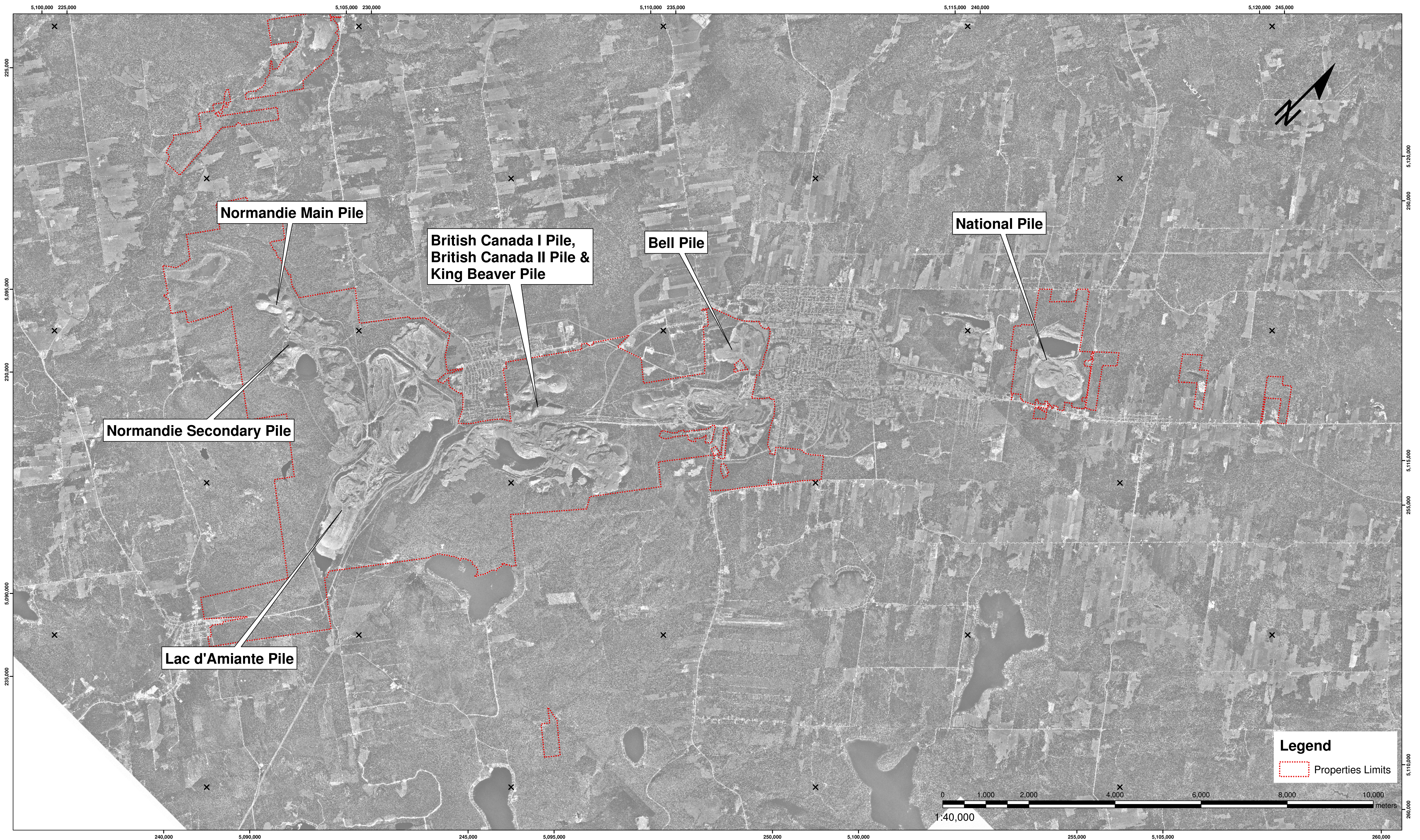
I trust that the above is to your satisfaction.

Yours sincerely,



John LeBoutillier
President

Appendix 6: Location maps



Tailings Piles, Location Plan

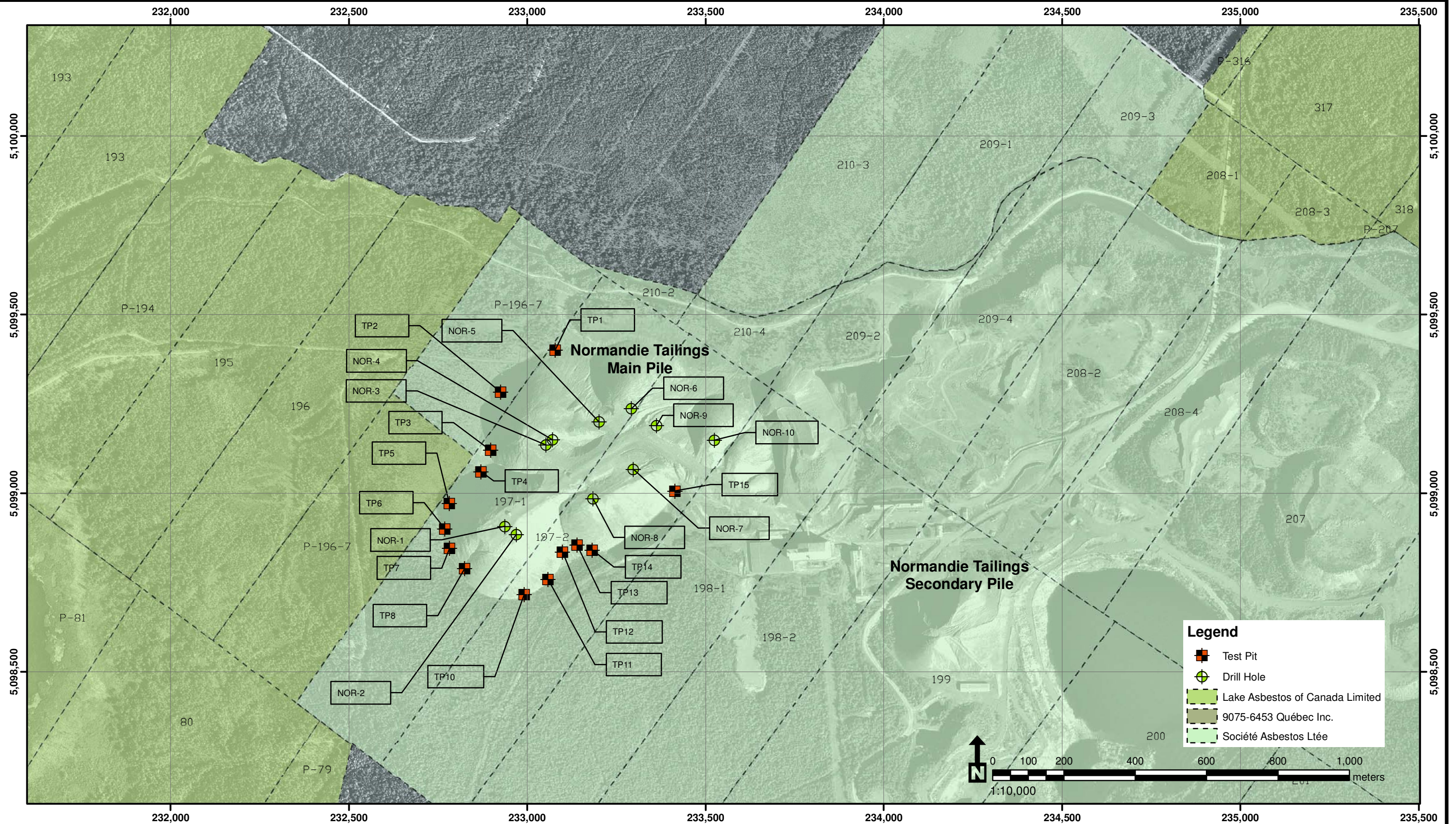


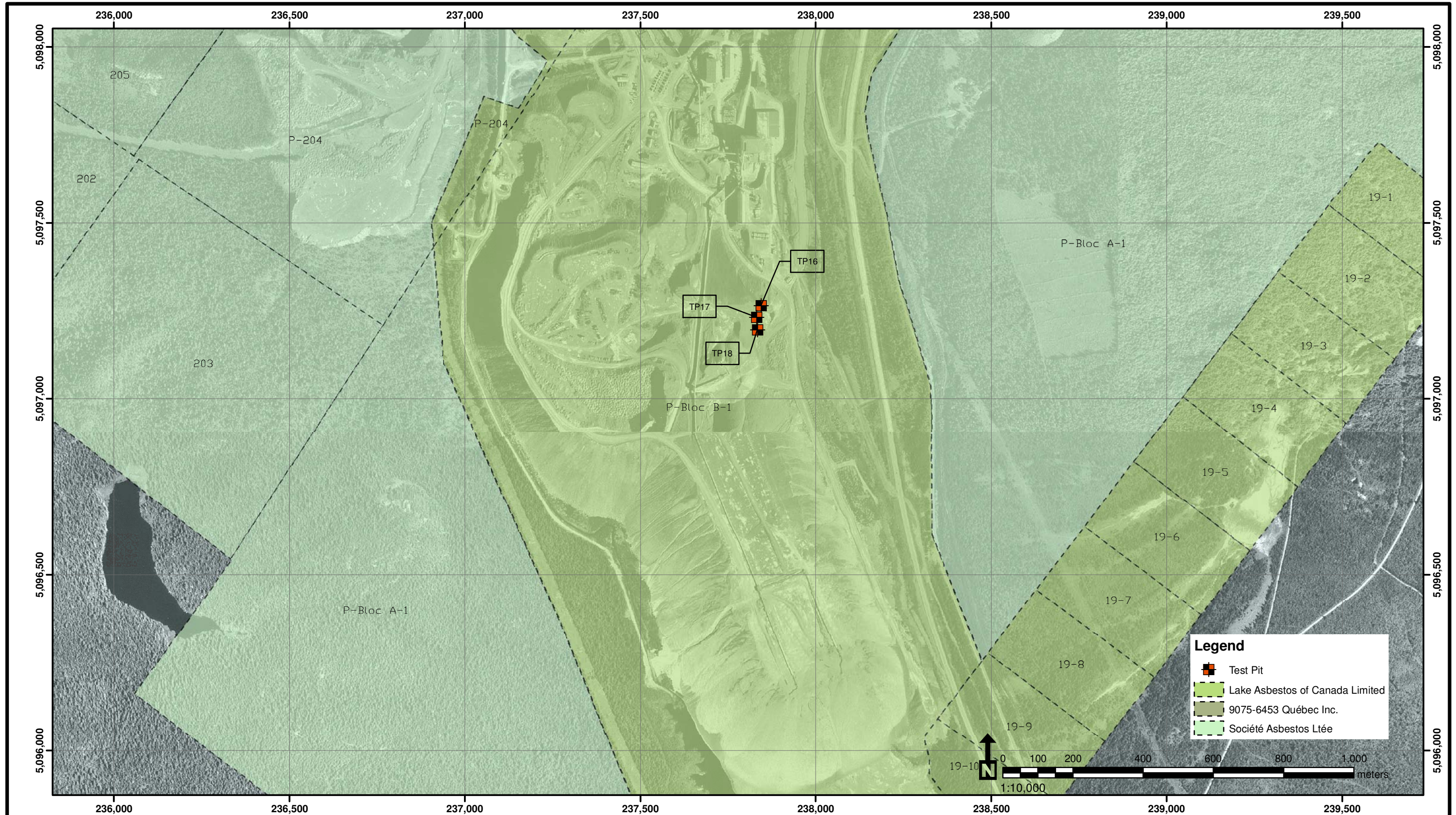
Nichromet Extraction Inc. **Resources Estimation of the Nickel Content** **in Asbestos Mines Tailings**

Thetford Mines, Québec, Canada

NAD_1983_MTM_7 Projection

October 2007



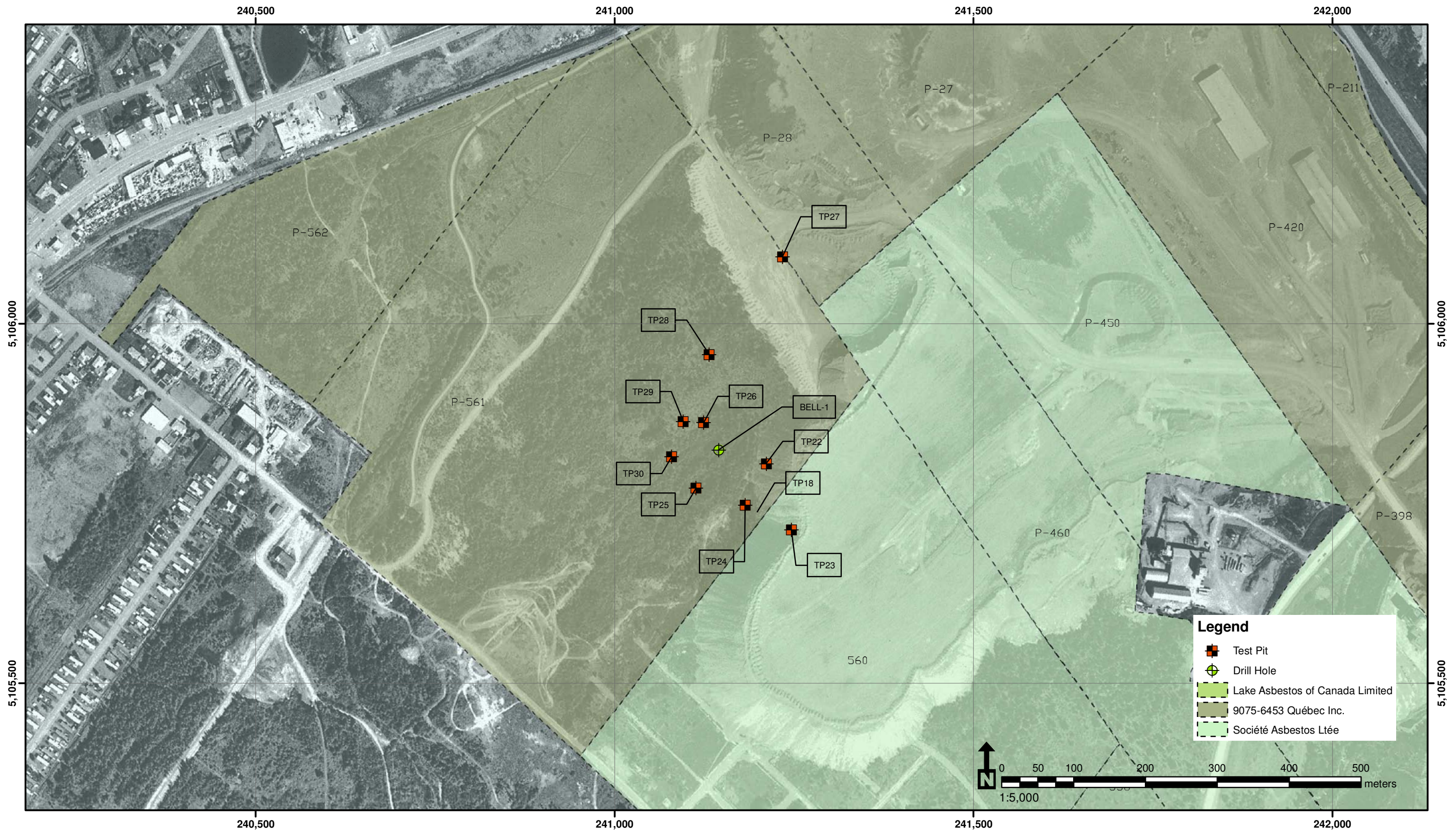


Nichromet Extraction Inc.
Resources Estimation of the Nickel Content
in Asbestos Mines Tailings
Thetford Mines, Québec, Canada

Lac d'Amiante Pile, Test Pits Location Plan

NAD_1983_MTM_7 Projection
 October 2007



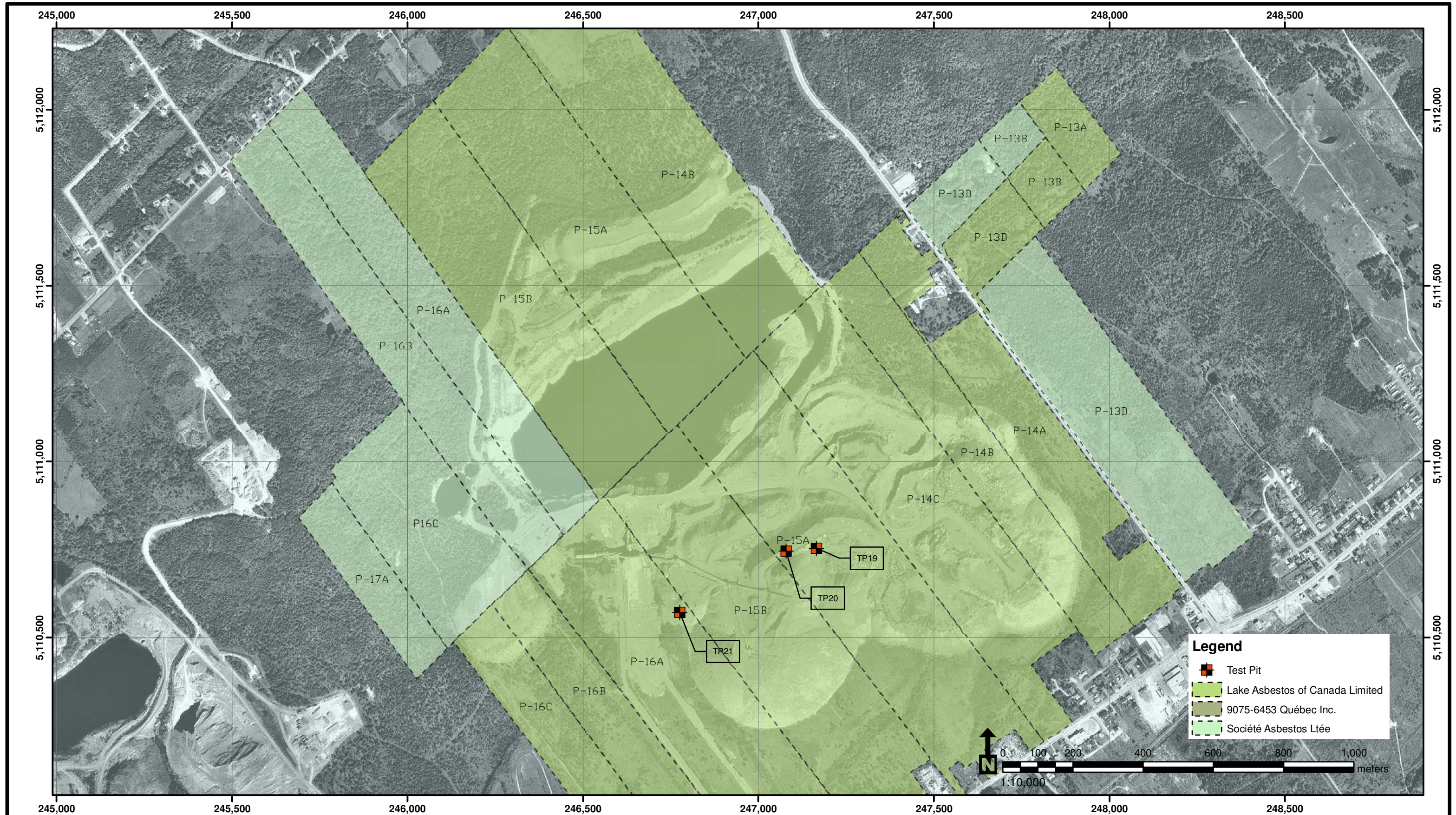


Nichromet Extraction Inc.
Resources Estimation of the Nickel Content
in Asbestos Mines Tailings
Thetford Mines, Québec, Canada

Bell Tailings Piles, Drill Hole and Test Pits Location Plan

NAD_1983_MTM_7 Projection

October 2007



Nichromet Extraction Inc.
Resources Estimation of the Nickel Content
in Asbestos Mines Tailings
Thetford Mines, Québec, Canada

National Tailings Piles, Test Pits Location Plan



NAD_1983_MTM_7 Projection
 October 2007

Appendix 7: Project data