

EDOCAM AND SONS COMPANY LTD

Import & Export-Supplies-Building & Construction – General Merchandise-General Contractors
Taxpayers Card N°. P017000232229

Registered N° RC/MUN/2009/A.26

DIRECTION GENERALE

DIRECTION DES ROUTES ET INFRASTRUCTURES

DIRECTION TECHNIQUE

CONDUCTEUR DE TRAVAUX

GENERAL DIRECTORATE

DIRECTOATE OF ROADS AND INFRASTRUCTURES

SUB DIRECTORAT E OF TECHNIQUE SERVICES

ENG INEER FOR PROJECT

**APPLICATION FOR AN EXPLORATION PERMIT FOR PRECIOUS
STONES (DIAMOND, SAPPHIRE, RUBIS, EMERALD, OPAL,
TOPAZ, TOURMALINE etc), PRECIOUS M1NERALS AND METALS
(GOLD, LEAD, COPPER, SIL VER, RUTILE, KYANITE, IRON ORE
etc), RADJOACTWE SUBSTANCES (URANIUM, COBALT - NICKEL
etc.) AT MIANGWE II PERMIT.**

FOR THE ATTENTION 0F HIS EXCELLENCY

THE MINISTER 0F INDUSTRY, MINES ANI TECHNOLOGICAL

DEVELOPMENT

YAOUNDE

REPUBLIC 0F CAMEROON

(COPY 10F 3)

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List of requirements

- 1) Application for an Exploration permit;
- 2) Application form from the grant or renewal o f an exploration permit;
- 3) Company articles of incorporation; recent annual report or bank statement of financial assets;
- 4) List of members of the board of directors, persons empowered to sign for the company, their nationalities and respective addresses.
- 5) Appointment of a local representative and an exploration manager;
- 6) Guarantee for the fulfilment of obligations: bank statement, statement policy or fresh payment;
- 7) Topographical map on a scale of 1 :200,000 describing the area, issued by the national cartographical points, summits, perimeter etc.;
- 8) Attestation confirming die coordinates o f this area, issued by the National Cartographic Centre;
- 9) A reconnaissance report on previous work done in the area;
- 10) Reporting schedule and a typical report format;
- 11) Work program covering the 3- year validity o f the permit;
- 12) Written and signed engagement to execute the work program;
- 13) Program o f expenditures (work bud get) to be effected;
- 14) Written and signed engagement to spend t he maximum required amount/km ²/yr;
- 15) Receipt attesting to the payment o f the required fixed fees.

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ADMINISTRATIVE REQUIREMENTS

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etc.) AT MIANGWE II PERMIT**

Application for an Exploration permit ;
Application form for t he Grant of an Exploration permit
Company articles of incorporation
List of members of the Board of Directors;
Appointment letter for an Exploration Manager

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etc.) AT MIANGWE II PERMIT**

The Minister of Industry, Mines

And Technological

Development Yaoundé

9th MAY, 2011

Re : Application for an Exploration permit.

His Excellency.

I am pleased to attach hereto an application to explore for sapphire and associated minerals in Miangwe located in the Toko Sub Division, Ndian Division, South West Region of Cameroon.

Attached is a set of documents as required by the Cameroon Mining Code.

Many thanks for your attention in this matter

Yours sincerely.

AITKINS DISONGE ELTON

GENERAL MANAGER

EDOCAM AND SONS COMPANY LTD

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EXPLORATION PERMIT

(ARTICLE 600F DECREE N° 2002/648/PM OF 26 MARCH 2002)

NAME OF APPLICANT : AITKINS DISONGE ELTON

NATIONALITY OF APPLICANT : Cameroonian

ADDRESS FOR THE NOTIFICATION OF DEEDS : Tel (+237) 79 86 05 43 /79 53 99 75

Email: info@edocamsons.com

DESCRIPTION OF THE ZONE :

- Area of Perimeter Requested: 500Km2
- Administrative units covered:

TOWN SUBDIVISIONS DIVISIONS REGION
MIANGWE II TOKO NDIAN SOUTHWEST

Minerals and substances sought : Precious stones (Diamond, Sapphire, Rubis, Emerald, Opal, Topaz, Tourmaline etc), Precious minerals and stones (Gold, Lead, Copper, Silver, Rutile, Kyanite, Iran ore etc) and Radioactive substances (Uranium, Cobalt Nickel etc.).

DOCUMENTS APPENDED TO TRIS APPLICATION:

- Tue articles of association of the corporate body, the recent annual report, or a bank statement of financial assets;
- the list of members of the Board of Directors, the list of persons empowered to sign on behalf of the company, their nationalities anti respective addresses;
- A convincing statement on the available financial resources necessary to carry out the work;
- A commitment to respects the minimum expenditure requirement;
- A receipt showing payment of the required fees (2000 F CFA/km2);
- An extract of the topographical map of the region, drawn to the scale of 1:200.000 specifying the summits and boundaries of the perimeter sought;
- The program anti schedule of work lobe implemented by the applicant during the validity period of the permit,
- An attestation designating the Exploration Manager,
- A written commitment to carry out the work stated in the program,
- A reconnaissance report on previous work conducted in the region

DATE OF APPLICATION: 9th, MAY, 2011

NAME AND SIGNATURE OF APPLICANT: AITKINS DISONGE ELTON

Po Box 68 : KUMBA : MEME DIVISION SOUTH WEST REGION
REPUBLIC OF CAMEROON, Tel. 00237 33 35 47 69 /79 86 05 43 /79 53 99 75 E-mail info@edocamsons.com

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N° FULL NAME NATIONALITIES ADDRESSES

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AITKINS DISONGE ELTON has been authorized to sign for the company.

AITKINS DISONGE ELTON

GENERAL MANAGER

EDOCAM AND SONS COMPANY LTD

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Appointment of Exploration Manager

Mr..... Exploration Manager is hereby appointed to

manage all operational and technical matters relating to the work program obligation and the undertakings submitted by in respect of the permit.

AITKINS DISONGE ELTON

GENERAL MANAGER

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FINANCIAL REQUIREMENTS

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etc), RADIOACTIVE SUBSTANCES (URANIUM, COBALT - NICKEL
etc.) AT MIANGWE II PERMIT.**

■ **Guarantee for the fulfillment of obligations.**

■ **Receipt attesting to the payment of the required fixed fees.**

■ **Program of expenditure (budget.**

■ **Engagement to spend the minimum budgetary investments**

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etc), RADIOACTIVE SUBSTANCES (URANIUM, COBALT - NICKEL
etc) AT MIANGWE II PERMIT.**

Minimum Expenditure and Schedule

I the undersigned **AITKINS DISONGE ELTON** General Manager of
EDOCAM & SONS COMPANY LTD. hereby solemnly and respectfully
undertake to spend the following minimum expenditure as part of the permit
exploration work program.

Year EXPENDITURE (Million FCFA)

	Minimum	Maximum
01	100.000	150.000
02	100.000	150.000
03	100.000	150.000
Total	300.000	450.000

Total expenditure for the three- year validity of the permit 300 -450 millions

Frs. CFA.

AITKINS DISONGE ELTON

GENERAL MANAGER

EDOCAM AND SONS COMPANY LTD

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etc), RADIOACTIVE SUBSTANCES (URANIUM, COBALT - NICKEL
etc) AT MIANGWE II PERMIT.**

Undertaking to Expend the Minimum Expenditure

I, the undersigned, **AITKINS DISONGE ELTON** hereby solemnly and respectfully undertake to ensure the timely and full expenditure as presented and approved b y the Cameroon Ministry of Industry, Mines and Techno logical Development.

I am aware that these obligations form a binding legal undertaking.

EDOCAM & SONS COMPANY LTD

AITKINS DISONGE ELTON

GENERAL MANAGER

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TECHNICAL REQUIREMENTS

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(GOLD LEAD, COPPER, SILVER, RUTILE, KYANITE, IRON ORE etc),
RADIOACTIVE SUBSTANCES (URANIUM, COBALT-NICKEL etc) AT
MIANGWE II PERMIT.**

■ **Country, regional and local geology of the intended exploration area.**

■ **Proposed work program.**

■ **Engagement to execute work program.**

■ **Reporting schedule and report format.**

■ **Attestation confirming the coordinates of this area.**

■ **Topographical map on the scale of 1:200.000**

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**REGIONAL GEOGRAPHY AND GEOLOGY OF THE
INTENDED EXPLORATION AREA**

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PHYSICAL GEOGRAPHY AND GEOLOGY OF THE MAMFE REGION AND ITS ENVIRONS

The Ndian region and its environs are situated within the cretaceous sedimentary basin geological context. The Geological formations are mostly sedimentary (sandstones, clayey sandstones, conglomeratic sandstones).

More so, corridors of basement formations (granite, gneiss, anatexite...) are abundant.

Volcanic formations marked by trachytes, prismatic basalts (pegmatites) and syenites do cut across the various massif and basement formations.

I- PHYSICAL GEOGRAPHY

The region has reliefs which are extremely complex. The dominant features are the existence of reliefs with varying altitudes and steep cliffs elements between the constituted elements and the elevated elements.

I.1- PLAINS AND HILLS WITH LOW ALTITUDES

The plains and hills extend from one part to another of the Rumpi mountains and the sedimentary gulf of Mamfe-West Cameroon. Their limits with the preceding entities is marked by waterfalls and rapids along ail the rivers. Meanwhile, behind these rapids, the basements are flat and it is just about 15km towards the interior before hills appear. The region shows a monotony of hills with varying altitudes. Gentle towards the West, steep and highly elevated towards the East. Their forms are rounded since they are modeled in the basements; in the basaltic zones plateaus limited by cliffs are found.

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The Rumpi mountains:

This great massive covers about 500km². It presents three (03) different parts.

- North of Diko me Balue basaltic tufts are found. The altitudes decreases from the South towards t he North (100-600 m.), these glacis are accidented by a North- South trachytic massive. And it culminates at about 1 .500 metres.
- In the South and in t he East the Rumpi presents very important margins, thus the relief is very accidented and mo deled in a thick basaltic co ver with the presence of several tectonic compartments.
- The South-West part is separated from the preceding by the continuation of the trachytic boudins which presents a very different aspect with respect to the rest of the accidented landscape of ramified cretes separated by steep cliffs.

II - HYDROGRAPHY

The smaller streams presents a regular and permanent flow regime. There exist two regimes: The Low regime corresponds to the Dry season “Low rainfall” and the Flood regime corresponds to the Rainy season. The increase in water level is irregular, “11e teeth of a handsaw”, whereas a drop in water level is very regular.

The water profile along the water courses (streams) is marked by several rapids or waterfalls, corresponding to the difference between the orographic elements or basaltic or trachytic flow fronts and for ail streams, passing over the basement to the sedimentary coast.

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- (1) The River Ndian d rains from the Rumpis into the Rio del Rey basin at the border between Cameroon anti Nigeria.
- (2) The Mana river a tributary of the Ndian river flows from the Rumpis.
- (3) The Madie River flows from the Rumpis and forms a confluence with the River Bake at Mokwalibe and they dram into t he Munaya.
- (4) Madediba stream flows into the Mana basin.
- (5) Libangenie flows from the Rumpis into the Mimaya.

III- CLIMATE AND VEGETATION:

The region is divided into two (02) from the climatic point of view:

- The lowlands with the forest vegetation bas an equatorial climate of the Guinean type, modified by the deviation of mousson by the mount Cameroon relief. The year is divided into two (02) seasons, a rainy season from March to October with short break in May, anti a less humid season «Less humid». The precipitations are important: 2 971mm /year at Mamfe, 2 537mm at Kumba and 3 963mm at Douala. It is very high on the South-West slopes of mount Cameroon: 10 500mm at Biboundi which is the second wettest place in the world. Humidity remains very high throughout the year. Temperatures varies very slightly. Douala: average annual temperatures: 26°, monthly minimum 23°: monthly maximum: 30°. Altitude mostly influence temperatures, and freezes it, until snow is known on Mount Cameroon.

The region bas the tropical rainforest. Beside the sea there is the mangrove type of vegetation. The forest is made up of various tree types which are very giant and form large canopies. The forest is very dense as we move from the sea level up to higher altitudes. The mangroves and grassland zones are occupied by aborescents ferns and moss.

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IV- GEOIOGY

A- SEDIMENTARY FORMATIONS:

A.I: THE COASTAL SEDIMENTARY SERIES:

A.I.1 : CRETACEOUS:

The « Sandstone basement fades» is represented by the sandy and clayey, barioles formations, best known on the outcrop. It is transgressive on the basement and their continental characteristic is net. On the outcrop the red detritic facies, particularly lateritic are frequent. Several conglomeratic levels are inserted in the sandstone, more or less arkosic, carbonaceous and criss-crossed stratification and the red or violet clays. These formations are azoicic.

West of Ndian the sandstone basement facies are covered by the Cenomanian marine could be attributed to the Albian. South-East of Ndian it is covered by Turonian age, is is probably Cenomanian.

The sandstone basement facies is represented West of Ndian in the Odukpani (Nigeria) by sandstone basement that recovers the Cenomanian age.

The sandstone basement fades is thus mounted in the Albian sedimentary series West of Ndian at the Senonian base between Edea and Douala.

The Albian:

Is represented West of Ndian, in the Odukpani region (Nigeria) by the sandstone fades that recovers the Cenomanian age.

The Cenomanian :

Is characterised at Odukpani (Nigeria). From the bottom to the top are found crinoidal limestone, an alternation of limestone and clay, the sandy-clay with the sandstone insertion and sandy limestone. At the level of Ndian, this Cenomanian marine is overlapped by mounting into the series of the sandstone basement facies.

The Turonian :

Outside the Mungo basin, it is not well known. It is overlapped in the North-West. At Kita Balue dolomites replacing limestones are locally known.

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B- VOLCANIC FORMATIONS COVERS:

B.I: AVERAGE WHITE SERIES:

B.I.1: ANDESITES TRACHYTES:

The Rumpi mountain outcrops rocks which resembles the Aphyric trachytes (more slightly dark and more rich in phenocrystals. The microscopic study determines the existence of phenocrystals and Oligoclase microlites, and Calculation of norms and the LACROIX parameter: I(II)-5-2-4 with Or/Plag = 0.43 and 0.45, An% = 16 - 18%, and 3.0 to 4.3% of quartz calculated, shows that it is an Andesite-trachyte.

A distinction was made between the basalts with porphyric feldspar and the ones without porphyric feldspar.

B.II.1: APHYRIC BASALTS:

They are very much extended. Practically, plagioclase phenocrystals are never seen in them. Perfectly, they could be aphyric with very fine grains or contained a variable number of augite and olivine phenocrystals. In this basalts the polygonal regular flow is a rule.

Their texture is ordinarily sub-doleritic practically without glasses; it presents plagioclase microlites entangled with olivine and Augite, exceptionally only Augite, Apatite and of ore. There is never a reaction core around the Olivine. It is the β -Basalts: II [?]-5-[?] 4-[?]4 with An%=59% passing over to Basalts-II(III)-5-4-4 with An%=71.0% and 1.7% Nepheline.

In the Rumpi mountains they equally andesites. These basalts are associated with a subordinate quantity of tuffs which always poorly outcrops. It is presented under the form of accumulated volcanic lavas of which the total thickness is rarely not more than a hectometer. When basalts clearly substitute plateau basalts, it is always the basalts of these type North of the Rumpi mountain.

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B.II.2: PORPHYRIC BASALTS:

They are less frequent. More clear than the preceding and never show a polygonal flow. They are porphyric but the quantity of phenocrystals is extremely variable. Most often they are visible Olivine and Augite. Slightly clear apyric rocks could be associated to them.

In the thin microscope slide they show a plagioclase zone: it is Labradorite in the centre, Andesine at the periphery. Probably the microlites are also andesine. Augite are constant, while Olivine are not.

From the mineralogical point of view the LACROIX parameter shows that they are of the -Basalts: II-5-3-(4)5 with An%=55% and 2.2% of virtual quartz or those - Andesite. II-4(5)-3-4 with An%=35% and 7.0% of quartz.

The porphyric basalts are only seen in the upper zones of the Rumpis (towards Itoki and Dikome Balue, where it is uniquely Labradorite without Olivine.

Only in the former case it formed a Hawaiians or Strombolian shield entirely modified, with an exception of a trachytic vein lets.

C- LACUSTRAL FORMATIONS LINKED TO FORMER VOLCANISM:

There exist small sedimentary basins associated to the basalts. The most important presents from top to bottom, on top of very weathered granite:

- A conglomeratic tuff surmounted by an acid cinerite;
- Schist - clay, mica-sand, enclosing clays more or less rich in carbon and very impure coals;
- Sand and sandstones.

The whole is surmounted by a basalt which protects the sediments.

It is probable that there exist other formations of this type on the upper plateau, also on the Rumpi mountains and in particular in the Mana basin (small coal blocks in alluvium at Ndian).

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D - ULTIMATE PLUTONIC ROCKS:

D.I: HILL EAST OF NDIAN:

A hill East of Ndian is composed of hyperalkaline microsyenite with rare interstitial quartz-perthitic Orthose-Aegyrine transformed in Chlorite and Calcite-Lepidomelane.

D.II: MASSIVE SOUTH-WEST OF THE RUMPIS:

It was posteriorly discovered at the end of cartography work, and is signaled like essentially gabbroic. It's position at the middle of the Rumpi subduction (Caldera?) is remarkable

E - STRUCTURAL AND TECTONIC SKETCH:

E.I: TERTIARY TECTONICS:

The West limit of the Rumpi mountain: separating the plagioclase gneiss domain from that of basalts, exist and fractured mylonitised zone, sensibly orientated N25° East. The mylonites are crossed by trachyte veins. In the North, the edge of the basaltic plateau turns.

Probably a portion of the deformed tectonics is posterior to basalts, because the basaltic plateaus of the region is the Rumpi mountain which was affected by fractures. his possible that the pyroxysme of the tectonics is linked to the trachytic volcanism.

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V- MINERALISATION INDICES OF THE NDIAN REGION AND ITS ENVIRONS

Several mineralizations have been mentioned (Laplaine, 1968 and 1969).

The mineral indices are as follows:

- 1- Some gold (Au) indices have been reported in the Kita Balue, Iwassa Ngolo, Ayundep, Bani and Bakut Gueisses;
- 2- Rutile in the Madie stream around Dikome Ngolo.;
- 3- Sapphire Gemstones in the Madie and the Munaya streams;
- 4- Potassium salt;
- 5- Rub is Gemstones associated to chrysoberyls;
- 6- Coal along the Rumpis and in the Mana basin and Ikassa;
- 7- Lead - Zinc Bakut
- 8- Gamet and Spinel around Isoki Ngolo
- 9- Limestone in the Mana basin
- 10- Lead (West of the Kumba - Mamfe road junction and at Munaya).
- 12- Black Tourmaline
- 13- Ilmenite
- 14- Gorceixite
- 15- Scheelite (in the Anatexies granites and the plagioclase Gneiss);

These mineral indices could constitute the subject of an Exploitation, as well as the basement formations, Ornamental (Dimension) stones widely used in construction and decoration today).

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APPLICATION FOR AN EXPLORATION PERMIT FOR PRECIOUS STONES (DIAMOND, SAPPHIRE, RUBIS, EMERALD, OPAL, TOPAZ, TOURMALINE etc), PRECIOUS MINERALS AND METALS (GOLD, LEAD, COPPER, SILVER, RUTILE, KYANITE, IRON ORE etc), RADIOACTIVE SUBSTANCES (URANIUM, COBALT – NICKEL etc.) AT MIANGWE II PERMIT.

OBJECTIVES OF WORK PROGRAM

The objective of the work program to be carried out within the framework of the exploration license being sought for is to determine the sapphire and associated minerals potential of this part of the territory.

The proposed work program for the three-year duration of the license is as follows:

Year 1: Desk study and orientation survey

- Desk study/compilation: Literature and map study, geologic environments, past exploration in the region, preliminary interpretation of existing aerial photographs, satellite images, aeromagnetic and interpretation of other airborne geophysical maps available;
- Orientation survey: to check up on the desk studies and ideas generated during the desk studies.

Year 2: Follow-up exploration

Year 3: Feasibility study

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**APPLICATION FOR AN EXPLORATION PERMIT FOR PRECIOUS
STONES DIAMOND, SAPPHIRE, RUBIS, EMERALULD, OPAL,
TOPAZ, TOURMALINE etc), PRECIOLS MINERALS AND METALS
(GOLD, LEAD, COPPER, SIL VER, RUTILE, KYANITE, IRON ORE
etc), RADIOACTIVE SUBSTANCES (URANIUM, COBALT - NICKEL
etc.) AT MIANGWE II PERMIT.**

Undertaking to fulfill Work Program

I, the undersigned, **AITKINS DISONGE ELTON** hereby solemnly and respectfully undertake to ensure the timely and full completion of the Exploration Work Program as presented and approved by the Cameroon Ministry of Industry, Mines and Technological Development.

I am aware that these obligations form a binding legal undertaking.

EDOCAM & SONS COMPANY LTD

AITKINS DISONGE ELTON

GENERAL MANAGER

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REPUBLIC OF CAMEROON, Tel. 00237 33 35 47 69 /79 86 05 43 /79 53 99 75 E-mail info@edocamsons.com

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STONES (DIAMOND, SAPPHIRE, RUBIS, EMERALD, OPAL,
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Reporting schedule (on the basis of Application Granted on the
..... /..... /2011).

Q1 Q2 Q3 Q4

2011 Six mot h 1 June November

Yearly

2012 Six month June November

Yearly

2013 Six month June November

Yearly

2014 Six month June November

Yearly

Start of permit 1 June

Half year report November

Annual report June

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Exploration work progamme for the MIANGWE II PERMIT

Description 1 2 3 4 5 6 7 8 9 10 11 12

Alluvionary prospection

Heavy mineral co ncentrat io n

Sampling and analysis

Geochemistry

Geological cartography

Stream surveys

Description of geological

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Exploration work Budget for the MIANGWE II PERMIT

Description	Total (MFCFA)	1	2	3	4	5	6	7	8	9	10	11	12
		June 2011	July 2011	Augus. 2011	Sept. 2011	Oct. 2011	Nov. 2011	Dec. 2011	Jan. 2012	Feb. 2012	Mar. 2012	Apr. 2012	May 2012
Alluvionary prospection													
Heavy mineral concentration													
Sampling and analysis													
Geochemistry													
Sub-total													
Geological cartography													
Stream surveys													
Description of geological formations													
Sub-total													
Grand-Total													

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Typical report fo rmat

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■ LICENSE NAME

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