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1.0 SUMMARY

Micon International Limited (Micon) was retained by Cerrado Gold Inc. (Cerrado) to visit the Monte do Carmo project in Tocantins State, Brazil and to comment on the prospectivity of the project. After the site visit Cerrado decided to commission a National Instrument 43-101 (NI 43-101) Technical Report describing the history and work completed to date and recommending an exploration program and budget to support the listing of Cerrado on a Canadian stock exchange, as well as a financing.

Micon does not have, nor has it previously had, any material interest in Cerrado or related entities or interests. The relationship with Cerrado is solely a professional association between the client and the independent consultant. This report is prepared in return for fees based upon agreed commercial rates and the payment of these fees is in no way contingent on the results of the report.

This report includes technical information which requires subsequent calculations or estimates to derive sub-totals, totals and weighted averages. Such calculations or estimations inherently involve a degree of rounding and consequently introduce a margin of error. Where these occur, Micon does not consider them to be material.

This report is intended to be used by Cerrado, subject to the terms and conditions of its agreement with Micon. That agreement permits Cerrado to file this report as a National Instrument 43-101 Technical Report with the Canadian Securities Regulatory Authorities pursuant to provincial securities legislation. Except for the purposes legislated under provincial securities laws and for the reliance on the report by the TSX or TSXV, any other use of this report, by any third party, is at that party's sole risk.

The conclusions and recommendations in this report reflect the author's best judgment in light of the information available at the time of writing. The author and Micon reserve the right, but will not be obliged, to revise this report and conclusions if additional information becomes known to them subsequent to the date of this report. Use of this report acknowledges acceptance of the foregoing conditions.

1.1 THE PROPERTY

The Monte do Carmo Gold Project is located in the State of Tocantins, Brazil, immediately east of the town of Monte do Carmo. The Serra Alta deposit, the main focus of exploration at the project, is located at 10° 45' 4" south latitude and 48° 4' 20." west longitude. Monte do Carmo (7,700 inhabitants) is located 39 km east of the city of Porto Nacional (55,000 inhabitants). Porto Nacional is 50 km (60 km by road) south of the state capital of Palmas (250,000 inhabitants) and 760 km north of Brasilia, the federal capital. (Figure 1.1)

The Monte do Carmo project consists of five concessions as shown on Figure 1.2. The principal mineralized targets at the project are also shown on that figure. The concessions

are currently held by Monte Sinai Mineração Ltda. (MSM) but are subject to an agreement with Cerrado, discussed in Section 4.3 below.

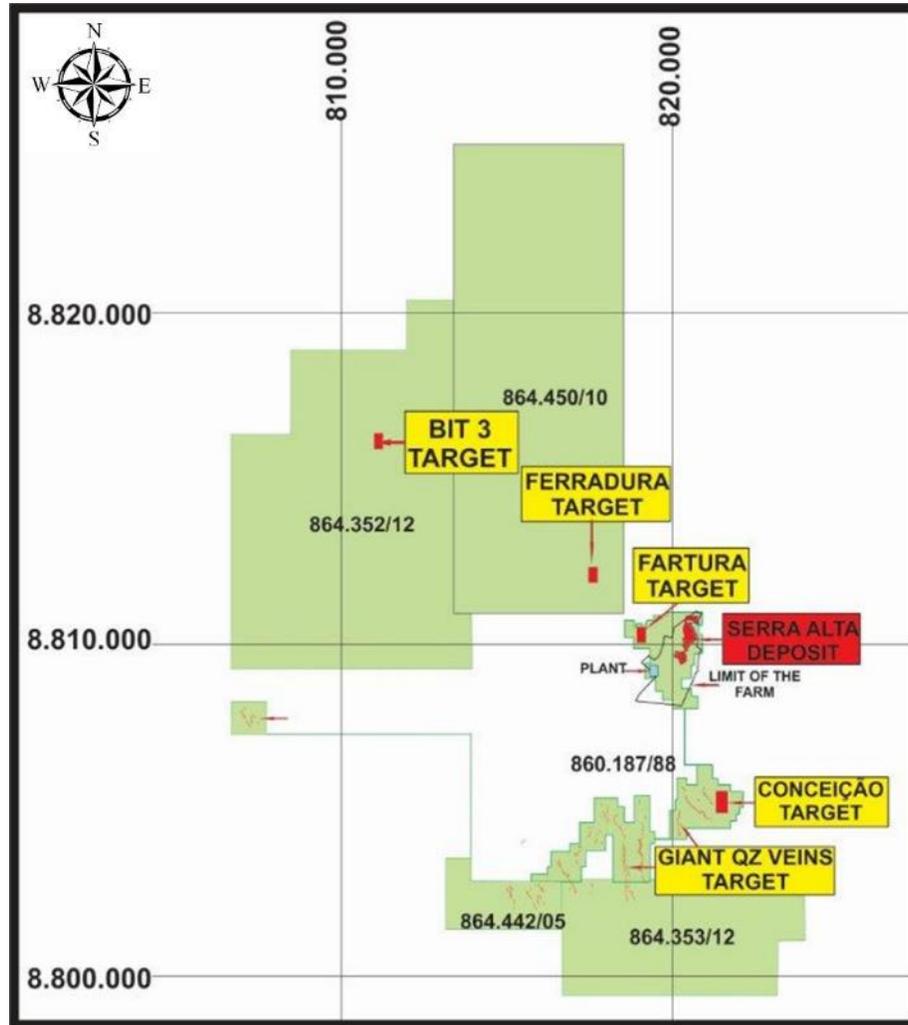
Cerrado’s agreement with MSM also includes an exploration concession in Minas Gerais state, Brazil called the Morro Vermelho project. This report concerns the Monte do Carmo project. Morro Vermelho is not part of the Monte do Carmo “mineral project”, as that phrase is defined in NI 43-101, and will not be discussed in this report.

Figure 1.1
Project Location Map



Source: MSM, 2018.

Figure 1.2
Concessions and Principal Exploration Targets



Source: MSM 2018. Scale on map grid.

1.2 GEOLOGY

The regional geology of the Monte do Carmo area is characterized by a volcano-sedimentary sequence of Upper Proterozoic age, intruded by a large granite body of Lower Proterozoic age. The gold mineralization at Serra Alta is associated with a granite cupola. It is interpreted to fit into the Intrusion Related Gold System style of mineralization, very similar to the Fort Knox Deposit, Alaska, USA.

Serra Alta gold mineralization is associated with hydrothermally altered and sheared granitic rocks with quartz vein and veinlet swarms, moderately rich in sulphides (pyrite, galena, sphalerite and chalcopyrite). Other gold mineralization in the region is often hosted in single large quartz veins within fractures (the Giant Quartz Veins target).

The mineralized granite is overlain by a quartzite (yellow unit in Figure 1.3) which caps the cupola. A much younger sequence of flat lying red bed sediments (light brown unit in Figure 1.3) overlies the quartzite. The quartzite and red beds form cuestas (mesa-like features) several hundred metres high and will likely limit any push back of a pit wall to the east.

The Giant Quartz Veins are located about 5 km south of Serra Alta in the same granite body. Twenty-four of these veins have been mapped. Their width varies from just under a metre to several metres.

1.3 EXPLORATION HISTORY

It is understood that gold was originally discovered in the Monte do Carmo area during the 17th century. At this time early explorers and developers known as bandeirantes were opening up the interior regions of Brazil, often using river access on major waterways such as the Tocantins River. They used slave labour to recover gold, mostly from alluvial and weathered saprolitic rocks. Bandeirante workings are found at Serra Alta.

During the 1980s the area experienced an influx of artisanal gold miners (garimpeiros) motivated by the recent rise in gold prices. MSM staff report that over 2,000 garimpeiros were working around Monte do Carmo at the time. Serra Alta was a major focus of garimpeiro activity. These informal miners were ultimately compensated and moved off the concessions. No garimpeiro activity was occurring on the Serra Alta concession at the time of Micon's site visit. Modest scale artisanal mining was still active on some of the "Giant Quartz Veins" and was viewed by Micon during the site visit.

No reliable records exist for the total gold production by the bandeirantes and garimpeiros, however, the local historical workings (pits and tunnels) at Serra Alta are extensive. The white patches on Figure 1.3 show the location of mapped bandeirante and garimpeiro workings at Serra Alta.

1.3.1 Modern Exploration

Modern exploration in the area commenced in 1985 with work by Verena Mineração Ltda. (VML) and related companies. VML was incorporated in 1986 by the current directors of MSM to explore for gold in Tocantins State, particularly in the region of Porto Nacional and Monte do Carmo.

Investments in mineral exploration, by entities other than Cerrado, is reported to have amounted to US\$4.7 million from 1985 through 1995, and over US\$20.0 million from 1996 to date. Most of the investment was applied in the Monte do Carmo Project area with many known occurrences of gold.

Modern exploration work targeted many regional targets but concentrated on the Giant Quartz Veins, and, in particular, on the Serra Alta deposit.

The total number of holes drilled and assayed, at and around the Monte do Carmo project, as of the data-freeze date of this report (April 11, 2018) are set out in Table 1.1

Drilling, and exposures from mining, at the Serra Alta deposit have demonstrated a wide, hydrothermally altered and gold-mineralized zone about 300 m wide with approximately 1,500 m of strike length, as demonstrated by the bandeirante and garimpeiro workings shown as white patches in Figure 1.3. The zone is a corridor which contains individual veined, mineralized shoots generally striking N10° to 30°W, dipping 60° to 80° SW with a plunge at 12° to 15°SE.

At the time of Micon's site visit, MSM and Cerrado geologists were discussing the possible interpretation of three distinct sub-corridors or trends of mineralization within this wider corridor. There are exposed bedrock sources of veining on the eastern side up against the cuesta wall. Extensions of the sheared granite cupola mineralization on the eastern side, under the quartzites, have been confirmed by drilling.

1.4 HISTORICAL RESOURCE ESTIMATES

There are no known mineral resource estimates for the Monte do Carmo project which have been prepared prior to the acquisition of the project by the current concession holder, MSM. An in-house estimate of resources has been prepared by a consultant to MSM (Geoprocess, 2011). This estimate is not considered to be NI 43-101 compliant and has not been reviewed by Micon. As the project concessions are still owned by MSM it is not disclosed here.

1.5 PRODUCTION HISTORY

From 2012 to August, 2017, MSM, in partnership with the Paranaense Group from Parana State, invested approximately US\$4.5 million in infrastructure and a bulk sampling gravity plant at Serra Alta which processed about 60,000 tons of ore and is reported to have produced 2,923 oz of gold. Micon has not verified any of the production claims made by MSM.

Table 1.1
Monte do Carmo Project, Historical Drilling Summary

Targets	Cerrado		Verena		Parapanema		Kinross		Rio Tinto		Total Metres	Total Holes
	Metres	No. Of Holes										
Serra Alta	3,367.87	31	449.90	5	2,713.57	31	3,083.30	17	0.00	0	9,614.64	84
Giant Qtz Veins	0.00	0.00	0.00	0	1,061.05	17	436.90	4	3,876.30	53	5,374.25	74
Capitão	0.00	0.00	0.00	0	0.00	0	1,085.95	9	0.00	0	1,085.95	9
Bit-3	0.00	0.00	1,924.00	14	0.00	0	0.00	0	0.00	0	1,924.00	14
Ferradura	1,286.65	8	0.00	0	0.00	0	0.00	0	0.00	0	1,286.65	8
Eduardo	286.64	4	0.00	0	0.00	0	0.00	0	0.00	0	286.64	4
Total	4,941.16	43	2,373.90	19	3,774.62	48	4,606.15	30	3,876.30	53	19,572.13	193

1.6 INTERPRETATION AND CONCLUSIONS

1.6.1 Giant Quartz Veins - General

One of the Giant Quartz Veins visited by Micon, the Verena vein, was being actively mined by at least three groups of garimpeiros at the time of Micon's visit. They were using small crushers and grinding machines, recover the gold. The other veins visited were not being actively mined but had been within the last decade or so.

Total mineralized widths were generally 1 to 4 m at the workings visited, although locally they could be somewhat higher. Distances between the veins were typically at least 300 to 400 m and occasionally in excess of 1 km.

At Verena and Magalhaes 1, two of the three large quartz veins visited by Micon, the grade of the veins is believed to be low, estimated at about 2 g/t Au by MSM staff. However, the sheared wall rock on either side is reported to be of much better grade and the garimpeiros preferentially process only that material. MSM personnel estimate that the grade of the wall rock must be at least 7 to 8 g/t Au for the garimpeiros to operate successfully.

Grades of the quartz veins are reported to be too low for the garimpeiros to process. Total grade over the full mineralized width (vein plus sheared wall rock) is partially a function of the vein width, which is effectively internal dilution. The wider the quartz vein, the lower the overall grade.

Total tonnage potential at each vein is likely to be relatively low and the distance between veins will make it difficult to fully share infrastructure should mining commence. Small-scale open pits may be possible with ore trucked to a central location. Mercury contamination from previous garimpeiro operations may also be an issue.

Given the above, Micon concurs with Cerrado's decision to concentrate exploration effort on the Serra Alta deposit where the potential for size is considered to be much greater.

1.6.2 Serra Alta - General

Traversing the Serra Alta portion of the property to visit mineralized exposures, Micon was struck by the extensive development of historical mine workings (bandeirante workings), more recent garimpos and the small open pits completed by MSM. The historical workings are reported to date back over 200 years. The garimpeiros were reportedly bought out a number of years ago and have moved on. No activity is occurring on the property other than that conducted by Cerrado and/or MSM.

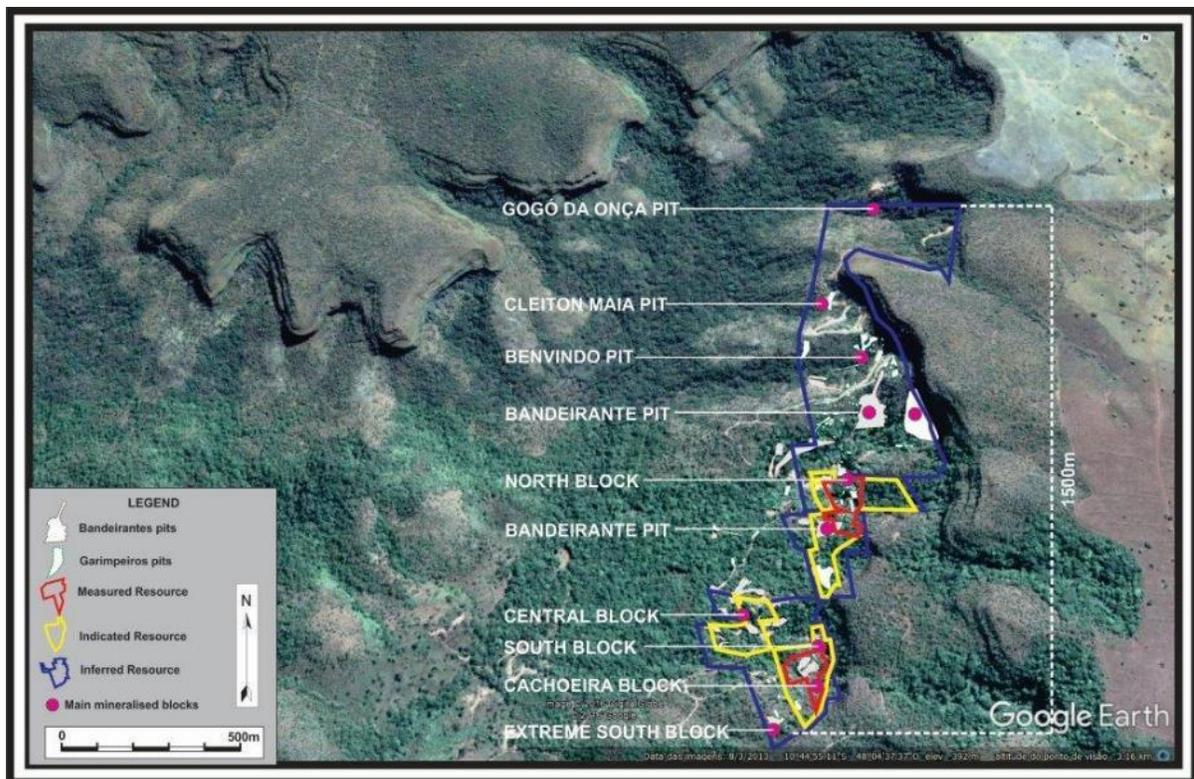
The white patches in the pink granite of Figure 1.3 are the mapped positions of the bandeirante pits and garimpos. Except for the Gogó da Onça pit in the far north, the mapped garimpos stop at the Cleiton Maia pit (Figure 7.4 and 1.1). During the site visit, it was clear

that they extended beyond this, close to the north property limit. They appear over a width of at least 200 m, and possibly 300 m, and a strike length of at least 1,500 m. Within this corridor, MSM and Cerrado geologists have interpreted three distinct sub-corridors or trends of mineralization. It is possible that the far western trend is composed largely of colluvium shed from the slope and has no immediate bedrock source. However, there are large exposed bedrock sources of veined and altered granite on the eastern side.

Clearly a large amount of mining work, over a wide area, mostly by hand, has been completed at this location over a long period of time. Intuitively this leads to the conclusion that the recovered gold was sufficient to justify the significant effort and expense for that much activity. It is Micon’s opinion that this justifies the expense of an exploration program to test the true grade, depth and width of the mineralization.

The true width of the sub-corridors does not seem to be currently well defined. Figure 1.4 shows the principal pits and zones at Serra Alta.

Figure 1.4
Satellite Photo of Serra Alta Showing Principal Pits and Zones



Source: MSM 2018.

1.6.3 Conclusions

Serra Alta is an interesting gold exploration project with a long history of artisanal mine workings and exposures over significant widths and strike length. The deposit is open along

strike in both directions and down dip. The possibility exists that more mineralization will be found under the quartzite and red bed sediments to the immediate east of the known mineralization. However, grades there will likely need to justify underground mining due to the significant amount of waste stripping which would be required for an open pit mine.

It is Micon's opinion that further exploration is justified.

The Giant Quartz Veins to the south are rather small tonnage targets and are unlikely to support a mining and milling operation on their own. However, should a mill be built at Serra Alta, they may contribute some mill feed.

The exploration work carried out at Serra Alta is generally being done to accepted industry standards. A few minor recommendations have been made.

1.7 RECOMMENDATIONS

1.7.1 Site Visit Recommendations

In addition to continued exploration at Serra Alta, Micon makes the following recommendations:

- Map the location of the last of the garimpo/bandeirante pits at the north end of the trend and update the map shown in Figure 7.4. This is a useful figure to demonstrate the scale of the mineralized body at Serra Alta.
- As the Serra Alta project site has a Licence of Operation for a small scale mine and mill, valid until 2020, Cerrado may wish to consider collecting and processing a bulk sample of Serra Alta mineralized granite. Suitable head and tail sampling should be completed so that a metallurgical balance and true head grade can be calculated.
- Eventually Cerrado should consider switching to electronic core logging, directly to tablets or laptop computers, rather than to paper. There is the potential for error in the required follow up transcription of logs.
- Put multiple columns in the database for first assay and reassays along with a final "accepted assay" column to be used for resource estimation. Maintain a log book of all requested reassays and the reasons for them. This will create an audit trail for any eventual resource review prior to financing mine construction.
- Reassay all Paranapanema (PNP) core by screen metallics fire assay using the full remaining half core, after photographing and relogging it. This will result in the loss of the physical core record for those holes but there will be many other newer holes kept to demonstrate the local geology. If the Atomic Absorption Spectroscopy (AAS) assays performed by PNP are to be considered unreliable then the core is currently of limited value. Assaying it rather than re-drilling the holes will save more than

US\$2.5 million dollars in drill costs. For the intervals already reassayed by ¼ sawn core the coarse reject could be retrieved and mixed with the other quarter core.

- The current blank material being used in the Quality Assurance/Quality Control program is reported to be a dirty limestone from a nearby quarry. This should be switched to a quartz, or unmineralized granite, blank which will react to the assay flux in a more similar manner to the local granite mineralization. It will also clean the sample preparation equipment more effectively, thereby identifying gold carry over between samples.
- The data package for the Canadian Resource Laboratory (CRL) standards came with two sets of round robin assays, one with AAS finish and one with gravimetric finish. They each had a slightly different standard deviation (SD) which is used to establish the failure lines on the control charts. CRL should be contacted to find out which accepted value and SD to use with screen metallics assays, AAS or gravimetric.
- Contact SGS and find out what their sample batch size is and how many positions in it are available to the client. Then submit Cerrado samples in batches to be analyzed together thereby controlling the location of the QA/QC samples and ensuring that Cerrado samples are not mixed in a batch with another company's.
- Spot check the Kinross data entry to the electronic database from the original assay certificates.
- Get specific gravity measurements for all major rock types, not just the mineralized granite. These will be needed for pit optimization after resource estimation.
- Eventually, should Serra Alta become an advanced project, consideration should be given to making matrix-matched CRMs from local mineralization.

It is noted that some relogging of Kinross core may be required to fit into the alteration modelling codes being implemented by Cerrado.

Micon supports the idea of using LeapFrog Geo software to model the alteration and grade shells.

1.7.2 Serra Alta Exploration Program and Budget

Cerrado has initiated an exploration program designed to confirm and expand the gold mineralization at Serra Alta and to follow up favourable targets from earlier programs. This includes definition drilling and expansion of the areas north, south and along strike of what is referred to as the North Block and South Block and the areas between the blocks. Also included is the follow up of favourable targets of earlier exploration programs with channel sampling, detailed geological mapping, and sampling of the extensive garimpeiro workings.

Part of this program focuses on investigating the area between the North Block and the area immediately north, for a strike length of 800 m.

The area between the North and South Blocks is the focus of the drill program in order to explore for additional mineralization along strike, both north and south from the known areas at Serra Alta, as well as those areas in between. The ultimate goal is to produce a database suitable for mineral resource estimation. A program comprised of 7,000 m of drilling has been proposed and is in progress.

A total budget of \$2,143,000 is proposed for the recommended 2018 exploration program as set out in Table 1.2 below. It is anticipated that this work will be completed in the next four to five months. An additional \$3,071,000 is budgeted for debt repayment conditions outlined in Section 4.3.

1.7.2.1 Exploration Budget

The proposed exploration program budget for Serra Alta is summarized in Table 1.2 below.

Table 1.2
Proposed 2018 Serra Alta Exploration Budget

Activity	Amount	Unit Cost (US\$)	Cost (US\$)
Contract diamond drilling (including mob/demob, camp costs and related items.)	7,000 m NQ-size drilling	90/m	630,000
Certified reference materials			4,000
Assay costs, including reassy of old core	8,900 samples	30.00/sample	267,000
Freight			18,000
Trenching, mapping and other prospecting			90,000
Staff			425,000
Office expenses			12,000
Vehicle rental, fuel			270,000
Meals, hotel etc.			70,000
Contingencies @ 20%			357,000
Total exploration budget			2,143,000
Debt payments of previous owners (integrated in the Acquisition Agreement)			3,071,000
Grand Total			5,214,000

Micon has reviewed the proposed exploration program and finds it to be reasonable and justified. Should it fit with Cerrado's strategic goals, it is Micon's recommendation that the company conduct the proposed exploration program.

2.0 INTRODUCTION

Micon International Limited (Micon) was retained Cerrado Gold Inc. (Cerrado) to visit the Monte do Carmo project in Tocantins State, Brazil and to comment on the prospectivity of the project. After the site visit Cerrado decided to commission a National Instrument 43-101 (NI 43-101) Technical Report describing the history and work completed to date and recommending an exploration program and budget to support the listing of Cerrado on a Canadian stock exchange, and a financing.

The concessions at the project are currently held by Monte Sinai Mineração Ltda. (MSM) but are subject to a binding letter of intent for Cerrado to acquire them.

This report has been prepared using data and reports provided by MSM and Cerrado's exploration staff in Brazil. These reports and data sources are summarized in the Appendices to this report.

The focus of Cerrado's exploration efforts at Monte do Carmo is the Serra Alta deposit and this report will concentrate on that.

B. Terrence Hennessey, P.Geo., of Micon, travelled to Brazil and visited the Monte do Carmo project and MSM's offices in Tocantins State during the period February 26 to March 2, 2018, to review the exploration activities, geology and mineralization. The visit was made in the company of Mr. R. A. Campbell and Mr. Kurt Menchen. This was Micon's first visit to the site.

Mr. Hennessey is a Professional Geoscientist registered in Ontario. He has over 35 years of experience in mineral exploration, mine operations, resource estimation and consulting. Mr. Hennessey is a Vice President of Micon and the principal author of this report. The author is a Qualified Person and independent of Cerrado as defined by NI 43-101.

All currency amounts in this report are stated in US or Canadian dollars (US\$, CDN\$), as specified, with commodity prices generally in US dollars (US\$). Quantities are generally stated in SI units, the Canadian and international practice, including metric tons (tonnes, t), kilograms (kg) or grams (g) for weight, kilometres (km) or metres (m) for distance, hectares (ha) for area, litres (L) for volume and grams per tonne for gold (g/t Au) and silver (g/t Ag) grades. Historical production information may be presented using the Imperial system of measurement. Base metal grades are usually expressed in weight percent (%). Geochemical results or precious metal grades may be expressed in parts per million (ppm) or parts per billion (ppb). (1 ppm = 1 g/t). Elevations are given in metres above sea level (masl). Precious metal quantities may also be reported in troy ounces (ounces, oz), a common practice in the mining industry.

Micon is pleased to acknowledge the helpful cooperation of Cerrado's management and field staff, all of whom made any and all data requested available and responded openly and helpfully to all questions, queries and requests for material.

Micon has reviewed and analyzed data provided by Cerrado, its consultants and previous operators of the property, and has drawn its own conclusions therefrom, augmented by its direct field examination. Micon has not carried out any independent exploration work, drilled any holes or carried out any sampling and assaying on the property.

While exercising all reasonable diligence in checking, confirming, and testing it, Micon has relied upon Cerrado and MSM's presentation of the project data from previous operators and from Cerrado and MSM's mining and exploration experience at the Monte do Carmo project in formulating its opinion.

The descriptions of geology, mineralization and exploration are taken from reports prepared by various companies or their contracted consultants. The conclusions of this report rely on data available in published and unpublished reports, information supplied by the various companies which have conducted exploration on the property, and information supplied by Cerrado and MSM. The information provided to Cerrado was supplied by reputable companies and Micon has no reason to doubt its validity.

The figures and tables for this report were largely reproduced, or derived, from reports written for Cerrado. Where the figures and tables are derived from sources other than Micon, the source is acknowledged below the figure or table.

3.0 RELIANCE ON OTHER EXPERTS

The various agreements under which Cerrado holds title to the mineral lands for this project have not been thoroughly investigated or confirmed by Micon and Micon offers no opinion as to the description of, or validity, of the mineral title claimed. The description of the property has been presented here for general information purposes only, as required by NI 43-101.

Micon is not qualified to provide professional opinion on issues related to mining and exploration title and land tenure, royalties, permitting and legal and environmental matters. The author has accordingly relied upon the representations of the issuer, Cerrado Gold Inc., as well as Monte Sinai Mineração Ltda., for Section 4 of this report and has not verified the information presented in that section.

4.0 PROPERTY DESCRIPTION AND LOCATION

4.1 LOCATION

The Monte do Carmo Gold Project is located in the State of Tocantins, Brazil, immediately east of the town of Monte do Carmo. The Serra Alta deposit, the main focus of exploration at the project is located at 10° 45' 4" south latitude and 48° 4' 20." west longitude. Monte do Carmo (7,700 inhabitants) is located 39 km east of the city of Porto Nacional (55,000 inhabitants). Porto Nacional is 50 km (60 km by road) south of the state capital of the Palmas (250,000 inhabitants) and 760 km north of Brasilia, the federal capital (Figure 4.1).

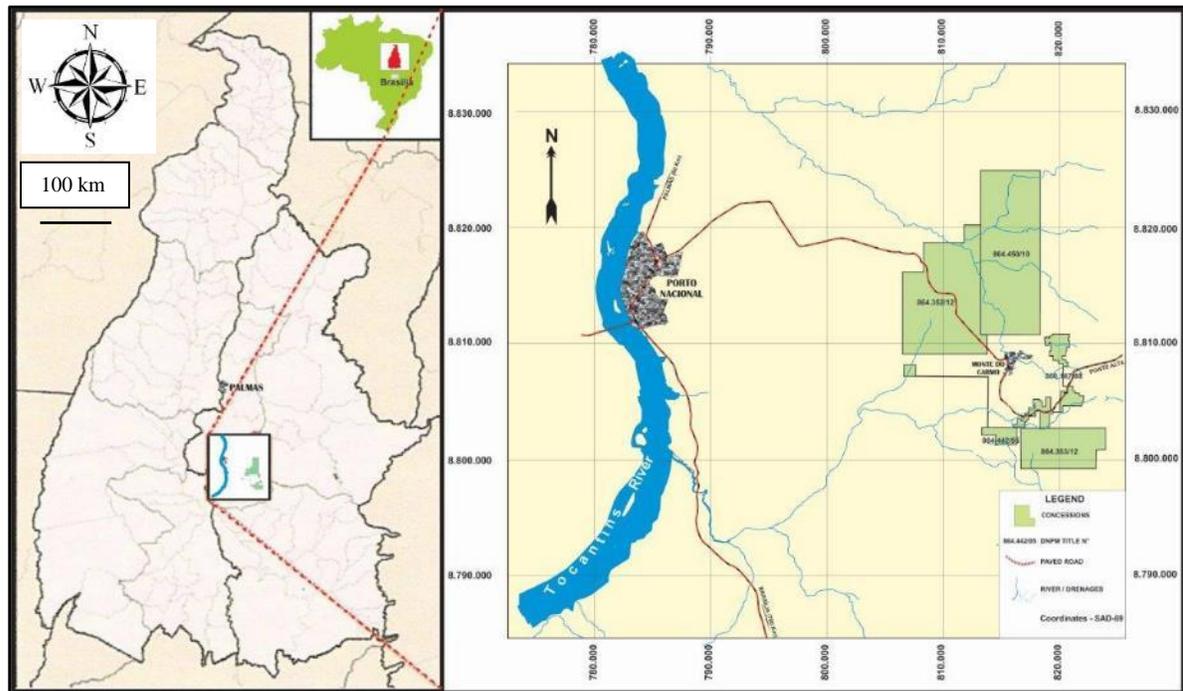
Figure 4.1
Tocantins State Location Map



Source: MSM 2018

Figure 4.2 shows the local details of the Monte do Carmo project location.

Figure 4.2
Monte do Carmo Project Location Map



Source: MSM 2018. Scale on map grid.

Elevation in the vicinity of the town of Monte do Carmo varies between approximately 300 and 600 m above sea level.

4.2 CONCESSIONS

The Monte do Carmo project consists of five concessions as shown in Table 4.1 and on Figure 4.3. The principal mineralized targets at the project are also shown on Figure 4.3. The concessions are currently held by MSM but are subject to an agreement with Cerrado, discussed in Section 4.3 below.

Cerrado's agreement with MSM also includes a concession in Minas Gerais state, Brazil, the Morro Vermelho project, as shown in Table 4.2. This report concerns the Monte do Carmo project. Morro Vermelho is not part of the Monte do Carmo "mineral project", as that phrase is defined in NI 43-101, and will not be discussed further in this report.

Registration of mining and exploration concessions is controlled by National Department of Mineral Production (DNPM) now known as the National Mining Agency (ANM).

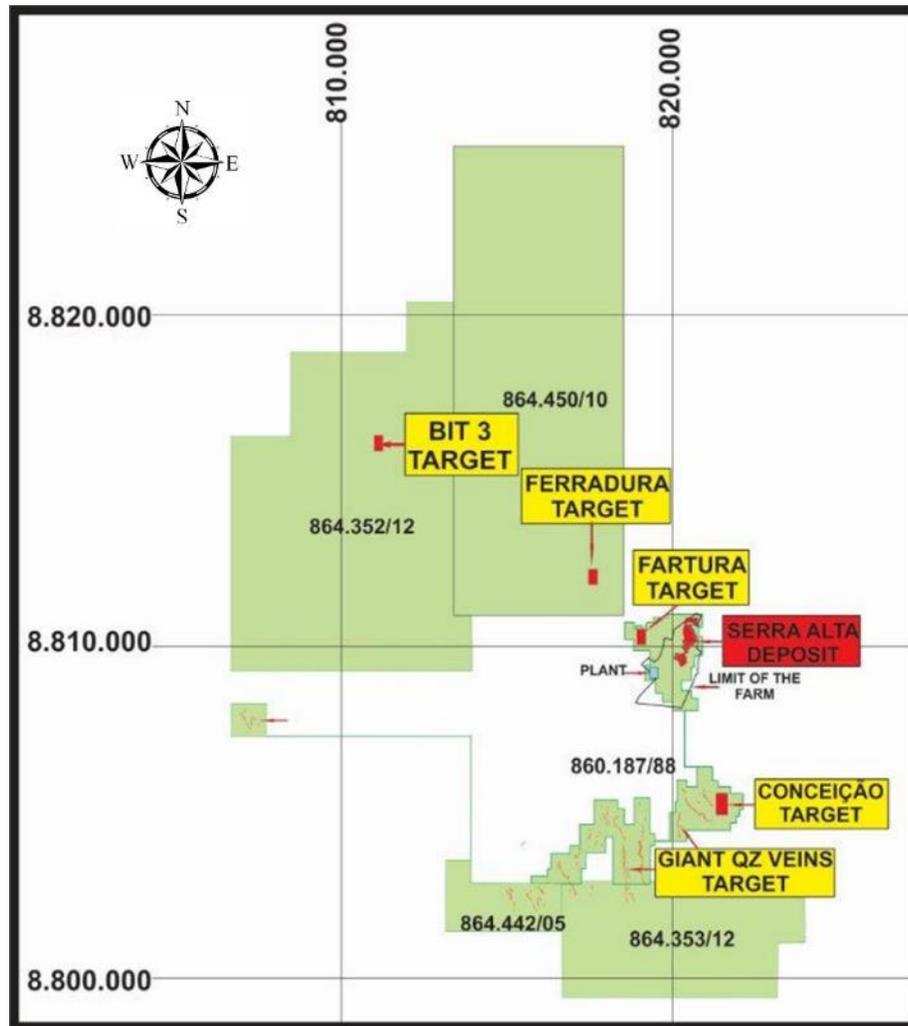
Table 4.1
Monte do Carmo Project Concessions

ANM N°	Claim Date	Area (Ha)	Alvará N°	Alvará Date D.O.U.	End Date Of The Alvará	Owner	Annual Tax Due Date	Targets	Observations
860.187/88	01/03/1988	1,006.80	11,124	07/07/2009		MSM		Serra Alta, Conceição Giant Qtz Veins, Fartura	Final report approved March, 2017
864.442/05	07/11/2005	478.00	9,239	08/09/2009		MSM		Giant Qtz Veins	Final Report approved March, 2018
864.353/12	12/09/2012	2,420.12	1,691	24/02/2016	24/02/2019	MSM	31-Jul	Giant Qtz Veins	Concession
864.352/12	12/09/2012	6,374.13	1,690	24/02/2016	24/02/2019	MSM	31-Jul	Bit-03	Concession
864.450/10	03/08/2010	7,034.92	16,921	13/01/2015	13/01/2018	MSM	31-Jul	Ferradura	Concession Renewed
Total		17,313.97							

Table 4.2
Morro Vermelho Project Concessions

ANM N°	Claim Date	Area (Ha)	Alvará N°	Alvará Date D.O.U.	End Date Of The Alvará	Owner	Annual Tax Due Date	Observations
832.626/13	29/08/2013	1,999.46	14,260	13/11/2015	13/11/2018	MSM	31-Jan	Concession
Total		1,999.46						

Figure 4.3
Concessions and Exploration Target Locations



Source: MSM 2018. Scale on map grid.

Brazil has a straight forward and transparent system for issuing exploration permits. It can be accessed on line at: <http://www.anm.gov.br/assuntos/ao-minerador/cadastro-mineiro>.

A company can apply for any property on line but the priority of application is only guaranteed when its physical filing occurs and a protocol number is issued.

When a property application is made, the ANM records a number for the application (e.g. 864.442/2005), which will then await approval (usually about 3 months). If the application is all in order, it will be approved and published in the Official Gazette (DOU), which has a unique sequential number (Alvará, e.g. 9,239). Once published in the DOU, the application becomes a permit, and its first 3-year period begins to run. For the next 3 years annual fees will be charged and exploration is permitted. Sixty days before the third-year expiry date a request for extension can be made, which must be supported by a technical report.

The extension may be granted in approximately one to two years, usually for an additional 3-year period, although sometimes less. For this reason good communications with ANM is paramount.

At the end on the sixth year of valid title, and before the final day, a company must submit a Final Project Report. Once the Final Report has been approved by the ANM (which is also published in the DOU) they have accepted that a potentially viable deposit has been discovered on that property. The company then has a term of one year to submit an Economic Assessment of the Project (PAE, which is similar to a Preliminary Economic Assessment under NI 43-101). In the case of concessions 860.187/88 and 864.442/05 from Table 4.1 the PAE was submitted in March, 2018. Once the PAE has been approved by the ANM, a company may then request the Final Mining Lease, which is also issued by ANM.

After the mining lease is granted a company has to submit a simplified production report every year, or it may ask for an extension to the mining lease, providing a reason for not being in production. Mining leases have no time limit.

Production taxes are payable on mining leases. The gold tax is now 1.5% of net revenue. An additional royalty of 0.75% is paid to the land owner. In the case of Serra Alta the land owner is MSM.

4.3 AGREEMENTS

The Monte do Carmo project is subject to an acquisition deal between Templewood Capital Inc. (TCI, now renamed Cerrado Gold Inc.) and MSM, a private Brazilian company. The deal is structured as follows:

1. TCI is a Canadian company which, through its wholly owned Brazilian subsidiary, Templewood Oportunidades Participações Societárias Ltda., entered into a binding agreement, through a letter of intent (LOI), to acquire certain exploration titles/mining rights, land properties, processing equipment and buildings from MSM. The transaction is to be further be consolidated in an appropriate Acquisition Agreement which is still pending at the time of writing of this report. The LOI was agreed to and signed on September 25, 2017 with an original expiration date of October 25, 2017, which was later extended to June 18, 2018.
2. The exploration titles and mining rights, as registered at the ANM are: 860.187/88, 864.442/05, 864.353/12, 864.450/10 and 864.450/10, all held by MSM and located in the state of Tocantins, are known as the Serra Alta Project. An additional exploration concession, 832.626/13, located in Minas Gerais State is also included.
3. TCI is committed to raise US\$2,000,000 to cover initial outstanding liabilities, on the order of US\$3,000,000, at the project.

4. In connection with the US\$2,000,000.00 funding TCI will issue an aggregate of 24,000,000 shares representing 100% of TCI's issued and outstanding shares. Fifty percent of this amount will be transferred to MSM interest holders in exchange for the titles referred to above, the properties, assets and the assumption of the liabilities of MSM.
5. TCI, in connection with the acquisition terms, shall raise an additional US\$5,000,000 within twelve months of the signing of a definitive Acquisition Agreement to continue the exploration activities set out in the LOI and paying the outstanding liabilities.
6. A 2% net smelter return royalty is granted to MSM, with a right of repurchase of 1% by Cancap Investment Ltd. in exchange for US\$3,000,000.
7. MSM will be paid US\$500,000 if 1,000,000 oz of gold in an NI 43-101-compliant mineral resource estimate results from exploration activities in connection with the exploration titles/mining rights of the LOI/Acquisition Agreement. An additional US\$1,500,000.00 shall be paid if an aggregate of 2,500,000 oz of gold are identified in a mineral resource estimate compliant with NI 43-101.

Cerrado has been funding all exploration work since the signing of the LOI. All exploration staff on site are employees or contractors of Cerrado. MSM staff are available for consultation and assistance.

4.4 PERMITS

There is a License of Operation (LO, a permit issued by the state environmental agency) in place at Serra Alta which is valid until July 13, 2020. This allows for the small scale mining operation of MSM, which is currently suspended. It includes permission for drill and blast operations, processing of ore and leaching of concentrates with the use of cyanide.

All of the required permits for exploration, including drilling, are in place.

4.5 ENVIRONMENT AND LIABILITIES

The principal known environmental liabilities are related to the historic gold panning activities of the bandeirantes in the 1600s and 1700s and the more recent garimpeiro/artisanal mining activities of the late 1900s. The principal issues are related to the use of mercury by the garimpeiros and their related small scale construction, as well as the piles of rocky rubble left by the Portuguese explorers.

Currently the liabilities connected to garimpeiro activity and the historic use of mercury accrue to MSM. When the concession titles get transferred to Cerrado, the company has to formally communicate the nature of the illegal mining activities to the ANM. Cerrado will

not be prosecuted for the illegal activity but may be held responsible to clean it up, or arrange some compensatory measures in the future.

A small pond (approximate volume of 100 m³) is located at the MSM mill site which was used for the disposal of spent liquor from the electro winning cells. Any potential cyanide contamination is being addressed and will, if required based on assays, be neutralized or trucked to a treatment facility. It is expected that the cyanide has most probably degraded to a stable and harmless cyanate. The findings from the sampling will determine what to do with the existing solution.

5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 ACCESSIBILITY

The Monte do Carmo project is located in the central region of Brazil, in the State of Tocantins, 62 km southeast of the state capital Palmas. Palmas has an international airport with several daily flights to Brasilia, Goiânia and São Paulo with onward connections to most places in the world.

Monte do Carmo is accessed via a paved road (highway TO-255) east from Porto Nacional, where a field office is established at the project site (see Figure 4.2).

5.2 LOCAL INFRASTRUCTURE AND RESOURCES

The principal industry in this part of Tocantins state is agriculture. Large fields of soybeans and corn lie to the west of the town of Monte do Carmo. Cattle are also raised. Monte do Carmo itself is surrounded on 2 sides by cuestras (mesa-like features) on which there is little agriculture.

The city of Porto Nacional's principal purpose is the support of the agricultural industry. All of the basic project needs can be sourced there. Permits for the project, such as those from the ANM, environmental agencies and others, can be applied for directly in Palmas.

Porto Nacional has much of the basic necessary infrastructure, including a paved landing strip with capacity for landing large planes, but no refueling capacity.

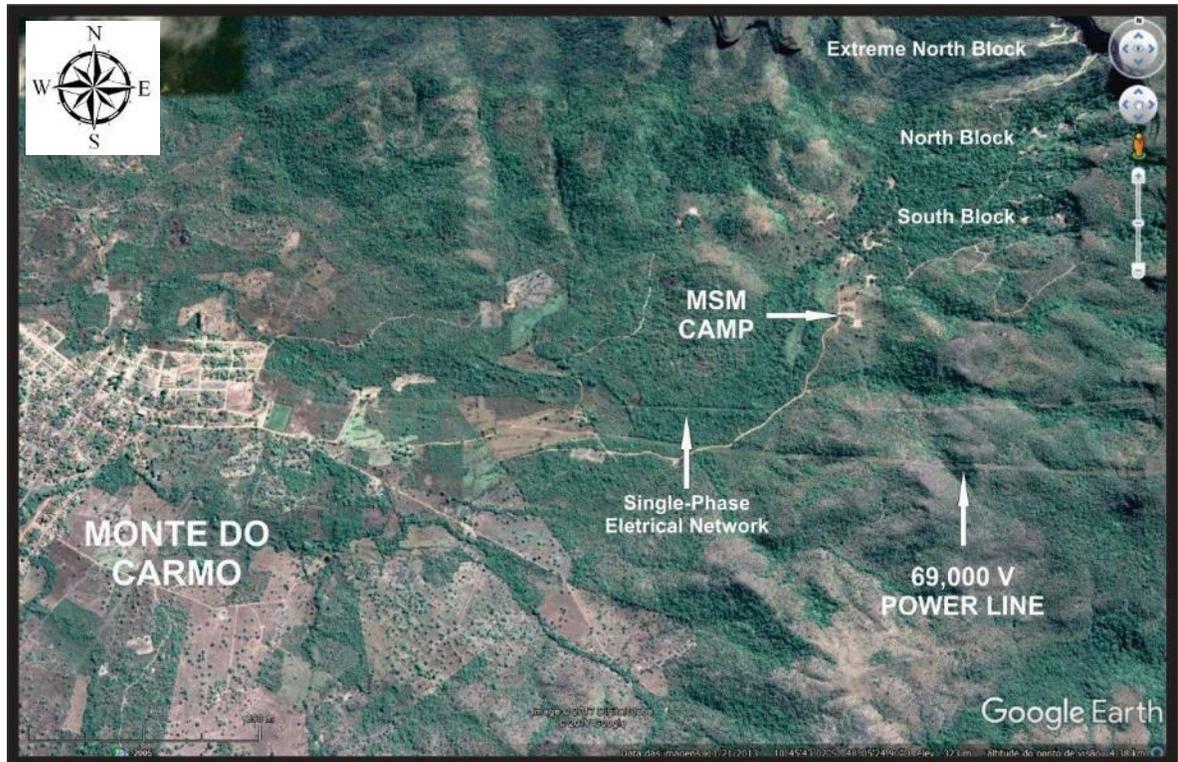
The Tocantins River is dammed down-stream (north) of Palmas to feed the Lajeado Hydroelectric Power Plant. The river is flooded and quite wide from there to the south of Porto Nacional.

To the east of Monte do Carmo, near the municipality of Ponte Alta, high voltage power is available from the Izamu Ikeda power plant (69,000V) located on the Balsas River, a tributary of the Tocantins River. A high tension power line (69,000 V) from this plant crosses the concession containing Serra Alta (860.187/88) approximately 500 m south of the main Serra Alta project facilities (see Figure 5.1).

MSM is headquartered in Porto Nacional. There it has a technical and administrative office, accommodation for technical staff as well as a selection of older core and the accumulated technical data from the previous exploration programs.

From 2012 to 2017 MSM operated a small mill with gravity recovery and reported a processed tonnage of 60,361 t at a recovered grade of 1.508 g/t Au. The material milled was sourced from the Serra Alta deposit. The mill has been dismantled but the foundations and tailings are still present.

Figure 5.1
Satellite View of Monte do Carmo and Serra Alta Area



Note: Scale is in lower left corner of figure.

MSM has a field office at the site of the former mining operation at Serra Alta. This consists of a laboratory building, office building, cafeteria, work shop, fuel station and change house/bathroom (Figure 5.2). The tailings from the milling operation are visible in the lower left corner of the figure. Cerrado has since completed an open air, covered core logging facility with attached offices and core sawing room (Figure 5.3 also visible in Figure 5.2).

Ample labour is available in the nearby towns and cities. Some of the field labourers have been preferentially hired in the local communities, in accordance with the company's policies of providing local benefits.

While the local industry is dominated by agriculture, Brazil is a country with an extensive mining industry. Experienced mining professionals, skilled trades and labourers are available from nearby states.

Figure 5.2
Aerial View of Serra Alta Field Office Facilities



Source: MSM, 2018

Figure 5.3
Cerrado Core Shed and Office, Under Construction



Source: MSM, 2018

5.3 CLIMATE

A rainy tropical climate prevails in the Monte do Carmo area, equivalent to type Aw in the classification of Köppen - wet summer and dry winter (Radambrasil, 1981). Two distinct seasons are noted: rainy from September or October to April and dry from May to August. Annual rainfall varies from 1,600 to 2,100 mm. Relative humidity exceeds 80% in the rainy season, but falls to less than 30% in the dry season. Average annual temperatures range from 24 ° to 28 ° C.

5.4 WATER RESOURCES

The local drainage network reflects the lithological constitution and structure of the underlying rock units. The sedimentary rocks of the Parnaíba Basin represent an important porous aquifer, whereas in the impermeable crystalline basement rocks, small aquifers prevail, restricted to the fractured portions of the substrate (Radambrasil, 1981).

The Monte do Carmo area is drained by the headwaters of small tributaries on the east bank of the Tocantins River. Locally the streams (Sucuri, a tributary of the Água Suja, and Conceição) are tributaries of the Areias River which drains to the Tocantins.

The sandy aquifer provides strong flows of good quality, clear water. The predominate water courses are controlled by the local rock units and structure. In the Serra do Carmo (the cuestas near the town) they often occupy rugged stream beds, with small waterfalls (Figure 5.4).

Figure 5.4
Overlying Sedimentary Rock Cuesta and Water Falls.



Source: Micon, 2018

Rudimentary extraction of gold, begun in the 18th century, had severe impacts on the local waters, seen in the local stream Água Suja. Currently, in the nearby areas, there are impacts from large scale mechanized agriculture, with consumption for irrigation and contamination of surface and groundwater by soluble fertilizers and pesticides.

5.5 GEOMORPHOLOGY

The Monte do Carmo region encompasses the western border of the Parnaíba Sedimentary Basin, deposited on the crystalline basement which hosts the local gold mineralization. Two geomorphological domains, characterized by RadamBrasil (1981), are shown:

- On the crystalline basement rocks, the Tocantins Depression was developed. The depression is composed of flat to gently undulating land, with elevations of approximately 200 to 300 m. There are isolated remnants of the overlying sediments with flattened tops and elevations of about 500 m or greater (e.g. Lajeado hill, east of Porto Nacional). Pediplanar surfaces occur at the western end of the domain. The drainage valleys have different orders of magnitude, usually with limited depth and flat bottom.
- Where the sedimentary rocks have not largely eroded away, lies the Residual Plateau of Tocantins. These are extensive plateaus bordered by escarpments (see Figure 5.4), with elevations between 350 and 600 m, on the tops (cuestas) of the sediments.

The boundary between the two domains is marked by a front of cuestas (an asymmetric hill with gentle slopes on one side and a steep slope on the other, looking like a mesa from the steep side). These are notable in the landscape east of Monte do Carmo. In this context lies the hydrothermally altered granite of the Serra Alta deposit, once mined by the Portuguese bandeirantes and more recent garimpeiros. Locally, at the base of the cliffs located at the edge of the sediments (which extend eastward) is relatively rugged terrain. The elevations of on the exposed mineralized granite varies between 350 and 470 m.

5.6 SOIL

The local soils are derived from the weathering of the underlying rocks. In tropical climates, they tend to be acidic with poor fertility due to nutrient leaching. Sandstones and quartzites result in sandy soils, while granitoid rocks produce more clay-rich soils. In turn, basic volcanic rocks tend to result in more fertile soils.

In general, they are chemically poor soils with physical characteristics that are restrictive to conventional agricultural use. However, when corrected for their chemical limitations, they allow for mechanized agriculture and the production of soybeans and corn.

5.7 VEGETATION

The local vegetation cover is typical of savannas (Radambrasil, 1981). There is a great diversity of species, characteristic of the Cerrado biome. In the crystalline basement terrains there is a predominance of grassy Cerrado (open tree savanna), with forests along the valleys and on the slopes of the Carmo mountain range (the cuestas). On the flat lying sediments to the east, only thin cover is found, without forests.

In recent decades, large areas of vegetative cover were removed for the establishment of pastures and mechanized farms. Initially these housed a rich and varied fauna: jaguars, anteaters, wolves, deer, alligators, diversified snakes, macaws, hawks, etc. Pressed by this agricultural occupation, the fauna seek shelter, although precarious, in the intact portions of savanna east of Monte do Carmo.

The original vegetation cover was characterized by Radambrasil (1981):

- Open Tree Savanna without gallery forest: Covers the Tocantins Residual Plateau. It includes low grasses and small tortuous trees with thick bark, bright coriaceous leaves or protected with hairs, suitable for vegetation adapted to low nutrient conditions (especially phosphate and nitrogen).
- Open Tree savanna with gallery forest: The dominant physiography in the crystalline terrains of the Tocantins Depression. The forests denote permanent humidity and greater accumulation of nutrients, favoured along the water courses and on the cliffs of the Carmo mountain range. The monotonous landscape of the Cerrado fields is interrupted by sinuous forest strings or by the presence of rainforest.

These forests are composed of arboreal elements with habits different from the surrounding species. They represent real forest refuges. They have variable dimensions and composition, but the vegetation is always high and dense.

6.0 HISTORY

6.1 INTRODUCTION

It is understood that gold was originally discovered in the Monte do Carmo area during the 17th century. At this time early explorers and developers known as bandeirantes were opening up the interior regions of Brazil, often using river access on major waterways such as the Tocantins River. They used slave labour to recover gold, mostly from alluvial and weathered saprolitic rocks. Bandeirante workings are found at Serra Alta.

During the 1980s the area experienced an influx of artisanal gold miners (garimpeiros) motivated by the recent rise in gold prices. MSM staff report that over 2,000 garimpeiros were working around Monte do Carmo at the time. Serra Alta was a major focus of garimpeiro activity. These informal miners were ultimately compensated and moved off the concessions. No garimpeiro activity was occurring on the Serra Alta concession at the time of Micon's visit. Modest scale artisanal mining was still active on some of the "Giant Quartz Veins" (Figure 4.3) and was viewed by Micon during the site visit.

No reliable records exist for the total gold production by the bandeirantes and garimpeiros, however, the local historical workings (pits and tunnels) at Serra Alta are extensive. The white patches on Figure 6.1 show the location of mapped bandeirante and garimpeiro workings at Serra Alta.

6.2 MODERN EXPLORATION HISTORY

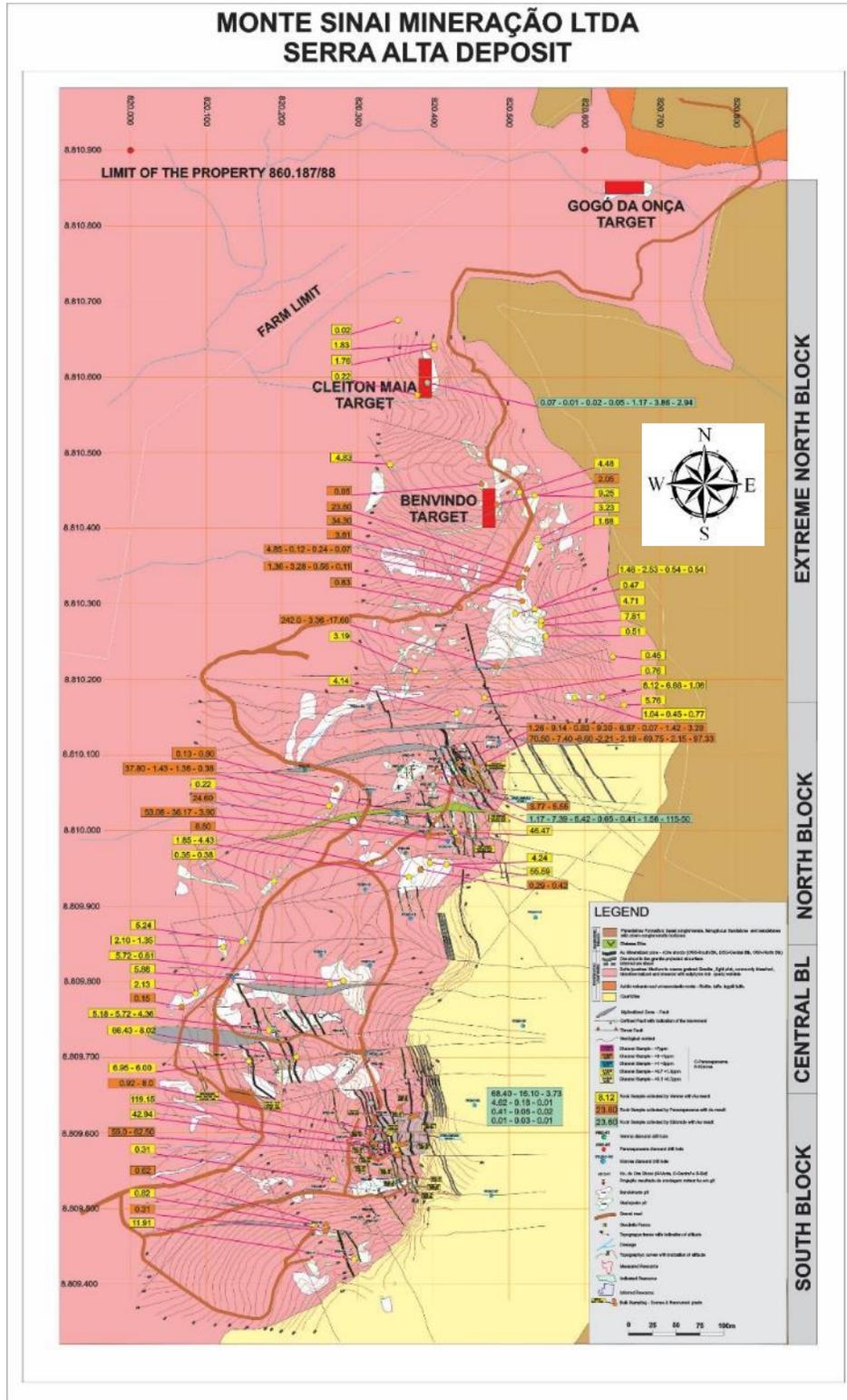
Modern exploration commenced in 1985 with work by Verena Mineração Ltda. (VML) and related companies. VML was incorporated in 1986 by the current directors of MSM to explore for gold in Tocantins State, particularly in the region of Porto Nacional and Monte do Carmo.

Investments in mineral exploration, by entities other than Cerrado, amounted to US\$4.7 million from 1985 through 1995, and over US\$20.0 million from 1996 to date. Most of the investment was applied in the Monte do Carmo project area with many known occurrences of gold.

In the modern exploration history of the Monte do Carmo project, the following events took place:

- 1985 to 1988 - Commencement of exploration in the Monte do Carmo area. Large volume sampling (900 t) of large quartz veins in the southern concessions, called Giant Quartz Veins (Figure 4.3).

Figure 6.1
Serra Alta Geological Map Showing Artisanal Workings



Source: MSM 2018. Scale in metres on map grid.

- 1989 - Joint venture (JV) with Rio Tinto. Investment of US\$1.0 million. Work concentrated on the Giant Quartz Veins. A total of 26 veins were mapped and sampled. Four were drilled (53 diamond drill holes, totaling 3,876.30 m). Their size was considered insufficient for Rio Tinto, which, at the time, was looking for deposits with 3 million ounces or more of contained gold.
- 1989 to 1990 - Partnership with Musa Engenharia Ltda. Construction of the Torre Mine, a heap leach mining operation near Porto Nacional. The operation was abruptly interrupted by the advent of the Collor Plan (a government inflation stabilization plan, 03/15/1990), which drastically reduced the price of gold and effectively confiscated the company's working capital, making its continued operation unfeasible. About 5,000 tonnes of ore were processed.
- 1991 to 1992 - Partnership with the Paranapanema Group (PNP). Efforts focused on the Monte do Carmo region, with greater attention paid to the hydrothermally altered granite zone (Serra Alta). Investments made were equivalent to US\$1.6 million, including 3,718.79 m of diamond drilling. The grades encountered were considered insufficient for continuity of the project, mainly due to the price of gold at the time.
- 1994 - Partnership with Companhia Nacional de Mineração (CNM, of the EBX Group). Invested US\$1.1 million, focusing on shear zones in metavolcanic rocks, near the municipalities of Porto Nacional and Natividade.
- 1996 - Formation of Verena Minerals Corporation (VMC), aimed at attracting risk capital on a Canadian stock exchange. Investments were prioritized in the State of Tocantins, once again with emphasis on Porto Nacional and Monte do Carmo. The company remained listed on TSX-V until 2010.
- 1996 - VMC undertook an extensive and detailed 200 x 200 m magnetometer and Gama-Spectrometry Airborne Geophysics Survey covering an area of about 170 x 50 km. The data highlighted tectonic structures and mafic-ultramafic layered intrusions within the volcano-sedimentary sequence, one being the BIT-03 Target. This was partially explored by VMC. The last significant exploration work was carried out for gold in a shear zone crossing the intrusion on the property. Selected targets for gold were then mapped and soil geochemistry, terrestrial geophysics, trenching and exploratory diamond drilling were conducted (total drilled: 7,416.95 m).
- 1998 - VMC conducted a similar airborne geophysical survey in the area of the Conceição do Tocantins target (Figure 4.3).
- 2004 - Exploration work on the Serra Alta target recommenced with detailed mapping, sampling and diamond drilling (total drilled: 2,224 m).

- 2005 to 2008 - JV with Kinross at the Serra Alta Target. Exploration work was conducted in the hydrothermally altered granite and quartz veins, with a further 5,043.05 m of diamond drilling. Investments made were the equivalent of US\$3.5 million. However, the minimum target of 2 million ounces of contained gold was not defined and, given the uncertainties generated by the US financial crisis in 2008, the JV was undone. The properties were returned along with delivery of the technical data obtained.
- 2009 - VMC suspended investments in the Monte do Carmo region and redirected its efforts to the Volta Grande Gold Project in Para State.
- 2010 - The Forbes & Manhattan Group took over VMC, changing its name to Belo Sun Mining Corp.
- 2010 - The mineral rights to the concessions in the Monte do Carmo area were transferred to MSM, the current holder. MSM was engaged in the discovery and evaluation of the feasibility of operation of small to medium sized gold deposits.
- 2012 to August, 2017 - Partnership with the Paranaense Group from Parana State. Investment of approximately US\$4.5 million in infrastructure and a bulk sampling gravity plant at Serra Alta which processed about 60,000 tons of ore and produced 2,923 oz of gold. Micon has not verified any of the production claims made by MSM.

The drilling at Serra Alta, outlined above, is described in more detail in Section 10 of this report.

The end of the garimpeiro mining on the granite at Serra Alta provided full access to places of interest and the observation of relevant geological features previously inaccessible. This, combined with the exposures created by the mining activities of 2012 to 2017, made it possible to better understand the geometry of, and controls on, the mineralized zone.

Cerrado became involved in the project in September, 2017.

6.3 HISTORICAL RESOURCE ESTIMATES

There are no known mineral resource estimates for the Monte do Carmo project which have been prepared prior to the acquisition of the project by the current concession holder, MSM. An in-house estimate of resources has been prepared by a consultant to MSM (Geoprocess, 2011). This estimate is not considered to be NI 43-101 compliant and has not been reviewed by Micon. As the project concessions are still owned by MSM it is not disclosed here.

7.0 GEOLOGICAL SETTING AND MINERALIZATION

This chapter describes the regional and local geological setting and is taken from a summary provided by MSM. The main lithostratigraphic units and structures, metamorphism, hydrothermal alteration and weathering are discussed.

7.1 REGIONAL GEOLOGY

7.1.1 Main Litho-Stratigraphic Units

The regional scale geological map, edited by IBGE (2007), provides the best reference for description of the regional geology, as shown in Figure 7.1 below. It is a re-evaluation of information collected by Radambrasil, updated based on data obtained from third parties (CPRM, 2004, among others).

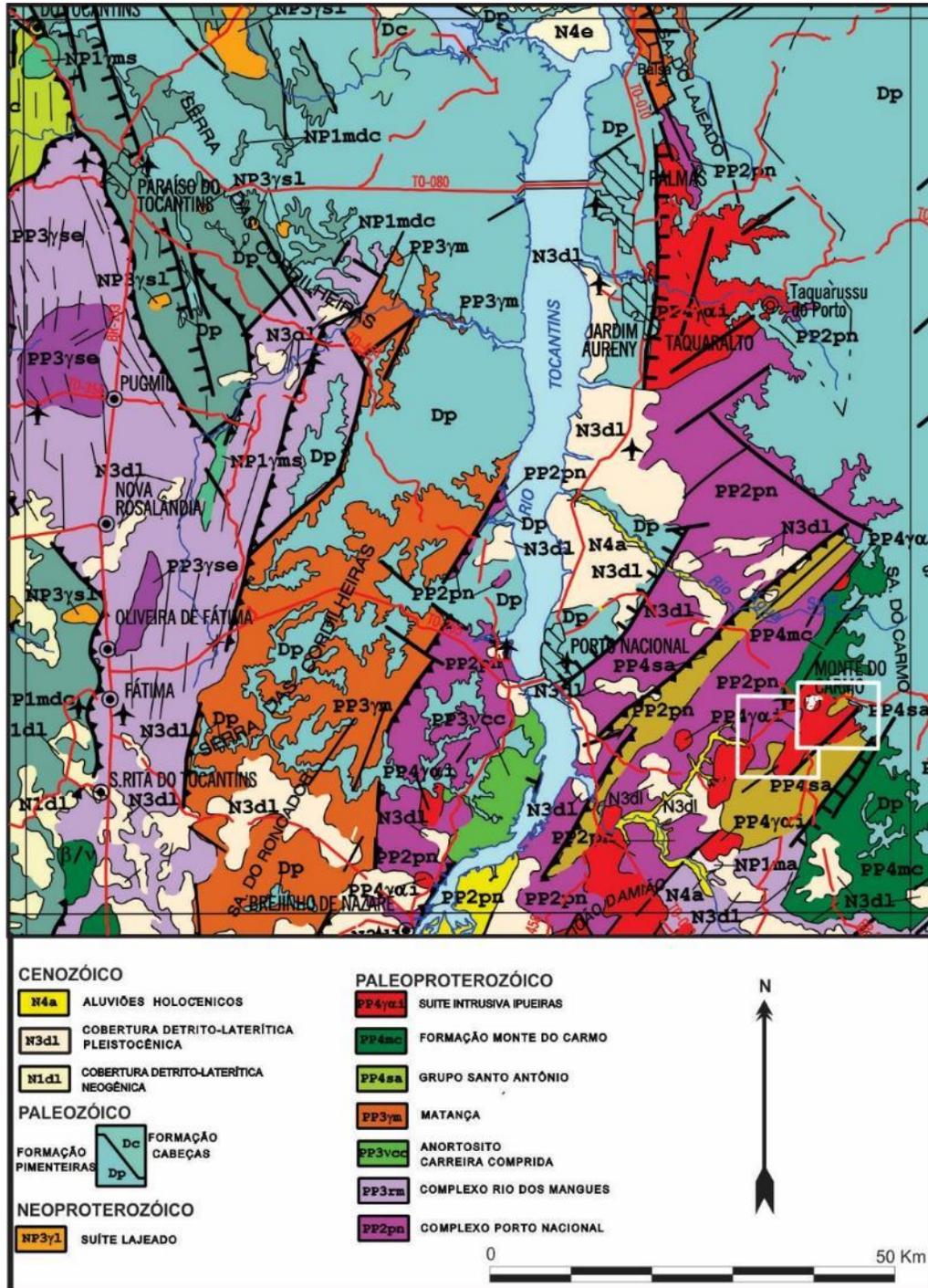
The synthesis incorporates information collected by MSM and related companies during the course of exploration in the region. As discussed below, the detailing of some targets added important data for understanding the geological context and the controls on the mineralization. There are also geochronological data derived by several researchers.

The regional geological framework is marked by a complex polyphase evolution. The region is the basement of the Araguaia Belt, which represents a Neoproterozoic orogenic belt, developed on the eastern edge of the Amazon Craton, in the zone of interaction with the São Francisco Craton. It is composed of metamorphic pelitic and psammitic sediments, felsic alkaline plutons, mafic-ultramafic bodies and granitic rocks (Schobbenhaus et al., 1984; Bizzi et al., 2003).

In the area of interest, the following units, from the base to the top, stand out:

- a) Porto Nacional Granulite Complex: These are high grade metamorphic rocks: orthogranulites and supracrustal rocks. The orthogranulites cover enderbite, meta-hornblende gabbro-norite, charno-enderbite and charnockite. The supracrustal set is formed from aluminous gneiss, sillimanite-kyanite gneiss, garnet gneiss, kinzigite and gondite (CPRM, 2004). It is Paleoproterozoic in age, estimated between 2,300 and 2,050 MY (IBGE, 2007).
- b) Rio dos Mangues Complex: Composed of orthogneiss, tonalitic to partially migmatized granodiorite, amphibolite and granitoids. Paleoproterozoic age. Pb-Pb dating: 2,127 to 2,050 MY (CPRM, 2004).
- c) Carreira Comprida Gabbro (Anorthosite): Mafic-ultramafic layered complex composed of meta-norite, meta-diorite, meta-anorthosite, meta-quartz-diorite, meta-tonalite, meta-gabbro, meta-gabbro-norite and pyroxenite. Paleoproterozoic in age. U-Pb dating: 2072 MY (CPRM, 2004).

Figure 7.1
Regional Geology (IBGE, 2007)



d) Monte do Carmo Formation: Volcano-sedimentary sequence formed by metamorphosed rhyolite, rhyodacite, dacite, tuffs, basic volcanic rocks, quartzites,

pelites and conglomerate. Paleoproterozoic age. Pb-Pb dating: 2,130 to 2,020 MY (CPRM, 2004).

- e) Grupo Santo Antonio: Volcano-sedimentary sequence separated by IBGE (2007), but ignored in CPRM (2004). In the course of the work reported by MSM, it was informally called the Porto Nacional Sequence (or Tocantins Sequence) and compared to the Natividade Group, which occurs to the south. It is composed of metapelites, meta-psammities, gondites, banded iron formation, carbonaceous schists and meta-basites (an obsolete group name for all basic igneous rocks) (Veiga and Latorraca, 1997; MSML, 2011a). Paleoproterozoic age, estimated between 1,800 and 1,600 MY.
- f) Ipueiras Intrusive Suite: Large granitic intrusion in the Monte do Carmo area. It was described by IBGE (2007) as Paleoproterozoic, but attributed by CPRM (2004) to the end of the Neo-Proterozoic, under the name Suíte Lajeado (see item g). During MSM exploration, this granite was also called Lajeado, but referred to the Paleoproterozoic.

This 1,000 Ma discrepancy is perhaps a sign of confusion in the names of granites. However, the existing granite in the Monte do Carmo area seems to be older than the Brazilian bodies known in the region, since it is affected by shearing and hydrothermal events associated with auriferous mineralization (MSML, 2011a).

More recently however, in a master's thesis specifically on the Serra Alta deposit area and sponsored by the University of Brasilia with the support of MSM, the following observation stands out:

“The Serra Alta gold deposit is Intrusion Related type associated to the Carmo Granite, which is the more evolved and fractionated phase of a type I sienogranitic (sic) magmatism. It is present alkaline-calcium to high potassium calci-alkaline (sic) and peraluminous geochemical characteristics, as well as moderate fractionation between ETRL and ETRH. It presents yet cordillera type geotectonic environment geochemical signature most likely to oceanic-continental plate collision. The crystallization age U-Pb is 2083 ± 21 Ma, with TDM values between 2.05-2.15 MY and ϵNd (2.083) positive, belonging to the Intrusive Suite Ipueiras, within the context of the Araguaia Belt, Tocantins Province.” (Gomes, Jessica - 2016).”

- g) Lajeado Suite: Granite intrusions syn to late Trans-Brazilian orogeny, comprising granite, alkali-granite, porphyritic granite and granitoids. Neoproterozoic in age. Pb-Pb dating cited by CPRM (2004): Matança Granite - 564 to 552 MY; Lajeado Granite - 546 MY; Palmas Granite - 548 MY.
- h) Pimenteiras Formation: Argillites and siltstones with intercalations of ferruginous sandstone and basal conglomerate lenses. Part of the Parnaíba Sedimentary Basin. Devonian in age, between 400 and 380 MY, approximately (CPRM, 2004; IBGE, 2007).

- i) Detritus-Lateritic Cover: Detritus-laterite cover developed on flat terrain, comprising sandstones and conglomerates. Age attributed to the end of the Neogene and early Pleistocene, estimated around 1.75 MY (CPRM, 2004).
- j) Alluvial deposits: Unconsolidated sediments deposited along river valleys, comprising sands, clays and gravel lenses. Pleistocene to Holocene in age (IBGE, 2007).

7.2 REGIONAL LITHOLOGICAL AND STRUCTURAL MAPPING

Regional geological mapping, carried out by VML and MSM at a 1:100,000 scale covers most of the municipalities of Porto Nacional, Monte do Carmo, Ipueiras and Brejinho do Nazaré. In the northern portion of the block, mapping was conducted at 1: 25,000 scale. Sites of interest were described by VML, its JV partner companies, and more recently by MSM (2011a). The geological context has been characterized by different professionals throughout the work carried out, with different purposes and degrees of detail. Figure 7.2 illustrates the main features of the areas under consideration.

Airborne geophysical surveys and interpretation of aerial photographic images were integrated with the field acquired data. In general, the geological exposure is impaired by the deep weathering and the destruction of some characteristics occurring in the garimpeiro-mined areas (garimpos). However, the garimpos and other old workings facilitate the location of mineral occurrences.

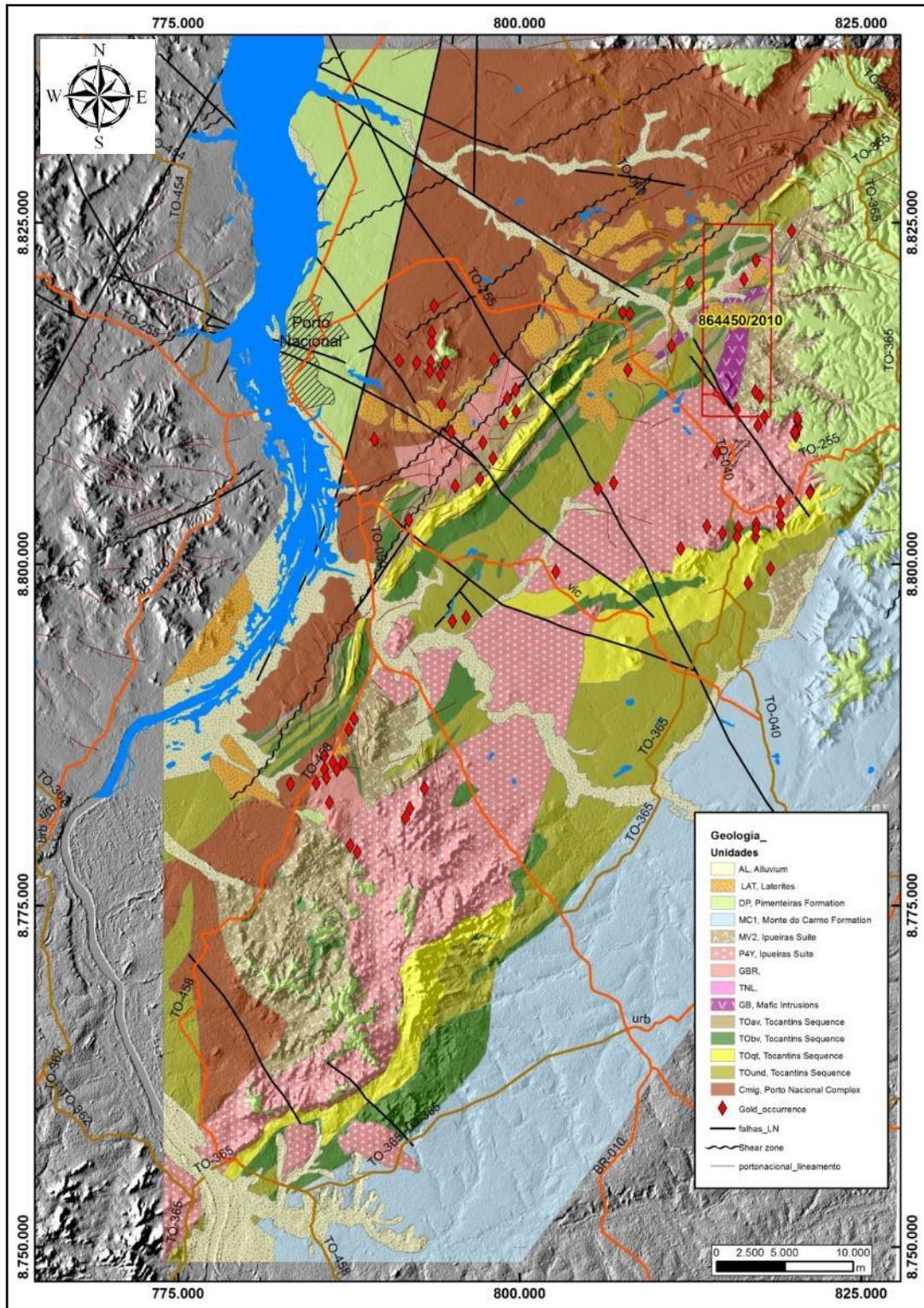
The depiction of the lithological and structural diversity is understood to be superior to the regional syntheses available from sources such as the IBGE (2007) map (Figure 7.1). Suggestions of the economic potential of the areas is evidenced by the numerous occurrences of gold catalogued in the surveys (MSM, 2011a).

At the same time as the mapping and compilation, other scientific studies, supported by several universities, resulted in masters and doctoral theses focusing on the petrologic and metallogenic evolution of the area.

Mapping was assisted by three masters theses and one doctoral thesis, which incorporated VMC's accumulated knowledge of the region. MSM believes that this aided in the generation of new geological concepts to guide regional exploration work. A final geological map, at 1:100,000 scale, of the most important portion of the belt is shown in Figure 7.2. This map covers most of the principal target areas, the concessions, the principal lithostratigraphic units and the geotectonic features of the region.

The Porto Nacional region, which covers an entire gold province, is geotectonically packed onto a transcontinental shear belt known as the Trans-Brazilian Lineament. In this area, the shear/lineament as a whole has an elliptical shape and is over 170 km long and up to 40 km wide.

Figure 7.2
Regional Geologic Map of Porto Nacional



Source: VMC, 2010

As shown in Figure 7.2, from west to east, the geological packages can be defined as follows: the Porto Nacional Complex, the Archean Porto Nacional Volcano-Sedimentary Sequence intruded by the Lower Proterozoic Ipueiras Granite and other acidic and mafic-ultramafic layered intrusions and the continental volcano-sedimentary sequence of the Monte do Carmo Formation of Upper Proterozoic age. All of these units, formations and intrusions have been subject to the Trans-Brazilian deformation. Due to the large central granite intrusion, the structure is characterized as a great anticlinorium.

Structural control is well defined and regionally expressed by the disposition of the above mentioned units, which are elongated subparallel to each other in a north-northeast-south-southwest direction. Each unit is frequently limited, and internally affected, by a brittle-ductile shear model, associated with predominantly transcurrent movement.

The interpretation above identifies a system of shear zones that defines the Porto Nacional Belt. Although the shear zones exhibit a somewhat anastomosing nature, they may be grouped into four main belts, named from east to west: the Matança, Cachimbo, Mutum and Conceição Shear Zones.

7.3 PROPERTY GEOLOGY

Based on the work completed and results obtained, MSM reduced the exploration area for gold to 5 concessions on a cupola over, and related targets derived from, the Ipueiras Granite, using the Reduced Intrusion-Related Gold Systems model. Figure 7.3 shows the Monte do Carmo regional geological context and the MSM properties, as well as the main targets.

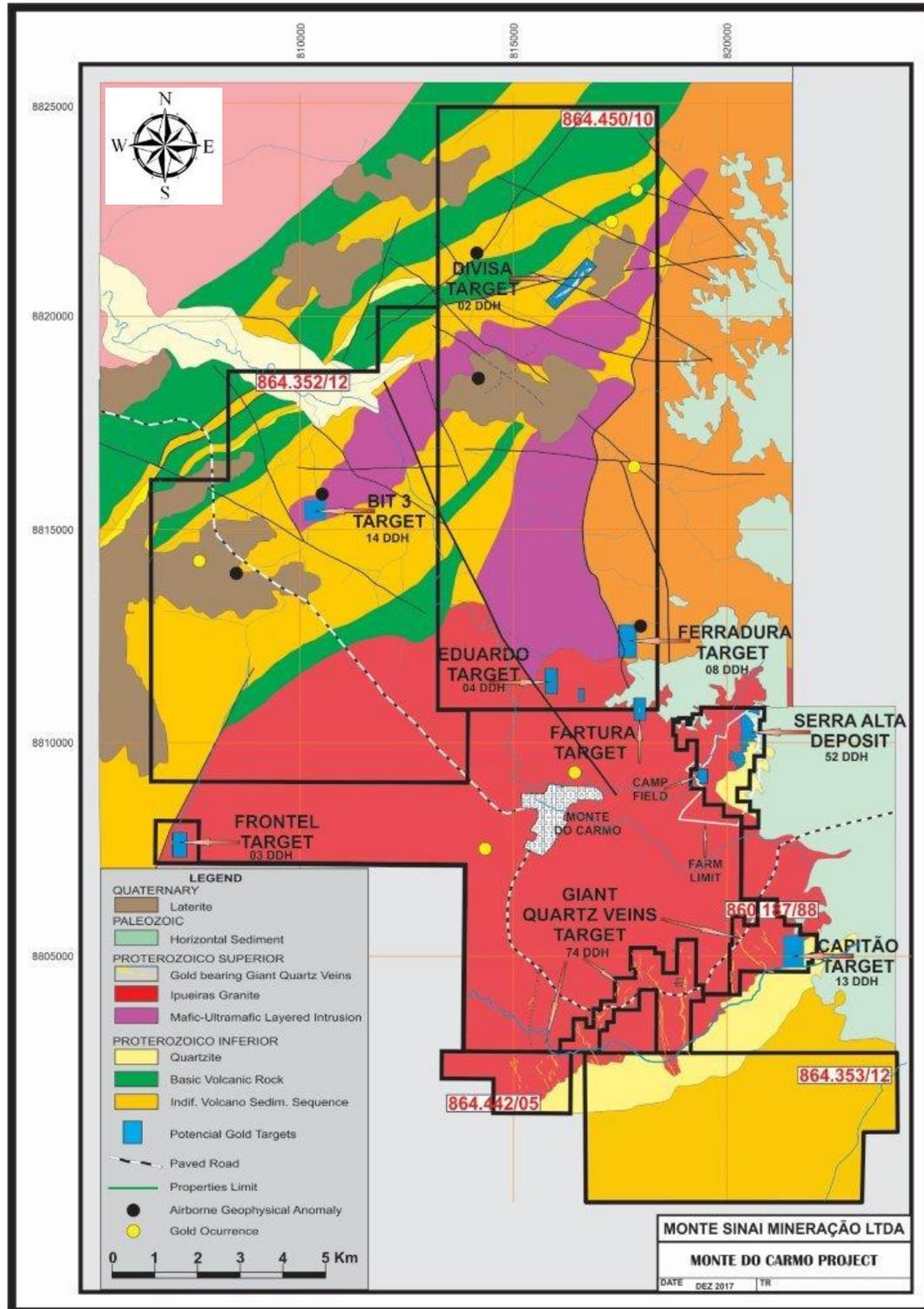
Cerrado's principal target of interest is the Serra Alta deposit which appears to have the best potential for the development of significant tonnage.

The remainder of this report will concentrate largely on observations about, and opinion on, the Serra Alta area with only brief descriptions of the other targets.

7.3.1 Serra Alta Geology

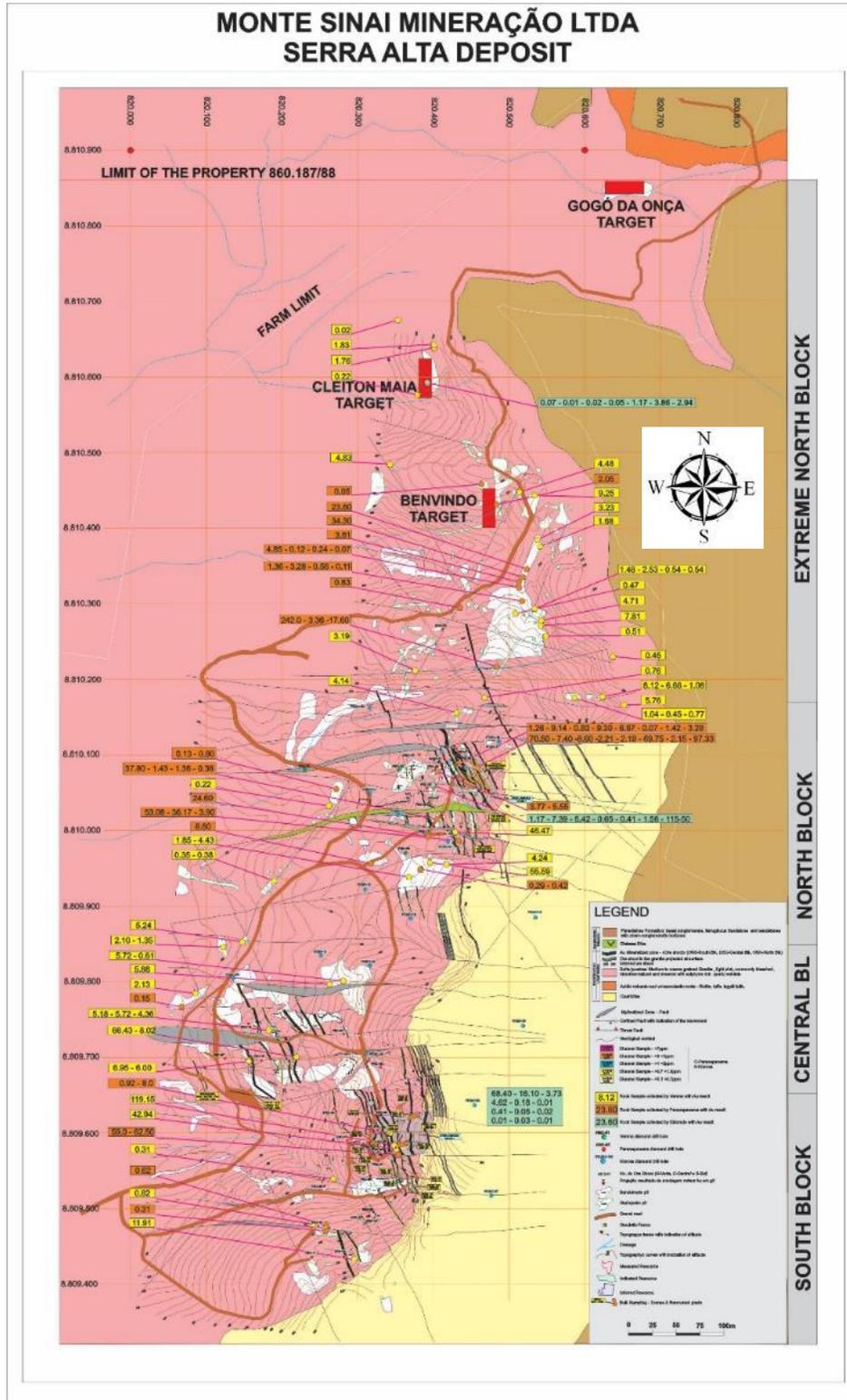
Figure 7.4 shows the geology of the Serra Alta target.

Figure 7.3
Monte do Carmo Region Geologic Map Showing Property Boundaries and Important Targets



Source MSM, 2017

Figure 7.4
Serra Alta Geology

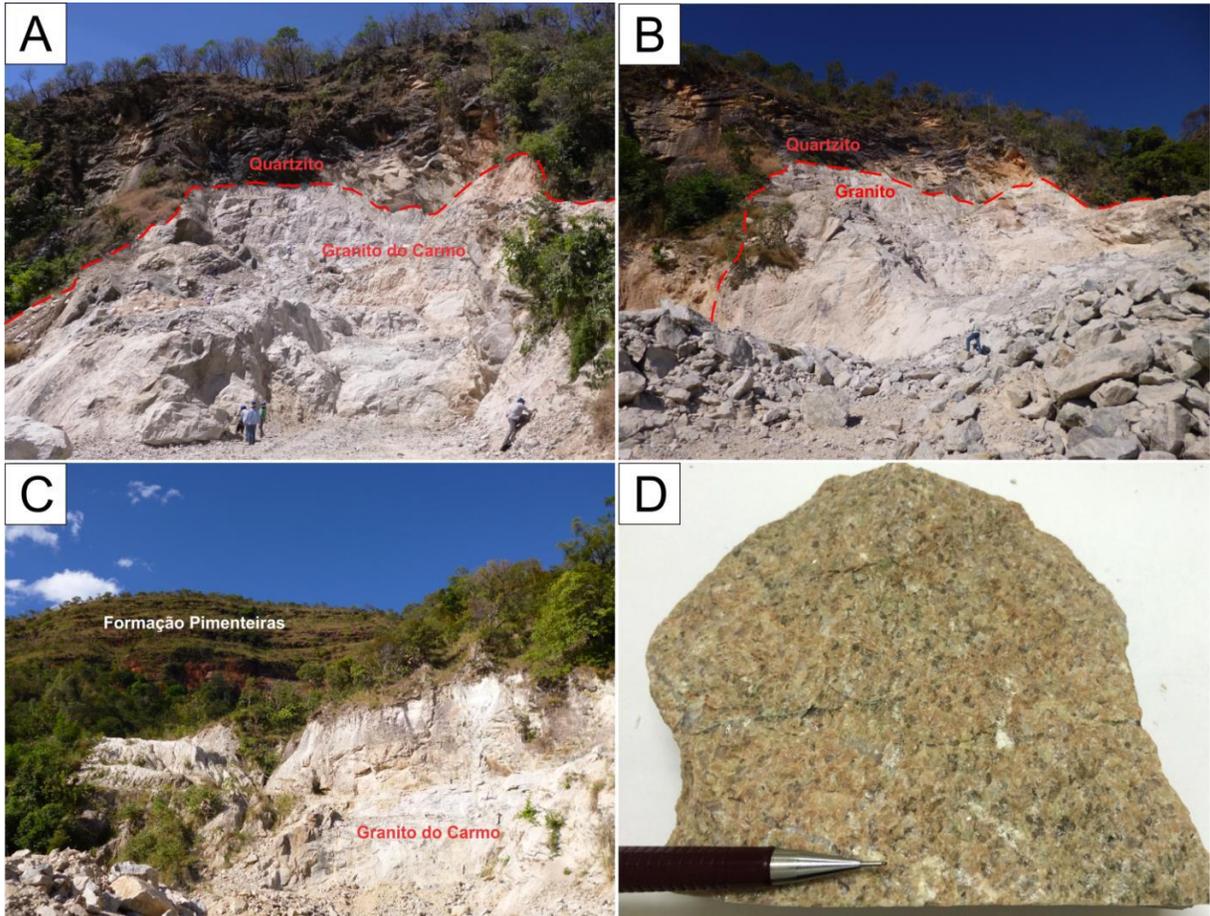


Source: MSM 2018. Scale in metres on map grid.

The geology of the Serra Alta target area is relatively monotonous, composed largely of a potassic granite (pink unit in Figure 7.4) of the Ipueiras Suite of upper Proterozoic age. The granite is partially covered by a remnant of quartzite (yellow unit in Figure 7.4) of the lower Proterozoic volcano-sedimentary sequence which, in turn, is covered by the Paleozoic horizontal sediments (light brown).

The granite is a large intrusive body aligned in a northeast-southwest direction and intruded into rocks of the Monte do Carmo Volcano Sedimentary sequence. This sequence is locally represented only by a discontinuous remnant of quartzite. To the east and north there is more continuous cover of the Paleozoic Parnaíba Basin, represented by the Pimenteiras Formation of Meso-Neo Devonian age (Figure 7.5 A to C). The altered granite disappears under these overlying rocks.

Figure 7.5
Serra Alta Granite Exposures



Source: MSM 2018. Figure 7.5 - A) and B) Photographs of the South Block mining front (Serra Alta Project small scale mining) where it is possible to observe the contact between the dome of the local granite and the older quartzite; C) Photograph of the North Block mining front showing the Pimenteiras Formation covering the granite; D) Representative sample of the Monte do Carmo area granite in more preserved condition, where macroscopically the phaneritic texture of the rock can be observed.

In the Serra Alta region, the granite, in its less altered form, shows a homogeneous colour from light green to slightly pink, exhibiting inequigranular, isotropic and medium to coarse grain size (Figure 7.5 D).

The granite is composed of potassic feldspar (40 to 60%), quartz (20 to 40%) and plagioclase (albite, An 6 to 12, 10 to 20%). Rare crystals of zircon and a few of white mica are included in some quartz crystals (<1%). Secondary or replacement minerals occur such as muscovite, chlorite and carbonate. The estimated modal proportion of the essential mineralogy allowed for the classification, using a QAP diagram (Streckeisen, 1976), as syenogranitic composition (Maia, Jessica 2016).

The granite has abundant zones richer in gold, which have been mapped as mineralized shoots, mostly oriented N10-15W and dipping 60° to 80° to the southwest (Figure 7.6 A and B). A total of 41 shoots were mapped, only partially in the South, Central and North blocks, as shown in Figure 7.4 (see right margin of figure for block boundaries).

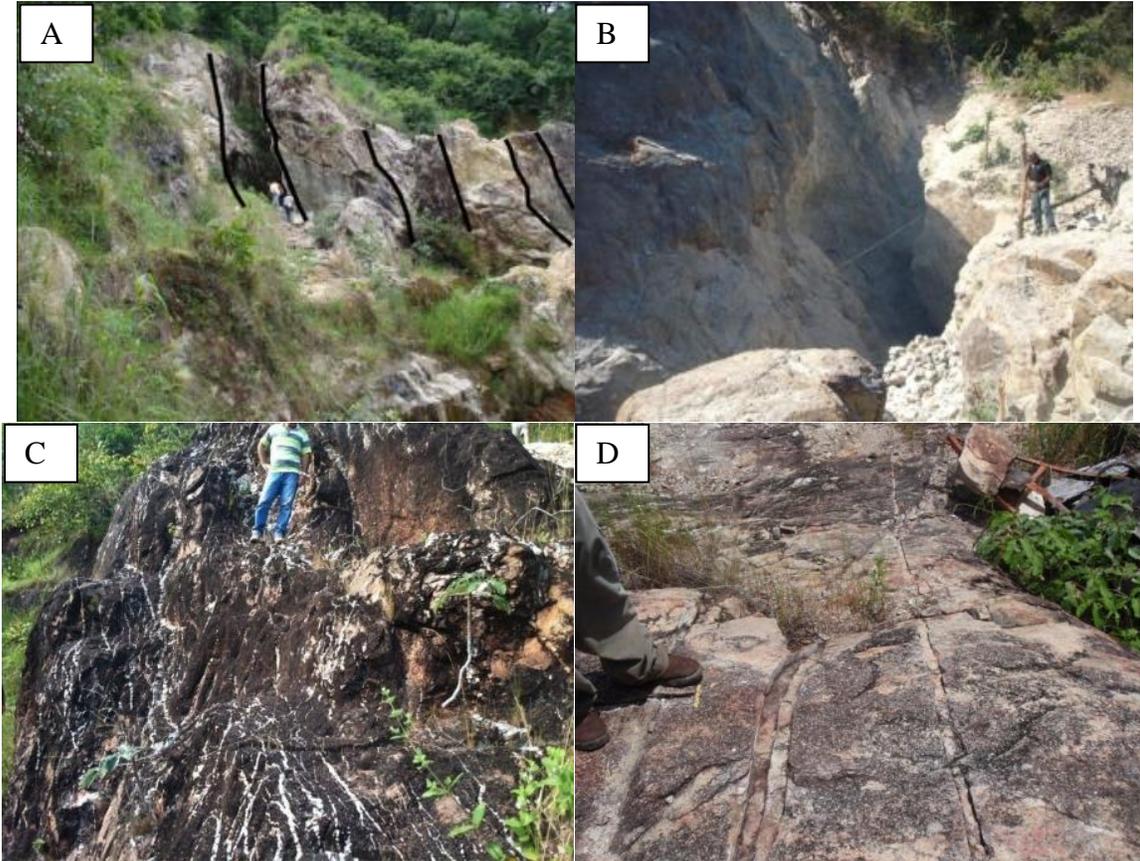
They vary in thickness from 0.5 m up to 30 m. The presence of more prominent gold grades, quartz veinlets and sulphides are the main difference between the normal granite and the mineralized shoots (Figure 7.7 A). The shoots were defined from the interpretation of drilling results, projected to surface based on the mapping of the outcropping mineralization and the mining pits of the garimpeiros, as well as the results of channel samples in hard rock. These samples were collected with a diamond saw, by both Paranapanema and Kinross and analyzed every metre. Cerrado is continuing with the process of channel sampling of exposures and trenches.

Within the immediate area the main fault systems are oriented N30E and east-west. These faults can affect the mineralized shoots with small displacements (Figure 7.7 B) or slightly larger ones seen in vein offsets in Figure 7.4. Locally they may promote development of a barren zone, but only a few of these are thick, up to a maximum of 15 m. The granite has been sheared along an azimuth of N10E to 15E where important quartz stringers were developed.

The lode gold vein system is set within fracture systems running N10W to N30W, representing sub vertical vein systems dipping steeply to the southwest and plunging 12° to 15° to the south. Dikes of younger diabase are present, cutting the granite within the fault zones.

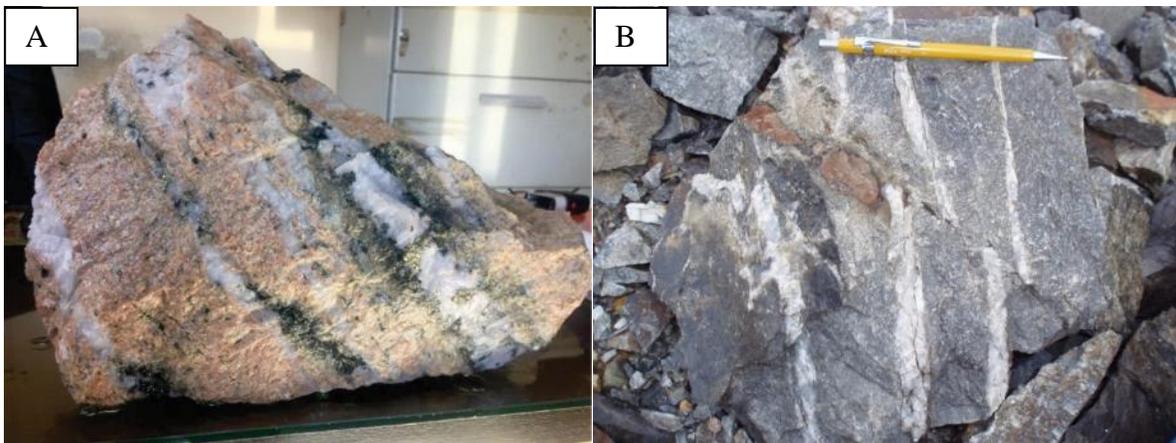
Covering the southern portion of the east edge of the granite, Proterozoic quartzites dipping 30°SE are in contact with a “cooked” intrusive contact. The northern portion of the deposit is covered directly by the Devonian sediments. A number of shoots are believed to extend, and be trapped, under the quartzites. These may represent possible underground mining targets should their grade justify it. Mining by open pit would require a much higher stripping ratio.

Figure 7.6
Serra Alta Mineralized Exposures



Source MSM 2018. Figure 7.6 A and B - Garimpeiro pits and typical mineralized shoots; C - Veining system within the mineralized shoot; D - Chanel sample location collected with a diamond saw (on the left by PNP, on the right by Kinross)

Figure 7.7
Mineralized Serra Alta Boulders



Source MSM 2018. Figure 7.7 A - Hand sample representing large scale steeply dipping mineralized shoots within the granite; B - Example of an east-west fault offsetting veins.

The lode gold hydrothermal mineralization is characterized by the presence of epidote, chlorite, tourmaline, galena, sphalerite, arsenopyrite, pyrite and chalcopyrite. The sulphide content in the mineralized zones is typically around 0.5 to 1.0% by volume. The presence of galena is generally an indicator of higher grade gold.

7.3.2 Serra Alta Mineralization

The Serra Alta deposit is a wide mineralized zone about 300 m wide with approximately 1,500 m of exposed strike length as demonstrated by the bandeirante and garimpeiro working shown as white patches in Figure 7.4. The zone is a corridor which contains veined, mineralized shoots generally striking N10° to 30°W, dipping 60° to 80° SW with a plunge at 12° to 15°SE.

At the time of Micon's site visit, MSM and Cerrado geologists were discussing the possible interpretation of three distinct sub-corridors or trends of mineralization within this wider corridor. It is possible that the far western trend is composed largely of colluvium shed from the slope and the artisanal workings there may have no immediate bedrock source. There are exposed bedrock sources of veining on the eastern side up against the cuesta wall. Extensions of the sheared granite cupola mineralization on the eastern side, under the quartzites, have been confirmed by drilling.

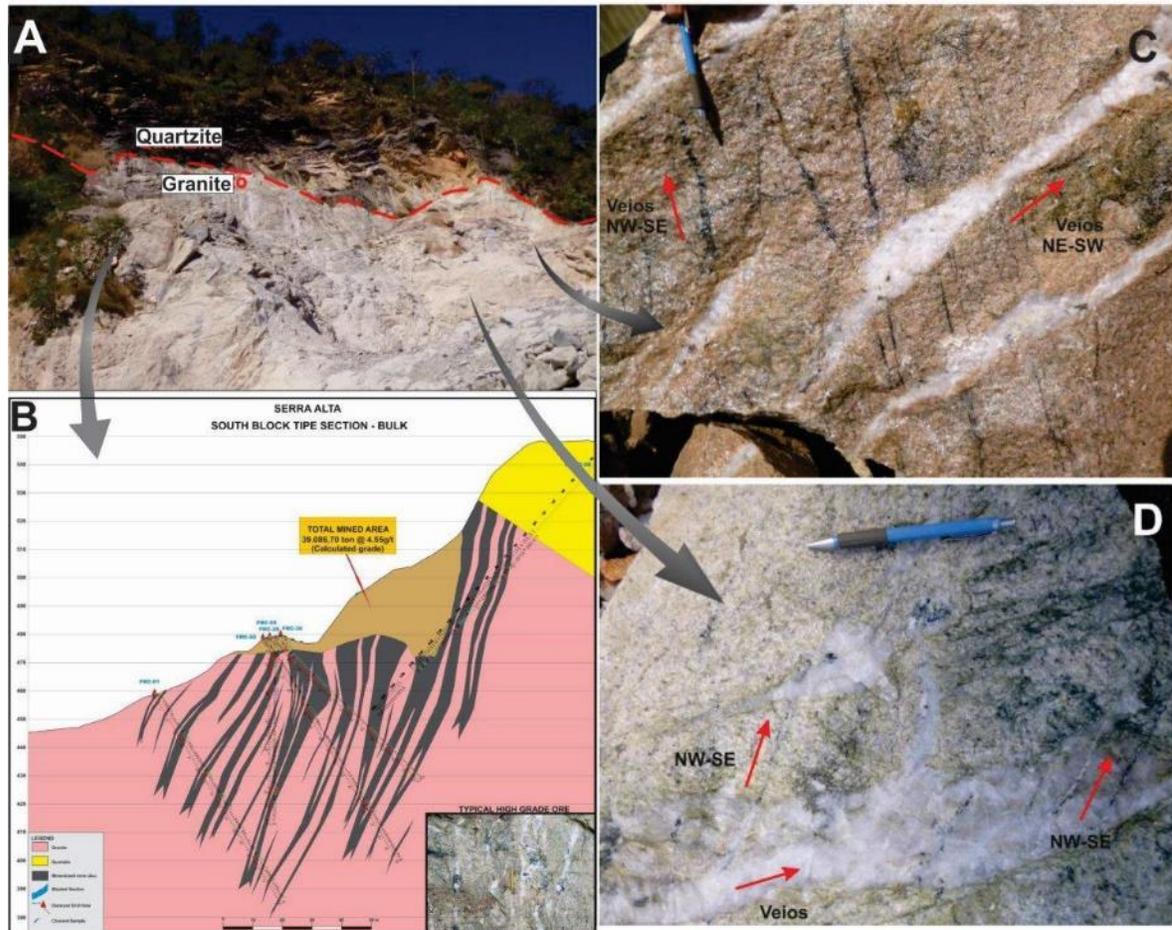
The field information obtained in the Serra Alta deposit small pits mined by MSM caused them classify the gold mineralization hosted in the cupola portion of the granite under the Reduced Intrusion Model. The mineralization occurs within a system of veins and veinlets commonly associated with zones of hydrothermal alteration. This system of veins and veinlets is characterized by quartz associated with gold and sulphides (pyrite, arsenopyrite galena, sphalerite and chalcopyrite), whereas the hydrothermal alteration is characterized by phyllic and propylitic alteration zones, as well as sulphidation and silicification.

The granite hosts a system of intersecting northeast-southwest- and northwest-southeast-trending veinlets, which occur in most areas of the deposit. (Figure 7.8).

The northeast-southwest-oriented vein system is millimetre- to centimetre-scale, but tends to be thicker and truncates the veins and veinlets of the older system (Figure 7.8C). They are predominantly composed of milky quartz crystals, moderately fractured and medium to coarse grained. However, they exhibit borders and internal zones of expansion, often filled by sulphide minerals and gold, as well as rare aggregates of white mica + chlorite + carbonate. In this system, free gold can also occur, filling cracks in the quartz veins.

Occasionally a re-opening and filling phase of the northwest-southeast system is identified, passing through the northeast-southwest milky quartz vein system (Figure 7.8D). This represents the last stage of dilation recorded in the granite dome. It is filled with aggregates of chlorite + white mica + carbonate ± pyrite as veinlets.

Figure 7.8
Serra Alta Vein Orientations



Source: MSM 2018. Figure 7.8 - A) Photograph of the cupola portion, where the granite is in contact with the quartzite, observed at the South Block; B) Type Section of the mineralized zone showing the mineralized shoots within the granite, covered by the quartzite; C) Photograph showing the relation of northwest-southeast veinlets being cut by northeast-southwest ones; D) Photograph of the northwest-southeast veins being truncated by northeast-southwest veins, as well as the re-opening and filling of veinlets of the northwest-southeast system on northeast-southwest veins.

The presence of different phases of dilation is interpreted to be indicative of successive episodes of reopening and filling of cracks, which are independent, but can occur almost simultaneously or separated by short intervals of time. This characteristic refutes the model of effective and prolonged convective circulation of hydrothermal fluids, favouring the combination of successive fracture events in the cupola, the product of increased pressure of confined hydrothermal fluids (Jensen & Bateman, 1981; Guha et al., 1983; Foxford et al., 2000).

The hydrothermal system is likely due to the exsolution of aqueous solutions from the granitic magma.

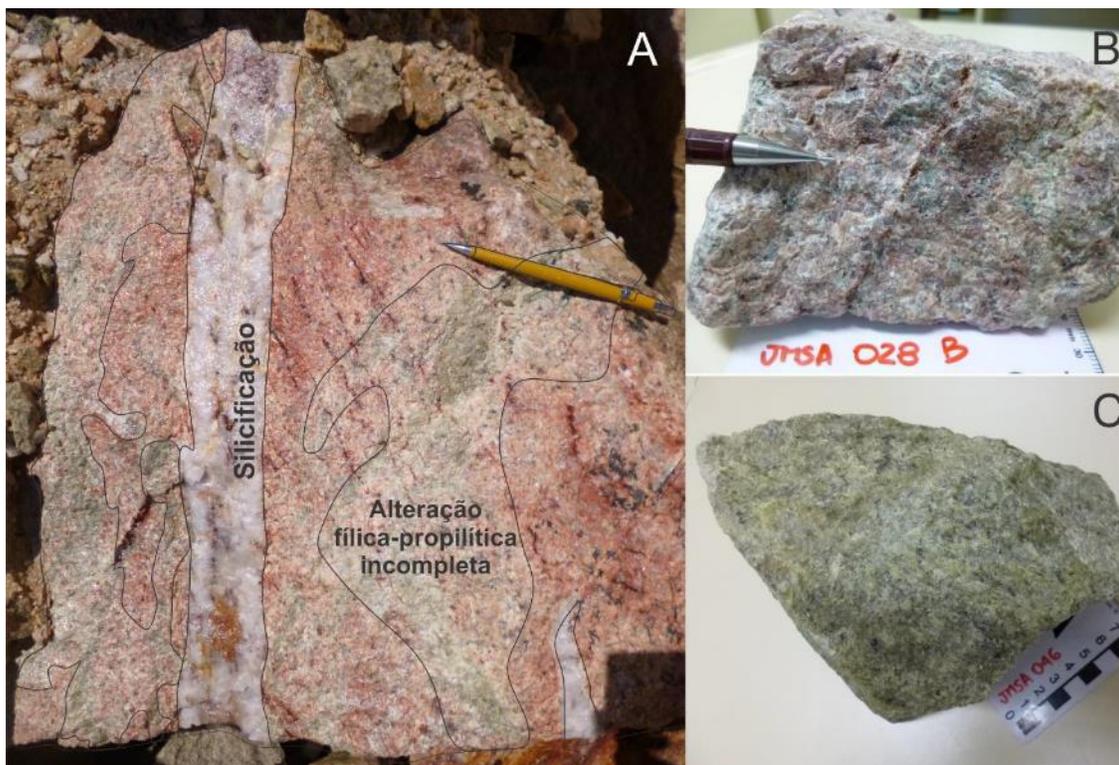
7.3.2.1 Hydrothermal Alteration

Three types of hydrothermal alteration, propylitic alteration, sulphidization and silicification occur at Serra Alta. However, these hydrothermal zones usually appear overlapping each other, making it difficult to determine a better temporal analysis of the events.

The occurrence of hydrothermal minerals is marked by two distinct patterns. The first pattern is related to the formation of neo-minerals as a substitution of primary minerals, mainly feldspars. While, the second pattern is characterized by the presence of these hydrothermal minerals filling veins and veinlets generated during the fracturing phase.

Propylitic alteration is apparently the first phase of alteration that occurred, with the pervasive substitution of primary minerals of the granite by hydrothermal minerals (Figure 7.9). The feldspars were replaced by aggregates of muscovite + chlorite + carbonate \pm albite \pm Ti minerals (ilmenite, rutile and titanite). This hydrothermal mineral paragenesis forms the propylitic style of alteration. This hydrothermal mineral association also occurs filling millimetre to centimetre scale veinlets, corresponding to the first fracturing event in the granite cupola.

Figure 7.9
Examples of Alteration Styles



Source: MSM 2018. Figure 7.9 - A) Sample from the South Block mining front where propylitic alteration is observed acting pervasively on the granite; B) and C) Samples where it is possible to macroscopically observe the essential mineralogy that composes the propylitic alteration. Muscovite and chlorite are more prominent in the green areas.

Hydrothermal white mica occurs in two distinct forms: 1) aggregates of lamellar microcrystals, the most common form, and 2) disseminated euhedral crystals. Microlamellar aggregates of muscovite are observed both in the alteration of primary minerals and in the filling of cavities (mainly veins and veinlets), whereas euhedral crystals essentially occur filling cavities.

Chlorite occurs in a very similar pattern to the hydrothermal white mica 1) as aggregates of microlamellae that replace primary minerals and fill veins, veinlets and cavities and 2) rarely as euhedral crystals, with sizes ranging from 0.1 to 0.3 mm, as well developed, generally radially-shaped lamellae.

Carbonate occurs as an alteration product of the primary albite, as well as in alteration masses and infilling veins, veinlets and cavities. It normally occurs in subhedral to euhedral forms. The carbonate crystal grain size varies from very fine to up to 0.5 mm. Analysis indicates that the carbonates are mainly calcite and dolomite, with subordinate siderite.

Titanium minerals occurs occasionally, typically ilmenite (FeTiO_2), rutile (TiO_2) and titanite (CaTiOSiO_4).

Sulphidation is marked by the presence of pyrite, galena, sphalerite and chalcopryite \pm covellite \pm quartz, usually filling veins and veinlets. In this alteration phase gold can occur associated with and/or included in the pyrite.

Sphalerite occurs as nodules or irregular masses on which the other sulphide minerals develop. Inclusions of chalcopryite are commonly observed. This marked presence of chalcopryite in sphalerite is usually attributed to exsolution (Barton & Bethke, 1987), however, this may be the result of the substitution of iron in the sphalerite by chalcopryite crystal aggregates and sphalerite with low iron content, at moderate temperatures, ranging from 200 to 400°C.

Chalcopryite occurs mainly in association with sphalerite, as inclusions and exsolutions. It also occurs intermixed with, and next to, pyrite-galena-sphalerite aggregates, forming irregular masses. Occasionally, chalcopryite is replaced by covellite along fractures.

Galena occurs distributed in a widespread manner. It may also occur as inclusions in pyrite, sphalerite and gold. Galena crystals may have subhedral shapes, but they often occur as irregular masses.

Pyrite is present in the deposit in three phases, usually with coarse grain sizes between 70 μm to greater than 3 cm. The most significant occurrence is as aggregates of euhedral to subhedral cubic crystals filling veinlets and fissures. Pyrite may contain gold, galena, and chalcopryite inclusions. Pyrite also occurs filling zones of dilation within and/or at the edges of quartz veins, usually along with gold, galena, sphalerite and chalcopryite. Another less

common occurrence is as euhedral pyrite disseminated in the rock, usually near quartz-sulphide veins.

Gold (or electrum) may occur associated with and/or included in pyrite, and rarely, sphalerite crystals. It also may be associated with silicification and sericitization-propylitization processes. Electron microprobe analyses indicated compositions of gold and silver ranging from 67 to 72% and 27 to 32%, respectively with associated content of cadmium, molybdenum and iron \pm copper, sulphur selenium cobalt and nickel totalling 0.1 to 1.2%

Silicification appears to have been one of the last phases of the alteration and is characterized by the formation of veins and veinlets from millimetre to centimetre thickness, and metre to decimetre length. They are formed essentially of euhedral to subhedral milky quartz crystals ranging from 0.1 to 2.0 mm in size. They are without sign of recrystallization. The silicification may be accompanied by sulphides (pyrite - galena - sphalerite - chalcopyrite) and may have phengite \pm carbonate \pm chlorite formation at the edges of the veins. It occurs in more intensively in highly fractured areas.

Native gold in this phase usually occurs as isolated disseminations of free form grains with irregular shapes. Electron microprobe analyses indicate homogeneous compositions and higher concentrations of gold compared to grains associated with sulphide paragenesis (Au = 88% and Ag = 11%), in addition to trace amounts of copper and molybdenum \pm cobalt, selenium, iron and cadmium totalling 1%.

7.3.2.2 Chronology of the Hydrothermal Events

A fluid inclusion study led to a proposed chronological sequence for the hydrothermal events identified in the area of the Serra Alta gold deposit.

The first stage of alteration is marked by the generation of fluids released during the final phase of magmatic crystallization, which are responsible for the alteration of the primary minerals leading to phyllic, and to incomplete, propylitic alteration. Titanium, probably released from silicate minerals under oxidizing conditions, would be present, allowing the crystallization of ilmenite, rutile and titanite, as well as some sulphides, mainly pyrite (Lobato, 1993).

Subsequently, with the lowering of temperature and increase of pressure, ruptures occurred at the cupola interface, generating cracks in a northwest-southeast direction that were filled by fluids from the phyllic to propylitic phases, characterizing the second stage of alteration (the infilling phase).

With the continuous circulation of fluids at this interface zone, the fluids are progressively fed with cyclic sulphur and metal (copper, zinc, gold, lead and iron) inputs. In this phase the interaction between distinct fluids of magmatic and meteoric derivation increases, favouring the lowering of temperature and changing the pH, Eh, FO₂ and S conditions, making for a hydrothermal environment with more reducing characteristics. In this phase subsequent

tension events occur that promote the re-opening of the northwest-southeast cracks, as well as the opening of new cracks. This, in turn, leads to new filling phases, forming veins, some formed essentially of sulphides. They may also contain minerals from the phyllic to propylitic alteration, especially on the edges of these veins.

The later phases are marked by the action of silica-rich fluids under conditions of lower temperature (Jensen & Bateman, 1981). These fluids were then channeled into northeast-southwest oriented fracture systems, forming quartz veins that may still contain some of the constituents of the previous phases (sulphide minerals and phyllic to propylitic alteration minerals at the edges).

The final phase is marked by reactivation of the northwest-southeast system forming veinlets superimposed on the northeast-southwest veins.

The circulation of hydrothermal fluids of magmatic derivation, interacting with meteoric fluids, has been intense and constant for a period of some time. This process favoured the overlapping of these hydrothermal alteration styles.

7.3.3 Other Zones

Figure 7.3 shows the location of several other targets on the concessions including the Bit 3, Divisa, Eduardo, Ferradura, Fartura, Capitão, Conceição and Giant Quartz Veins.

During the site visit Micon went to the southern edge of the Monte do Carmo granite intrusion and visited the Giant Quartz Veins and Conceição targets. At Giant Quartz Veins only the Verena vein was seen as it was actively being mined by garimpeiros.

The Verena vein was a single quartz vein, of substantial width, in the granite. Total mineralized widths were generally 1 to 4 m at the workings visited, although locally they could be somewhat higher. MSM reports that the veins reach a maximum width of 16.9 m. Distances between the veins at Giant Quartz Veins were typically at least 300 to 400 m and occasionally in excess of 1 km.

The veins themselves were somewhat poorly mineralized but the sheared wall rock is reported to contain a substantial amount of gold. Therefore total grade over the full mineralized width (vein plus sheared wall rock) is partially a function of the vein width, which is effectively internal dilution. The wider the quartz vein, the lower the overall grade.

Total tonnage potential at each vein is likely to be relatively low and the distance between veins will make it difficult to fully share infrastructure should mining commence. Small-scale open pits may be possible with ore trucked to a central location. Mercury contamination from previous garimpiero operations may also be an issue.

For these reasons, and the potential for much higher tonnages, Cerrado has chosen to concentrate its exploration efforts on Serra Alta.

8.0 DEPOSIT TYPES

Within the properties at the Monte do Carmo Project MSM has recognized three types of gold deposits using the 10 class system promoted by the website www.911Metallurgist.com (<https://www.911metallurgist.com/blog/classification-of-gold-deposits-auriferous>):

1. Class 1 - Auriferous Coarse Grained Granitic Deposits
2. Class 5 - Auriferous Veins, Lodes, sheeted zones in faults and fractures
3. Class 6 - Gold veins, lodes in silicified zones associated with basic to ultrabasic intrusives and complex volcano-sedimentary environments.

Class 1 - These deposits are representative of those classified as the intrusion-related cupola mineralization model, the Serra Alta target being the most important one. The Capitão and Fartura targets are similar. As mentioned below, these targets have similarities with Fort Knox and Dublin Gulch.

Class 1 targets are typically open pit deposits, but because all of the local targets are partially covered by quartzites and/or flat-lying younger Devonian sediments with steep slopes and mesa-like tops it is possible that parts of any deposit outlined will have to be mined by underground methods, should the grades allow.

Class 5 deposits are often associated with the same Serra Alta granitic environment. The Giant Quartz Vein targets can be classified as Class 5, since they represent sheeted veins penetrating into faults and fractures of the final phase of the granite intrusion. The Eduardo, Divisa and Frontel targets fit this type.

Class 6 - The Bit 3 target is associated with mafic-ultramafic layered intrusions. Ferradura is associated with mafic volcanic/volcanoclastic rocks in a very complex environment where quartz vein-hosted lode gold occurs and therefore can also be considered as a Class 6 type.

8.1 SERRA ALTA

The intrusive at Serra Alta is a syenogranite, composed predominantly of orthoclase, quartz and albite, with a peraluminous character. It has a moderate alkali content with high potassium, indicating a subalkaline composition. Despite the fact that it possesses certain affinities with A-type granites, the samples of the granite studied also have characteristics of highly fractionated I-type granites, whose petrographic and geochemical characteristics may be confused with the former. The hypothesis is that such similarities are derived from multi-stage actions involving reworked protoliths submitted to extensive fractionation.

Formed in a volcanic arc to post-collisional environment, the Serra Alta Granite has geochemical and petrographic similarities with granites observed in the Western Cordillera of the Andes. These granites are also distributed in the second phase of volcanic arc to post collisional environments, proposed by Pearce et al. (1984). They are comprised of intruded

bodies in active continental margins, due to the subduction of oceanic crust under continental crust.

Geochronological data (U-Pb and Sm-Nd) define an age of $2,083 \pm 21$ Ma (MSWD = 3.3) for the crystallization of the Serra Alta granite. The calculated crystallization age can be related to late phases of the great tectono-magmatic event which occurred on the South American craton in the Transamazonic Cycle (2,100 - 1,800 Ma).

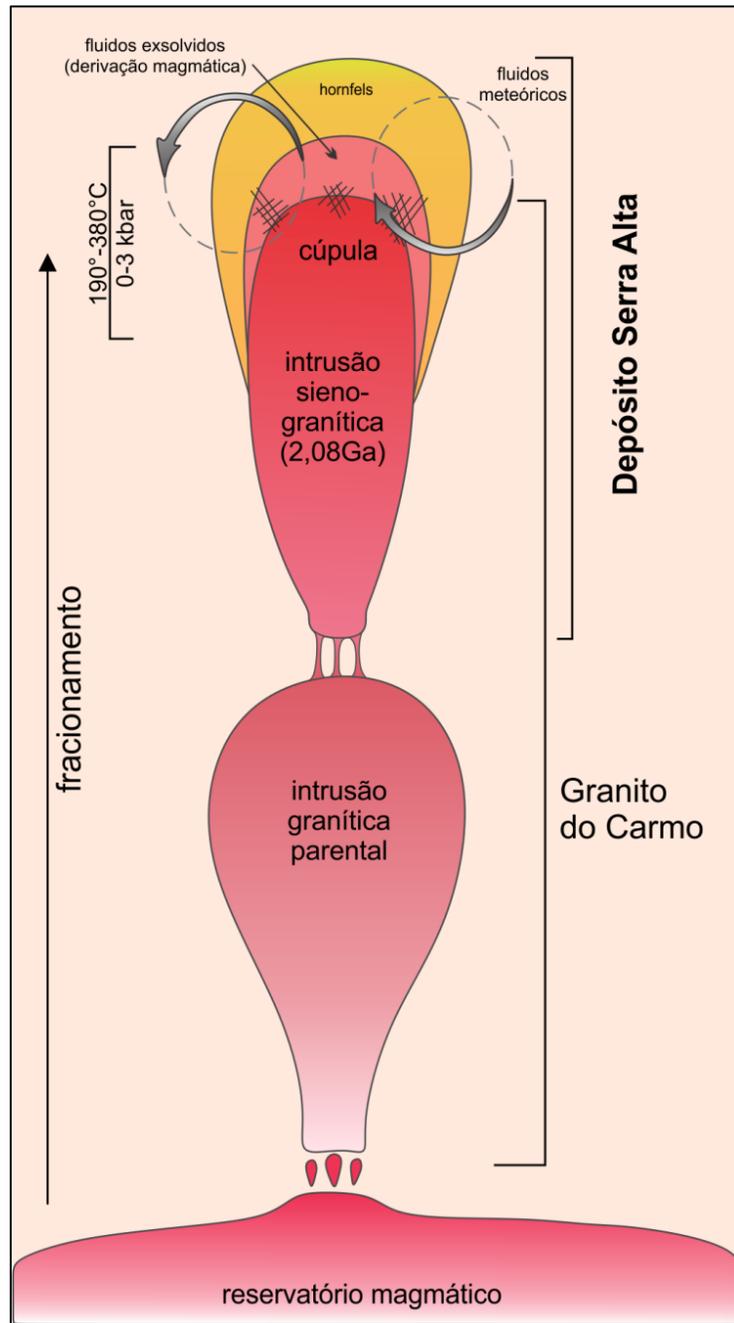
Fluid inclusion studies indicate the action of heterogeneous fluids during the formation of the northeast-southwest mineralized veins. This hydrothermal process is late to post magmatic, involving fluid systems of different compositions with a wide variety of salinity and density, which indicates the interaction of magmatic fluids with meteoric fluids. The conditions of entrapment of these fluids occurred at a temperature between 194° and 382° C and a pressure between 0.02 and 3 Kbar, indicating an epi- to mesozonal environment for the formation of the deposit.

MSM proposes that the Serra Alta Granite formed during the Paleoproterozoic and was generated under epi- to mesozonal conditions, from the extensive fractionation of a parental I-type magma.

This process of magmatic evolution involved the exsolution of fluids rich in volatiles, which were hypersaline and contributed metals (Au + Fe + Pb + Zn + Cu) to the granite cupola. The hydraulic pressure resulting from the actions of these confined fluids allowed for the cracking of the cupola, and consequently, the formation of fractures and cavities. These fluids maintained their gold content as ionic complexes, probably as AuS⁻ or Au(HS)⁻² species (Seward, 1984). The interaction with the meteoric solutions of low salinity favoured the lowering of temperature and changes in the composition of the fluid, which led to the precipitation of its metallic contents in the open spaces, as the gold-sulphide mineralization of the Serra Alta Deposit.

Figure 8.1 is a schematic representation of the hypothetical model of formation of the Serra Alta deposit.

Figure 8.1
Schematic Drawing Representing the Hypothetical Model of Formation of the Serra Alta Gold Deposit.



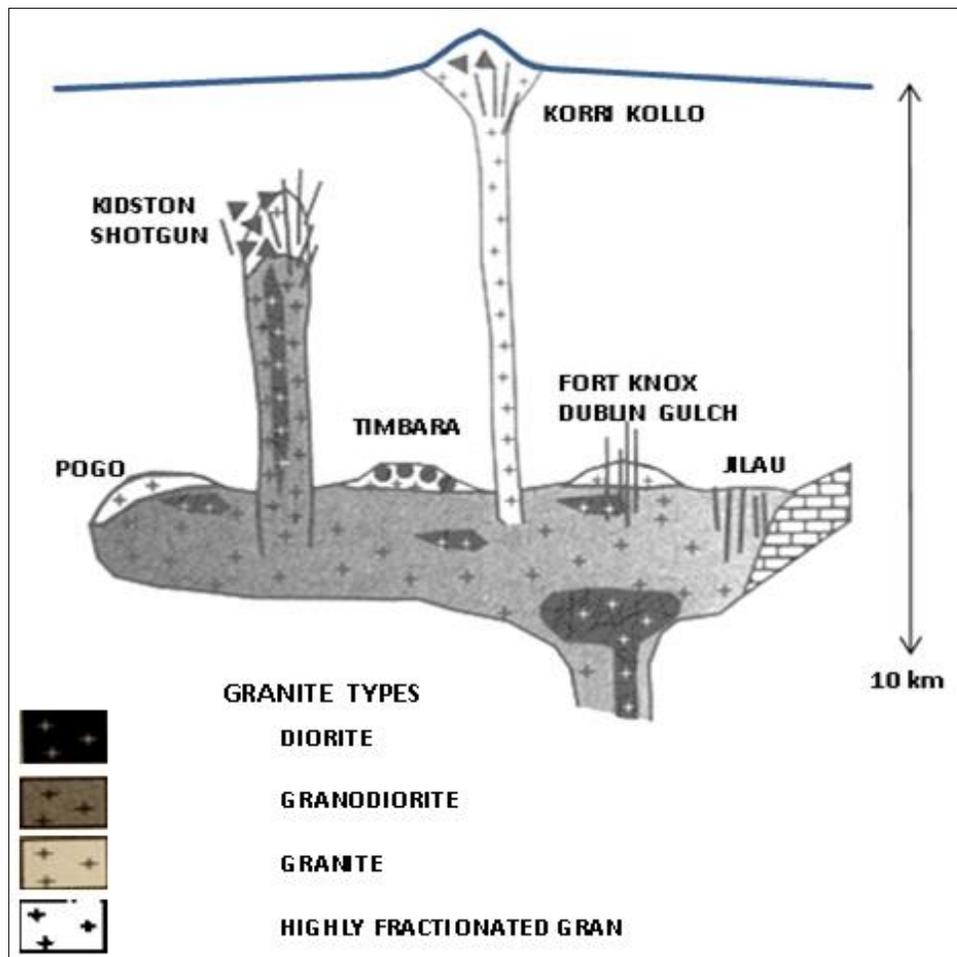
(Adapted from Hart, 2007)

MSM believes that the best model fit is the Fort Knox intrusion-related deposit in Alaska (Figure 8.2 and Figure 8.3). Table 8.1 shows a selection of granite-related gold deposits. All are younger in age than Serra Alta. Fort Knox and Dublin Gulch are believed to be the most closely related to Serra Alta.

Table 8.1
Selected Granite - Related Gold Deposits

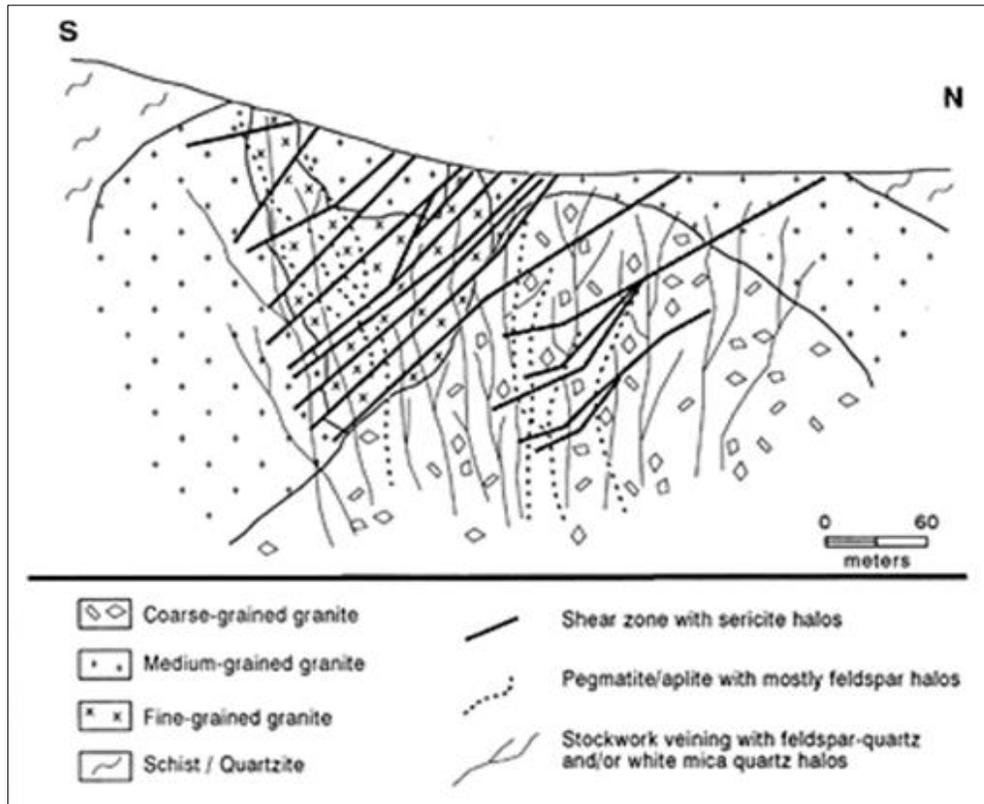
Deposits	Age	Region
Fort Knox	Cretaceous	Alaska
Pogo	Cretaceous	Alaska
Dublin Gulch	Cretaceous	Alaska
Kidston	Palaeozoic	Australian
Jilau	Palaeozoic	Tajikistan
Serra Alta	Proterozoic	Brazil

Figure 8.2
Schematic Models of Granite Related Gold Deposits



Source MSM, 2017

Figure 8.3
Cross Section of the Fort Knox Granite-Hosted Gold Deposit



Source: Bakke (1991).

9.0 EXPLORATION

Exploration work at the Monte do Carmo project and other targets in the region has been ongoing since 1985, conducted by MSM, its predecessors and associated companies, as described in Section 6 of this report. This chapter concentrates on work at the Serra Alta deposit, the planned focus of Cerrado's exploration activity.

9.1 EXPLORATORY APPROACH ADOPTED FOR THE PROJECT

The exploration work targeted hydrothermal concentrations of gold, located within a granite dome as well as nearby large quartz veins and shear zone-hosted gold. There are no known significant alluvial deposits in the region.

The project area is marked by deep weathering, in a tropical regime. Locally thick soils may reduce geological exposures and weathering of the exposed rock favours the remobilization of gold in saprolite, laterite and soils (Veiga, 1990).

The region is marked by extensive artisanal mining dating back to the 17th century when bandeirantes first explored and developed Brazil's interior. Later in the 20th century, with the increasing price of gold, artisanal miners returned to the sites mined by the bandeirantes. Once the garimpeiros had been compensated and moved out it was possible to inspect the mined sites and commence modern exploration.

The exploration activities carried out on the Monte do Carmo area properties by MSM, associated companies and JV partners can be summarized as follows:

- 1985 - Beginning of exploration work, on the VM Vein and other Giant Quartz Vein targets (MSML, 2011a). At that time Marex was searching for gold in the region. The data obtained by them were subsequently incorporated into the company files.
- 1989 - JV with Rio Tinto - investigation of 26 Giant Quartz Veins: detailed mapping; opening of large trenches; chip sampling; gold analyses by fire assay; processing of excavated material in small gravity plant (crusher, hammer mill, sluice box); exploratory drilling by reverse circulation (RC) drilling.
- 1991 - Partnership with the PNP Group. Exploration work focused on the Serra Alta granite and four of the Giant Quartz Veins (Raiz, VM, Dourado and Frontel), comprising: detailed mapping; sampling of hard rock (channel and chips); diamond drilling and assaying by atomic absorption (with MIBK analyses).
- 1994 - JV with the EBX Group. Work restricted to other targets in the area. In the Monte do Carmo area informal mining continued to be common.
- 1996 to 1998 - Creation of VMC and fund raising in Canada. Regional exploration scope, comprising: pioneering airborne geophysical surveys (magnetometer,

- radiometrics); geological mapping; geochemical stream sediment sampling (fine fraction and pan concentrates). At the Serra Alta target, detailed mapping was carried out; soil sampling on a regular grid; terrestrial geophysics (magnetometer and induced polarization (IP) dipole-dipole).
- 2004 - Focus of exploration work returns to the Serra Alta target: diamond drilling (5 new holes and re-drill of 3 holes by PNP). Gold analyzed by 30 g fire assay. The Giant Quartz Veins were not explored at this time.
 - 2005 to 2008: JV with Kinross. Kinross took over the project's technical data. The previous work in the area was systematically verified and, to a large extent, replicated, with the confirmation of results: stream sediment and soil sampling, trench sampling (hard rock, channel and chips), diamond drilling, gold analysis by fire assay. Adoption of accurate record keeping and technical controls, to what Kinross considered to be NI 43-101 compliant (Kinross, 2008).
 - 2009 - Exploration effort concentrated on the Serra Alta target, with land acquisition and cessation of informal mining. Full access to the target made it possible to review geological modeling more carefully and, for the first time, the internal evaluation of the mineral resources (Geoprocess, 2011).
 - 2012 to August, 2017 - Partnership with a group from Parana State. Construction of infrastructure and a bulk sampling gravity plant at Serra Alta. Processing of about 60,250 tons of ore and production of 2,923 oz of gold.

9.2 METHODOLOGY ADOPTED

The exploration work completed covered the entire concession area and other permits in the region. This included:

- environmental inspection and data integration;
- interpretation of aerial photographs and satellite images;
- airborne geophysical surveys;
- regional geological mapping;
- alluvial geochemical prospecting (stream sediment fine fraction and pan concentrates).

The known promising areas and newly revealed targets were systematically investigated to verify their gold mineralization potential. The work completed covered:

- detailed geological mapping;
- soil geochemistry;
- terrestrial geophysics (magnetometer and induced polarization);
- opening of pits and trenches;
- sampling of excavations and mining faces in the garimpos;

- various exploratory drilling programs - motorized auger, RC and diamond drilling.

The internal mineral resource evaluation was carried out based on the following:

- RC and diamond drilling data
- statistical and geostatistical analysis of the results
- three-dimensional modeling of mineralized bodies
- estimation of the content of the block model.

MSM reports that the planning and control of the exploration work followed guidelines to minimize local impacts, ensure the recovery of affected sites and protect the health and safety of workers, according to Brazilian law.

An environmental inspection was carried out on the exploration properties and surrounding areas, with preliminary evaluation of the state of the vegetation cover, soil and water. The observations made covered the sites occupied by garimpeiros, pastures, houses and roads. At the same time, collection of socioeconomic data was initiated at the properties and in the region. In 2007, the environmental consulting company Brant Meio Ambiente Ltda. was contracted to perform a preliminary environmental assessment in the area of ANM concession 860.187/1988 (Kinross, 2008).

Detailed topographic surveys of the areas were completed with the establishment of 7 auxiliary landmarks in the Monte do Carmo Project area (4 at Serra Alta and 3 at Capitão). A more recent topographic survey completed with modern drone-type equipment was also conducted by MSM

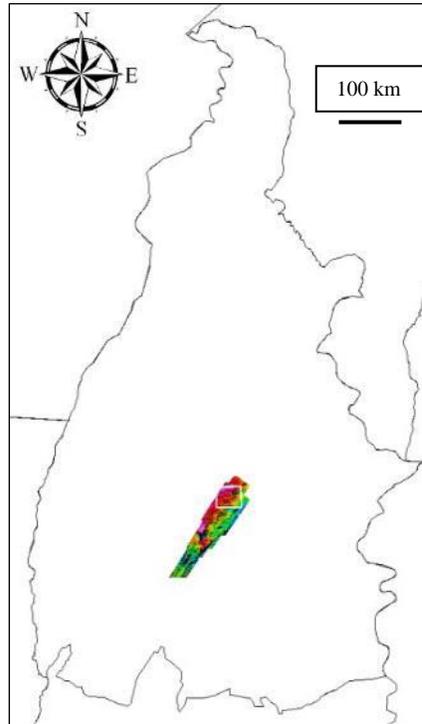
9.3 AIRBORNE GEOPHYSICAL SURVEY

Airborne geophysical surveying was conducted in the area of interest around Porto Nacional and Monte do Carmo, in order to discriminate the lithologies, structures and potentially auriferous hydrothermal zones.

The survey was performed with a magnetometer and gamma-spectrometer (MAG-GAMA) in an area covering approximately 4,500 km² (Figures 9.1 and 9.2). The service was contracted by VML with Geomag SA. Prospecções Geofísicas, in 1996 (MSML, 2011a).

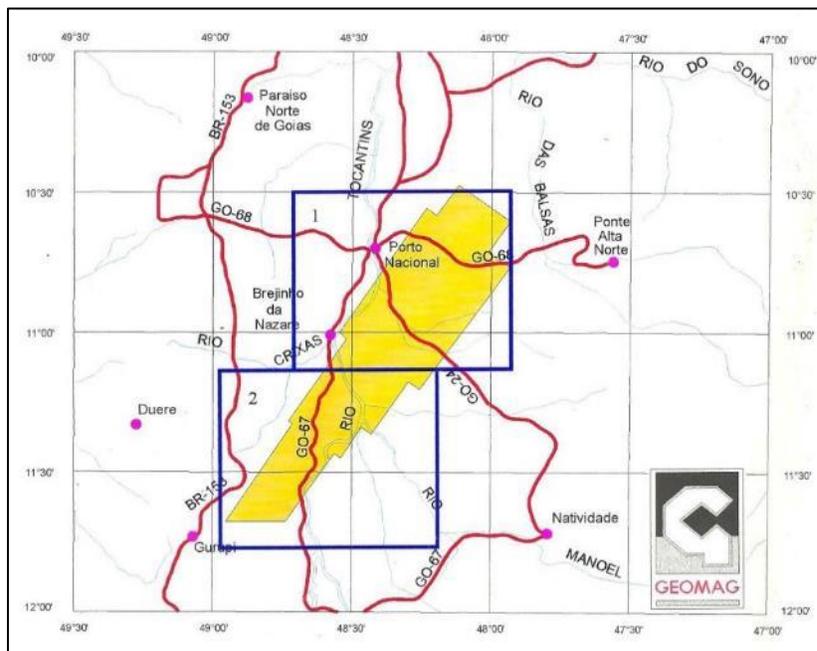
The survey recorded total field magnetics and discriminating radiometrics with a line spacing of 220 m and a ground clearance of 100 m, for a total of 21,520 line kilometres

Figure 9.1
Airborne Geophysical Survey Area within Tocantins State



Source: MSM 2018

Figure 9.2
Airborne Geophysical Survey Limits - Geomag, 1996



Source: MSM 2018. North at top of grid. Scale on grid labels.

The final products of the survey were presented on maps at 1: 100,000 scale:

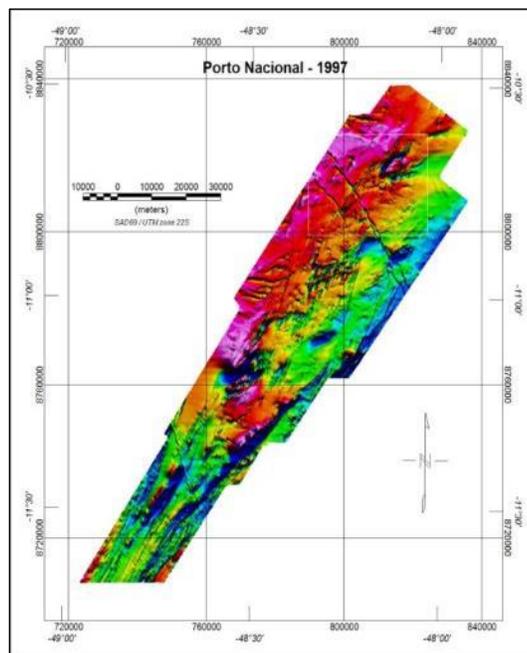
- Outline of the total magnetic field (corrected for IGRF variation).
- Pseudo-illumination of the total magnetic field.
- Total count radiometric contour map.
- Potassium radiometric contour map.
- Uranium radiometric contour map.
- Thorium radiometric contour map.
- Ternary distribution of the radiometric channels of Th, U and L.
- Elevation of the terrain

The surveys confirmed the main geological features of the area surveyed. The northeast-southwest regional structuring is clear (Figures 9.3 to 9.8). Known gold occurrences coincide with lineaments marked by high magnetic responses.

Interpretation performed by RTDM (Rio Tinto) (1997) highlighted 68 anomalous prospective targets. Those considered to be the most important ones were systematically investigated in the course of exploration work. Many of them have confirmed occurrences of gold.

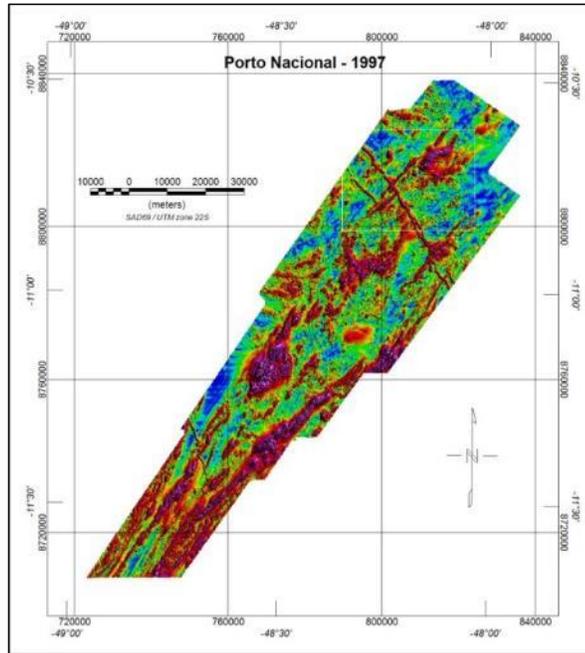
In 1999 the results of the regional work were reprocessed by De Beers, in order to detect potential diamond-hosting bodies (kimberlites and lamproites). Sixty-six anomalies were detected, of which 19 were followed up in detail, but without confirmation of the desired host lithologies (MSML, 2011a).

Figure 9.3
Total Magnetic Field - Geomag, 1996



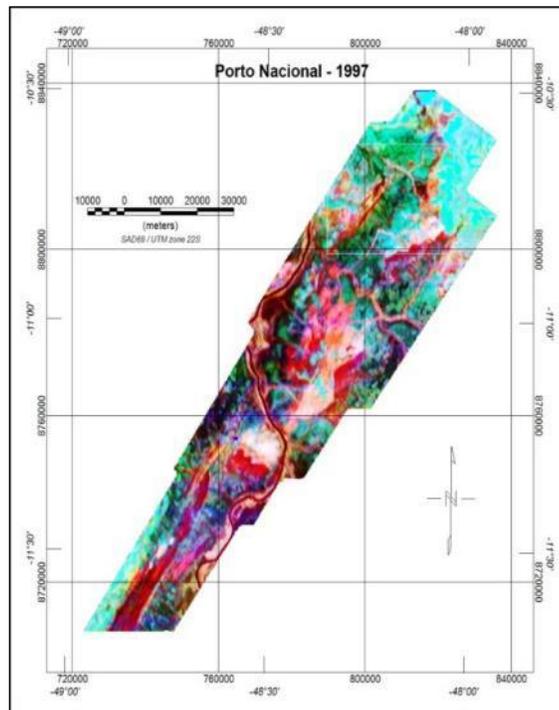
Source MSM, 2018

Figure 9.4
Amplitude of the Analytical Signal



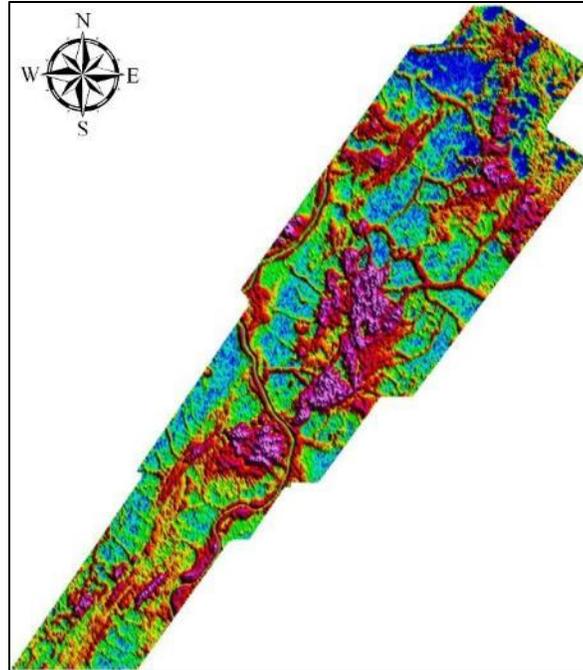
Source MSM, 2018

Figure 9.5
Gamma Spectrometry Ternary Plot



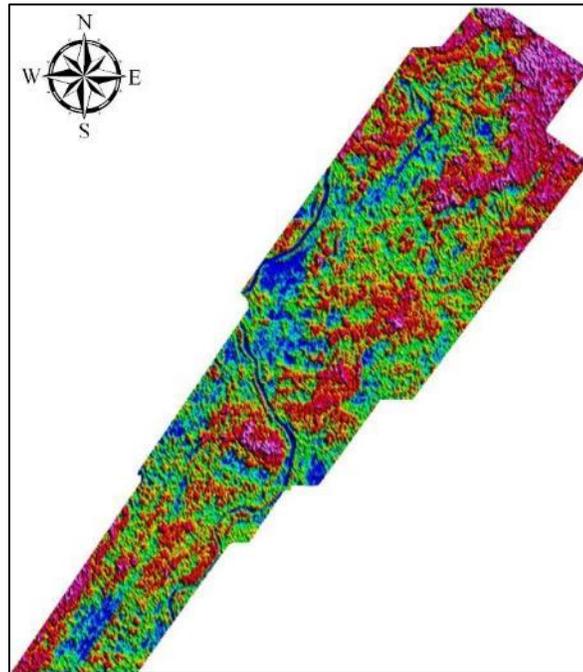
Source MSM, 2018

Figure 9.6
Potassium Count



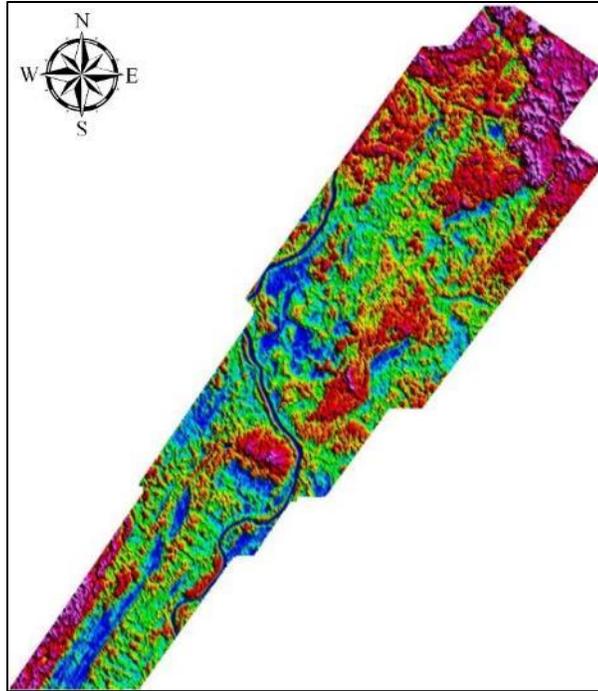
Source MSM, 2018. Scale of survey block on Figure 9.4.

Figure 9.7
Uranium Count



Source MSM, 2018. Scale of survey block on Figure 9.4.

Figure 9.8
Thorium Count



Source MSM, 2018. Scale of survey block on Figure 9.4.

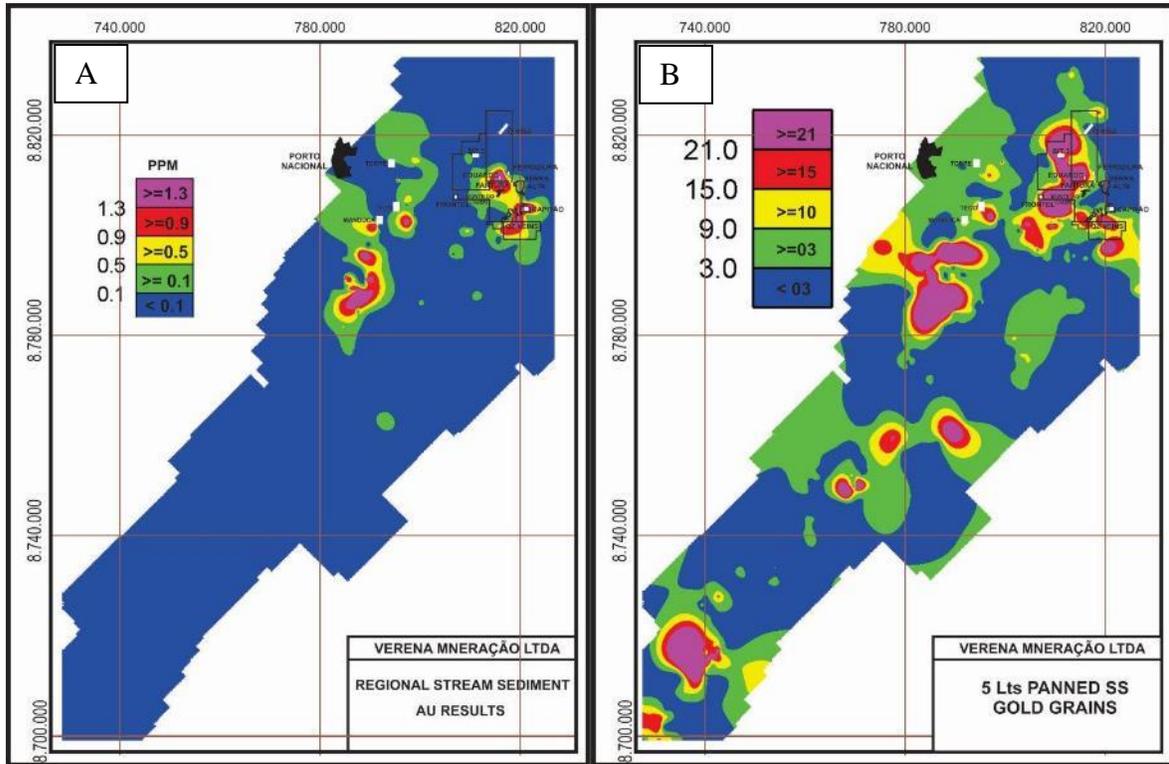
9.4 STREAM SEDIMENT SURVEY

Regional and detailed stream sediment surveys were carried out in 1996 by VMC, after the Airborne Geophysical Survey. The regional work covered an area of about 1 million hectares and the results, particularly those for gold, were used to define the areas with the most potential.

A total of 369 5-litre samples were collected regionally. Two litres were split off and analyzed for gold by 30 g fire assay (Figure 9.9A) as well as for Cu, Pb, Zn and As (Figure 9.10C, D, E and F). The remaining material from each sample point was panned and the number of gold “colours” were counted (Figure 9.9B).

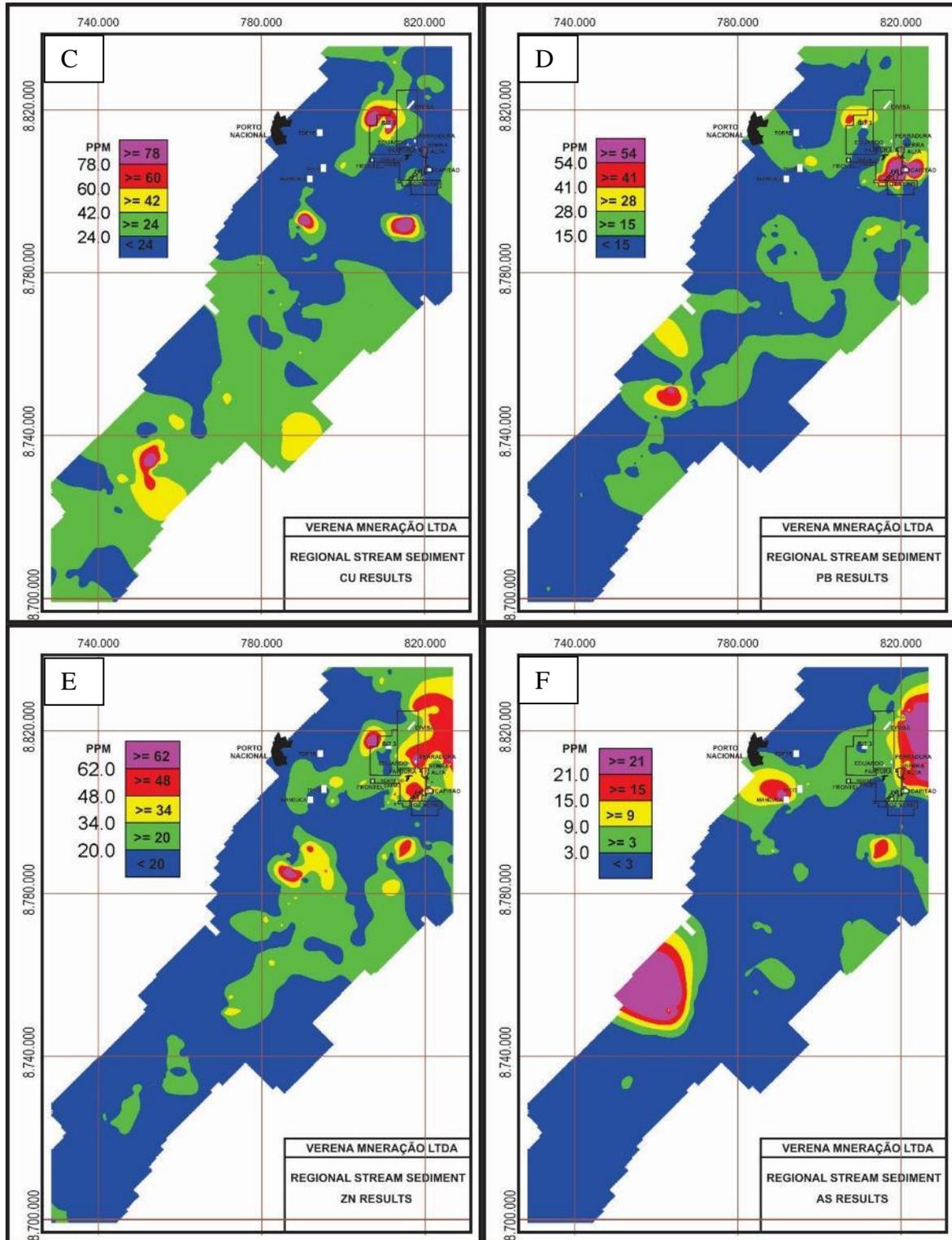
For each element, the results were interpreted after statistical studies.

Figure 9.9
(A)-Stream Sediment Au Results (B) Au Colour Count



Source: MSM 2018. North at top of figure. Scale in metres on map grid. Source MSM, 2018.

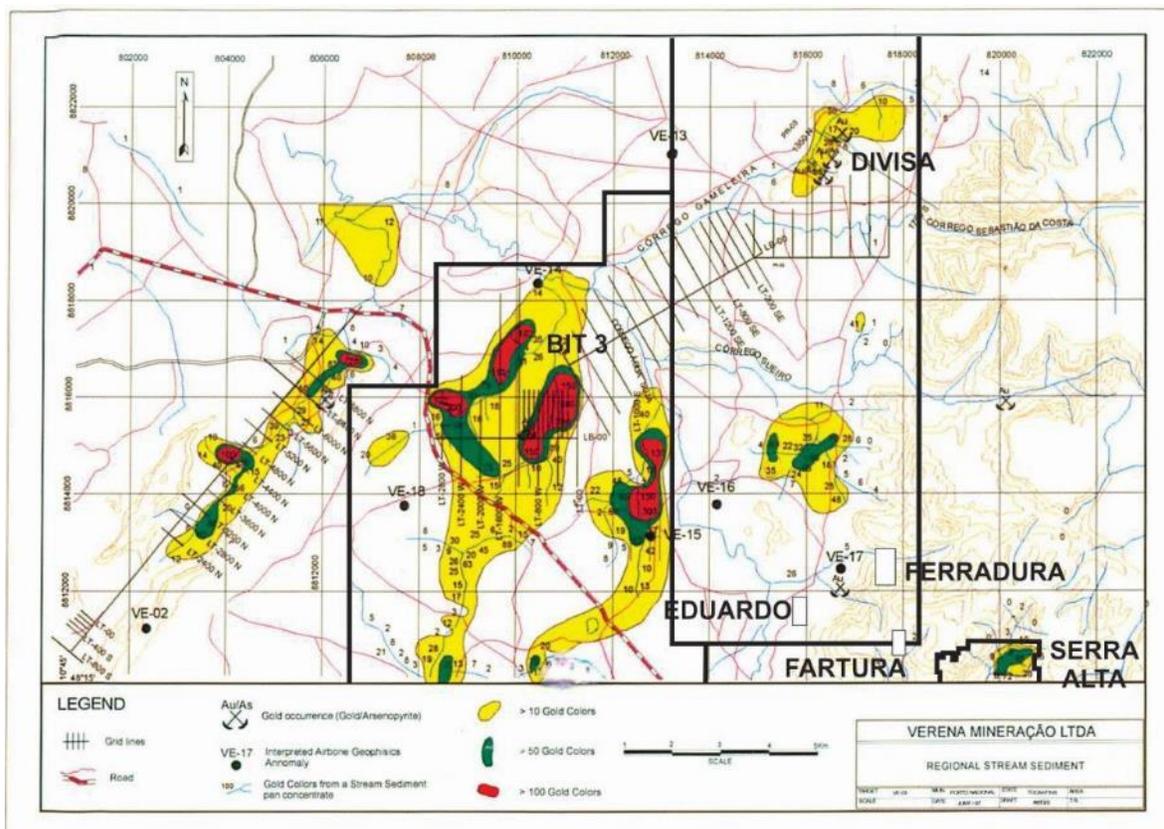
Figure 9.10
Regional Stream Sediment Interpretation Cu, Pb, Zn and As



Source MSM, 2018. North at top of figure. Scale in metres on map grid. Source MSM, 2018.

The most important drainages were sampled in detail, but only for gold colours (Figure 9.11). The Bit-3 target stood out as the most anomalous by the stream sediment survey.

Figure 9.11
Detailed Stream Sediment Survey Showing BIT-3 as the Most Anomalous Target



Source MSM, 2018

9.5 TOPOGRAPHIC SURVEYS

Several terrestrial topographic surveys were completed at the Serra Alta target and one at Ferradura.

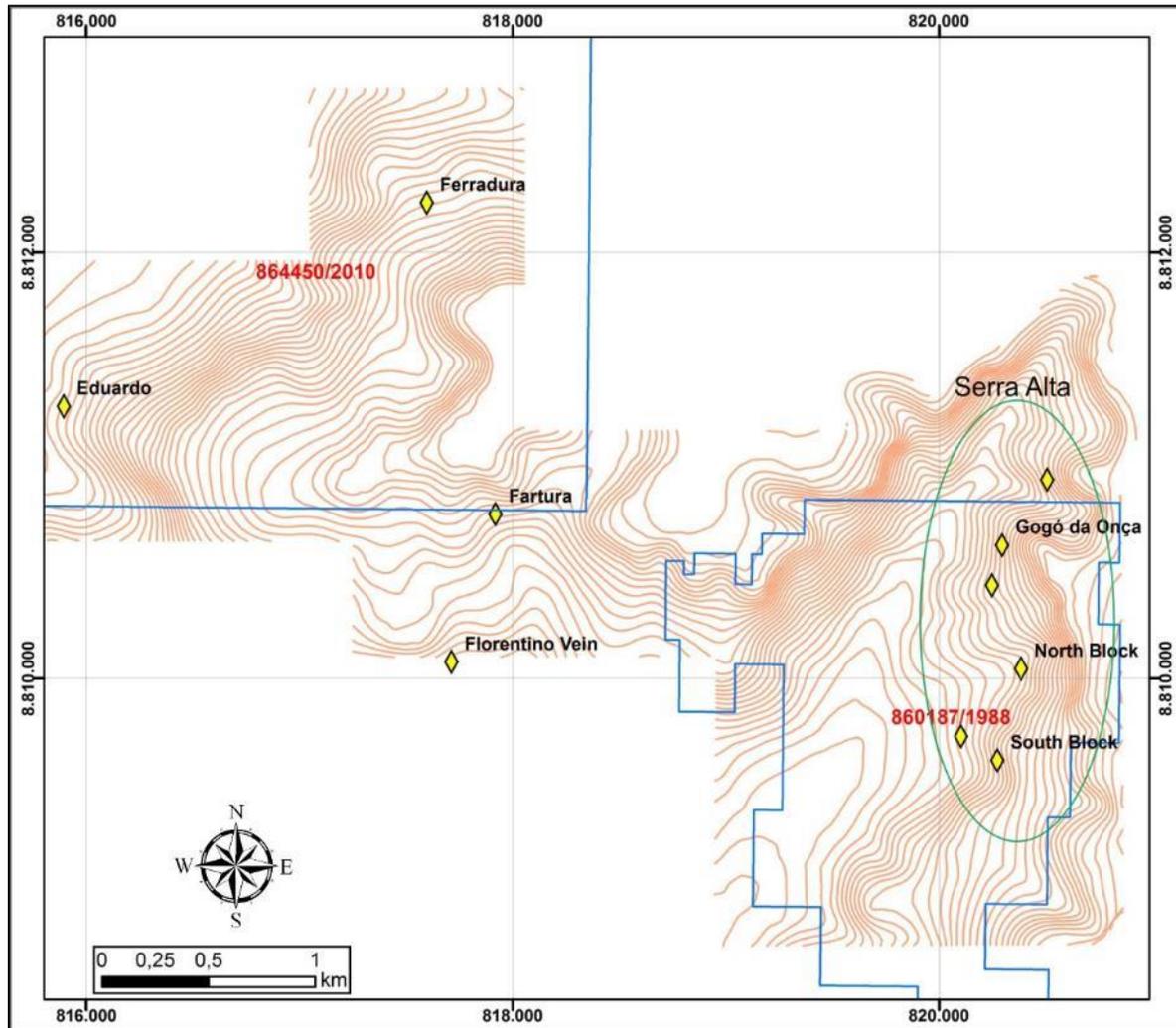
The first topographic survey in the Serra Alta area was carried out by PNP in 1991, only partially covering the target area with contour lines every 5 m. This survey also plotted the location of many of the artisanal pits.

Later, in 2013, a detailed topographic survey was carried out on the South Block, North Block and the camp area at Serra Alta, this time with contour lines every 1 m.

In January, 2018 the services of Drone Records were contracted to carry out topographic surveys of the Serra Alta, Fartura, Ferradura and Eduardo targets followed by a second

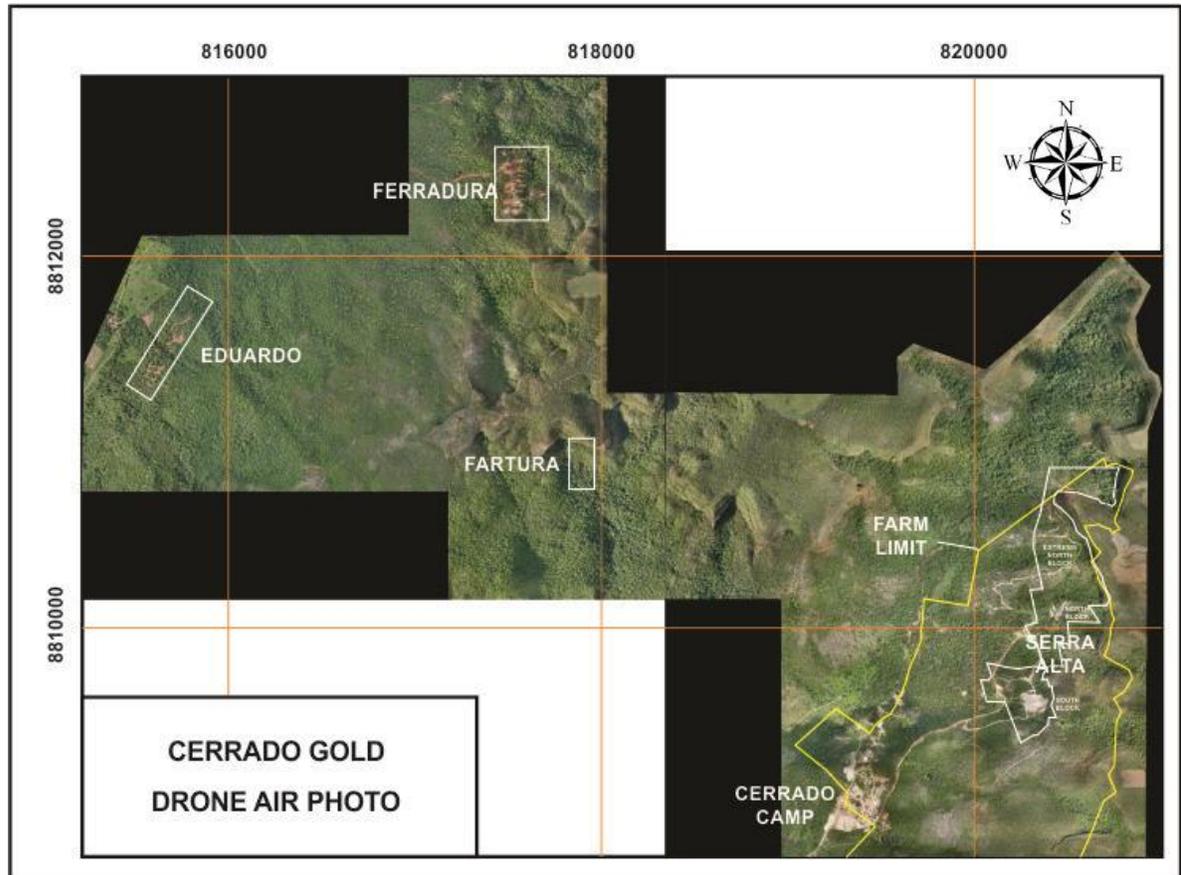
survey over the Capitão and Giant Quartz Veins targets using a Lidar-equipped drone. This most recent survey captured the recent small-scale open pit mining completed by MSM. The drone also captured aerial photography (Figure 9.12 and 9.13).

Figure 9.12
2018 Drone Topography of Serra Alta and Ferradura



Source MSM, 2018

Figure 9.13
Drone Air Photo of Serra Alta and Ferradura



Source MSM, 2018. Scale in metres on photo grid.

9.6 CHIP CHANNEL AND GRAB SAMPLING

Channel sampling was first carried out by the PNP Group in 1991. A total of 1,146 approximately one metre samples were collected. In 2006, Kinross, under a JV with VMC, collected a total of 1,345 channel samples, but only 596 were collected within the Cerrado properties. In December, 2017 MSM collected 121 channel samples in hard rock limited to the Serra Alta south pit. Lara Resources has also collected some grab and chip samples on the occasion of a due diligence visit.

Most of the channel samples in fresh rock were collected using an electric saw with a diamond disk blade, powered by a portable generator (Figure 9.14).

Figure 9.14
PNP Channel Samples Collected in Hard Rock Using Electric Saw with Diamond Blade



Source MSM, 2018

The PNP channel sampling was limited to the Serra Alta Target, North, Central and South Blocks. Sampling at the Extreme North Block was only done by chip and grab samples, discussed below.

The 1,146 PNP channel samples were analyzed only for gold, by atomic absorption (MIBK finish). It is not known what the size of the sample aliquot was.

Figure 9.15 to Figure 9.17 show the samples locations and results above 1.0 g/t Au for the North, Central and South Blocks channel samples respectively. Figure 9.18 shows an example of a PNP channel in hard rock, sized 4 cm by 3 cm.

Figure 9.18
PNP Channel Sampling in Hard Rock



Source: MSM 2018.

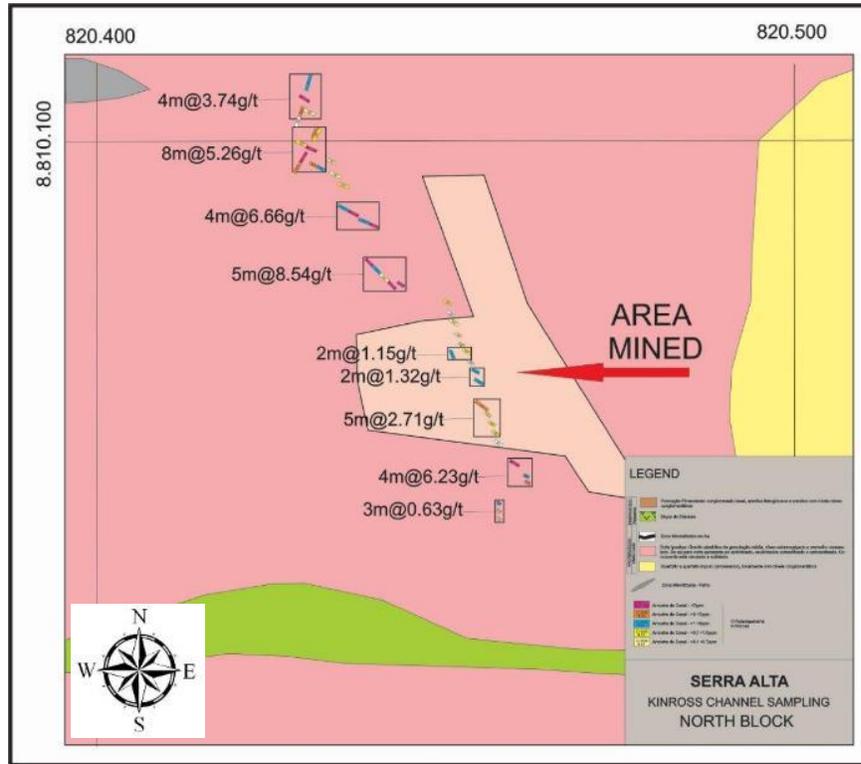
In 2006, Kinross collected a total of 618 channel samples of which 110 were collected at Serra Alta, 45 in the North Block and 65 in South Block. Additionally 293 samples were collected at the Capitão target and 215 at the Giant Quartz Veins.

The cut channels were 5 cm in width and 4 cm in depth with lengths between 1 and 2 m, selected in an attempt to honour lithological changes. All were assayed for gold by fire assay and by a multi-element determination.

The channels collected at Serra Alta and Capitão were located with a total station survey instrument. At other targets the samples were located by GPS.

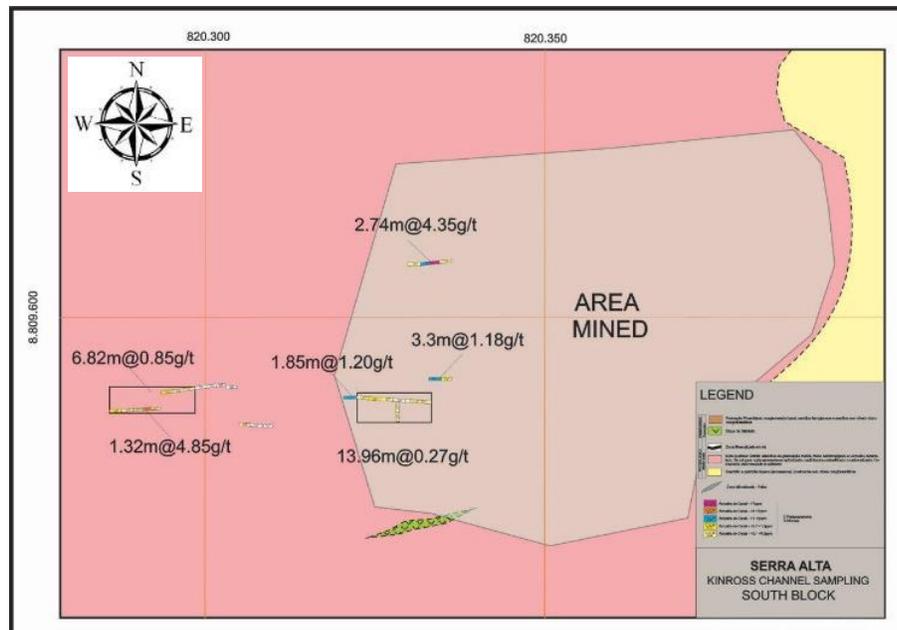
Figure 9.19 and Figure 9.20 show the best results from the channel samples at the North and South Blocks respectively. Sampling results from the Capitão and Giant Quartz Veins targets are not shown.

Figure 9.19
Kinross Channel Sample Locations and Best Results at Serra Alta North Block



Source: MSM 2018. Scale in metres on grid lines

Figure 9.20
Kinross Channel Sample Location and Best Results at Serra Alta South Block



Source: MSM 2018. Scale in metres on grid lines

In December, 2017, MSM washed much of the floor of the South Pit, and cut four parallel channels, 10 m apart and collected 121 samples from them. The channels laid out on an azimuth of N75E, perpendicular to veining. The channels cut were 9.0 cm wide by 2.5 cm deep with samples taken every metre. (Figure 9.21 A and D). Half of the sample was sent to the laboratory and the right half was stored in core boxes (Figure 9.21 B and C).

Figure 9.21
MSM Channel Sampling

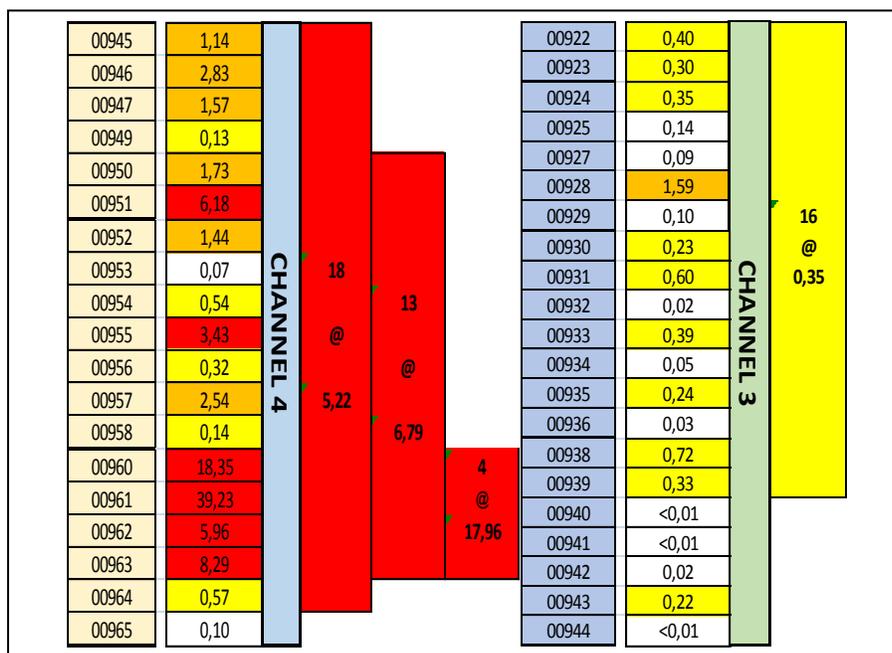


Source: MSM 2018. (A and B) Channel samples being collected and stored in core box; (C) 1-m samples stored in plastic bags; (D) 1 m channel after sampling.

Partial results for 86 of the 121 samples collected have been returned. The samples were analyzed by SGS using the screen metallics method. The channel locations are shown in Figure 9.22. The individual results of the four channels are shown in Figure 9.23 with a simple arithmetic mean for the intervals.

Channel sampling at Serra Alta was ongoing by Cerrado at the time of Micon's visit.

Figure 9.23 (cont'd.)



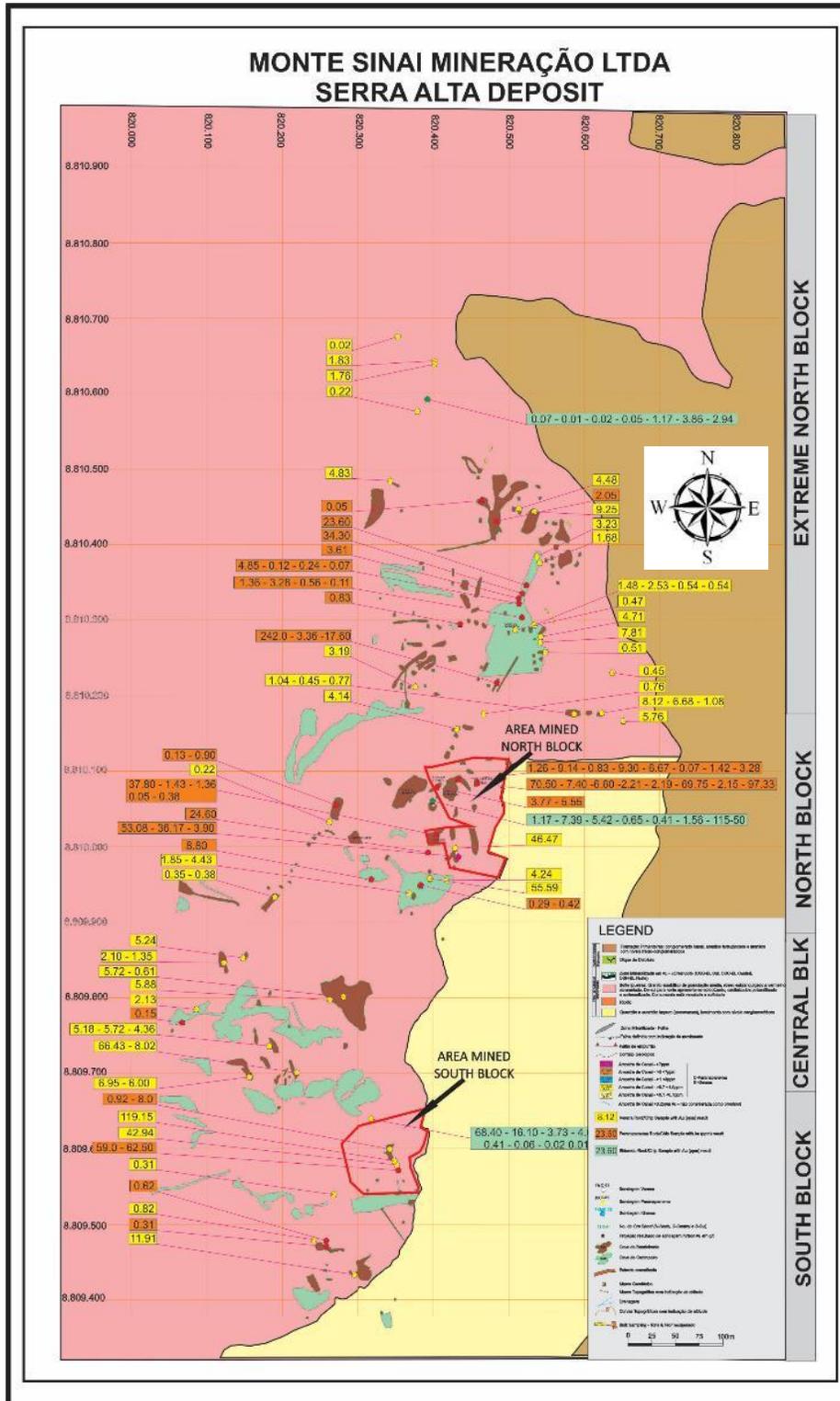
Source MSM, 2018

A total of 127 grab and chip samples were collected within the Serra Alta deposit by PNP, Verena/MSM and Eldorado (the latter during due diligence), distributed as shown in Table 6. The results are shown on Figure 9.24. The figure also highlights the garimpeiro and bandeirante pit locations.

Table 9.1
Grab/Chip Samples Collected at Serra Alta

Location	No. of Samples			Total
	PNP	VML	Eldorado	
South Block	5	5	12	22
Central Block	1	14	0	15
North Block	32	8	0	40
Extreme North Block	17	28	7	52
Total	55	55	19	129

Figure 9.24
Serra Alta Grab/Chip Sample Locations and Results



Source: MSM 2018. North at top of figure. Scale in metres on map grid. Source MSM, 2018. Samples collected by PNP (orange) VML (yellow) and Eldorado (green).

10.0 DRILLING

Drilling at the Monte do Carmo project took place in six different stages:

- 1989 - RC drilling performed by Rio Tinto in a JV with VML at the Giant Quartz Veins;
- 1991 to 1992 - Diamond drilling executed by PNP in a JV with VML at the Serra Alta deposit and Giant Quartz Veins target;
- 1997 - Diamond drilling carried out by VMC at Serra Alta and the BIT-3 target;
- 2006 to 2008 - Diamond drilling executed by Kinross at Serra Alta and the Conceição target;
- 2017 - Diamond drilling by Cerrado at the Ferradura and Eduardo Targets;
- 2018 - Ongoing diamond drilling by Cerrado at Serra Alta since January, 2018.

10.1 HISTORIC DRILLING

From 1989, up to Cerrado's involvement in the project in 2017, a total of 150 drill holes, totaling 14,630.97 m, were completed on the Giant Quartz Veins, Serra Alta, Capitão and Bit-3 targets (Table 10.1). The collar information for the holes drilled at Serra Alta is resented in Table 10.2.

Table 10.1
Monte do Carmo Project, Historical Drilling Summary

Targets	Verena		Parapanema		Kinross		Rio Tinto		Total Metres	Total Holes	ANM Concession
	Metres	No. Of Holes									
Serra Alta	449.90	5	2,713.57	31	3,083.30	17	0.00	0	6,246.77	53	860.187/88
Giant Qtz Veins	0.00	0	1,061.05	17	436.90	4	3,876.30	53	5,374.25	74	864.442/05
Capitão	0.00	0	0.00	0	1,085.95	9	0.00	0	1,085.95	9	860.187/88
Bit-3	1,924.00	14	0.00	0	0.00	0	0.00	0	1,924.00	14	864.352/12
Ferradura	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	864.450/10
Eduardo	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	864.450/10
Total	2,373.90	19	3,774.62	48	4,606.15	30	3,876.30	53	14,630.97	150	

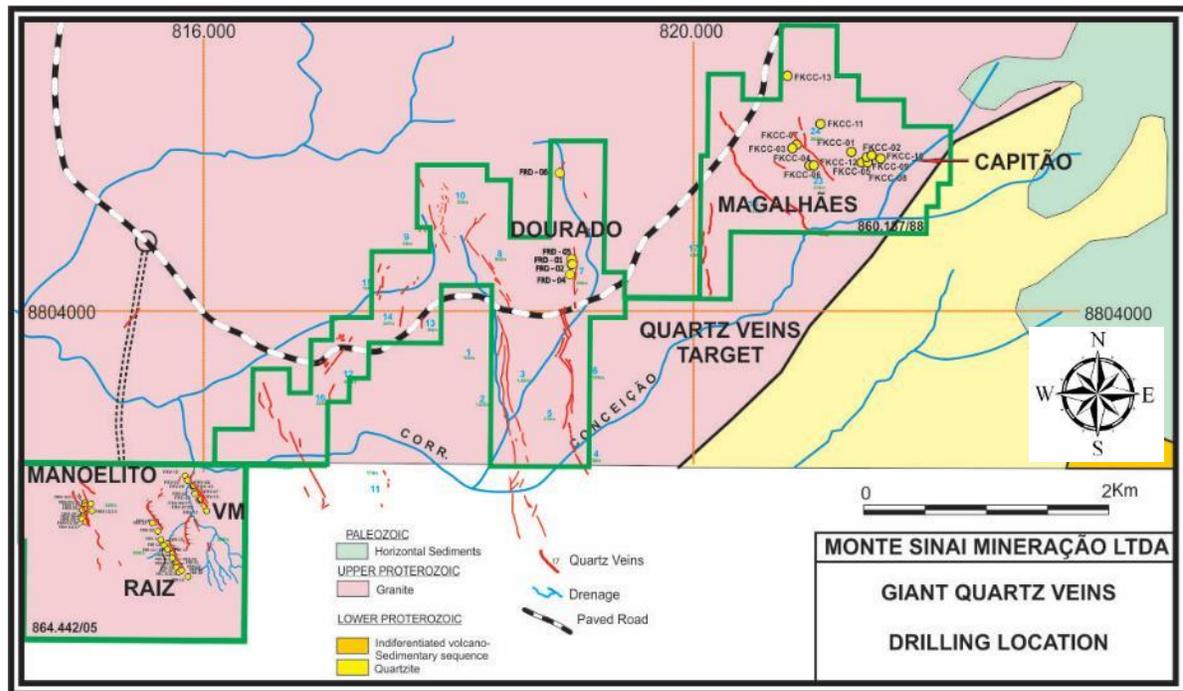
Table 10.2
Historical Drill Hole Collar Information at Serra Alta

Drill Hole	X Coordinate	Y Coordinate	Elevation	Drill Hole	Company	Dip	Az.
FKMC-01	820411.33	8810104.66	199.30	454.57	Kinross	-45.00	199.30
FKMC-02	820316.20	8810162.92	310.20	449.19	Kinross	-50.00	310.20
FKMC-03	820419.31	8809985.31	163.30	458.52	Kinross	-50.00	163.30
FKMC-04	820316.37	8810049.58	201.90	435.17	Kinross	-50.00	201.90
FKMC-05	820135.80	8809804.50	164.35	415.60	Kinross	-50.00	164.35
FKMC-06	820312.27	8809705.91	220.10	478.49	Kinross	-40.00	220.10
FKMC-07	820476.43	8809517.50	148.10	541.51	Kinross	-50.00	148.10
FKMC-08	820454.60	8809636.86	145.10	563.38	Kinross	-50.00	145.10
FKMC-09	820518.62	8809742.03	220.10	564.49	Kinross	-50.00	220.10
FKMC-10	820535.03	8809885.39	220.10	561.66	Kinross	-50.00	220.10
FKMC-11	820252.02	8809835.35	92.70	445.45	Kinross	-45.00	92.70
FKMC-12	820370.53	8809884.19	163.10	469.88	Kinross	-45.00	163.10
FKMC-13	820310.36	8809922.33	157.10	452.46	Kinross	-45.00	157.10
FKMC-14	820353.64	8810020.89	142.10	445.64	Kinross	-45.00	142.10
FKMC-15	820316.33	8809821.40	77.75	464.53	Kinross	-45.00	77.75
FKMC-16	820486.61	8810117.80	231.80	489.72	Kinross	-40.00	231.80
FKMC-17	820486.88	8810117.52	226.20	489.69	Kinross	-50.00	226.20
FRC-01	820286.80	8809590.60	84.19	459.06	PNP	-60.00	84.19
FRC-02	820323.98	8809585.53	89.99	478.91	PNP	-60.00	89.99
FRC-03	820266.26	8809632.88	101.75	441.87	PNP	-60.00	101.75
FRC-04	820280.51	8809731.66	70.00	468.69	PNP	-60.00	70.00
FRC-05	820316.03	8809543.52	102.90	467.53	PNP	-60.00	102.90
FRC-06	820325.58	8809686.42	117.85	484.20	PNP	-60.00	117.85
FRC-07	820119.62	8809699.97	83.63	412.81	PNP	-60.00	83.63
FRC-08	820254.13	8809533.37	87.65	447.55	PNP	-60.00	87.65
FRC-09	820323.47	8809623.39	98.20	473.15	PNP	-60.00	98.20
FRC-10	820172.87	8809696.03	86.55	436.84	PNP	-60.00	86.55
FRC-11	820238.25	8809442.11	119.57	498.20	PNP	-50.00	119.57
FRC-12	820412.20	8810096.84	102.53	455.00	PNP	-50.00	102.53
FRC-13	820156.92	8809748.46	91.08	425.71	PNP	-50.00	91.08
FRC-14	820281.81	8809438.06	100.52	507.35	PNP	-50.00	100.52
FRC-15	820381.56	8810100.71	125.43	449.54	PNP	-50.00	125.43
FRC-16	820313.03	8809489.61	121.65	487.69	PNP	-50.00	121.65
FRC-17	820386.97	8810005.65	120.75	452.25	PNP	-50.00	120.75
FRC-18	820246.64	8809480.67	105.90	482.69	PNP	-50.00	105.90
FRC-19	820426.49	8810273.22	137.30	531.95	PNP	-60.00	137.30
FRC-20	820438.83	8810136.47	36.15	462.81	PNP	-50.00	36.15
FRC-21	820432.19	8810108.54	100.70	455.00	PNP	-50.00	100.70
FRC-22	820313.03	8809489.61	67.11	487.69	PNP	-50.00	67.11
FRC-23	820313.03	8809489.61	73.84	487.69	PNP	-60.00	73.84
FRC-24	820403.42	8810082.35	104.35	455.86	PNP	-50.00	104.35
FRC-25	820391.96	8810056.55	82.86	451.63	PNP	-50.00	82.86
FRC-26	820437.91	8810092.37	79.75	454.72	PNP	-50.00	79.75
FRC-27	820393.80	8810035.18	74.87	451.68	PNP	-50.00	74.87
FRC-28	820330.17	8809583.30	70.24	480.13	PNP	-45.00	70.24
FRC-29	820330.17	8809583.30	65.21	480.13	PNP	-90.00	65.21

Drill Hole	X Coordinate	Y Coordinate	Elevation	Drill Hole	Company	Dip	Az.
FRC-30B	820326.58	8809603.99	11.05	479.55	PNP	-70.00	11.05
FMC-01	820372.56	8810116.76	85.90	445.00	Verena	-45.00	85.90
FMC-02	820400.76	8810036.86	86.25	456.77	Verena	-45.00	86.25
FMC-03	820361.06	8810082.56	85.45	447.73	Verena	-45.00	85.45
FMC-04	820370.06	8809974.06	103.30	458.42	Verena	-45.00	103.30
FMC-05	820234.16	8810081.36	89.00	429.20	Verena	-45.00	89.00

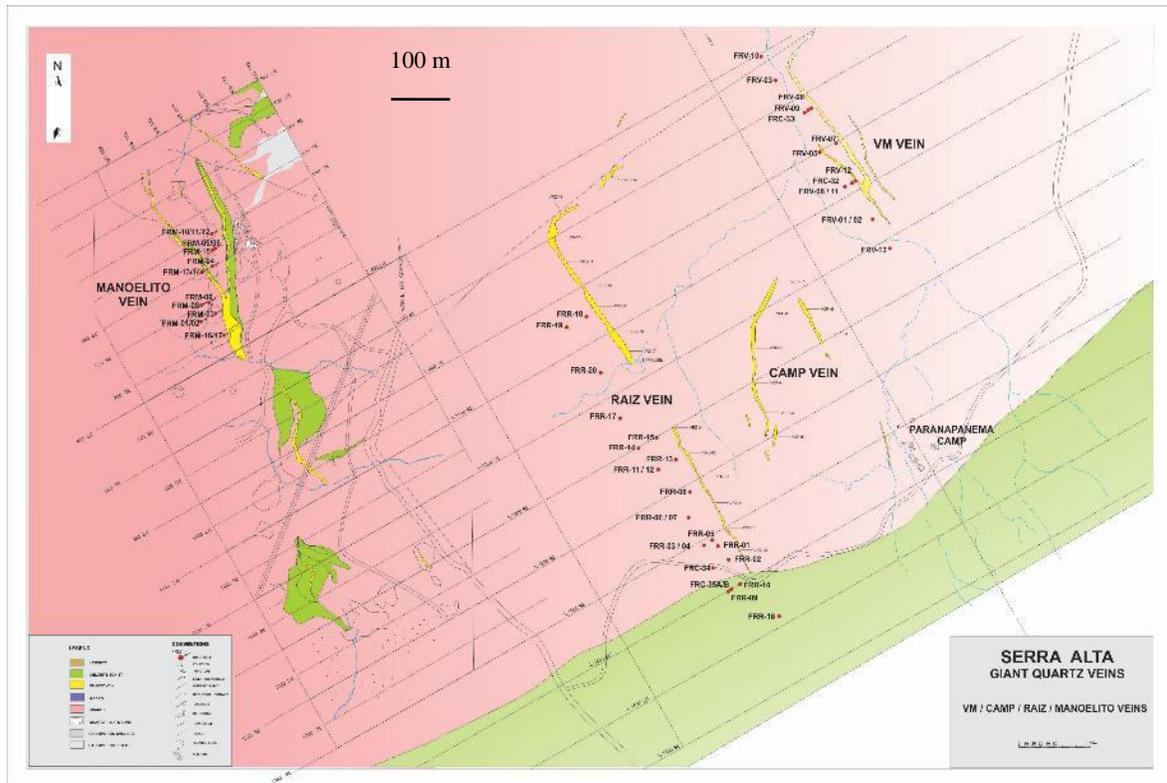
The first drilling was carried out by Rio Tinto in a JV with VML in 1989. Rio Tinto completed 53 RC drill holes totaling 3,876.30 m at three of the Giant Quartz Veins, Raiz (20 holes), VM (16 holes) and Manoelito (17 holes) (Figure 10.1 and 10.2).

Figure 10.1
Giant Quartz Veins Map Showing the Location of the Rio Tinto and PNP Drill Hole Locations



Source: MSM, 2018

Figure 10.2
Geology and Drill Hole Locations at the Raiz, VM and Manoelito Veins



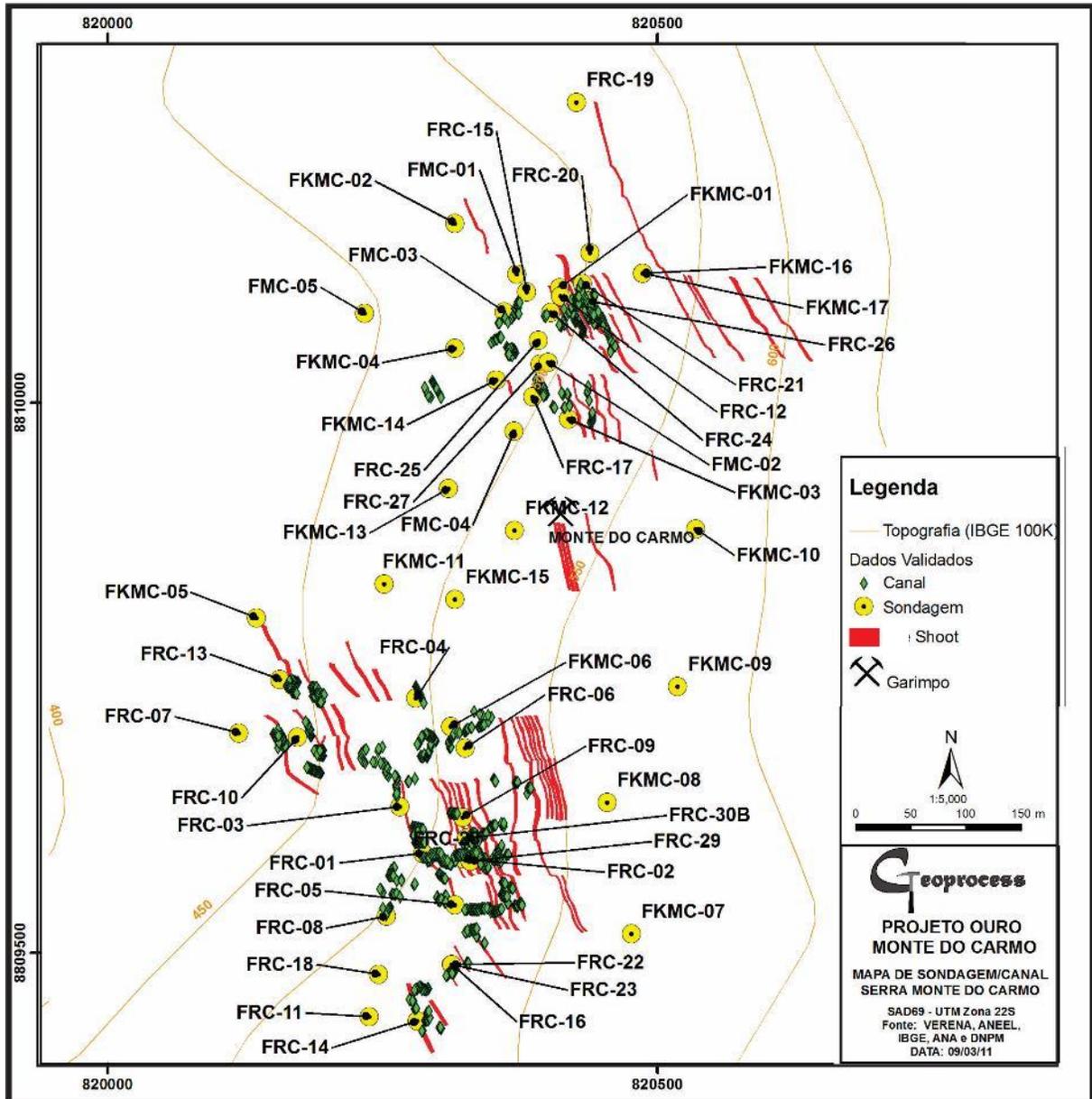
Source MSM, 2018

In 1991 and 1992, the PNP Group, through its subsidiary Mineração Taboca, in a JV with VML, completed 47 diamond drill holes. 31 holes were drilled at the Serra Alta target (2,713.57 m, Figure 10.3) and 17 at the Giant Quartz Veins (Figure 10.1), of which two drill holes targeted the VM Vein (96.53 m), four targeted the Raiz Vein (247.79 m), six targeted the Dourado Vein (378.19 m, Figure 10.4) and five targeted the Frontel Vein (338.54 m, Figure 10.5).

In 1997/98, VMC drilled 20 holes, totaling 2,373.90 m, 14 at the Bit-3 Target (1,924.0 m , Figure 10.6) and 5 holes at the Serra Alta target (449.90 m, Figure 10.3).

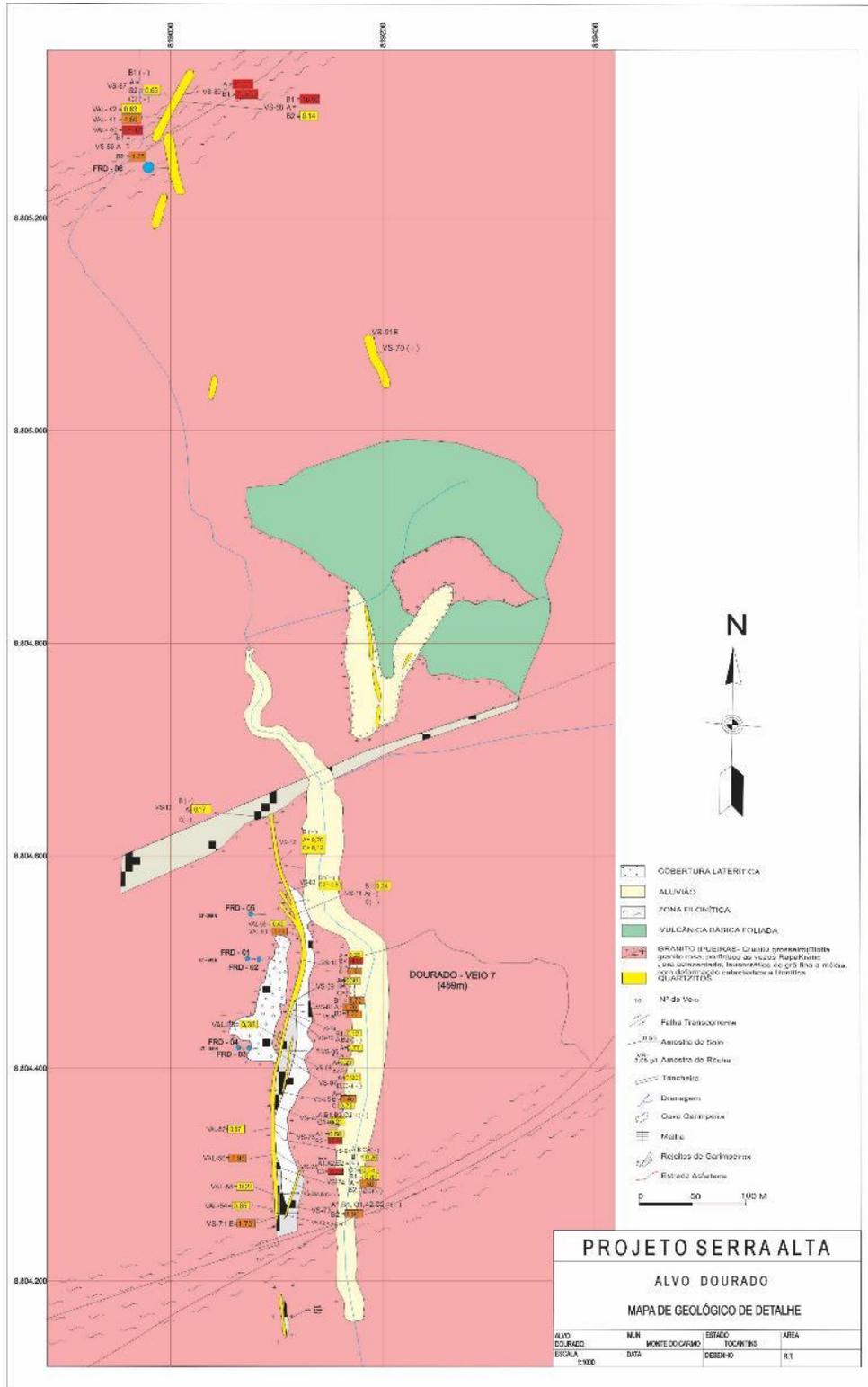
In 2006 and 2007 Kinross, in a JV with VMC, completed 30 drill holes totaling 4,606.15 m, 17 of which were at the Serra Alta target (3,083.30 m Figure 10.3), 9 holes at the Capitão target (1,085.95 m - Figure 10.1) and four holes on the Giant Quartz Veins target (436.90 m, Figure 10.1 and Figure 10.7).

Figure 10.3
Serra Alta Drill Hole Locations



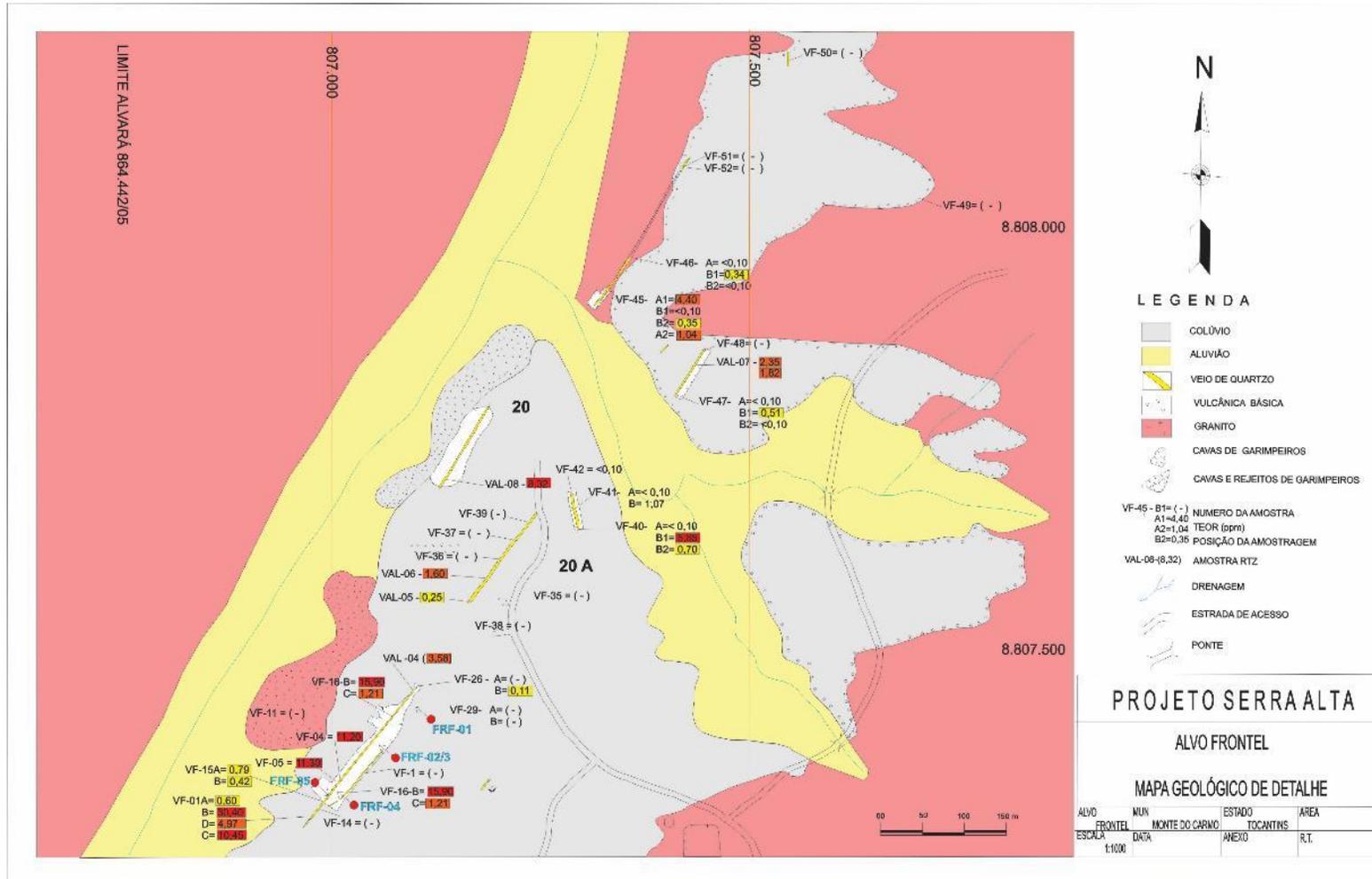
Source: MSM. Parapanema holes (FRC), Kinross holes (FKMC) and Verena holes (FMC)

Figure 10.4
Dourado Vein Details, Geology and Paranapanema Hole Locations



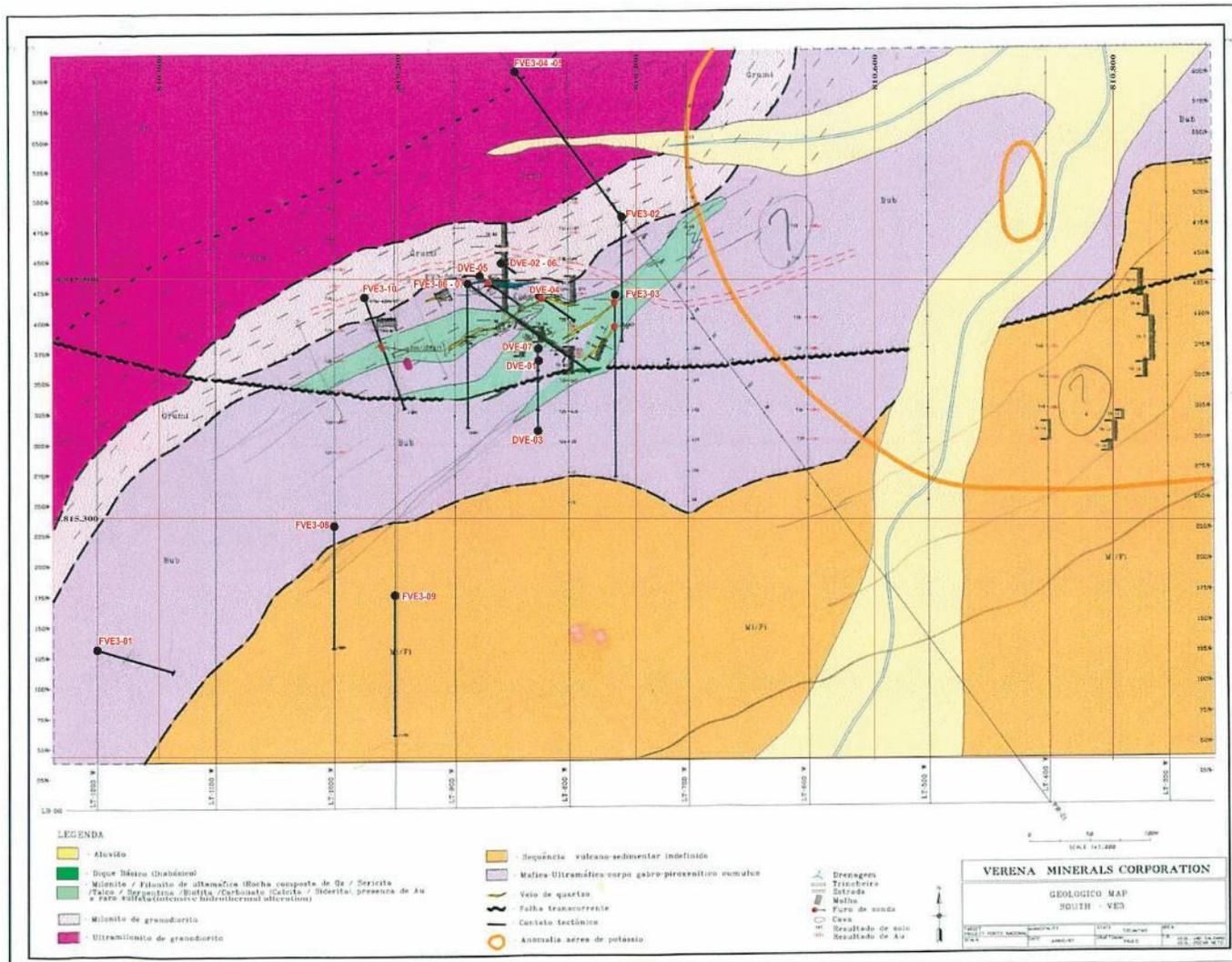
Source: MSM 2018.

Figure 10.5
Frontel Vein - Geology and Drill Hole Locations



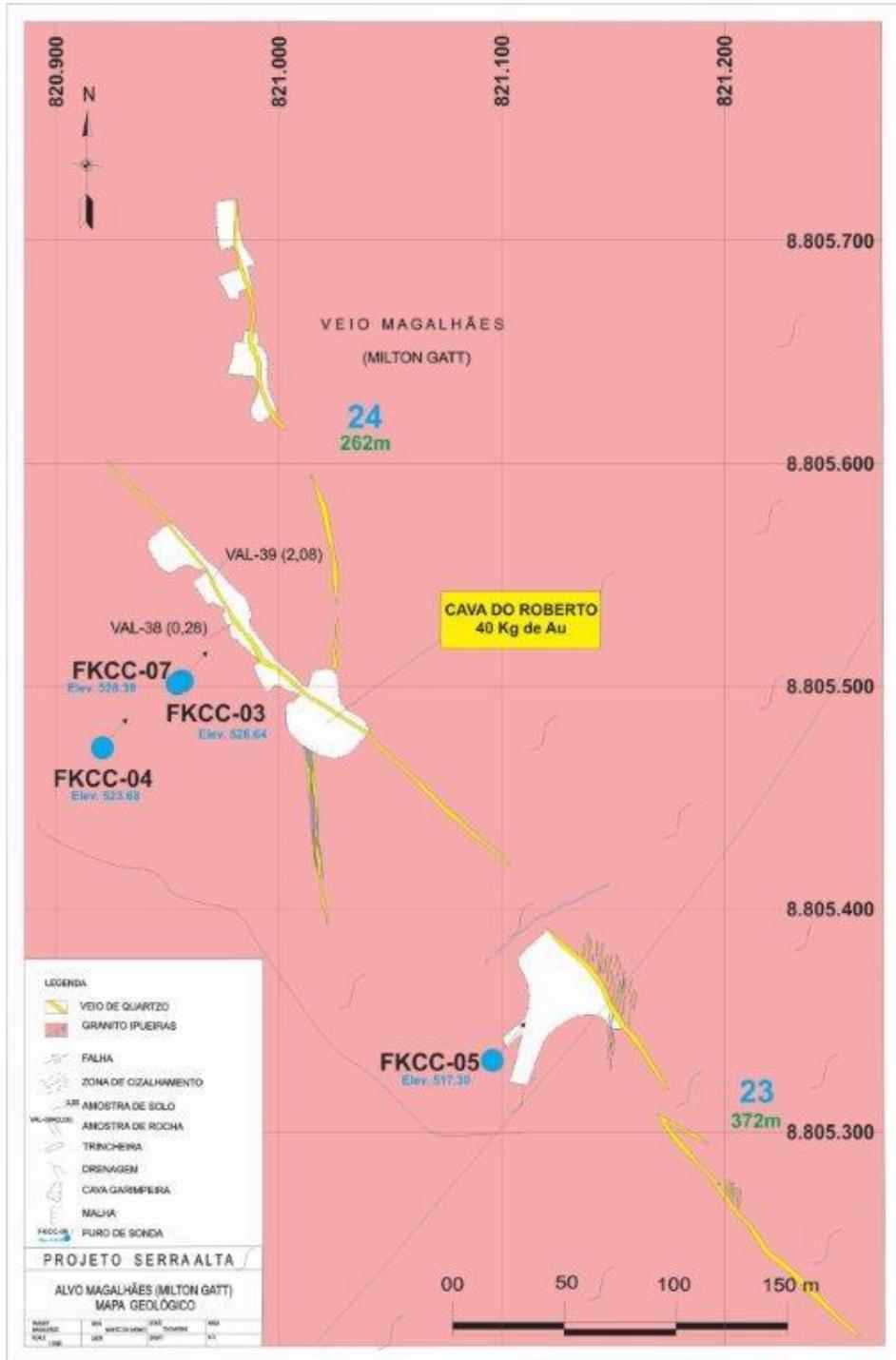
Source: MSM 2018

Figure 10.6
Geology and Verena DDH location



Source: MSM 2018

Figure 10.7
Magalhães Vein Showing Kinross Drill Hole Locations



Source: MSM 2018

Table 10.3 shows a summary of the drill methods and core sizes used by the various companies at the Monte do Carmo project.

Table 10.3
Drilling Type Summary

Company	Drill Contractor	Drilling Method	Core Size		Analytical Method
			Weathered Rock	Fresh Rock	
Rio Tinto	Geosol	RC	HX	NX	Fire Assay/AAS
PNP	Geosol	Diamond	NX	BX	AAS/MIBK collector
Verena	Isoagua	Diamond	NX	BX	Fire Assay/AAS

AAS = atomic absorption spectroscopy (AAS)

Table 10.4 presents a list of significant intersections from the historical drilling at the Serra Alta deposit. As Serra Alta is the focus of Cerrado's exploration activity going forward, results from drilling at the other targets will not be discussed further.

Table 10.4
Significant Historical Drill Intersections from Serra Alta

Hole Number	From	To	Length	Au (g/t)
FKMC-01	0.85	4.00	3.15	1.62
FKMC-01	9.88	32.00	22.12	3.62
FKMC-01	34.00	35.00	1.00	1.12
FKMC-01	55.00	63.50	8.50	0.19
FKMC-01	64.50	71.38	6.88	0.63
FKMC-01	85.90	87.40	1.50	0.39
FKMC-01	110.55	113.05	2.50	1.13
FKMC-01	171.15	173.15	2.00	0.38
FKMC-02	1.80	5.20	3.40	0.64
FKMC-02	31.28	34.50	3.22	1.54
FKMC-02	53.70	61.50	7.80	0.49
FKMC-02	77.70	83.50	5.80	0.47
FKMC-02	97.60	99.20	1.60	0.23
FKMC-03	3.10	4.10	1.00	0.84
FKMC-03	10.45	23.45	13.00	1.08
FKMC-03	38.21	39.30	1.09	4.21
FKMC-03	61.15	62.68	1.53	0.48
FKMC-03	73.82	76.82	3.00	0.51
FKMC-03	89.30	91.38	2.08	2.66
FKMC-03	135.30	136.80	1.50	1.23
FKMC-04	0.00	7.57	7.57	0.90
FKMC-04	48.40	49.14	0.74	0.49
FKMC-06	23.49	24.75	1.26	1.61
FKMC-06	40.25	54.50	14.25	0.60
FKMC-06	57.60	75.57	17.97	0.49
FKMC-06	77.55	89.93	12.38	0.02
FKMC-06	108.60	109.60	1.00	0.88
FKMC-07	83.71	95.40	11.69	1.22
FKMC-07	106.81	109.81	3.00	0.50
FKMC-07	143.00	144.10	1.10	0.60
FKMC-08	74.23	84.01	9.78	2.00
FKMC-08	94.60	107.02	12.42	5.37

Hole Number	From	To	Length	Au (g/t)
FKMC-08	116.92	124.36	7.44	0.56
FKMC-10	151.84	152.80	0.96	0.90
FKMC-10	193.10	196.90	3.80	0.74
FKMC-12	31.10	37.97	6.87	1.29
FKMC-12	42.00	57.80	15.80	1.82
FKMC-12	57.80	65.40	7.60	0.13
FKMC-12	65.40	70.77	5.37	0.61
FKMC-12	70.77	72.00	1.23	0.08
FKMC-12	80.15	82.10	1.95	0.12
FKMC-12	82.10	86.10	4.00	0.95
FKMC-12	149.66	150.47	0.81	2.10
FKMC-13	46.70	47.70	1.00	2.79
FKMC-13	57.74	59.74	2.00	1.33
FKMC-13	76.27	80.20	3.93	0.82
FKMC-13	96.10	98.10	2.00	0.54
FKMC-13	121.10	122.15	1.05	6.92
FKMC-13	140.10	141.10	1.00	0.39
FKMC-14	11.60	13.39	1.79	3.35
FKMC-14	90.53	94.49	3.96	0.31
FKMC-16	44.40	50.40	6.00	1.64
FKMC-16	63.00	64.00	1.00	1.29
FKMC-16	96.00	102.00	6.00	2.16
FKMC-16	121.60	135.80	14.20	2.76
FKMC-17	41.73	47.40	5.67	3.10
FKMC-17	78.35	79.52	1.17	0.69
FKMC-17	110.90	120.00	9.10	0.68
FMC-01	17.00	19.00	2.00	0.52
FMC-01	42.00	51.00	9.00	1.18
FMC-01	54.00	56.00	2.00	3.16
FMC-01	63.00	73.00	10.00	0.33
FMC-02	1.00	3.00	2.00	2.51
FMC-02	34.00	39.00	5.00	1.73
FMC-02	41.00	59.00	18.00	0.96
FMC-02	78.00	81.00	3.00	1.48
FMC-03	0.00	1.00	1.00	0.09
FMC-03	12.00	13.00	1.00	0.44
FMC-03	46.00	51.00	5.00	1.26
FMC-03	68.00	69.00	1.00	0.66
FMC-04	30.00	36.00	6.00	0.62
FMC-04	42.00	47.00	5.00	0.53
FMC-04	56.00	60.00	4.00	0.52
FRC-02 *	23.00	26.00	3.00	0.52
FRC-02 *	28.00	31.50	3.50	2.29
FRC-02 *	48.00	49.00	1.00	0.41
FRC-02 *	66.00	72.00	6.00	5.05
FRC-04 *	12.00	14.00	2.00	0.74
FRC-05 *	0.00	0.80	0.80	2.84
FRC-05 *	80.00	81.00	1.00	0.54
FRC-06 *	21.00	22.00	1.00	0.72
FRC-06 *	33.00	46.00	13.00	0.99
FRC-06 *	49.00	65.00	16.00	1.34

Hole Number	From	To	Length	Au (g/t)
FRC-06 *	68.00	78.55	10.55	0.47
FRC-09 *	0.00	0.80	0.80	4.09
FRC-09 *	5.00	8.00	3.00	0.59
FRC-09 *	23.00	28.00	5.00	0.62
FRC-09 *	51.00	53.00	2.00	0.97
FRC-09 *	67.00	68.00	1.00	0.76
FRC-09 *	77.00	80.00	3.00	0.92
FRC-10 *	14.00	15.00	1.00	1.17
FRC-11 *	16.00	18.00	2.00	1.09
FRC-11 *	32.00	33.00	1.00	2.48
FRC-12 *	0.00	5.00	5.00	2.36
FRC-12 *	7.60	32.00	24.40	1.39
FRC-12 *	49.00	50.00	1.00	5.13
FRC-12 *	61.00	72.00	11.00	0.93
FRC-13 *	9.00	13.00	4.00	0.68
FRC-13 *	18.00	20.00	2.00	0.97
FRC-13 *	22.00	24.00	2.00	4.15
FRC-13 *	34.00	35.00	1.00	1.62
FRC-14 *	3.00	4.00	1.00	0.32
FRC-14 *	8.00	9.00	1.00	0.65
FRC-15 *	12.00	33.00	21.00	1.35
FRC-15 *	49.00	54.00	5.00	2.88
FRC-15 *	68.00	69.00	1.00	0.40
FRC-17 *	7.00	14.00	7.00	1.42
FRC-17 *	27.00	28.00	1.00	2.53
FRC-17 *	33.00	35.00	2.00	1.64
FRC-17 *	39.00	40.00	1.00	5.58
FRC-17 *	48.00	49.00	1.00	1.35
FRC-17 *	67.00	68.00	1.00	0.88
FRC-17 *	85.00	86.00	1.00	0.56
FRC-18 *	3.00	4.35	1.35	0.45
FRC-18 *	16.00	17.00	1.00	0.81
FRC-21 *	22.00	26.00	4.00	2.60
FRC-21 *	29.00	31.00	2.00	1.21
FRC-21 *	52.00	53.00	1.00	1.50
FRC-24 *	9.00	29.00	20.00	0.92
FRC-24 *	37.00	40.00	3.00	0.77
FRC-24 *	50.00	51.00	1.00	0.61
FRC-25 *	0.00	1.00	1.00	0.75
FRC-26 *	0.00	5.00	5.00	0.70
FRC-26 *	11.00	15.00	4.00	1.23
FRC-27 *	0.00	1.70	1.70	0.47
FRC-27 *	7.50	9.00	1.50	1.55
FRC-27 *	17.00	18.00	1.00	1.71
FRC-27 *	62.00	63.00	1.00	1.04
FRC-28 *	4.00	7.00	3.00	1.64
FRC-28 *	9.00	13.00	4.00	2.14
FRC-28 *	15.00	19.00	4.00	1.05
FRC-28 *	20.00	27.00	7.00	0.93
FRC-28 *	35.00	38.00	3.00	1.12
FRC-28 *	55.00	58.00	3.00	0.91

Hole Number	From	To	Length	Au (g/t)
FRC-29 *	7.50	14.00	6.50	3.54
FRC-29 *	17.00	22.00	5.00	1.23
FRC-29 *	29.00	32.00	3.00	0.92
FRC-29 *	45.00	46.00	1.00	0.24
FRC-29 *	53.40	62.00	8.60	6.57
FRC-30B *	4.00	11.05	7.05	0.45

* - PNP assays performed by AAS analysis at their own laboratory. See cautionary language in Section 11.1.

FRC holes - PNP, FKMC holes - Kinross, FMC holes - Verena, FSA holes - Cerrado Gold

Cerrado has access to the assay certificates for the Kinross drilling. No PNP certificates are available. However, there is a PNP assay report with no sample numbers provided.

10.2 CURRENT DRILLING

10.2.1 2017 Other Targets

Late in 2017 Cerrado drilled 12 holes, 8 at Ferradura for 1,286.65 m and 4 at Eduardo for 286.64 m (Table 10.5).

Table 10.5
2017 Cerrado Drilling, Other Targets

Targets	Total Metres	Total Holes	ANM Concession
Ferradura	1,286.65	8	864.450/10
Eduardo	286.64	4	864.450/10
Total	1,573.29	12	

The collar information for the holes drilled at Ferradura and Eduardo is shown in Table 10.6.

Table 10.6
Ferradura and Eduardo Hole Collar Data

Drill Hole	X Coordinate	Y Coordinate	Elevation	Depth	Target	Az.	Dip
FED_01	815780.343	8811366.993	N.D	N.D	Eduardo	115	-60.31
FED_02	815805.023	8811285.224	N.D	N.D	Eduardo	290	-50.08
FED_03	815900.193	8811439.195	N.D	N.D	Eduardo	290	-49.09
FED_04	815965.012	8811625.527	N.D	N.D	Eduardo	270	-61.16
FFE_01	817538.33	8812271.2	453.94	161.04	Ferradura	90	-50.36
FFE_02	817564.52	8812325.31	445.75	160.93	Ferradura	90	-48.8
FFE_03	817570.45	8812217.38	469.39	133.93	Ferradura	90	-49.54
FFE_04	817574.56	8812173.43	476.62	151.96	Ferradura	90	-50.56
FFE_05	817596.32	8812123.27	485.77	160.68	Ferradura	90	-48.69
FFE_06	817599.56	8812074.93	495.17	154.58	Ferradura	90	-50.09
FFE_07	817726.81	8812171.13	473.65	152.07	Ferradura	270	-49.02
FFE_08	817666.81	8812135.8	475.49	212.46	Ferradura	90	-70.27

No significant intercepts were encountered at Eduardo. The significant intercepts from Ferradura are shown in Table 10.7.

Table 10.7
Significant Cerrado Drill Intersections from Ferradura

Hole	From	To	Length	Au (g/t)	Composite
FFE_01	57.00	67.00	10.00	0.51	10 m @ 0.51 g/t Au - from 57 m
FFE_01	67.00	69.15	2.15	5.35	2.15 m @ 5.35 g/t Au - from 67 m
FFE_01	78.00	85.00	7.00	0.92	7 m @ 0.92 g/t Au - from 78 m
FFE_03	92.50	94.50	2.00	0.67	2 m @ 0.67 g/t Au - from 92.5 m
FFE_03	98.50	103.50	5.00	1.57	5 m @ 1.57 g/t Au - from 98.5 m
FFE_04	87.50	89.00	1.50	0.77	1.5 m @ 0.77 g/t Au - from 87.5 m
FFE_05	28.00	29.00	1.00	1.60	1 m @ 1.6 g/t Au - from 28 m
FFE_05	81.00	82.23	1.23	0.72	1.23 m @ 0.72 g/t Au - from 81 m
FFE_05	111.00	112.00	1.00	5.95	1 m @ 5.95 g/t Au - from 111 m
FFE_05	126.00	127.00	1.00	3.33	1 m @ 3.33 g/t Au - from 126 m
FFE_05	134.50	144.00	9.50	1.67	9.5 m @ 1.67 g/t Au - from 134.5 m
FFE_06	72.00	73.00	1.00	4.02	1 m @ 4.02 g/t Au - from 72 m
FFE_06	100.00	101.00	1.00	1.17	1 m @ 1.17 g/t Au - from 100 m
FFE_07	134.56	135.21	0.65	1.94	0.65 m @ 1.94 g/t Au - from 134.6 m
FFE_07	146.65	147.62	0.97	1.00	0.97 m @ 1 g/t Au - from 146.7 m
FFE_08	95.26	97.40	2.14	5.10	2.14 m @ 5.1 g/t Au - from 95.3 m
FFE_08	193.18	194.00	0.82	1.54	0.82 m @ 1.54 g/t Au - from 193.2 m

For the time being exploration work at Eduardo and Ferradura has ceased.

10.2.2 2018 Serra Alta Drilling

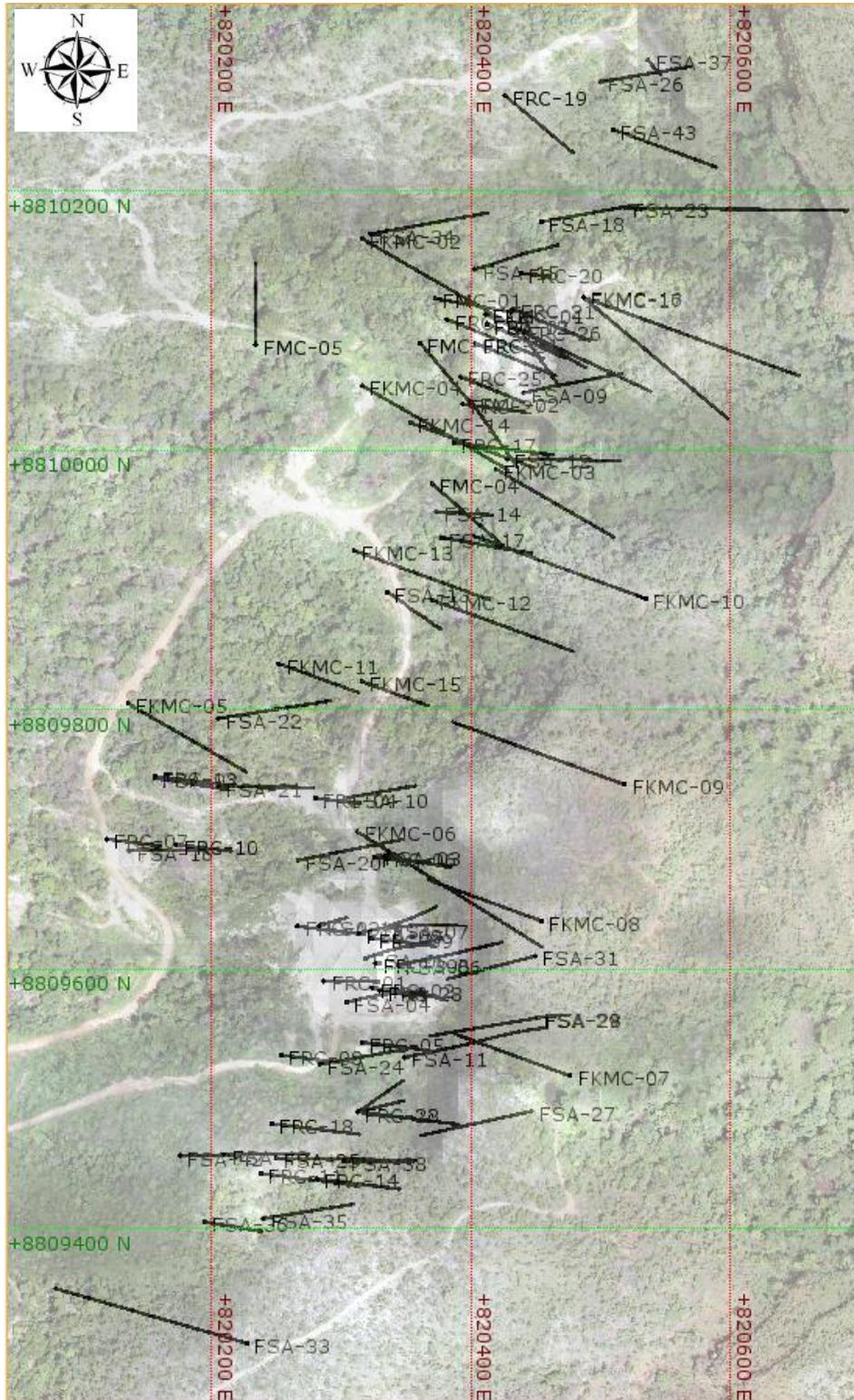
In January, 2018 Cerrado commenced drilling at the Serra Alta deposit. The company currently plans a program of about 10,000 m of diamond drilling in 2018. As of the data-freeze date for this report (April 11, 2018) Cerrado had completed, and received assays for, 31 diamond drill holes totalling 3,367.87 m (Table 10.8).

Table 10.8
2018 Serra Alta Drilling Summary

Targets	Total Metres	Total Holes	ANM Concession
Serra Alta	3,367.87	31	860.187/88
Total	3,367.87	31	

The drill hole collar locations are shown on Figure 10.8. The collar information for the holes drilled by Cerrado at Serra Alta is shown in Table 10.9.

Figure 10.8
Serra Alta Drill Hole Locations



Source: Cerrado, 2018, Scale in metres on grid lines.

Table 10.9
Cerrado Drill Hole Collar Information at Serra Alta as of Data Freeze Date

Drill Hole	X Coordinate	Y Coordinate	Elevation	Depth	Date Finished	Az.	Dip
FSA-01	820412.72	8810097.35	104.31	454.26		112	-50
FSA-02	820156.158	8809746.874	92.07	425.79	18/01/2018	97	-50
FSA-03	820327.95	8809687.41	118.05	482.23	24/01/2018	112	-60
FSA-04	820304.01	8809574.04	93.08	469.93	29/01/2018	75	-50
FSA-05	820318.91	8809608.22	94.96	466	01/02/2018	80	-60
FSA-06	820343.81	8809603.2	115.69	467.66	05/02/2018	80	-50
FSA-07	820334.02	8809630.58	85.99	472.12	07/02/2018	80	-50
FSA-08	820313.47	8809627.68	103.87	469.92	09/02/2018	80	-50
FSA-09	820440.767	8810044.253	123.35	467.788	15/02/2018	80	-50
FSA-10	820303.108	8809731.594	78.5	479.369	17/02/2018	80	-45
FSA-11	820348.984	8809531.734	160.75	471.093	26/02/2018	80	-45
FSA-12	820427.945	8809992.953	127.73	459.347	21/02/2018	90	-45
FSA-13	820335.592	8809890.414	122.54	462.794	24/02/2018	120	-65
FSA-14	820373.354	8809952.315	70.12	455.836	27/02/2018	95	-50
FSA-15	820403.184	8810139.345	103.97	445.993	01/03/2018	75	-50
FSA-16	820136.534	8809691.066	94.83	413.93	06/03/2018	90	-50
FSA-17	820377.549	8809932.469	109.93	460.113	05/03/2018	100	-50
FSA-18	820454.583	8810176.08	100.91	459.992	07/03/2018	80	-45
FSA-19	820283.206	8809633.344	31.62	452.023	07/03/2018	73.55	-44.61
FSA-20	820266.937	8809683.724	115.74	447.842	10/03/2018	78.71	-44.96
FSA-21	820205.438	8809740.665	100.57	442.291	10/03/2018	90.74	-43.20
FSA-22	820205.224	8809792.919	124.79	438.034	13/03/2018	80.95	-45.16
FSA-23	820519.305	8810186.769	234.96	478.424	15/03/2018	90.74	-43.20
FSA-24	820283.591	8809526.38	97.74	456.08	15/03/2018	80	-45
FSA-25	820250.111	8809454.01	97.28	499.012	16/03/2018	85	-45
FSA-26	820500.36	8810283.867	97.96	522.247	23/03/2018	80.37	-44.20
FSA-27	820446.808	8809490.2	151.22	541.343	20/03/2018	257.64	-54.41
FSA-28	820451.804	8809562.208	146	546.927	23/03/2018	260.46	-54.82
FSA-29	820450.681	8809562.744	121.85	546.99	24/03/2018	86.11	-77.88
FSA-30	820526.467	8810401.4	123.49	542.961	27/03/2018	77.45	-45.29
FSA-31	820449.771	8809609.899	122.22	558.857	28/03/2018	255.42	-54.60

Since January, 2018 the drilling has been carried out by Servitec Foraco Serviços de Sondagem using two modern, diesel-hydraulic CS-14 drill rigs.

Holes are started with HQ-size rods and down-sized to NQ when in fresh rock.

All drill hole collars are surveyed by a technician specialized in the use of total station survey instruments. Surveys are completed using the SAD 69 datum with collection of coordinates in UTM format. Some spot checking of old drill holes has been performed with no significant errors found.

Drill hole deviation is monitored with a Devi Flex non-magnetic electronic multishot tool from Devico, which can survey inside the drill rods. The Devi Flex tool consists of two

independent measuring systems. Three accelerometers and four strain gauges are used to calculate inclination and change in azimuth. All of the surveys were performed with 2 runs (in and out of the hole) with deviations systematically measured every 3 m. To date the approximate average deviation is reported to be 1.04° per 100 m.

When a drill hole is completed the collar is marked by a 1.5-m long plastic pipe placed in the hole and set in a concrete monument (Figure 10.9). The monument is marked with a metal tag containing basic information about the hole.

Figure 10.9
Drill Hole Collar Monument



Source: Cerrado 2018

The significant intersections received as of the data-freeze date (April 11, 2018), from the Cerrado drilling at Serra Alta, are set out in Table 10.10.

Table 10.10
Significant Cerrado Drill Intersections from Serra Alta

DDH	From	To	Length (m)	Au (g/t)
FSA-01	8.00	31.50	23.50	3.07
Includes	11.90	23.00	11.10	9.57
Includes	29.00	30.50	1.50	3.66
and	41.25	42.25	1.00	1.22
FSA-02	11.50	36.00	24.50	0.45
Includes	16.50	28.00	11.50	0.81
Includes	27.00	28.00	1.00	2.81
Includes	35.00	36.00	1.00	1.04

DDH	From	To	Length (m)	Au (g/t)
FSA-03	15.02	76.00	60.98	0.74
Includes	30.00	37.00	7.00	0.63
Includes	54.00	76.00	22.00	1.47
Includes	65.00	74.00	9.00	2.90
FSA-04	8.00	48.50	40.50	0.93
Includes	8.00	16.00	8.00	1.00
Includes	23.00	29.00	6.00	1.76
Includes	39.00	48.50	9.50	1.89
and	75.00	84.00	9.00	1.25
FSA-05	0.00	31.00	31.00	0.65
Includes	0.00	7.20	7.20	0.81
Includes	18.50	30.25	11.75	1.10
and	61.50	62.50	1.00	1.40
and	69.25	73.00	3.75	0.59
and	84.00	85.00	1.00	1.09
FSA-06	41.00	76.00	35.00	0.50
Includes	58.00	58.50	0.50	5.03
Includes	75.00	76.00	1.00	3.37
FSA-07	15.00	52.00	37.00	0.42
Includes	44.00	52.00	8.00	1.27
FSA-08	0.00	82.00	82.00	1.31
Includes	0.00	28.90	28.90	3.03
Includes	67.85	71.00	3.15	2.27
and	102.00	103.00	1.00	1.01
FSA-09	0.00	23.00	23.00	0.37
Includes	14.00	15.00	1.00	1.73
Includes	20.00	21.00	1.00	1.88
Includes	48.00	49.00	1.00	1.49
FSA-11	7.00	48.36	41.36	1.43
Includes	36.00	48.36	12.36	3.11
Includes	44.00	48.36	4.36	7.45
FSA-12	8.80	81.00	72.20	0.99
Includes	8.80	66.00	57.20	1.21
Includes	53.75	66.00	12.25	3.94
Includes	53.75	60.00	6.25	6.56
Includes	80.50	81.00	0.50	4.02
and	93.00	93.50	0.50	2.82
FSA-14	27.50	28.20	0.70	5.02
FSA-15	38.00	51.77	13.77	0.41
FSA-16	16.00	17.00	1.00	3.22
and	34.00	35.00	1.00	2.97
FSA-17	19.19	35.84	16.65	0.51
FSA-18	4.21	23.00	18.79	0.50
FSA-23	21.25	89.00	67.75	1.85
Includes	34.00	71.50	37.50	3.11
Includes	47.00	71.50	24.50	4.38
Includes	57.00	71.50	14.50	6.45
Includes	58.00	63.00	5.00	14.95
FSA-25	20.53	21.50	0.97	9.60
FSA-28	71.00	73.50	2.50	4.22

DDH	From	To	Length (m)	Au (g/t)
and	82.00	91.50	9.50	1.51
and	106.00	123.50	17.50	0.38

10.2.3 Logging and Sample Layout

Core is delivered to the core shed at the end of each shift, or first thing in the morning, by the drillers. Upon arrival the core boxes are checked for correct labelling and placement of the from/to footage blocks for the drilled intervals. A quick log is then made for daily “flash reports” to management.

The core is photographed while wet, both prior to logging, and after being sawn and sampled.

Drill holes are logged by the geologist on a paper logging form (Figure 10.10) using the legend and standard codes shown on Figure 10.11. The Serra Alta granite is logged with a series of alteration codes (GRA = granite with low/no alteration, protolith, GRB = granite weakly altered with chlorite, GRC = potash altered pink granite, GRD = altered red granite, intensely fractured, iron altered and GRN = unclassified granite, from Kinross logs). Type examples of each rock are available for reference at the core shed. It is hoped that the use of standard alteration codes will help in the geological modelling of the deposit.

In addition to the standard naming conventions of Figure 10.11 detailed descriptions of the interval are made emphasizing the amount of sulphides, presence of quartz veins, granite classification, observable oxidation, possible structures and hydrothermal alteration minerals such as, epidote, chlorite, sericite, tourmaline, as well as the presence of visible gold.

Figure 10.10
Drill Log Header

CERRADO GOLD SERRA ALTA PROJECT			COORDINATE			CORE SIZE				PRODUCTION				DRILL HOLE	
Drilling contractor: SERVITEC-FORACO			Datum:			Depth	Diameter			START: ___/___/___				Total depth	
Target:			Easting:		Northing:					FINISH: ___/___/___				Geologist:	
			Elevation:	Azimuth:	Dip:					TOTAL DAYS: ___					
DEPTH (m)	LOG	SAMPLE	ROCK CODE	QZ VEIN	SULPHIDE				STRUCT	Alteration		VG	COMMENT		
				TOTAL	Py	Gal	Shl	Cpy	Type	α	Type	%			
-1														1	
-2														2	

Source: Cerrado 2018.

Figure 10.11
Serra Alta Logging Legend

ROCK CODE			QZ VEIN		SULPHIDES			TOTAL SULPHIDES		ALTERATION		
TYPE	CODE	GRAPH	TYPE	CODE	TYPE	CODE	UNIT	CODE	UNIT	TYPE	CODE	UNIT
LDF	Landfill		Not Present	0	pyrite	py	0 - 100%	0	tr	Chlorite	chl	0 - 100%
SOI	Soil		Low Frequency	1	calcopirite	cpy	0 - 100%	1	<1%	Calcita	cal	0 - 100%
TOB	Saprolite	\\ \\	Medium Frequency	2	galene	gal	0 - 100%	2	1-3%	Epidoto	ep	0 - 100%
FSAP	Fine Saprolite	\\ \\	High Frequency	3	spharelite	sph	0 - 100%	3	>3%			
CSAP	Coarse Saprolite	\\ \\										
MIU	Mafic intrusive Unit	v v v										
MVU	Mafic Volcanic Unit	^ ^										
ACD	Acid Dike											
MD	Mafic Dike	x x										
FV	Felsic Volcanic	∞ ∞										
VCU_TF	Tuff	z E z E										
VCU_BR	Volcanic Breccia	E; ¼E;										
GRA	Granite "carijó"	⊕										
GRB	Granite "mesclado"	x										
GRC	Granite "salmão"	+ + +										
GRD	Granite "vermelho"	⊙ ⊙ ⊙										
GRN	GRANITO	⊕ ⊕ ⊕										
MGR	Fine Granite											
QZV	Quartz Vein	■										
MLZ	Milonite	■										
QTZ	Quartzite										

Source: Cerrado 2018. GRA = granite with low/no alteration, GRB = granite weakly altered with chlorite, GRC = potash altered pink granite, GRD = altered red granite, intensely fractured, iron altered, and GRN = unclassified granite, from Kinross logs.

For the mineralogy noted above, the following detailed descriptions are made:

- Degree of weathering, extent and relative amount,
- Presence of visible gold, noting the footage of occurrence, size, shape, number of spots/flecks, mode of occurrence and associated mineralogy.
- Lithological classification of the core.
- Hydrothermal alteration minerals present.
- Primary structures and tectonic effects on the rock types noting: :
 - dip angle and arrangement of foliation,
 - dip and thickness of quartz veins,
 - dip and thickness of breccias and shear zones,
 - dip, fill type, shape and description of the walls of faults and fractures,
 - graphical presentation of structure and lithology on the logging form using pre-defined symbols.

Samples are laid out by the logging geologist and detailed descriptions are made of each. All granite is sampled and sampling extends for 5 to 10 m into wall rock. The standard sample length is 1 m in hydrothermally altered granite but sampling does not cross lithological or alteration boundaries. The minimum sample length used is 30 cm. In unaltered granite and unmineralized wall rock the standard sample length is 2 m.

During logging a reference cut line is marked on the core indicating the orientation of the saw cut to be made when sampling. The beginning and end of each sample is also marked on the core and the core box.

Once logging is complete the paper logs are transcribed to an electronic database to which the assay results can later be appended. The database is backed up to a portable hard drive on a regular basis.

10.2.3.1 Density Determination

At the time of Micon's site visit Cerrado was awaiting the delivery of equipment needed to perform density determinations. It is planned that the density will be determined using Archimedes principle by weighing core samples in air and in distilled water.

Density = Sample weight in air / (weight in air - weight immersed).

10.3 SUMMARY AND INTERPRETATION OF RESULTS

Cerrado's work at Serra Alta has only recently begun and no significant amount of modelling or interpretation of the drilling results has been completed. It has become apparent that relogging of the historical core using the new granite alteration codes (GRA, GRB, GRC, GRD and GRN) may be necessary before modelling or interpretation can begin in earnest. Therefore, at this time, it is uncertain what the mineralized zone shapes are and, therefore, what the precise relationship between the intersected sample length and the true thickness of the mineralization is. However, the current drilling clearly shows a number of gold mineralized intercepts in the altered granite.

There are no significantly higher grade intervals in the drill results received so far.

Core recovery is generally quite good in fresh rock (Figure 10.12). Therefore no drilling, sampling, or recovery factors that could materially impact the accuracy and reliability of the results are known to be present.

Figure 10.12
Mineralized and Altered Granite Showing Good Recovery



Source Micon, 2018.

11.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

11.1 HISTORICAL SAMPLING

The Verena (VML and VMC) and Kinross drill programs used fire assay determination for gold analysis of samples using ½ core, sawn on site. It is believed that the sample size analysed (aliquot) was 30 g. This method typically involves crushing the entire sample, pulverizing between 250 and 1,000 g, then subsampling 30 to 50 g for fire assay. The final analysis of the weight of gold recovered in the assay can be by AAS or gravimetric finish. Gravimetric finish is generally more accurate at high grades while AAS has a lower limit of detection and is useful at lower grades. This is a generally accepted method of analyzing for gold.

Parapanema is reported to have analyzed its samples using only an AAS determination. This was a somewhat less expensive method in relatively common use in the 1970s and 1980s. It involved dissolution of the sample pulp in acid and determination of gold content of the resulting liquor by AAS after MIBK collection. In this method sample aliquot size usually varied from 1 g up to about 20 g, depending on technique. The method had several disadvantages in that a 1 g sample was far too small to accurately subsample the pulp and 20 g was often too large to fully digest in the acid, thereby failing to release all of the gold. These analyses were performed in Parapanema's own laboratory (ETMGN) using an unknown aliquot size.

In its Corporate Finance Manual, Appendix 3D (<https://www.tsx.com/resource/en/544>) The TSX Venture Exchange (TSX-V) places restrictions on the use or disclosure of the results of precious metal analyses by non-fire assay techniques, or results from an analysis by a non-Canadian laboratory.

This requires each news release, shareholder report or other public communication which includes such analyses to contain the following information:

- the analytical method used to obtain the reported results;
- the name of the laboratory at which the analyses were conducted; and
- the results of any fire assay check program or the intention to conduct a fire assay check program at an independent laboratory. All results of a fire assay check program are to be published in a timely manner.

The TSX-V can require an Issuer to undertake a fire assay check program at a Canadian laboratory if the reported results are, in the TSXV's opinion, inconsistent with historic results from the property, the geological environment or other pertinent factors.

Since most large laboratories are now multi-national, it has been Micon's experience that companies such as SGS, ALS and others are accepted as "Canadian".

There have been a couple of checks of the PNP assays by MSM and Cerrado using ¼ of the remaining core. The first was by 30 g fire assay (MSM) and the latter by screen metallics fire assay (Cerrado). For the MSM reassays the individual results varied significantly but, on average, the gold grade increased by 29.6%. For the Cerrado re-assays, again the results were variable, but the average grade dropped from 1.04 g/t Au to 0.80 g/t Au.

MSM staff are also concerned that the PNP geologists may have been selective in their choice of which half of the core was bagged for assaying during sampling. This also has the potential for creating a bias.

Micon would not be comfortable using these AAS results in a mineral resource estimate.

The Kinross drilling employed a quality assurance/quality control (QA/QC) program. It is not certain that Paranapanema or Verena had a QA/QC program.

11.2 CERRADO SAMPLING

11.2.1 Sampling Procedures

The following procedures were used by Cerrado during sampling:

- All samples are marked and numbered on the core boxes respecting the limits defined by the geologists (lithological or alteration contacts) during core logging.
- At the end of each sample interval two sample tags, with sample numbers marked, are stapled to the core boxes.
- The core was then sawn by Cerrado employees using a diamond sawn blade with the saw-cut location following the cut line marked by the geologist.
- After sawing, the left half of the core was placed into a numbered plastic sample bag with one of the sample tags (both using the same number). The other half core was returned to the box. (The other sample tag remains in the box).
- Quarter core duplicate, blank and standard samples are inserted into the sample number sequence at planned intervals.
- The small plastic sample bags are placed into a larger rice bag (5 to 10 samples) and sealed for shipment to the laboratory.

Cerrado has been inserting blanks, standards and quarter-core duplicate samples into its sample stream since drill hole FSA-05. One control sample is placed every 10 samples so that there is one of each type every 30 samples. Cerrado is using a dirty limestone sourced from local quarry as a blank. The standard samples (Certified Reference Materials or CRMs) used were commercially sourced from ITAK (Instituto de Tecnologia August Kekulé) up to

the time of Micon's site visit. At that time Cerrado was about to switch to using CRMs from Canadian Resource Laboratories (CRL).

Once sealed, the samples are taken by company truck to Palmas where they are put on commercial transport for shipment to SGS' sample preparation laboratory in Goiania.

The samples were shipped to the laboratory, with sample submission forms specifying the size and contents of the batch and the procedure code and instructions for preparation and analysis.

11.2.2 Analyses

All samples from the Monte do Carmo project were assayed using the metallic screen fire assay technique (SGS reference FAASCR_150). In this method 1 kg coarse crushed material is subsampled and milled to -150 mesh. The material is screened and the plus fraction is fire assayed for gold and duplicate assays are performed on the minus fraction. For Cerrado the coarse fraction was analyzed by 50 g fire assay and the minus fraction was assayed in duplicate with 50 g pulps. Final gold determination was with AAS finish. The results of the different assays are combined mathematically to produce a calculated assay result.

The samples were prepared at SGS in Goiania or at Vespasiano in Minas Gerais. Analysis was performed at SGS Vespasiano.

In situations where gold occurs within the sample as dispersed nuggets, particularly if the average grade is relatively low, screen metallics fire assaying is often a more appropriate analytical technique.

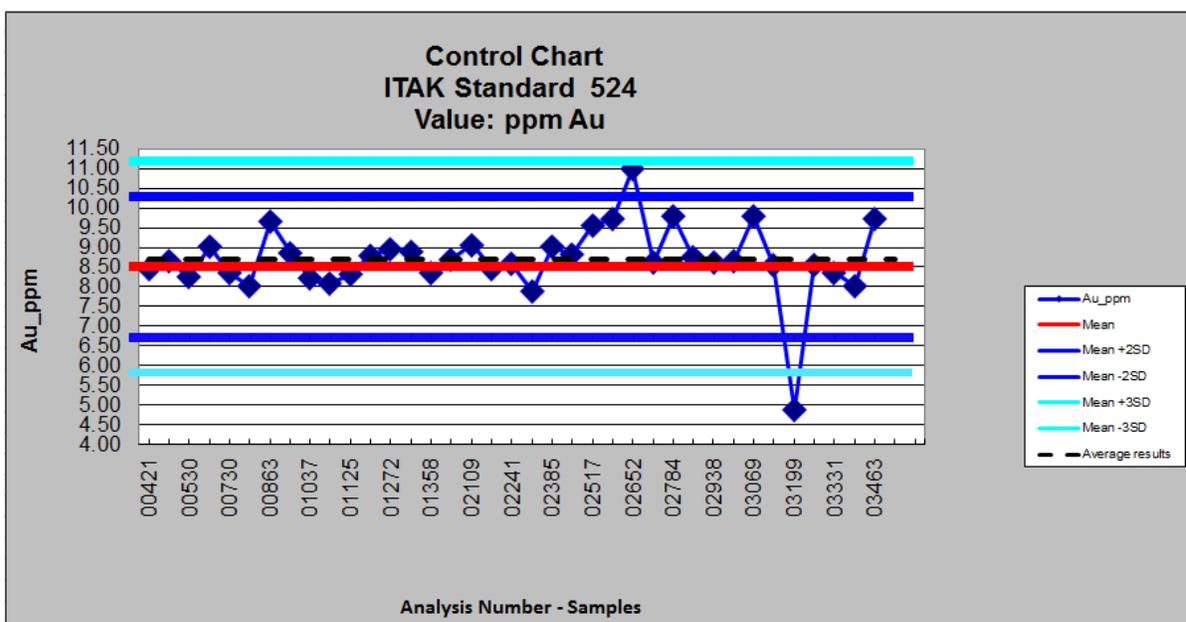
There is no relationship between SGS and Cerrado other than a business one for contract analytical services. No Cerrado employees or directors took part in the sample preparation or analyses other than the cutting and bagging of half core.

11.3 QUALITY ASSURANCE/ QUALITY CONTROL

Cerrado tracks the results of its blank, duplicate and CRM assays on industry standard control charts. The CRM control charts showed the accepted value of the standard as well as warning lines at the 2 and 3 standard deviation (SD) level as determined by the round robin assaying protocol which certified the materials. Any sample result falling outside of the 3 SD warning line, or 2 samples in a row outside of the 2 SD line, are usually considered to be failures requiring follow-up with the laboratory with possible reassays required.

At the time of Micon's visit only a few results had been populated into the charts. A more recent Cerrado control chart is shown in Figure 11.1

Figure 11.1
Example CRM Control Chart



Source Cerrado, 2018

10% of the analyzed samples were sent to ALS Global’s sample preparation laboratory in Goiania for cross check analyses by screen metallics with AAS finish. Final analysis was performed at ALS Global’s laboratory in Lima, Peru (ALS reference Au-SCR21AA).

There is no relationship between ALS Global and Cerrado other than a business one for contract analytical services.

11.4 CONCLUSIONS AND RECOMMENDATIONS

Micon has reviewed the analytical and QA/QC methods employed by Cerrado and Kinross at Serra Alta and finds them suitable for a modern gold exploration program. The results are considered to be useable in a mineral resource estimation.

The analytical technique employed in the assaying of core by PNP is considered inadequate for modern gold exploration. Determination of gold by AAS is subject to errors introduced by incomplete digestion of the samples and/or inadequate aliquot size. Micon recommends that the PNP AAS sampling results not be used for mineral resource estimation. The remaining half core should be resampled and assayed using the current Cerrado protocols.

12.0 DATA VERIFICATION

12.1 CERRADO

Cerrado personnel have spot checked the surveyed collar locations for a number of older drill holes. No significant errors were reported.

The electronic drill hole database provided by MSM was checked for logical errors in its entries using LeapFrog Geo software. No errors were detected.

12.2 MICON

During its site visit Micon went to three of the Giant Quartz Veins targets to examine exposures of mineralization.

At the VM vein there were three active milling sites where garimpeiros were processing material from small pits and underground workings. At one milling site the workers took the mill apart and showed Micon some gold collected from their mining and milling activity.

At the Magalhaes 1 vein location an abandoned garimpo was examined and gold- and galena-mineralized quartz float was found.

At Serra Alta, Micon examined very extensive, abandoned bandeirante and garimpeiro workings over a significant width and strike length. It was obvious that considerable effort, over a long period of time, was expended to make these excavations. The obvious conclusion is that enough gold was recovered to justify the effort.

Micon also reviewed fresh drill core from the hydrothermally altered granite at Serra Alta. The alteration, veining (Figure 10.12) and mineralization with pyrite, galena and sphalerite were clearly visible. Several small specks of visible gold were also noted.

Micon is satisfied with the adequacy of the data for the purposes used in this Technical Report. Further checks will need to be made if a mineral resource estimate were to be performed. This would include validation of the specific gravity and assay data entry to the database.

Micon is satisfied that the presence of gold has been demonstrated at the Monte do Carmo project site. Further exploration is justified. More in-depth data validation will need to be completed before a mineral resource can be completed.

13.0 MINERAL PROCESSING AND METALLURGICAL TESTING

There has been no metallurgical testwork completed on the Serra Alta deposit.

Very small to small scale gravity plants have been used by MSM, VML and Rio Tinto to process mineralization from Serra Alta and some of the veins at the Giant Quartz Veins targets. While records of tonnes processed and gold recovered have been reported, no reliable metallurgical testwork, recovery or metallurgical balance data are known to exist.

14.0 MINERAL RESOURCE ESTIMATES

There have been no NI 43-101 compliant mineral resource estimates prepared at this time for the Monte do Carmo project.

15.0 MINERAL RESERVE ESTIMATES

There have been no NI 43-101 compliant mineral reserve estimates prepared at this time for the Monte do Carmo project.

16.0 MINING METHODS

Completion of this section is required only for advanced properties as defined in NI 43-101. Advanced property means a property that has mineral reserves, or mineral resources the potential economic viability of which is supported by a preliminary economic assessment, a pre-feasibility study or a feasibility study.

17.0 RECOVERY METHODS

Completion of this section is required only for advanced properties as defined in NI 43-101. Advanced property means a property that has mineral reserves, or mineral resources the potential economic viability of which is supported by a preliminary economic assessment, a pre-feasibility study or a feasibility study.

18.0 PROJECT INFRASTRUCTURE

Completion of this section is required only for advanced properties as defined in NI 43-101. Advanced property means a property that has mineral reserves, or mineral resources the potential economic viability of which is supported by a preliminary economic assessment, a pre-feasibility study or a feasibility study.

24.0 OTHER RELEVANT DATA AND INFORMATION

24.1 DEPOSIT GRADE

Given the apparently large size of the Serra Alta deposit, the possible existence of more than one sub-corridor of mineralization and the number of older drill holes with questionable assays it is difficult at this time to estimate the approximate size and grade at Serra Alta.

From 2012 to 2017 MSM operated a small mill with gravity recovery and reported a processed tonnage of 60,361 t at a recovered grade of 1.508 g/t Au. Of this material it is reported that 54,354 t came from the South Block, 33 t from the Central Block and 5,943 t from the North Block. It is believed that most of the mineralization processed came from the eastern-most sub-corridor of mineralization currently identified.

Figure 24.1 shows a close up view of the surface of one of the tailings piles near the Serra Alta mill site. The material here is coarse sand with occasional pebbles, indicating that the mill was not completely effective in grinding the ore processed. Given this, it is considered likely that the recoveries of gold were relatively poor.

Due to financial constraints, MSM did not routinely collect head and tail samples while the mill was in operation. A consulting firm is reported to have completed a one-day recovery test after cleaning the mill and processing ore with frequent head and tail samples. This is reported to have given a 23% recovery. However, Micon notes that this is only one day's results in five years of operation.

MSM has presented tables showing estimated head grades for the life of the project using an assumed 23% and 35% recovery that show relatively high estimated head grades in the areas mined. Micon is reluctant to rely on these limited data. However, even if a recovery of 50% or 60% is applied, the head grade of the material mined would have been around 3 g/t Au.

If a large amount of material of this grade could be proven up it would make an attractive open pit target and may even have chutes of mineralization of sufficient grade to be mined underground.

Although it is obvious that recent production on a moderate scale has occurred at Serra Alta, Micon has not verified any of the production claims made by MSM. Micon cautions that the analysis above is not to be regarded as a mineral resource estimate for Serra Alta. It is Micon's opinion, however, that it is justification for an exploration program at the deposit.

Figure 24.1
Serra Alta Tailings Showing Coarse Grind



Source: Micon 2018. Note scale card in photo.

25.0 INTERPRETATION AND CONCLUSIONS

25.1 GIANT QUARTZ VEINS - GENERAL

One of the veins visited by Micon, the Verena vein, was being actively mined by at least three groups of garimpeiros at the time of Micon's visit. They were using small crushers and grinding machines, to recover the gold. The other veins visited were not being actively mined but had been within the last decade or so.

Total mineralized widths were generally 1 to 4 m at the workings visited, although locally they could be somewhat higher. Distances between the veins were typically at least 300 to 400 m and occasionally in excess of 1 km.

At Verena and Magalhaes 1, two of the three large quartz veins visited by Micon, the grade of the veins is believed to be low, estimated at about 2 g/t Au by MSM staff. However, the sheared wall rock on either side is of much better grade and the garimpeiros preferentially process only that material. MSM personnel estimate that the grade of the wall rock must be at least 7 to 8 g/t Au for the garimpeiros to operate successfully.

Grades of the quartz veins are reported to be too low for the garimpeiros to process. Total grade over the full mineralized width (vein plus sheared wall rock) is partially a function of the vein width, which is effectively internal dilution. The wider the quartz vein, the lower the overall grade.

Total tonnage potential at each vein is likely to be relatively low and the distance between veins will make it difficult to fully share infrastructure should mining commence. Small-scale open pits may be possible with ore trucked to a central location. Mercury contamination from previous garimpeiro operations may also be an issue.

Given the above, Micon concurs with Cerrado's decision to concentrate exploration effort on the Serra Alta deposit where the potential for size is considered to be much greater.

25.2 SERRA ALTA - GENERAL

Traversing the Serra Alta portion of the property to visit mineralized exposures, Micon was struck by the extensive development of historical mine workings (bandeirante workings), more recent garimpos and the small open pits completed by MSM. The historical workings are reported to date back over 200 years. The garimpeiros were reportedly bought out a number of years ago and have moved on. No activity is occurring on the property other than that conducted by Cerrado and/or MSM.

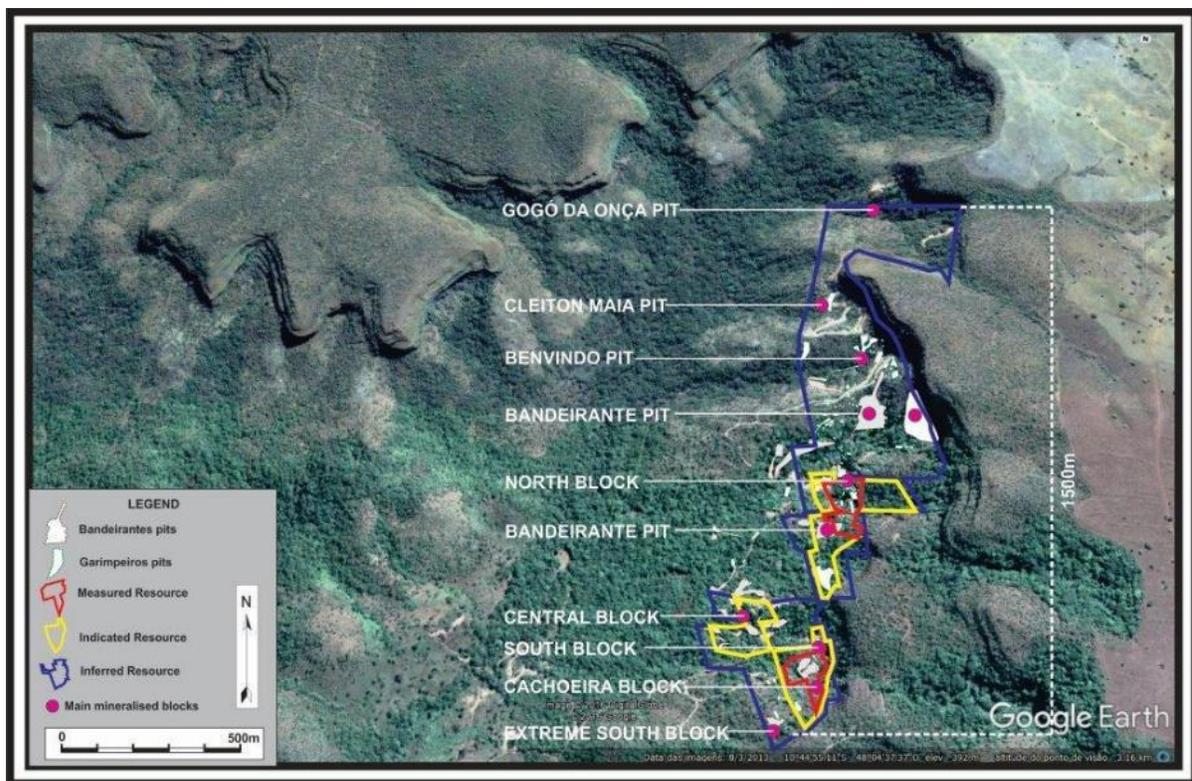
The white patches in the pink granite of Figure 7.4 are the mapped positions of the bandeirante pits and garimpos. Except for the Gogó da Onça pit in the far north, the mapped garimpos stop at the Cleiton Maia pit (Figure 7.4 and 25.1). During the site visit, it was clear that they extended beyond this, close to the north property limit. They appear over a width of

at least 200 m, and possibly 300 m, and a strike length of at least 1,500 m. Within this corridor, MSM and Cerrado geologists have interpreted three distinct sub-corridors or trends of mineralization. It is possible that the far western trend is composed largely of colluvium shed from the slope and has no immediate bedrock source. However, there are large exposed bedrock sources of veined and altered granite on the eastern side.

Clearly a large amount of mining work, over a wide area, mostly by hand, has been completed at this location over a long period of time. Intuitively this leads to the conclusion that the recovered gold was sufficient to justify the significant effort and expense for that much activity. It is Micon’s opinion that this justifies the expense of an exploration program to test the true grade, depth and width of the mineralization.

The true width of the sub-corridors does not seem to be currently well defined. Figure 25.1 shows the locations of the principal pits and zones at Serra Alta.

Figure 25.1
Satellite Photo of Serra Alta Showing Principal Pits and Zones



Source MSM, 2018.

25.3 CONCLUSIONS

Serra Alta is an interesting gold exploration project with a long history of artisanal mine workings and exposures over significant widths and strike length. The deposit is open along strike in both directions and down dip. The possibility exists that more mineralization will be

26.0 RECOMMENDATIONS

26.1 SITE VISIT RECOMMENDATIONS

In addition to continued exploration at Serra Alta, Micon makes the following recommendations:

- Map the location of the last of the garimpo/bandeirante pits at the north end of the trend and update the map shown in Figure 7.4. This is a useful figure to demonstrate the scale of the mineralized body at Serra Alta.
- As the Serra Alta project site has a Licence of Operation for a small scale mine and mill, valid until 2020, Cerrado may wish to consider collecting and processing a bulk sample of Serra Alta mineralized granite. Suitable head and tail sampling should be completed so that a metallurgical balance and true head grade can be calculated.
- Eventually Cerrado should consider switching to electronic core logging, directly to tablets or laptop computers, rather than to paper. There is the potential for error in the required follow up transcription of logs.
- Put multiple columns in the database for first assay and reassays along with a final “accepted assay” column to be used for resource estimation. Maintain a log book of all requested reassays and the reasons for them. This will create an audit trail for any eventual resource review prior to financing mine construction.
- Reassay all PNP core by screen metallics fire assay using the full remaining half core, after photographing and relogging it. This will result in the loss of the physical core record for those holes but there will be many other newer holes kept to demonstrate the local geology. If the AAS assays are to be considered unreliable then the core is currently of limited value. Assaying it rather than re-drilling the holes will save more than US\$2.5 million dollars in drill costs. For the intervals already reassayed by ¼ sawn core the coarse reject could be retrieved and mixed with the other quarter core.
- The current blank material being used in the QA/QC program is reported to be a dirty limestone from a nearby quarry. This should be switched to a quartz, or unmineralized granite, blank which will react to the assay flux in a more similar manner to the local granite mineralization. It will also clean the sample preparation equipment more effectively, thereby identifying gold carry over between samples.
- The data package for the CRL standards came with two sets of round robin assays, one with AAS finish and one with gravimetric finish. They each had a slightly different standard deviation (SD) which is used to establish the failure lines on the control charts. CRL should be contacted to find out which accepted value and SD to use with screen metallics assays, AAS or gravimetric.

- Contact SGS and find out what their sample batch size is and how many positions in it are available to the client. Then submit Cerrado samples in batches to be analyzed together thereby controlling the location of the QA/QC samples and ensuring that Cerrado samples are not mixed in a batch with another company's.
- Spot check the Kinross data entry to the electronic database from the original assay certificates.
- Get specific gravity measurements for all major rock types, not just the mineralized granite. These will be needed for pit optimization after resource estimation.
- Eventually, should Serra Alta become an advanced project, consideration should be given to making matrix-matched CRMs from local mineralization.

It is noted that some relogging of Kinross core may be required to fit into the alteration modelling codes being implemented by Cerrado.

Micon supports the idea of using LeapFrog Geo software to model the alteration and grade shells.

26.2 SERRA ALTA EXPLORATION PROGRAM AND BUDGET

Cerrado has initiated an exploration program designed to confirm and expand the gold mineralization at Serra Alta and to follow up favourable targets from earlier programs. This includes definition drilling and expansion of the areas north, south and along strike of what is referred to as the North Block and South Block and the areas between the blocks. Also included is the follow up of favourable targets of earlier exploration programs with channel sampling, detailed geological mapping, and sampling of the extensive garimpeiro workings. Part of this program focuses on investigating the area between the North Block and the area immediately north, for a strike length of 800 m.

The area between the North and South Blocks is the focus of the drill program in order to explore for additional mineralization along strike, both north and south from the known areas at Serra Alta as well as those areas in between. The ultimate goal is to produce a database suitable for mineral resource estimation. A program comprised of 7,000 m of drilling has been proposed and is in progress.

A total budget of \$2,143,000 is proposed for the recommended 2018 exploration program as set out in Table 26.1 below. It is anticipated that this work will be completed in the next four to five months. An additional \$3,071,000 is budgeted for debt repayment conditions outlined in Section 4.3.

26.2.1 Exploration Budget

The proposed exploration program budget for Serra Alta is summarized in Table 26.1.

Table 26.1
Proposed 2018 Serra Alta Exploration Budget

Activity	Amount	Unit Cost (US\$)	Cost (US\$)
Contract diamond drilling (including mob/demob, camp costs and related items.)	7,000 m NQ-size drilling	90/m	630,000
Certified reference materials			4,000
Assay costs, including reassay of old core	8,900 samples	30.00/sample	267,000
Freight			18,000
Trenching, mapping and other prospecting			90,000
Staff			425,000
Office expenses			12,000
Vehicle rental, fuel			270,000
Meals, hotel etc.			70,000
Contingencies @ 20%			357,000
Total exploration budget			2,143,000
Debt payments of previous owners (integrated in the Acquisition Agreement)			3,071,000
Grand Total			5,214,000

Micon has reviewed the proposed exploration program and finds it to be reasonable and justified. Should it fit with Cerrado's strategic goals, it is Micon's recommendation that the company conduct the proposed exploration program.

The data used in the preparation of this report are current as of April 11, 2018.

MICON INTERNATIONAL LIMITED

"B. Terrence Hennessey" {signed, sealed and dated}

B. Terrence Hennessey, P.Geol.
Vice President
Micon International Limited

April 23, 2018

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28.0 CERTIFICATES

B. TERRENCE HENNESSEY

As the author of this report on certain mineral properties of Cerrado Gold Inc., in Tocantins State, Brazil, I, B. Terrence Hennessey, P.Geo., do hereby certify that:

1. I am employed by, and carried out this assignment for:

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2. I hold the following academic qualifications:

B.Sc. (Geology) McMaster University 1978
3. I am a registered Professional Geoscientist with the Association of Professional Geoscientists of Ontario (membership # 0038); as well, I am a member in good standing of several other technical associations and societies, including:

The Canadian Institute of Mining, Metallurgy and Petroleum (Member).
Society of Economic Geologists (Fellow)
4. I have worked as a geologist in the minerals industry for over 35 years.
5. I have read the definition of “Qualified Person” set out in National Instrument 43-101 Standards of Disclosure for Mineral Projects (NI 43-101) and, by reason of my education, past relevant work experience and affiliation with a professional association, fulfill the requirements to be a Qualified Person for the purposes of NI 43-101. My work experience includes 7 years as an exploration geologist looking for iron ore, gold, base metal and tin deposits, more than 10 years as a mine geologist in both open pit and underground mines and 20 years as a consulting geologist working in precious, ferrous and base metals as well as industrial minerals.
6. I visited the Monte do Carmo project site in Brazil during the period February 26 to March 2, 2018, to review the results of exploration at site.

