

# New Results at Marban Highlight Potential to Define High Grade Ore Shoots

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VAL-D'OR, QC - Apr 26, 2012) - [NioGold Mining Corporation](#) (TSX VENTURE: NOX) (OTCQX: NOXGF) ("NioGold") is pleased to release new drilling results of the Phase Two program conducted under the terms of the Aurizon Mines Ltd. ("Aurizon") earn-in option on the Marban Block property, located in the Malartic gold camp, Abitibi region of Quebec.

Results from 22 new drill holes and six (6) extensions of previous holes completed on the Marban gold deposit are included in this release. Drill results are tabled on the following pages.

The new results highlight the potential to define high grade shoots within the Marban deposit, which include:

- Hole MB-07-024ext, drilled on section 4300E, was extended to investigate the Eastern Down Dip Zone and returned two high grade intercepts that are included within lower grade intervals:
  - 8.1 g/t Au over 0.9 m at a vertical depth of 395 metres
  - 196.5 g/t Au over 1.2 m at a vertical depth of 415 metres
  
- Shallow in-fill drilling between sections 4300E and 4400E returned the following high grade intersections:
  - 20.5 g/t Au over 2.0 m at a vertical depth of 180 metres (MB-11-248)
  - 36.7 g/t Au over 1.1 m at a vertical depth of 155 metres (MB-07-019ext)
  - 29.8 g/t Au over 1.0 m at a vertical depth of 65 metres (MB-12-252)
  
- Hole MB-12-295 drilled on section 3575E and part of the in-fill drilling on the near surface Western High Grade Zone intersected:
  - 51.4 g/t Au over 1.1 m at 95 metres at vertical depth

The new results are showing very good intercepts over a strike of 1,050 metres on the deposit (from section 3550 to 4600) and from surface to a vertical depth of 500 metres. The deposit is developed inside the Marbenite shear zone which is about 200 to 500 metres wide and is affected by kilometric folds. The deposit itself is multi-folded and the flanks and hinges are forming numerous zones sometimes merging together and giving a thickness that range from 5 to 80 metres. Mineralisation is characterized by chlorite - carbonate - albite alteration associated with a variable amount of quartz veining and iron sulphides.

The Phase Two program will include 34,000 metres of diamond drilling, an updated mineral resource estimate and basic technical studies, including metallurgical testwork. Drilling commenced on December 13, 2011, and four drill rigs are currently in operation. Two are testing the extension at depth of the Marban deposit, one is following up on the fences drilled during Phase 1 between the Norlartic and Marban deposits, and the fourth drill is investigating select exploration targets outlined on the Marban Block property. To date, 75 holes and nine (9) extensions of previous holes have been completed for a total of 26,380 metres. The Phase Two program and updated resource estimate are expected to be completed by the end of the second quarter of 2012.

## Marban deposit drilling

The 2011 Phase One drill program demonstrated the continuity of the mineralisation between surface and a vertical depth of 250 metres, as well as the grade consistency, and led to the discovery of the Western High Grade Zone. This Phase One also identified the Eastern Down Dip Extension Zone which is located below a vertical depth of 250 metres and remains open at depth and laterally.

The objectives of the Phase Two drilling program:

1. Improve the quality of the Marban near surface resources:

The objective is to improve the quality of the known resources and to increase the potential to find more mineralised corridors within a pit shell to help decrease the stripping ratio, and will include drilling the Western High Grade Zone.



152.3 153.3 1.0 3.60  
 281.5 283.5 2.0 2.51 Y  
 344.2 357.2 13.0 2.47 D1  
 including 351.0 354.2 3.2 7.08 D1  
 450.8 451.7 0.9 5.63  
 468.0 475.8 7.8 0.99 A  
 MB-12-288 3900 4145 N180° -55° 420.0 227.0 228.0 1.0 6.72 E  
 309.1 316.1 7.0 3.07 C1  
 342.9 350.6 7.7 1.74 A

### Drill results - Marban deposit (continued)

Hole Easting (m) Northing (m) Azimuth Dip Hole Length (m) From (m) To (m) Length (m) Grade (g/t Au)  
 Zones

MB-12-291 3575 4260 N180° -51° 381.0 202.2 203.4 1.2 1.58 2  
 MB-12-292 3600 4335 N180° -51° 429.0 358.6 359.8 1.2 5.98  
 MB-12-293 3625 4260 N180° -51° 372.0 127.4 129.6 2.2 2.49  
 231.2 246.2 15.0 1.48 2  
 MB-12-295 3575 4130 N180° -51° 300.0 121.3 122.4 1.1 51.40 2  
 234.0 242.2 8.2 1.01 T  
 MB-12-296 3625 4130 N180° -51° 305.0 216.6 218.1 1.5 1.74 Z  
 MB-12-299 3550 4005 N180° -50° 189.0 49.7 50.7 1.0 10.35 Y  
 MB-07-019ext 4350 3880 N180° -45° 189 to 345 204.3 205.4 1.1 36.70 A  
 324.8 326.0 1.2 7.36  
 MB-07-024ext 4300 4050 N180° -80° 282 to 525 386.4 401.5 15.1 1.54 A  
 411.7 419.0 7.3 2.16  
 including 412.8 413.7 0.9 8.10  
 432.4 433.6 1.2 196.50 P  
 MB-08-049ext 4200 4200 N180° -65° 360 to 561 460.6 468.6 8.0 0.87 A  
 MB-08-071ext 4200 4240 N180° -68° 351 to 612 540.0 542.4 2.4 4.02 A  
 MB-08-074ext 4150 4235 N180° -56° 296.3 to 509 313.0 316.6 3.6 3.05 D2  
 335.8 337.0 1.2 4.72  
 345.4 351.4 6.0 1.27 D1  
 440.0 446.8 6.8 0.92 A  
 MB-08-077ext 4300 4050 N180° -63° 264 to 484 325.6 333.8 8.2 2.73 C1

### Technical Info, QA/QC and Qualified Persons

Reported intervals are in core lengths but are anticipated to approximate true width, except where structural complexities occur, as the holes were drilled near perpendicular to the principal local structural orientation.

Diamond drill holes were drilled with NQ-size core in order to obtain larger sample volumes of the mineralised zones, except for holes that traversed underground workings which were completed using BQ-size core. The core was sealed and delivered by the drilling contractor to NioGold's facilities located at the Norlartic mine site. The core was photographed for reference, logged and mineralised sections were sawed in half. Sample lengths vary between 0.5 to 1.5 metres. Half core samples were bagged, sealed and delivered to ALS Chemex in Val-d'Or, Quebec, an accredited laboratory. The remaining core is stored on site for reference. Samples were assayed by the fire-assay method using an atomic absorption finish on a 50-gram pulp split. A quality assurance and quality control program (QA/QC) was implemented by NioGold and the laboratory to ensure the precision and reproducibility of the analytical method and results. The QA/QC program includes the insertion of standards, blanks and field duplicates in the sample batches sent to the laboratory and a systematic re-assaying of samples returning values above 2 g/t Au by the fire-assay method using a gravimetric finish. As well, pulps grading above 0.5 g/t Au are sent to Bourlamaque Assay Laboratories Ltd. in Val-d'Or for check assaying.

The drilling program is conducted under the supervision of Yan Ducharme, M.Sc., P.Geo. (OGQ), NioGold's Exploration Manager and a Qualified Person as defined by National Instrument 43-101. The news released was prepared by Mr. Ducharme.

### NioGold Mining Corporation - << On Canada's Golden Highway >>

[NioGold Mining Corp.](#) is a mineral exploration company focused on gold. The Company's flagship projects are located in the Cadillac - Malartic - Val-d'Or region of the prolific Abitibi gold mining district in Quebec. The Cadillac, Malartic and Val-d'Or mining camps have produced over 45 million ounces of gold since the 1930s

and presently encompasses six producing gold mines including Osisko Mining's new Canadian Malartic operations. NioGold's land holdings within the Abitibi presently cover 130km<sup>2</sup> and encompass four former gold producers, namely the Norlartic, Kierens (First Canadian), Marban and Malartic Hygrade mines that collectively produced 640,000 ounces of gold. NioGold has outlined Indicated resources of 598,000 ounces gold and Inferred resources of 361,000 ounces gold in and around these deposits.

NioGold's experienced and qualified technical team are overseeing the advancement of these projects, with current drill programs underway targeting expansion of the resource base.

NioGold invites you to visit the company website at [www.niogold.com](http://www.niogold.com).

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