

# Northgate Minerals Intersects 5.44 Grams per Tonne Gold over 54.0 Metres at Young-Davidson

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## Exploration Success Continues on Both Flanks of Existing Young-Davidson Reserve

VANCOUVER, Oct. 4, 2011 /CNW/ - [Northgate Minerals Corporation](#) (TSX: NGX) (NYSE Amex: NXG) is pleased to announce assay results recently received from four diamond drill holes completed at Young-Davidson. Two of these holes were drilled in the YD West zone, where a new Indicated and Inferred Resource estimate of 536,000 and 53,000 ounces, respectively, was recently announced<sup>1</sup>. Drill results from these two holes (approximate widths of 30 metres ("m")), have enlarged this zone with a higher average grade than the main Young-Davidson deposit. The other two holes have slightly expanded the Upper Boundary Zone reserve ("UBZ") and highlight the potential of a new footwall zone, the YMX Footwall, that may provide another underground mining front on the property.

### YD West Highlights

Following on the new resource estimate at the YD West zone<sup>1</sup>, there are two additional holes for which assay results are now available:

- Hole YD11-244, drilled south to north, returned an intersected width of 54.0 m grading 5.44 grams per tonne ("g/t") gold, including 48.3 m grading 5.99 g/t.
- Hole YD11-243A, an oblique hole completed in the upper portion of the YD West zone, returned 2.68 g/t over 31.2 m east of a post mineral dyke and 4.60 g/t gold over 39.2 m west of the same dyke. The average of these intersections with the dyke removed is 3.75 g/t gold over 70.4 m.
- Two diamond drills continue to explore in the YD West zone.

It is expected that the results from these two holes will positively impact the recently announced YD West resource when it is updated at the end of the year.

### Underground Exploration Highlights

Underground exploration drilling initiated in mid-2011 focused on the down dip extension of the UBZ and other targets to the east of the existing Young-Davidson reserve. This drilling was conducted from an underground access located 150 m in the footwall and beneath the target UBZ. While the intent was to step-out down dip from the UBZ, the first hole flattened excessively, intersecting the lower section of the UBZ reserve.

- Hole YMX11-01 returned 3.07 g/t gold over 54.2 m, including 3.31 g/t gold over 45.3 m in the UBZ, indicating the zone at this location is up to 30 m wider than previously modeled.
- Hole YMX11-02 confirmed that the UBZ has a depth extent as modeled in the reserve and does not continue below the 9550 m elevation.

### YMX Footwall Zone

A benefit of drilling YMX holes from underground in a north to south orientation (i.e. from the footwall side of the existing deposit, as opposed to from the hanging wall side where almost all of the previous surface-based exploration drilling took place) is that the footwall of the currently known Young-Davidson deposit becomes better explored. In this instance, a potentially significant zone of continuous mineralization (YMX Footwall), which was previously interpreted as only isolated intersections, has been identified.

- Hole YMX11-01 also returned 3.53 g/t gold over 12.0 m in the YMX Footwall.

- Hole YMX11-02, drilled approximately 50 m down dip from the first hole, returned 5.89 g/t over 16.1 m in the YMX Footwall.

- These two new holes, in conjunction with six historic intercepts, suggest the YMX Footwall zone is a continuous area of mineralization with a thickness of approximately 10 m and an east-west strike length of up to 250 m with a similar vertical extent up and down dip.

The potential new zone, which is not yet included in resources or reserves on the property, is located approximately 75 m north of and parallel to one of the main reserve areas of the 2.8 million ounce Young-Davidson reserve2.

Given its close proximity to current mine development, its near vertical orientation, its grade and thickness, the YMX Footwall zone has the potential to provide another underground mining front for the Young-Davidson mine, which commences production in 2012.

"Our exploration program at Young-Davidson continues to yield exceptional results," commented Richard Hall, President and CEO of Northgate. "The two new results from YD West bolster the recently released resource, while the YMX Footwall zone could become our second new gold resource area identified outside of current reserves at Young-Davidson in the past 14 months. The close proximity of the YMX Footwall to our existing mine infrastructure means the zone has the potential to provide an additional underground mining front to feed the Young-Davidson mill, which has the capacity to process substantially more than the 6,000 tonnes per day that was outlined in the Feasibility Study. The exciting results from the YMX Footwall, combined with the nearly 600,000 ounces recently reported at YD West, mean that we could realize an additional one million ounces of resources on the property from our 2011 drill program."

## **Overview of Young-Davidson Exploration Area**

### **YD West Diamond Drill Program**

Additional drilling on the YD West zone continues to return excellent results. Hole YD11-243A, an oblique hole, was designed to test the orientation of the post mineral dykes as well as the zone itself, and hole YD11-244 was drilled in a conventional direction from south to north to test the zone. Geologic contact information for both holes were used to constrain the dyke model in the YD West resource estimate; however, assay results were pending at the time of the release so were not used in the resource estimate. Two diamond drills continue to test the limits of the YD West zone, which contains an Indicated and Inferred Resource of 536,000 and 53,000 ounces, respectively.

### **Underground Diamond Drill Program**

The purpose of the 2011 underground diamond drill program was to test if the main UBZ reserve extended further down dip and to explore other targets to the east of the main Young-Davidson reserve. The drilling reported herein indicates that while the main UBZ reserve does not extend much further down dip, the zone is considerably wider at depth than the 2008 interpretation (see Figure 2).

Both holes YMX11-01 and 02 were drilled from new underground mine workings from the footwall side of the deposit towards the hanging wall. Previous holes from surface were drilled from the hanging wall towards the footwall and most holes stopped once they exited the primary UBZ and, as such, did not encounter any mineralization in the footwall. The database for the 2008 resource estimate included six holes in this area that had gold bearing intervals in the footwall; however, their continuity was unknown, so they were not modeled as resource. Holes YMX11-01 and 02 confirm the potential that a mineable resource may be present between the new mine development work and the UBZ. Follow-up drilling will be performed as part of the underground delineation drilling program.

Figure 1: Young Davidson Longitudinal Section (looking north)

<http://www.northgateminerals.com/Theme/Northgate/files/Releases/2011/Figure1.jpg>

Figure 1 illustrates a longitudinal view with the location of drill holes 243A and 244 within the YD West zone and holes YMX11-01 and 02 within the YMX Footwall.

Figure 2: Cross Section 23680mE

<http://www.northgateminerals.com/Theme/Northgate/files/Releases/2011/Figure2.jpg>

Figure 2 presents a geologic sectional view (north-south vertical slice) on easting 23680mE. The main UBZ

and its potentially en echelon, or stepping, YMX Footwall zone are presented on the section, as well as drill holes YMX11-01 and 02 and all historic drill holes within the 50 m window.

Figure 3 - YD West Zone-Longitudinal Section

<http://www.northgateminerals.com/Theme/Northgate/files/Releases/2011/Figure3.jpg>

Figure 3 presents a longitudinal section specific to the YD West Zone area. Highlighted in yellow are the YD11-243A intercepts on both the east and west side of a post mineral dyke.

**Table 1: Assay Results from the YD West Zone**

Hole ID	From (m)	To (m)	Interval (m)	Estimated True Thickness (m)	Gold Uncut (g/t)	Gold Cut 20 g/t
YD11-243A	888.9	907.0	18.1	5.8	1.0	1.0
	930.5	961.7	31.2	10.0	2.68	2.68
incl	942.2	961.7	19.5	6.5	3.62	3.62
	1045.8	1085.0	39.2	12.0	4.60	4.60
YD11-244	1313.5	1367.5	54.0	31.5	5.44	4.56
	1319.2	1367.5	48.3	28.3	5.99	5.01
	1329.6	1350.5	20.9	12.2	10.02	7.76

**Table 1: Assay Results from the YMX Footwall Zone**

Hole ID	From (m)	To (m)	Interval (m)	Estimated True Thickness (m)	Gold Uncut (g/t)	Gold Cut 20 g/t
YMX11-01	99.0	110.0	12.0	11.1	3.53	3.53
	177.3	231.5	54.2	51.1	3.07	3.07
incl	183.5	231.5	48.0	45.3	3.31	3.31
YMX11-02	133.9	150.0	16.1	10.0	5.89	5.89

**Table 3: Drill Collar Locations YD West Zone and YMX Footwall**

Hole ID	Mine Easting	Mine Northing	Elevation (m)	Azimuth	Dip	Depth (m)
YMX11-01	23657	10527	9692	170	-30	315
YMX11-02	23657	10527	9692	170	-45	387
YD11-243A	22853	10255	10333	285	-72	1368
YD11-244	22441	9843	10382	351	-72	1521

### Quality Control - Analyses and Sample Location

Details of quality assurance/quality control procedures for sample analysis and drill hole survey methodology are reported in detail in the Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects ('NI 43-101') compliant Technical Report filed on SEDAR ([www.sedar.com](http://www.sedar.com)) on August 28, 2009.

### Qualified Persons

The program design, implementation, quality assurance/quality control and interpretation of the results are under the control of Northgate's geological staff, which includes a number of individuals who are qualified persons as defined under NI 43-101. Carl Edmunds, PGeo, Northgate's Exploration Manager, is responsible for the overall supervision of the program. Mr. Edmunds is a member of the Association of Professional Engineers, Geologists and Geophysicists of British Columbia and a member of the Association of Professional Geoscientists of Ontario and has 23 years of experience in mineral resource estimation.

### Note to Investors:

The terms 'Qualified Person', 'Mineral Reserve', 'Proven Mineral Reserve', 'Probable Mineral Reserve', 'Mineral Resource', 'Measured Mineral Resource', 'Indicated Mineral Resource', and 'Inferred Mineral Resource' used in this news release are defined in accordance with NI 43-101.

**Northgate Minerals Corporation** is a gold and copper producer with mining operations, development projects and exploration properties in the Americas and Australia. Northgate currently owns and operates the Fosterville and Stawell gold mines in Victoria Australia, and is building the Young-Davidson gold mine in northern Ontario, which is scheduled to commence production in 2012.

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1 See press release dated September 15, 2011

2 See press release dated January 25, 2010

#### **For further information:**

Ms. Keren R. Yun  
Director, Investor Relations  
Tel: 416-216-2781  
Email: [ngx@northgateminerals.com](mailto:ngx@northgateminerals.com)  
Website: [www.northgateminerals.com](http://www.northgateminerals.com)

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