

Geological Report

Holloway Tailings Property South Block

HOLLOWAY TOWNSHIP

LARDER LAKE MINING DIVISION

June 1, 2015

G. Matheson (P.Geo)



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Introduction

Between May 22nd and May 25th, 2015 Northern Gold Mining Inc. conducted a geological mapping program on their Holloway Tailing Property South Block, this was completed by G. Matheson the author of this report with field assistant Trevor Palmer. The geological mapping program only included the eastern portion of the Holloway Tailings South Block property; the western portion of the claim group is inaccessible and covered by an active tailing impoundment operated by SAS Goldmines Ltd. as part of their Holt Mill Operations. Northern Gold Mining's property covers four unpatented mining claims in Holloway Township in northeastern Ontario. In total the Holloway Tailings South Block comprises 5 units and covers an area of 96.5 Ha. A list of active claims is listed below:

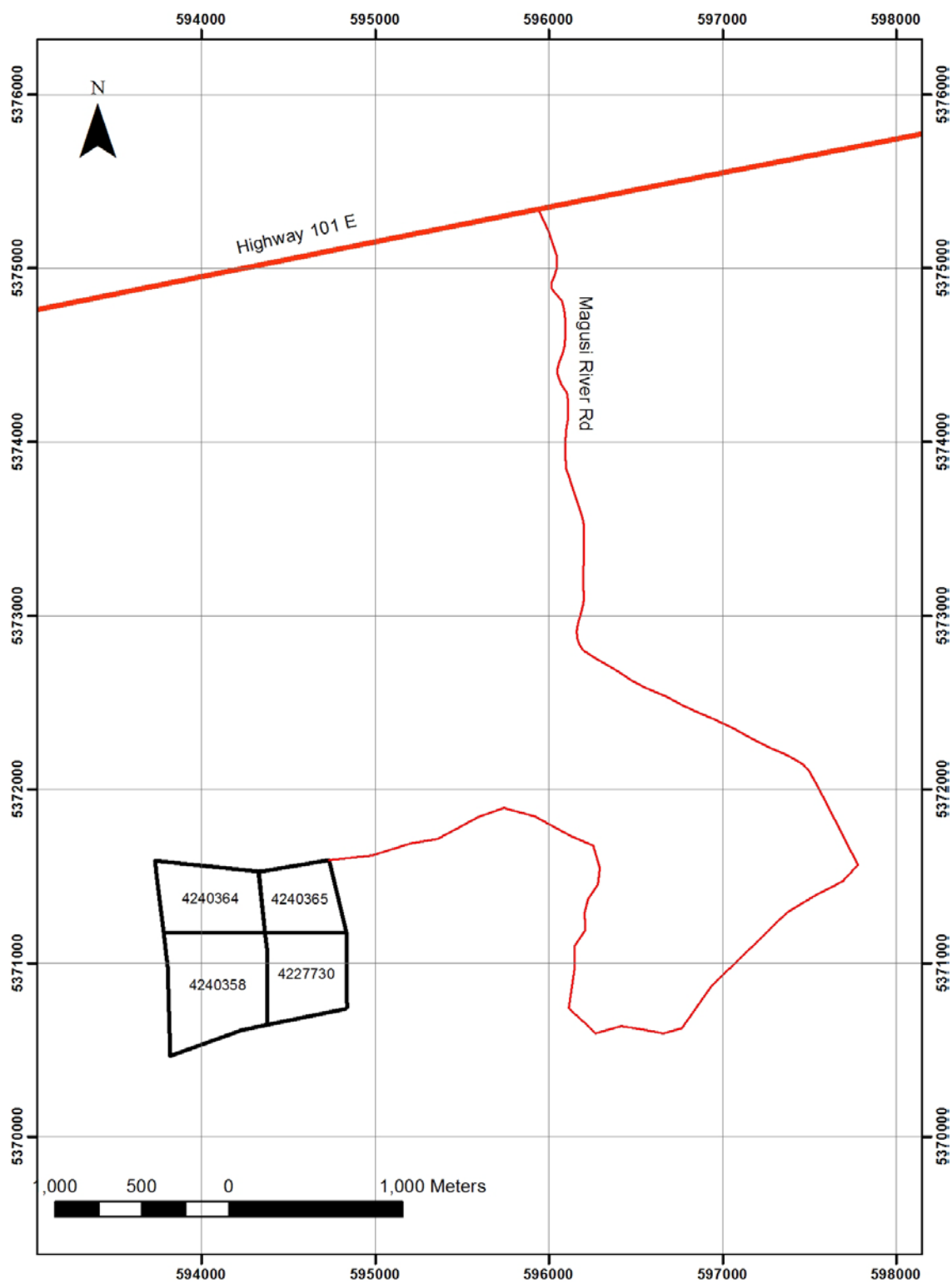
Holloway Township:
4240358 (1 claim units)
4240364 (1 claim unit)
4240365 (1 claim unit)
4227730(2 claim unit)

The property is located in the Larder Lake mining division, northeastern Ontario, 45 Km northeast of the town of Kirkland Lake (see map #1). The property was accessed by driving down the Magusi River Rd. from Highway 101E then taking a series of bush roads and ground traverses to reach the edge of the property by foot (see map #2). The western section of the property can also be accessed by vehicle from the Holt Mill owned by SAS Goldmines Ltd.

Hydro electric power, road and rail transportation are readily available and a skilled labour force with all necessary facilities can be found in the nearby Towns of Kirkland Lake, ON and LaSarre, QC.



Map #1– Holloway Tailings South Block General Property Location



Map #2 – Holloway Tailings South Block Claim Access Map

Property History

The property has seen very little previous exploration despite its proximity to the producing Holt McDermott Mine. During field investigations it was evidenced that not all previous work is available within the public domain, namely a drill hole collar located on claim 4240365. Listed below are the records of all publically available records of work:

1985 Regal Petroleum Ltd.

In 1985 Regal Petroleum Ltd. completed an IP, Magnetometer and VLF ground survey covering the entire claim package. The results of the IP survey found no conductive zones.

2012 Thomas O'Conner

In 2012 a total of 5.5 line kilometers of ground based magnetometer survey was completed by T. O'Conner. This work identified a linear magnetic feature that bisected the property.

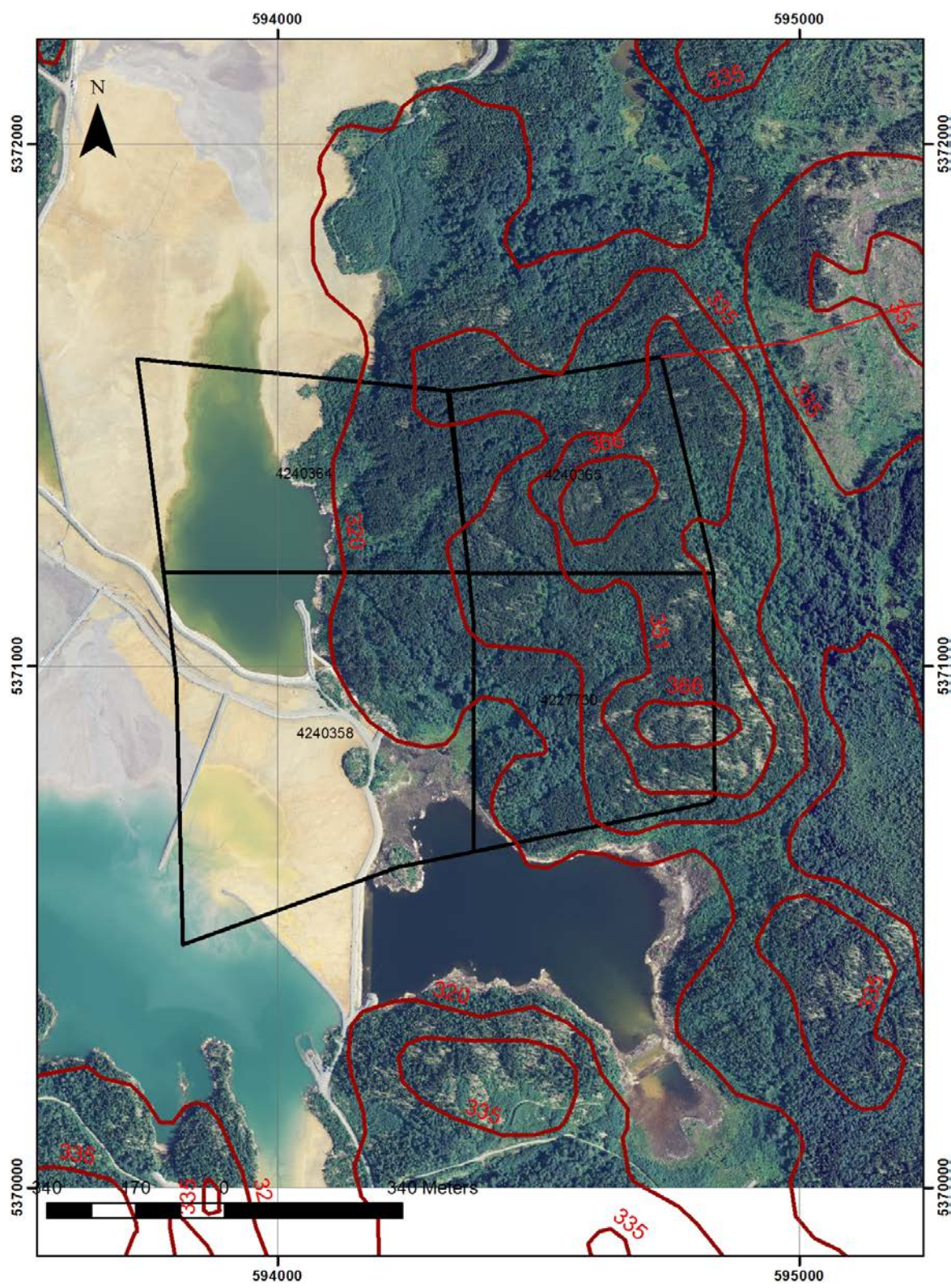
Geography

Physiography: The project area lies within the central Canadian Shield in the central Abitibi geologic subprovince. The region can be generalized as being in the boreal climactic region, characteristically covered by forest, swamps and lakes with relatively little relief.

Relief on the property is about 45m with a topographic low along the tailings basin of 320m ASL and topographic high in the eastern portion of the property of approximately 366m ASL. (see map #3).

While little to no bedrock occurs on the western portion of the claim block the eastern portion along the topographic high has good bedrock exposure and contains many areas of barren bedrock.

Climate: The climatic conditions are typical for the central Canadian Shield with short, mild summers and long, cold winters. Mean temperatures range from -17°C (0°F) in January, to 18°C (64°F) in July, and mean annual precipitation throughout the region ranges from 812 to 876 mm (32-35 inches).



Map #3 – Holloway Tailings South Block Topography

Geology

Regional Geology: The Holloway Tailings South Block property lies in the Superior Geological province and the Abitibi subprovince. The Abitibi subprovince is an 800 by 300 kilometer area underlain by granite greenstone stratigraphy of Archean age. In the Archean of northern Ontario, the supracrustal rocks are divided into rock packages based on their composition, morphology and geographic distribution. Individual “assemblages” consist of stratified volcanic and/or sedimentary rock units built during a discrete interval of time in a common depositional or volcanic setting. The Holloway Tailings South Block lies entirely with the north limb of the Lower Blake river assemblage. It is approximately 5km south of the main branch of the Destor Porcupine Fault Zone.

Property Geology: The Holloway Tailings South Block geology is dominated by mafic volcanic flows of the Lower Blake River assemblage. Field investigations located four distinct volcanic units distinguished mostly by textural differences. The four rock types are described below:

Medium Grained Mafic Flow: Relatively massive medium grained unit with 1-2mm grains, minor epidote alteration. Medium to dark green. Found predominately in the northern portion of the claim block

Mafic Agglomerate: Monomictic mafic agglomerate with angular clasts from 0.5-5cm. Dark Green/Grey colour with very little alteration and minor chlorite.

Variolitic Mafic Volcanic: Fine grained matrix of medium to dark green mafic volcanic, small 2-3mm amygdules infilled with chlorite throughout. Occasionally trace disseminated coarse pyrite with little to no alteration.

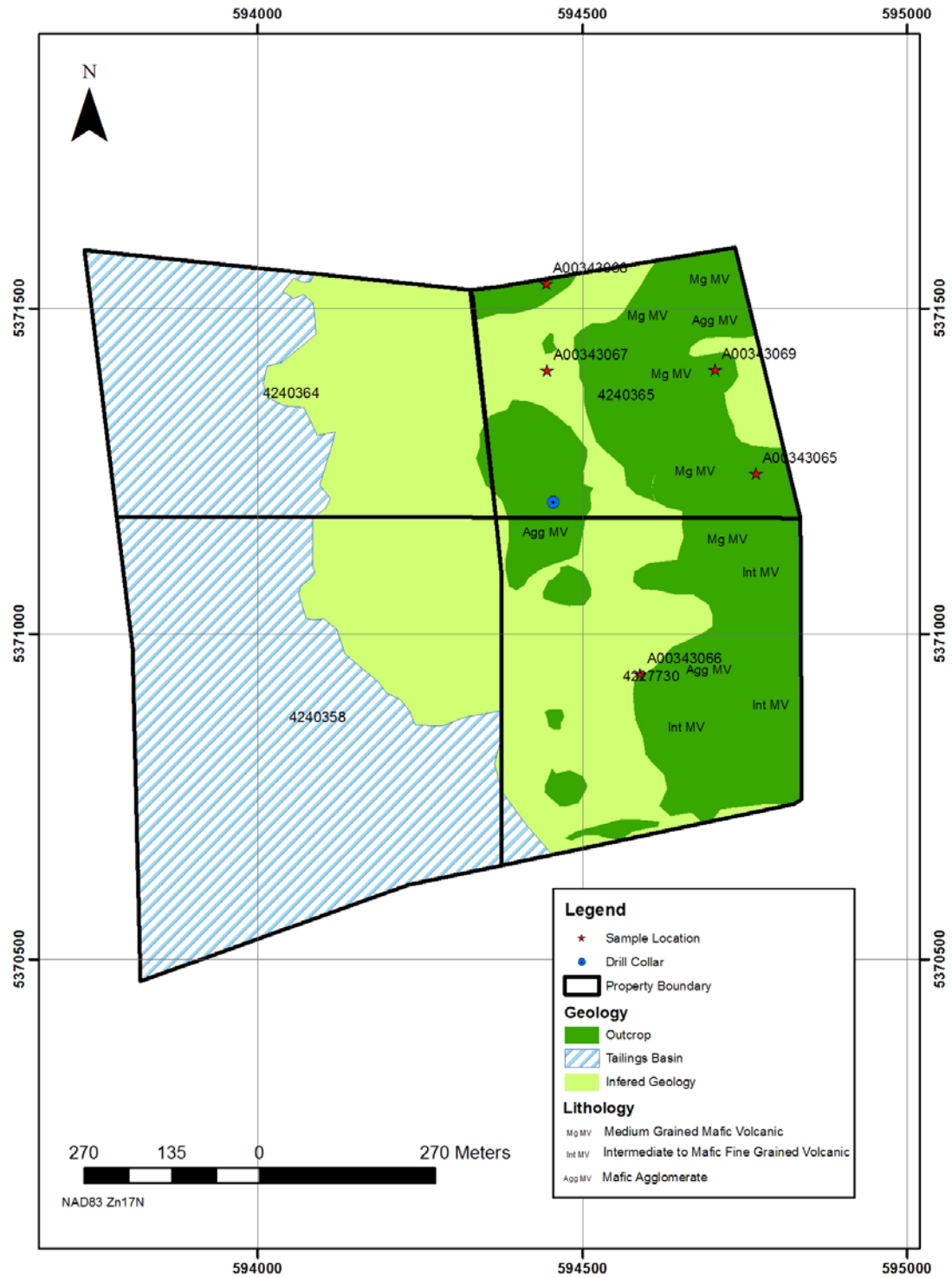
Mafic to Intermediate Volcanic: Light grey, very fine grained and relatively massive unit of light grey volcanic. Nil sulphide or alteration.

No Structural features of significance were identified during the field investigation.

Economic Geology: During field investigation little mineralization or evidence of past exploration was found despite the property’s good bedrock exposure. It was evident that hydrothermal activity was limited within the upper rocks of the property as very few veins or stringers were located. Several small quartz stringers and volcanic with enriched pyrite were sampled showing very low gold values. The results and sample description is listed below:

| Sample ID | Easting | Northing | Description | Grade Au (ppm) |
|-----------|---------|----------|--|----------------|
| A00343065 | 594767 | 5371245 | Dark grey variolitic basalt with chl filled amygdules and minor qtz fracture. Rare sulphide. | < 0.01 |
| A00343066 | 594589 | 5370938 | 3cm QCS along light grey alt basalt. Moderate fibrous asbestos along vein fractures. | 0.1 |
| A00343067 | 594445 | 5371404 | Medium grey fg MV with cg(2mm) disseminated py. | < 0.01 |
| A00343068 | 594444 | 5371537 | Speckled agglomerate with moderate qtz in the matrix. Re py. | < 0.01 |
| A00343069 | 594704 | 5371405 | Cg mafic volc. 1cm qcs with mod ep along margins. Re py. | < 0.01 |

*NAD83 Zn 17N



Map #4 – Holloway Tailings South Block Property Geology

Recommendations

The current program of mapping and sampling has failed to identify any significant features of economic interest. Further surface work does not seem to be justified. Investigating the results of the diamond drill collar located on claim 4240365 could provide additional geologic data that was not available at the time of writing this report.

The property's proximity to the Holt McDermott mine and destor porcupine fault zone present potential for the discovery of gold mineralization however significant work is required to test for mineralization at much deeper depths.

Certificate of Author

I, Greg Matheson of the Town of Kirkland Lake, Ontario hereby certify:

- 1) I am a graduate of Brock University, St. Catharines, Ontario having recieved a B.SC (Honours) in Earth Sciences in 2008.
- 2) I have worked as a geologist for 8 years, predominantly in the Kirkland Lake mining camp.
- 3) I am employed as an Exploration Manager with Northern Gold Mining Inc.
- 4) I am a registered P.Geo with the Ontario Association of Professional Geoscientists under license #2156.
- 5) I have made use of the records of the Ontario Geological Survey as well as field observations and personal knowledge of the area in the preparation of this report.

Respectfully Submitted



Greg Matheson

References

Berger, B.R. 2003. *Geologic Synthesis of the Highway 101 Area, East of Matheson, Ontario*. Ontario Geological Survey.

Cavey, G. & LeBel, L. 1986. *Geological and Geophysical surveys*. AFRI#32D12SE0008. Regal Petroleum Ltd.

Johnston, M. 2012. *Report of VLF-EM and Total Field Magnetism from the Holloway Grid*. 1571925 Ontario Ltd.

Appendix

Certificate of Analysis 15-1251



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

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Assay Certificate

Certificate Number: 15-1251

Company: **Northern Gold Mining Inc.**

Project: **GM**

Report Date: **26-May-15**

Attn: **G. Matheson**

We hereby certify the following Assay of 5 crushed rock samples
submitted 25-May-15 by G. Matheson

| Sample Number | Au | Au Chk |
|------------------|--------|--------|
| | FA-MP | FA-MP |
| | g/Mt | g/Mt |
| A00343065 | < 0.01 | |
| A00343066 | 0.10 | |
| A00343067 | < 0.01 | |
| A00343068 | < 0.01 | |
| A00343069 | < 0.01 | |

Certified by Jing Lin
Jing Lin, M Sc.