

**REPORT
of the
2007 MMI SOIL SAMPLING PROGRAM
On
GOLDEN CHALICE RESOURCES

PENHORWOOD PROPERTY
PORCUPINE MINING DIVISION,
NORTHEASTERN ONTARIO**

October 7, 2009

J Kevin Montgomery, P. Geo.



SUMMARY

The Penhorwood Property, held by Golden Chalice Resources, is situated 80 km southwest of Timmins, Ontario. It is comprised of 52 unpatented mining claims (10,335 hectares) in Penhorwood Township and Kenogaming Township. It forms part of Golden Chalice Resources Timmins West Project.

In 2007, 536 MMI soil samples were collected from nine areas on the property. These MMI soil samples were sent to SGS Mineral Services laboratory for multi-element analysis. This MMI soil sampling program, on the Penhorwood Property, was conducted to evaluate clusters of airborne VTEM conductors as potential nickel, gold or base metal drill targets.

MMI soil sample assay results were quite encouraging with some interesting silver, gold, copper, lead and zinc geochemical anomalies identified in the nine areas. The most promising of the nine areas, based on the MMI results, appear to be areas 18, 20, 25 and 31 for copper mineralization and area 37 for nickel mineralization.

The next recommended phase of exploration would be a ground geological investigation of the MMI soil assay results.

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MAPS (in back pocket)

MAP 1	Timmins West Project 2007 MMI Soil Sampling Grids Map
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INTRODUCTION

The Radio Hill Property and the Penhorwood Property form the Timmins West Project of Golden Chalice Resources Inc. The Penhorwood Property is comprised of 52 contiguous unpatented mining claims (638 claim units) covering approximately 10,335 hectares in Penhorwood and Kenogaming Townships. The property is held 100% by Golden Chalice Resources.

Exploration work in 2007 consisted of an airborne magnetic and time domain electromagnetic survey conducted by Geotech Limited, over nearly the entire property. The time domain electromagnetic survey identified numerous clusters of weak to strong conductors. In order to test some of these conductors a MMI soil sampling program and a mechanical overburden stripping program was carried out.

This report describes the 2007 MMI soil sampling program on the Penhorwood Property. The exploration field work occurred from July 1 to September 25, 2007. The analytical results from the sampling were not received until November 23, 2007.

LOCATION, ACCESS and CLAIMS

The Penhorwood Property, held by Golden Chalice Resources is located 80 kilometres southwest of Timmins, Ontario (Figure 1). It is comprised of 52 mining claims (638 claim units totalling about 10,335 hectares) that covers northeast and central Penhorwood Township, as well as the west central portion of Kenogaming Township.

Table 1 Penhorwood Property Claims

Claim	Units	Due_Date	Date_Recorded	Work_Req	Township
4221929	12	24-Oct-09	03-Aug-07	\$4,800.00	KENOGAMING
3019487	10	19-Nov-09	19-Nov-07	\$4,000.00	PENHORWOOD
3019491	15	19-Nov-09	19-Nov-07	\$6,000.00	PENHORWOOD
4227175	3	19-Nov-09	19-Nov-07	\$1,200.00	PENHORWOOD
4207062	16	25-Nov-09	07-Jun-05	\$6,400.00	PENHORWOOD
4207045	16	25-Nov-09	07-Jun-05	\$1,414.00	KENOGAMING
4207046	16	25-Nov-09	07-Jun-05	\$6,400.00	PENHORWOOD
4207047	16	25-Nov-09	07-Jun-05	\$6,400.00	PENHORWOOD
4207060	14	25-Nov-09	07-Jun-05	\$3,728.00	PENHORWOOD
4207061	16	25-Nov-09	07-Jun-05	\$6,400.00	PENHORWOOD
4207048	16	25-Nov-09	07-Jun-05	\$6,400.00	PENHORWOOD
3019488	16	18-Dec-09	18-Dec-07	\$6,400.00	PENHORWOOD
3019490	15	18-Dec-09	18-Dec-07	\$6,000.00	PENHORWOOD
3000605	1	2-Jan-10	02-Jan-04	\$400.00	PENHORWOOD

Claim	Units	Due_Date	Date_Recorded	Work_Req	Township
4201493	8	23-Mar-10	23-Mar-06	\$3,200.00	PENHORWOOD
4201492	16	23-Mar-10	23-Mar-06	\$6,400.00	PENHORWOOD
4201491	12	5-Apr-10	05-Apr-06	\$4,800.00	KENOGAMING
4201490	16	5-Apr-10	05-Apr-06	\$6,400.00	KENOGAMING
4201489	16	5-Apr-10	05-Apr-06	\$6,400.00	KENOGAMING
4201488	9	5-Apr-10	05-Apr-06	\$3,600.00	KENOGAMING
3019024	2	24-Apr-10	24-Apr-06	\$800.00	PENHORWOOD
4220806	4	30-Apr-10	30-Apr-07	\$1,600.00	PENHORWOOD
4207035	1	7-Jun-10	07-Jun-05	\$400.00	PENHORWOOD
4207042	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207041	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207040	15	7-Jun-10	07-Jun-05	\$6,000.00	PENHORWOOD
4207039	4	7-Jun-10	07-Jun-05	\$1,600.00	KENOGAMING
4207032	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207036	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207034	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207033	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207043	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207031	16	7-Jun-10	07-Jun-05	\$6,400.00	KENOGAMING
4207030	12	7-Jun-10	07-Jun-05	\$4,800.00	PENHORWOOD
4207037	10	7-Jun-10	07-Jun-05	\$4,000.00	PENHORWOOD
4207064	6	7-Jun-10	07-Jun-05	\$2,400.00	KENOGAMING
4207049	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207914	9	7-Jun-10	07-Jun-05	\$3,600.00	PENHORWOOD
4207044	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207058	12	7-Jun-10	07-Jun-05	\$4,800.00	PENHORWOOD
4207057	1	7-Jun-10	07-Jun-05	\$400.00	PENHORWOOD
4207056	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207054	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207053	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207051	16	7-Jun-10	07-Jun-05	\$6,400.00	KENOGAMING
4207050	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207055	16	7-Jun-10	07-Jun-05	\$6,400.00	PENHORWOOD
4207916	15	7-Jun-10	07-Jun-05	\$6,000.00	PENHORWOOD
4241832	12	11-Jul-10	11-Jul-08	\$4,800.00	PENHORWOOD
3000603	2	15-Oct-10	15-Oct-03	\$800.00	PENHORWOOD
3000604	2	15-Oct-10	15-Oct-03	\$800.00	PENHORWOOD
4207052	16	7-Jun-11	07-Jun-05	\$6,400.00	PENHORWOOD

The property is readily accessed by motor vehicle from Highway 101 West, The main Kenogaming Timber Road cuts through the eastern portion of the property, Further to the west; a second main gravel road off Highway 101 gives access to the northwest

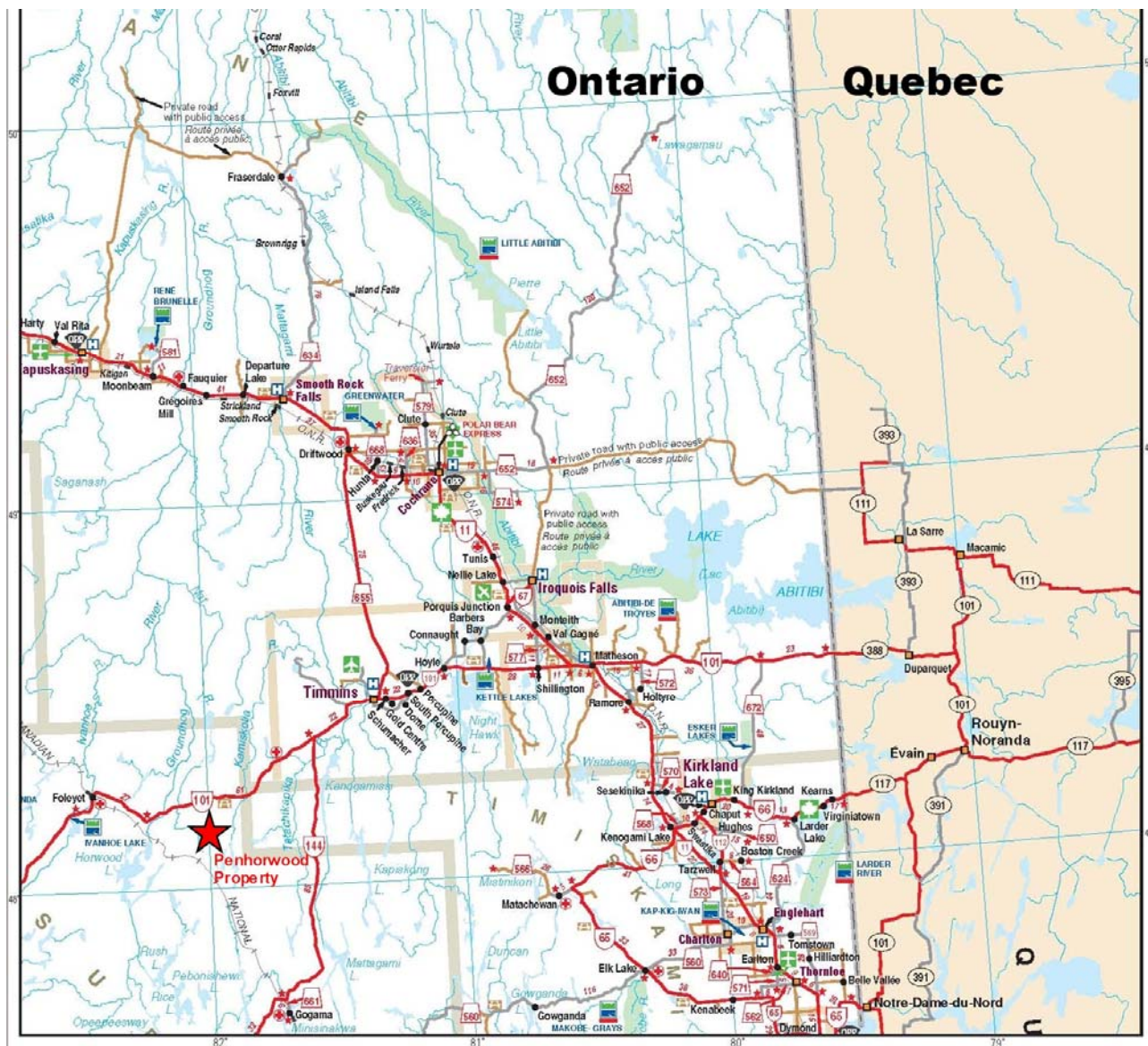


Figure 1 Location Map

portion of the property. A network of ATV and 4x4 truck trails off these two main gravel roads give further access to the property.

PROPERTY GEOLOGY

The property lies within the Superior Province of Archean basement rocks, in the Eastern Canadian Shield. It is situated in the northeastern part of the Swayze Greenstone belt which appears to be the western extension of the Abitibi Greenstone belt.

The property is predominantly underlain by southwest trending metamorphosed (greenschist) volcanics of the Muskego-Reeves Assemblage ranging from ultramafic to felsic. The mafic volcanics are pillowed to massive andesitic or basaltic flows. They are the dominant rock type on the property. Ultramafic volcanic flow units and/or intrusive sills trending east-west occur in the central portion of the property. They are intermixed with the mafic volcanics.

The east central portion of the property is underlain by felsic volcanics of the Hanrahan Lake Complex that extend west from Kenogaming Township. The felsic volcanics are comprised of tuffs, lapilli tuffs, agglomerates and intermediate to felsic flows. They form the core of a major northwest plunging antiform fold. A fairly continuous iron formation known as the Nat River iron formation marks the boundary between the felsic volcanics and the mafic volcanics.

In the northwest portion of the property metasediments occur. These consist of greywackes and conglomerates. The north centre part of the property is underlain by north-south trending ultramafic, mafic and felsic porphyry intrusive units that may be part of a layered complex. These intrusive units are interpreted to be sliced up by a series of northeast trending faults. In the southwest the Kukatush Stock (Biotite hornblende granodiorite) intrudes the volcanics and in the southeast the Kenogamissi Batholith (hornblende and/or biotite bearing granodiorite to tonalite gneiss). Smaller quartz-feldspar and feldspar porphyry intrusive bodies also occur on the property. All the rock types are intruded by late north to north-northwest trending diabase dykes (Figure 2).

Three major faults cross cut the property, the east-west trending Destor-Porcupine, the east-west trending Jehann Lake Fault and the southwest trending Hardiman Bay Fault.

MMI SOIL SAMPLING PROGRAM AND METHODOLOGY

The MMI soil sampling technique is based on the vertical ascension of ions from an oxidizing ore body. This vertical ascension is rapid in geological time and the ions are “loosely attached” to soil particles. Capillary rise and evaporation processes play an important part in locating an active anomaly just below the soil surface. This produces sharp anomalies in surface soils vertically above an ore body. The ions principally attach on to clays, iron oxides and organic matter. Background noise is reduced by the partial extraction geochemical analysis method which precludes ions that have been bound into soil particles and mechanically dispersed across the surface.

MMI soil sampling is conducted at a fixed depth of 10 to 25 cm below the interface of the leaf/twig litter layer and the inorganic soil layer. The sample should be taken as a continuous 15 cm plug. In boreal forest terrain dead organic matter is removed prior to taking the sample. Typically a 300-400 gram sample of either A or B horizon soil is collected at a site.

The Penhorwood Property MMI sampling program was conducted by Exsics Exploration personnel utilizing a steel hand auger. The sampling auger was brushed prior to taking any sample to eliminate residue from previous samples and it was flushed with soil from the new sample site. The 300-400 gram MMI soil sample collected at a site was placed in a clean plastic zip lock bag and labeled with the grid station co-ordinates. A description of the sample type, sample moisture content and the sample location terrain was recorded at each site (see Appendix A). These descriptions were later entered by the author into an excel spreadsheet.

The Penhorwood Property MMI soil sampling program consisted of 536 samples collected by Exsics Exploration personnel from July 11 to Sept 25, 2007. The sampling was conducted over nine areas (see Map 1). The nine areas cover clusters of VTEM line conductors detected by airborne magnetic and electromagnetic surveys carried out on the property in 2006. Seven of the areas (3,7,10N, 18E, 20, 31 and 37) had flagged lines set up with 50 m spacing perpendicular to the trend of the VTEM line conductors in the area cluster. The remaining two areas (25 and 26) were larger and as such had lines set up with 100 m spacing perpendicular to the trend of the VTEM line conductors in the area cluster. Samples along the flagged lines were collected every 25 m. In addition all the ends and centre of the lines were surveyed by a hand held GPS unit at a +/- 10 m accuracy. Sample location maps of each of the nine areas are found in Appendix C. The nine flagged grids equate to approximately 13.2 line km.

The collected soil samples were shipped to SGS Mineral Services' laboratory in Toronto, Ontario. The last shipment was sent on October 12, 2007. At the laboratory,

the samples were catalogued and inputted into the Laboratory Information Management System (LIMS) employed. A 50 gram portion of the soil sample is saturated with a concentrated MMI-M leach solution which extracts any mobile metal ions present in the sample. The pregnant sample solution is then aspirated into inductively coupled plasma Mass Spectrometer (ICP-MS) where the ions are measured and quantified according to their unique mass. The following elements were analyzed by the ICP-MS: Silver(Ag); Gold (Au); Barium (Ba); Bismuth (Bi); Calcium (Ca); Cadmium (Cd); Cerium (Ce); Copper (Cu);Cobalt (Co);Dysprosium (Dy); Erbium (Er); Europium (Eu); Gadolinium (Gd); Lanthanum (La); Magnesium (Mg), Molybdenum (Mo); Niobium (Nb); Neodymium (Nd); Nickel (Ni); Lead (Pb); Palladium (Pd); Praseodymium (Pr);Rubidium (Rb); Antimony (Sb); Samarium (Sm); Tin (Sn); Strontium (Sr); Tellurium (Te); Thorium (Th); Titanium (Ti); Thallium (Tl); Uranium (U); Tungsten (W); Yttrium (Y); Ytterbium (Yb); Zinc (Zn) and Zirconium (Zr). The results are exported via computer, on line, and inserted into the LIMS. The metal mobile ion elements analyzed are reported in ppb.

SGS Mineral Services employs a rigorous quality control procedure. The ICP-MS is calibrated with each work order. An instrument blank and calibration check is analyzed with each run. One preparation blank and reference material is analyzed every 46 samples, one duplicate every 12 samples. All quality control samples are verified using LIMS. The acceptance criteria are statistically controlled and control charts are used to monitor accuracy and precision. Data that falls outside the control limits is investigated and repeated as necessary.

MMI SOIL SAMPLING RESULTS

Results of the multi-element analysis conducted on the 536 MMI soil samples collected, are found in Appendix B of this report. These results were compiled into an excel computer spreadsheet and reviewed by the author. As a result of time constraints this review did not include a mathematical analysis of the data. The analysis results for silver (Ag), gold (Au), copper (Cu), nickel (Ni), lead (Pb) and zinc (Zn) were examined. Based solely on the magnitude of the element values it was determined that a sample was anomalous when its value for Ag was greater than 20 ppb, Au was greater than 0.5 ppb, Cu was greater than 1,000 ppb, Ni was greater than 1,000 ppb, Pb was greater than 1,000 ppb and Zn was greater than 2,000 ppb.

All nine MMI grid areas had a one sample one element high anomaly present on them. These are not considered significant unless several elements coincided. The significant anomalies are those which have anomalous element values of more than one sample in proximity to each other. These significant anomalies are discussed below.

Area 3

A moderate copper anomaly occurs in the centre of the grid at L0, 0 to 75S and L100E 0 to 25S. The copper anomaly has a coincident weak gold anomaly. This anomaly coincides with the centre of the VTEM conductor cluster. A moderate silver anomaly occurs on the western edge of the grid at L2W, 50 to 100N.

Area 7

No significant silver, gold, copper, nickel, lead and zinc anomalies were outlined.

Area 10

No significant silver, gold, copper, nickel, lead and zinc anomalies were outlined.

Area 18

A strong zinc anomaly occurs in the northern portion of the grid at L200E, 100 to 125N and L100E, 100 to 125N. A strong lead anomaly is situated in the centre of the grid with zinc spot highs at L0, 25 to 50S and L100W, 25 to 50S. This coincides with the VTEM conductor cluster. A moderate lead anomaly occurs at L200W, 75 to 100N. In addition, a spot copper, silver and zinc high occurs at L200W, 25S and may be significant.

Area 20

A strong north trending copper anomaly occurs on the western part of the grid (see Table 2) with spot nickel, lead and zinc high values. This does to correspond to the 065 degree trend of the VTEM line conductors. A strong zinc anomaly is present on the eastern edge of the grid at L200E, 25 to 50N.

Area25

The area has several spot copper highs; three spot lead highs, two spot silver highs and four spot zinc highs. The most significant anomaly is a strong to moderate copper anomaly at L200W 50 to 125S with coinciding spot silver, zinc and lead highs. This anomaly is situated immediately south of the 070 degree trend of the VTEM conductor cluster. A second moderate copper anomaly is situated in the east at L0 75 to 100N. A weak nickel anomaly with coinciding spot silver, zinc and copper highs occurs at L300W 100 to 125S.

Area26

No significant silver, gold, nickel, lead and zinc anomalies were outlined. A moderate copper anomaly was outlined in the centre of the grid at L200W, 0 to 50N. This is situated immediately north of the 075 degree trend of the VTEM conductor cluster.

Area 31

The grid area has several strong copper anomalies scattered throughout (see Appendix

B) and overall has the highest copper values of all the grids. The strongest and widest copper anomaly spans from L200W 75N to 150N, L100W 0 to 125N, L0 25N to 100S and may extend further east to the southern edge of lines 100E and 200E. A moderate nickel anomaly at L100W 25 S to 25 N and spot anomalous nickel values at L200W 150N/L100E 100S coincide with this strong copper anomaly. This strong copper anomaly is situated on top of the VTEM conductor cluster. A second strong copper anomaly occurs on the eastern edge of the grid at L200E 50 N to 50S with a coinciding spot anomalous gold value at 200E 25N.

Area 37

The grid area has several moderate nickel spot anomalies (>1,000 ppb to 1,500 ppb) scattered throughout (see Appendix B) and overall has the highest nickel values of all the grids. A strong nickel anomaly (>1,500 ppb) occurs in the southern portion of the grid at L0, 100 to 150S and L200W, 100 to 125N. An interesting spot Cu-Au-Ag anomaly occurs at L100E, 75S.

A summary of the significant anomalous base metal and precious metal areas identified by the author from the MMI soil sampling survey is listed below.

Table 2 Base metal and Precious metal soil MMI anomalies on the Penhorwood grids.

Area	Grid Station	Element	Area	Element	Grid Station
3	L200W, 50 to 100N	Ag			
3	L0, 0 to 75S	Cu			
3	L100E, 0 to 25S	Cu			
31	L100W, 0 to 125N	Cu	31	Ni	L100W, 25S to 25N
31	L200W, 75 to 150N	Cu	31	Ni	L200W, 150N
31	L0, 25 to 50S	Cu			
31	L200E, 50N to 50S	Cu	31	Au	L200E, 25N
31	L100E, 100S	Cu	31	Ni	L100E, 100S
20	L200W, 100 to 125S	Cu	20	Ni	L200W, 125S
20	L100W, 50 to 75S	Cu	20	Pb	L200W, 100S
20	L100W, 50 to 75N	Cu	20	Zn	L200W, 125S
20	L100W, 125 to 150N	Cu	20	Ni	L100W, 75N
20	L0, 50 to 125N	Cu			
20	L200E, 25 to 50N	Zn			
25	L200W, 50 to 125S	Cu	25	Ag	L200W, 50S

Area	Grid Station	Element	Area	Element	Grid Station
			25	Zn,Pb	L200W, 75S
25	L300W, 100 to 125S	Ni	25	Ag, Cu	L300W, 100S
			25	Zn	L300W, 100S
25	L0, 75 to 100N	Cu			
26	L200W, 0 to 50N	Cu			
37	L0, 25N to 150S	Ni	37	Ag,Cu	L0, 125S
37	L200W, 75 to 125S	Ni			
37	L400E, 75S	Cu,Ag,Au			

CONCLUSION AND RECOMMENDATIONS

The MMI soil sample assay results were quite encouraging with some interesting silver (Ag), gold (Au), copper (Cu), lead (Pb) and zinc (Zn) anomalous areas (see Table 2). The most promising of the nine areas, based on the MMI results, appear to be areas 18, 20, 25 and 31 for copper mineralization and area 37 for nickel mineralization. Two areas of lower priority for further exploration are Area 3 and 26. No further exploration work is recommended for VTEM areas 7 and 10.

It is recommended that a comprehensive geochemical interpretation study be conducted on the generated assays. This study should include a mathematical analysis of the data, in order to determine the best anomalies and filter out any one line spot anomalies. The next recommended phase of exploration would be the geological mapping of the seven grids to ascertain if there is bedrock exposure on or near the anomalous areas. This ground checking is necessary to generate potential trenching or diamond drilling targets.

The multi-element analysis of the MMI soil sampling on the nine GPS flagged grids of the Penhorwood Property totalled \$48,577 (see Appendix D).

REFERENCES

Hartley, C.

2008 Report on Channel Sampling for Golden Chalice Resources, Claim No. 3207037, Penhorwood Property, Penhorwood Township, Porcupine Mining Division, Northeastern Ontario.

Hartley, C.

2008 Report on Diamond Drilling for Golden Chalice Resources on the Timmins West Project, Porcupine Mining Division, Northeastern Ontario.

Montgomery, J.K.

2007 Report of Diamond Drilling and Mechanical Stripping on Golden Chalice Resources Penhorwood Property, Porcupine Mining Division, Northeastern Ontario. June 6, 2007.

Montgomery, J.K.

2007 Report of the 2007 Mechanical Overburden Stripping on Golden Chalice Resources Penhorwood Property, Porcupine Mining Division, Northeastern Ontario. January 27, 2009.

CERTIFICATE OF QUALIFICATIONS

I, J. Kevin Montgomery, of the City of Timmins, Province of Ontario, do hereby certify that:

- (1) I am a professional Consulting Geologist, residing at 1190 Lozanne Crescent, Timmins Ontario, P4P 1E8.
- (2) I hold a B.Sc. Honours degree in Geological Sciences (1984) from Queen's University of Kingston, Ontario and a M.Sc.(App.) in Mineral Exploration (1987) from McGill University at Montreal, Quebec.
- (3) I am a registered professional geoscientist with the Association of Professional Geoscientists of Ontario.
- (4) This report is based on my supervision of the MMI Soil Sampling on the Penhorwood Property in 2007.
- (5) I have no personal interest in the property covered by this report.
- (6) Permission is granted for the use of this report, in whole or in part, for assessment and qualification requirements but not for advertising purposes.

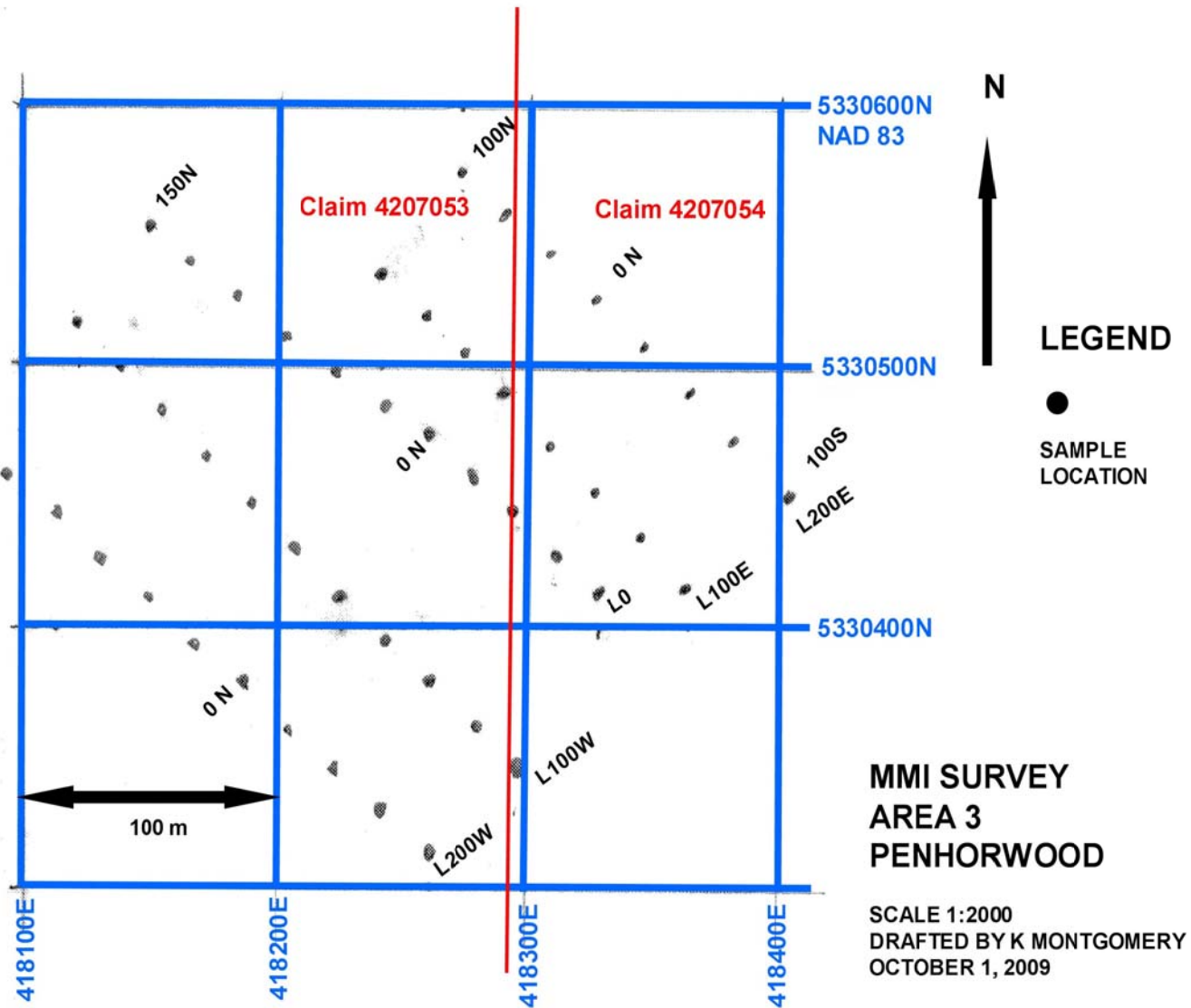
Dated at Timmins, Ontario
This 7th day of October, 2009.

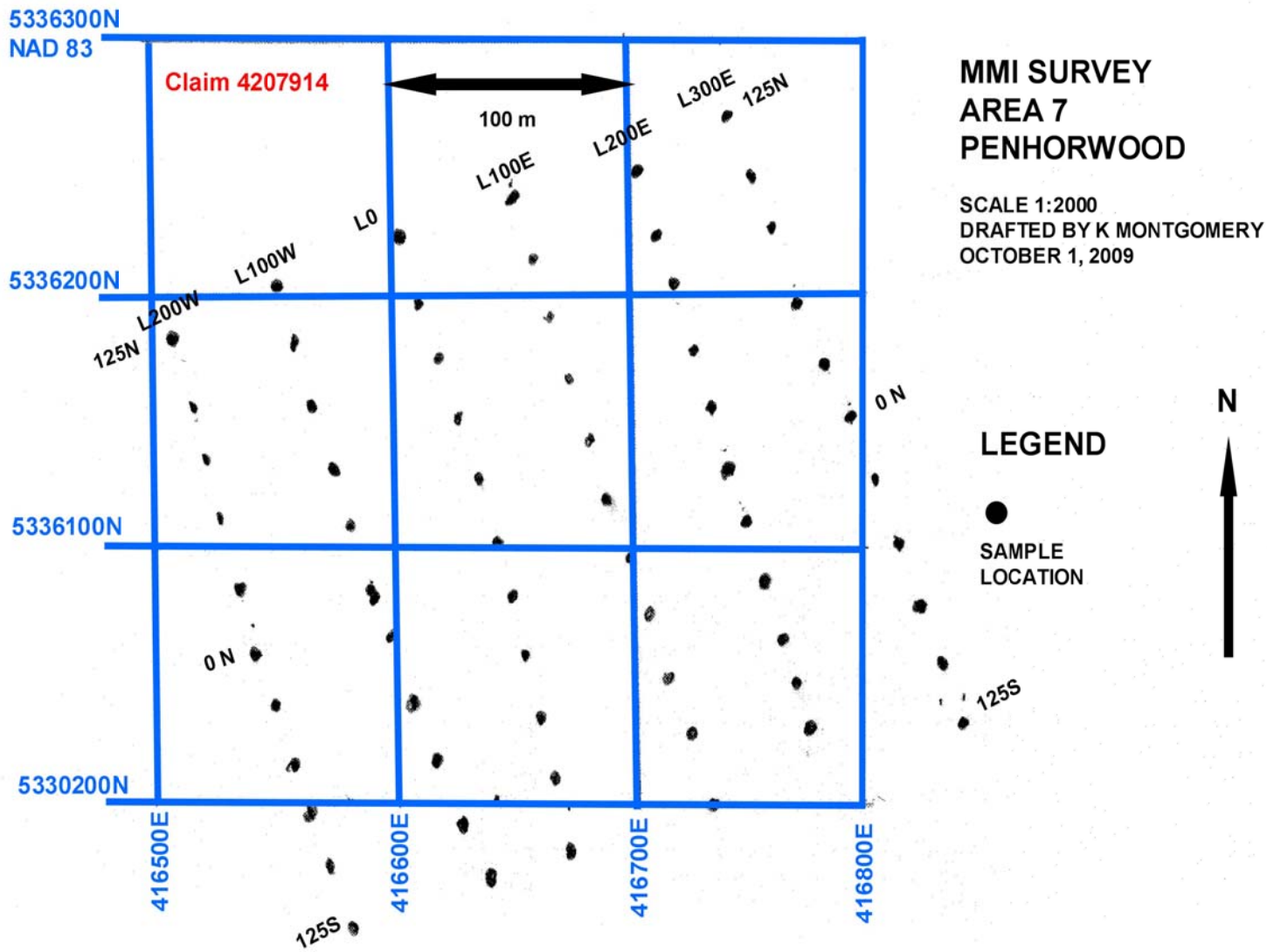
J. Kevin Montgomery, P.Geo., M.Sc. (App.)

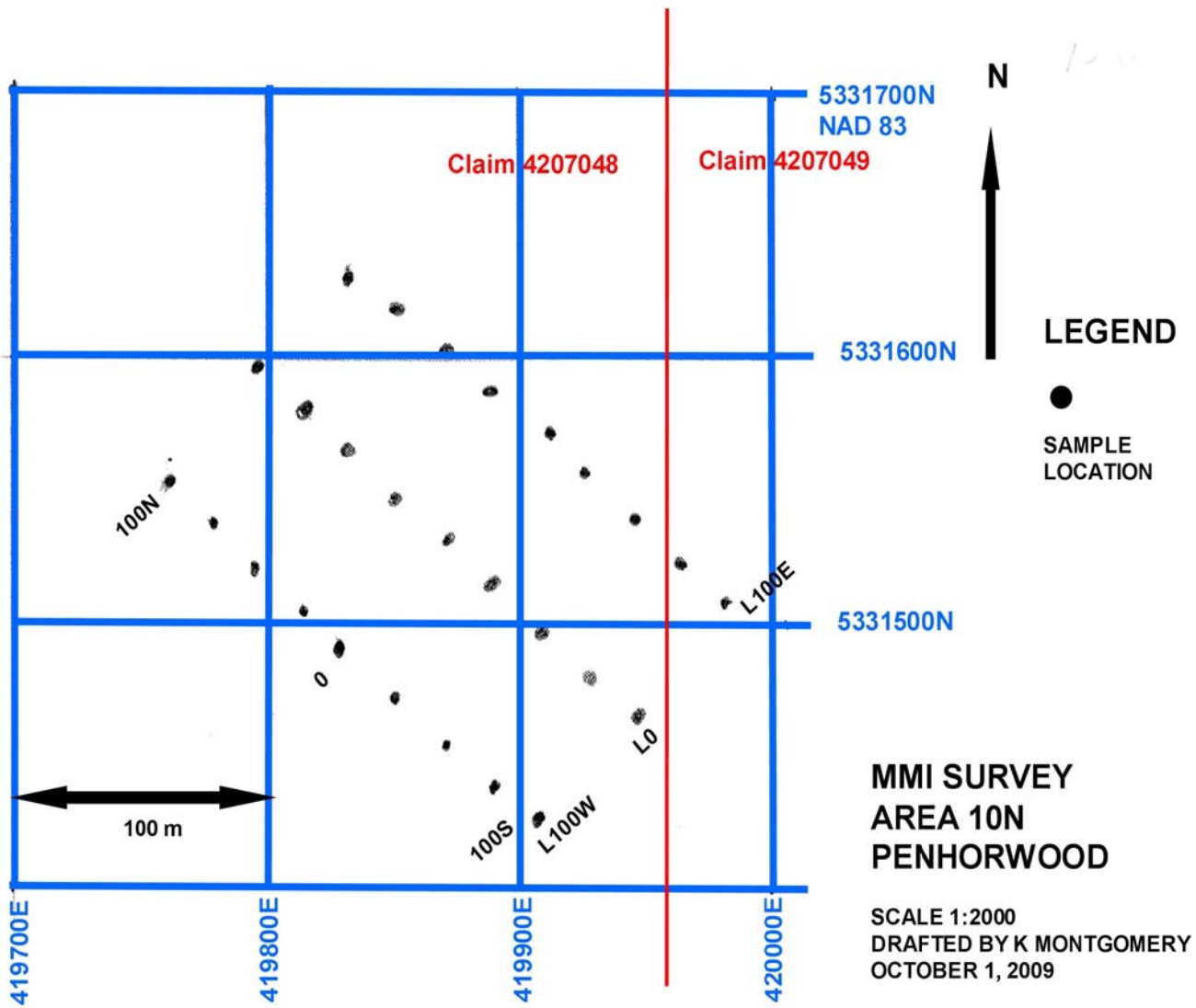
APPENDIX A SOIL SAMPLE FIELD DESCRIPTIONS

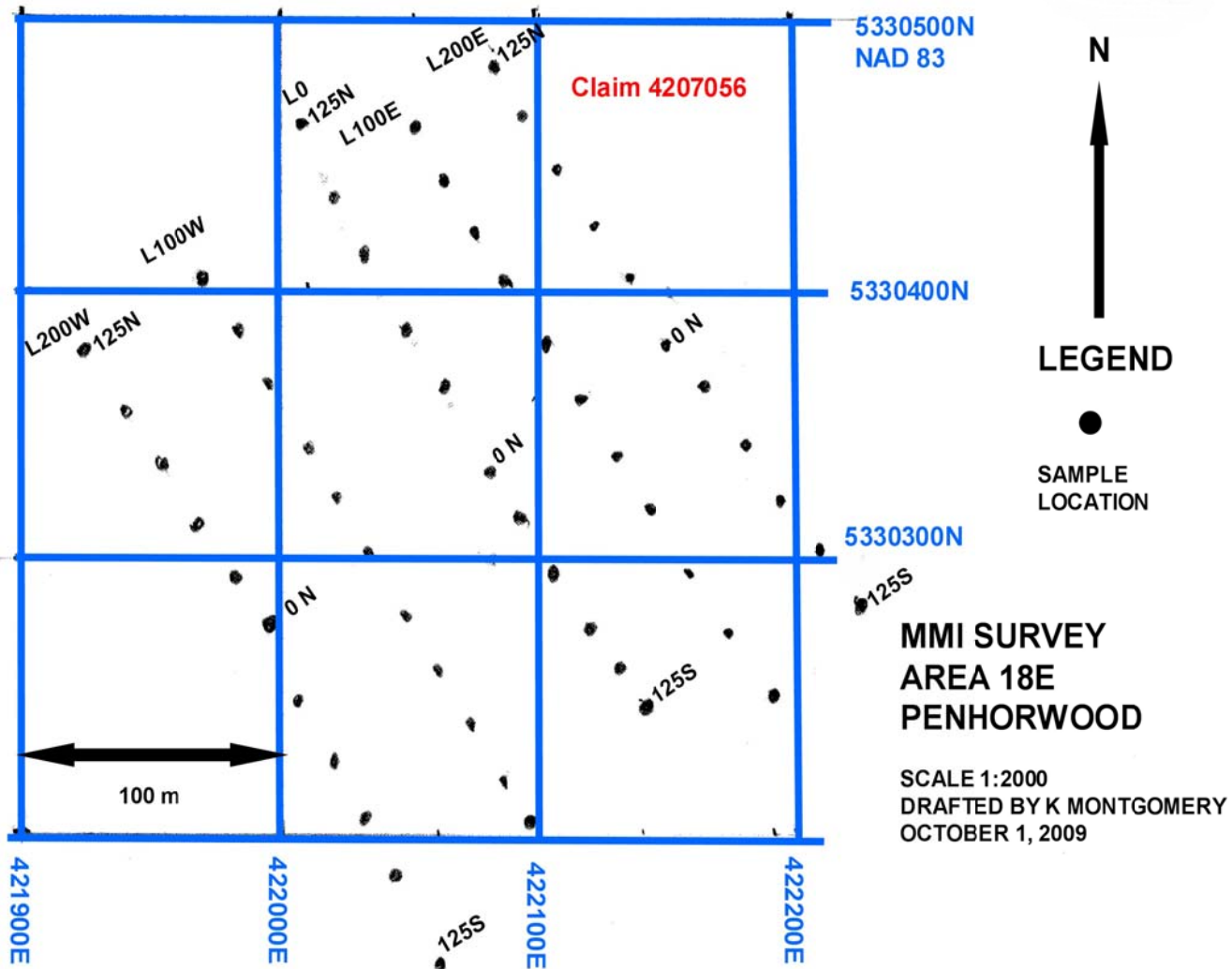
APPENDIX B ANALYTICAL CERTIFICATES

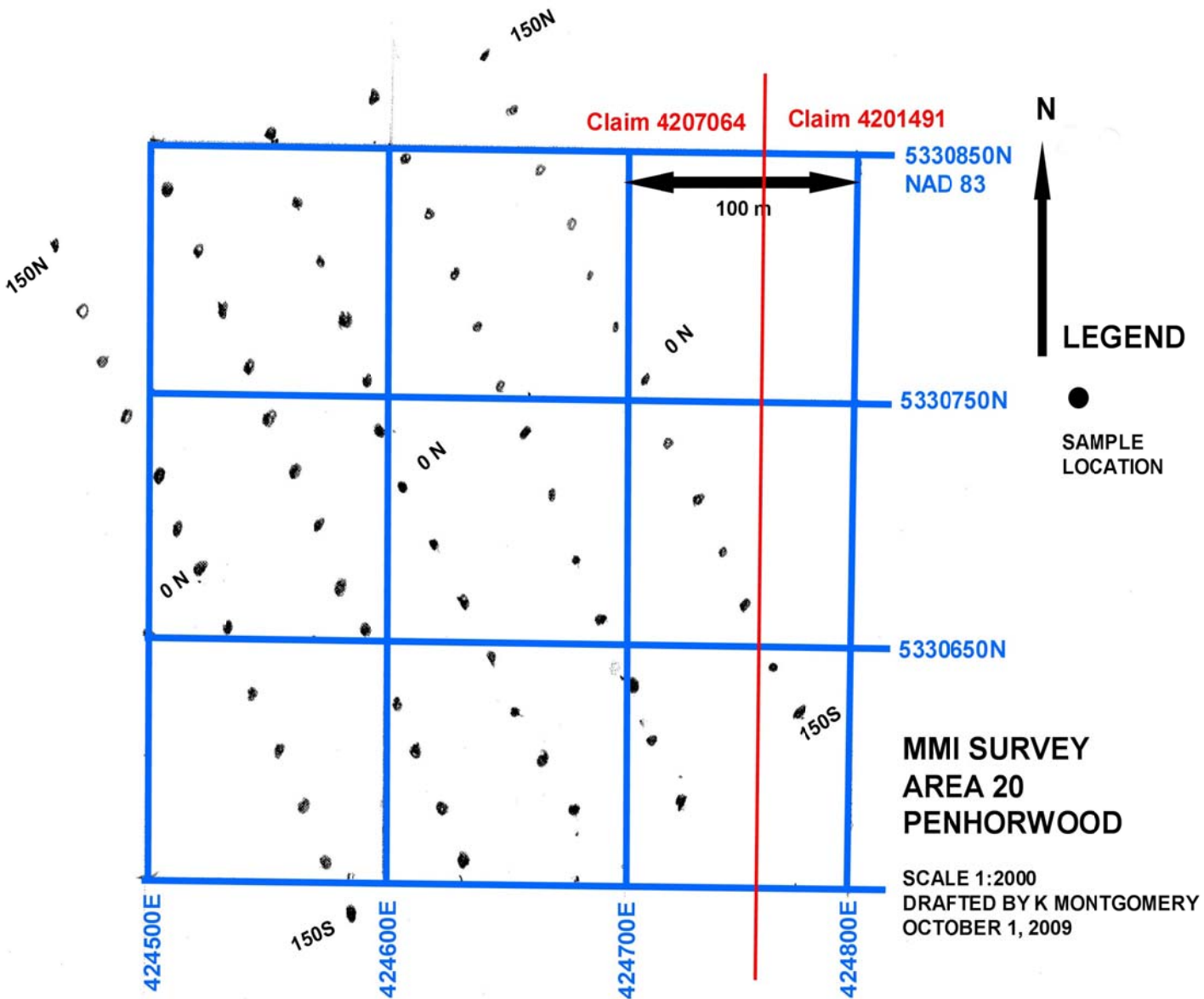
APPENDIX C 2007 MMI GRID SAMPLING MAPS

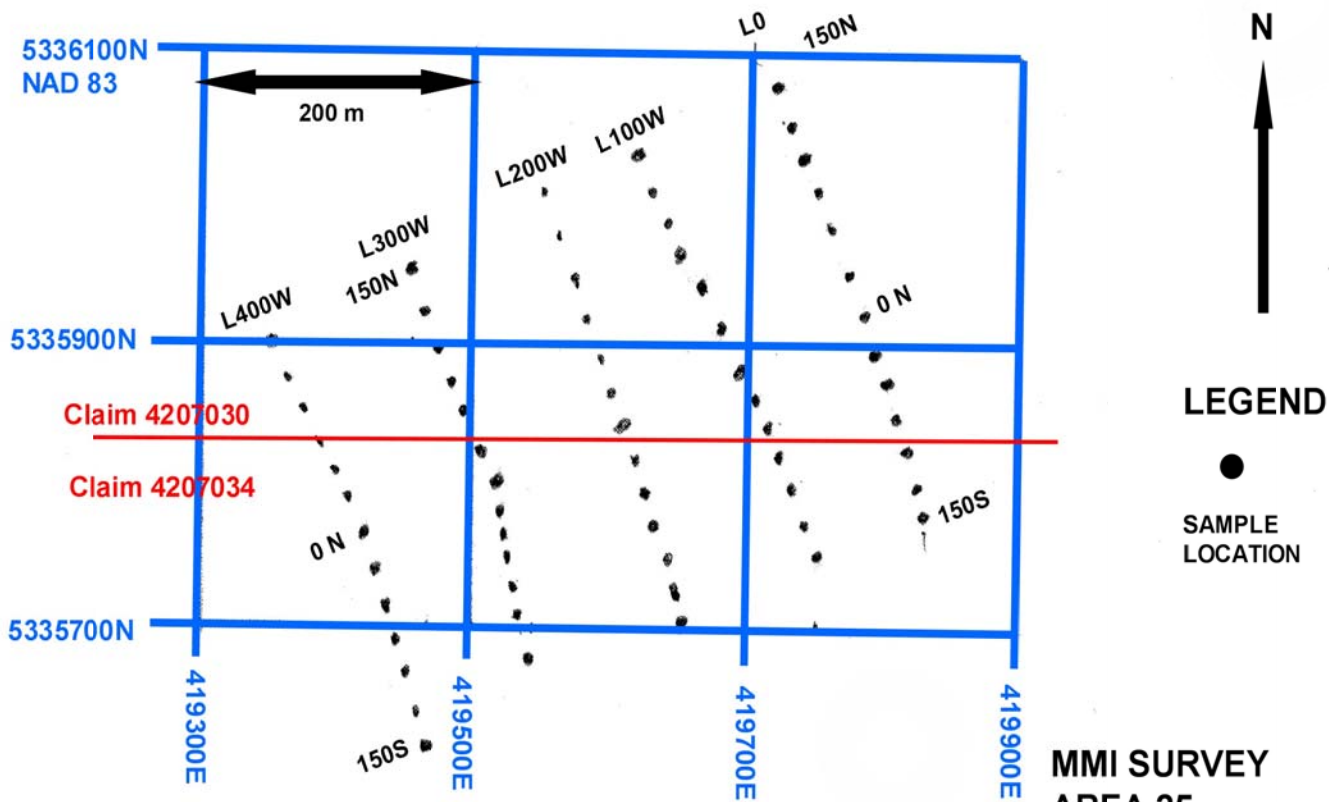






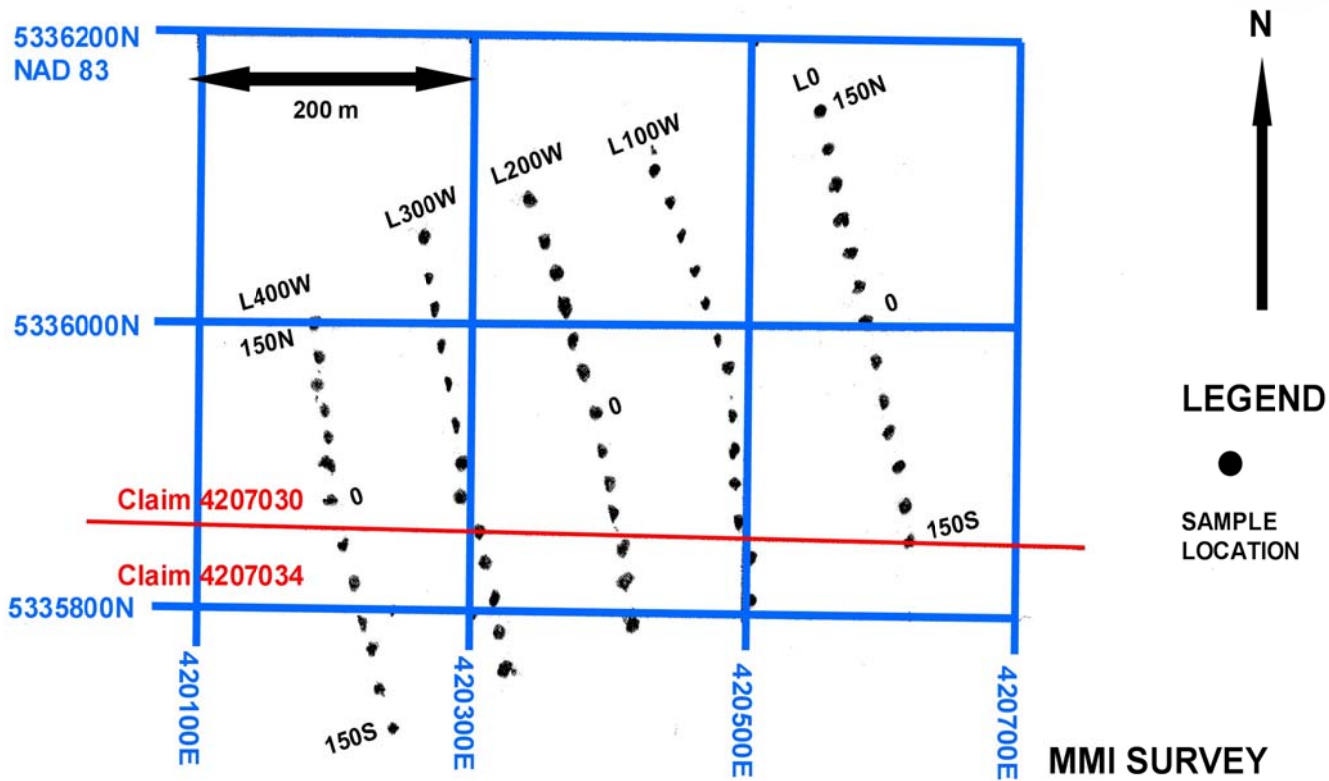






**MMI SURVEY
AREA 25
PENHORWOOD**

SCALE 1:4000
DRAFTED BY K MONTGOMERY
OCTOBER 1, 2009

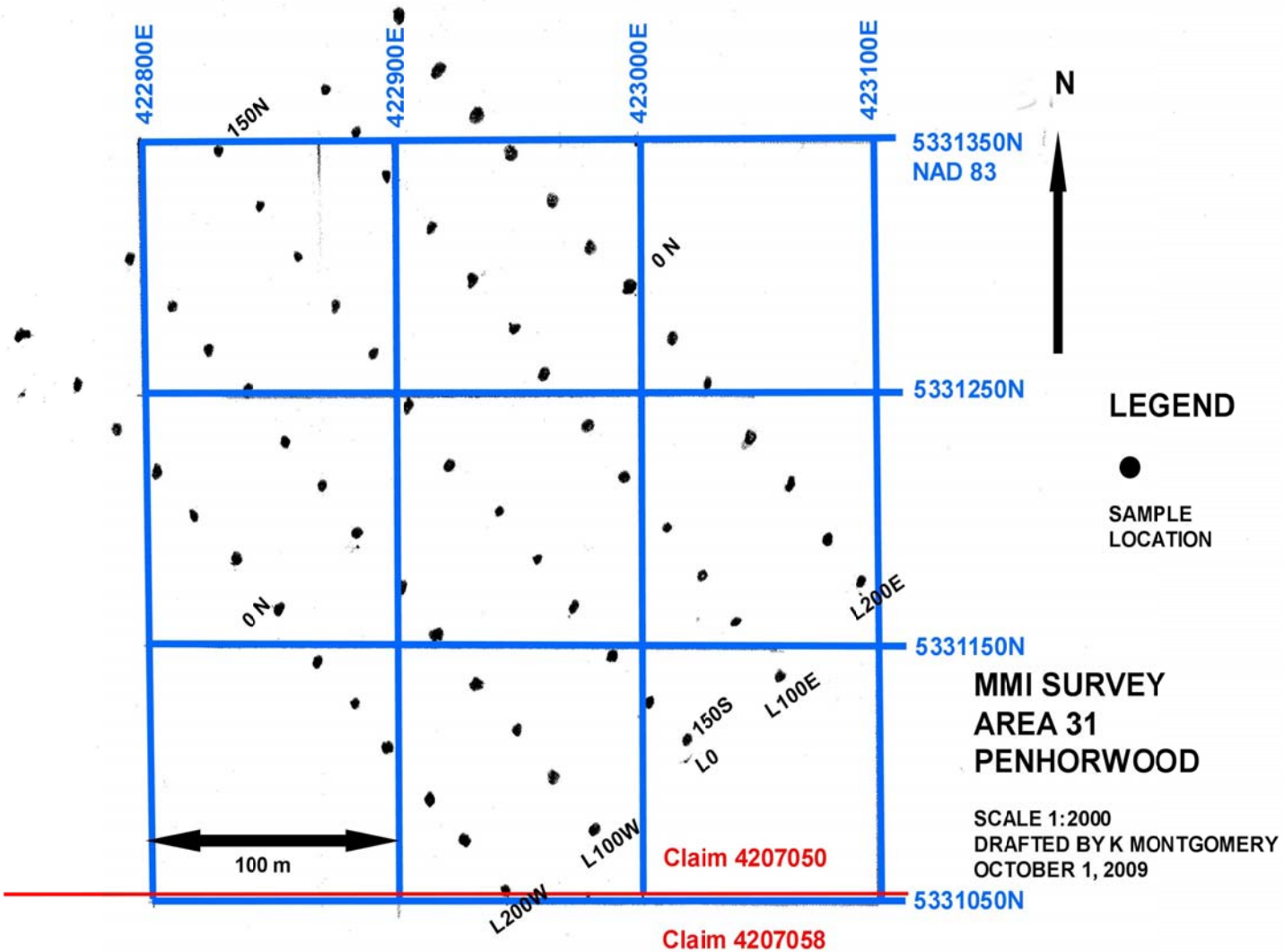


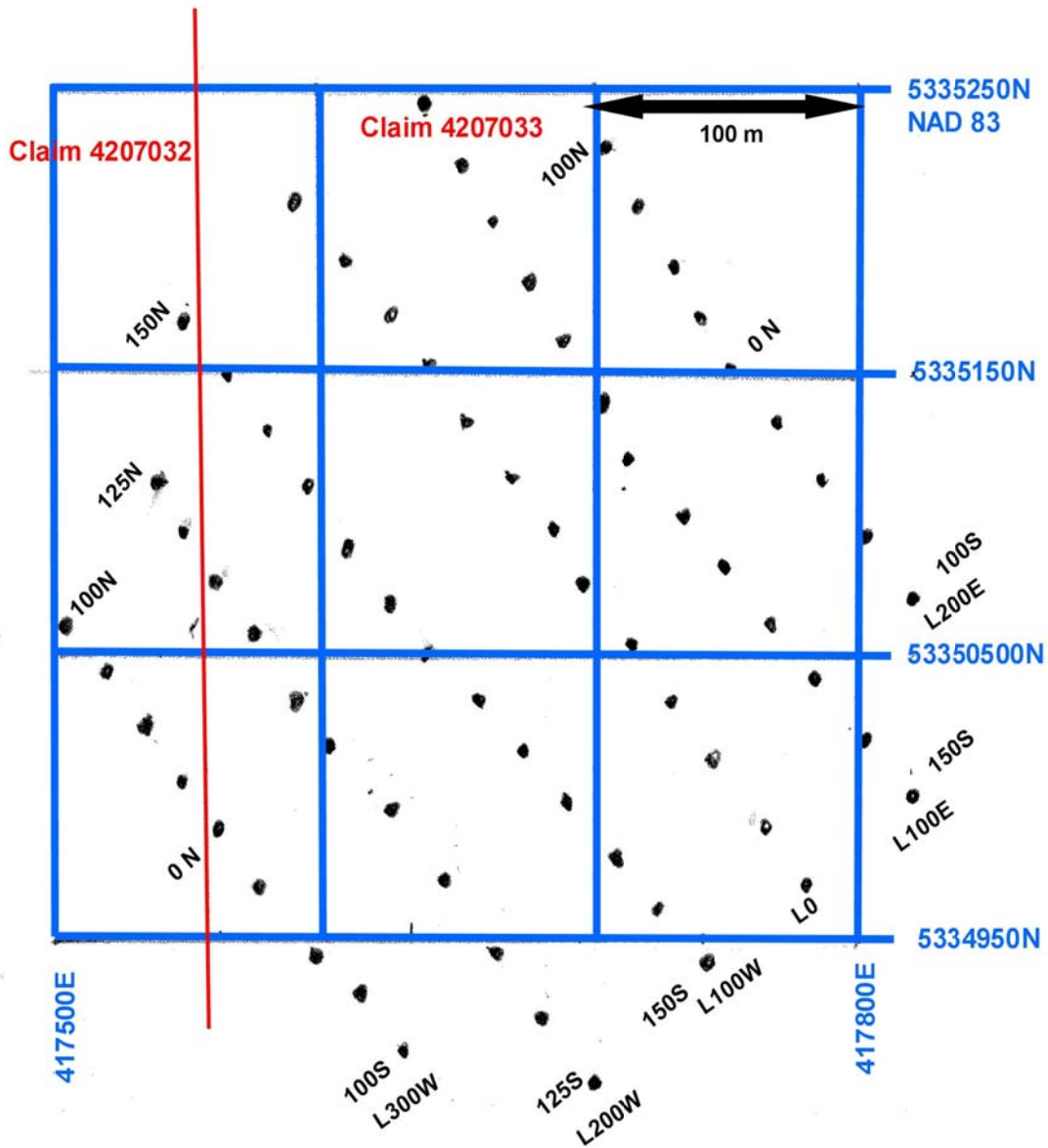
LEGEND

●
SAMPLE LOCATION

**MMI SURVEY
AREA 26
PENHORWOOD**

SCALE 1:4000
DRAFTED BY K MONTGOMERY
OCTOBER 1, 2009





**MMI SURVEY
 AREA 37
 PENHORWOOD**

SCALE 1:2000
 DRAFTED BY K MONTGOMERY
 OCTOBER 1, 2009

APPENDIX D CERTIFICATE OF EXPENDITURES

Golden Chalice Resources Inc.
Penhorwood Property
Penhorwood and Kenogaming Twp. Ontario
Soil MMI Sampling Program
July 1, 2007 to October 7, 2007

July 1, 2007 to October 1, 2007 Expenditures

Program Supervision	\$ 2,332.00
Soil Sample Collection	\$ 20,882.00
Soil Sample Transport to Lab	\$ 786.00
Soil Sample MMI Multi-element Analysis	\$ 7,642.60
TOTAL	\$ 31,647.00

October 1, 2007 to October 7, 2009 Expenditures

Soil Sample MMI Multi-element Analysis	\$ 12,152.11
Report Writing & Map Drafting	\$ 4,777.50
TOTAL	\$ 16,929.61

Distribution of Expenditures per Claim

Claim No	Area	Total of samples claim	Portion of program/536
4207053	3	35	0.06
4207054	3	14	0.03
4207914	7	66	0.12
4207048	10	25	0.05
4207056	18	55	0.10
4207064	20	65	0.12
4207030	25	47	0.09
4207034	25	30	0.06
4207030	26	51	0.10
4207034	26	16	0.03
4207050	31	65	0.12
4207033	37	60	0.11
4207032	37	7	0.01
		536	1

Certified by: *J Kevin Montgomery*

Date: October 7, 2009

Note: This certificate has been constructed from the Detailed Cost Accounting Ledgers of Golden Chalice Resources.

AREA	10N	GPS	NAD 83				
Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain	
100W	100S	419905	5331424	Clay	Wet	Mixed Forest, Hillside	
	75S			Sand	Moist	Birch/Cedar/Poplar Mix, Hillside	
	50S			Sand/Dirt	Damp	Cedar/Birch/Balsam Mix	
	25S			Sand	Dry	Cedar/Pine/Balsam/Mix	
	00N	419827	5331491	Sand	Moist	Cedar/Pine Mix	
	25N			Clay Brown	Dry	Birch/Cedar/Balsam/Pine Mix	
	50N			Sand/Clay	Moist	Birch/Cedar/Balsam Mix	
	75N			Sand	Moist	Birch/Cedar/Balsam Mix	
	00E	100N	419761	5331553	Sand	Moist	Birch/Cedar
		100S			Sand Red	Dry	Cedar/Birch Mix
75S		Sand/Clay Red			Wet	Birch/Balsam	
50S		Sand/Clay Red			Wet	Birch/Spruce	
25S		Clay Red	Wet	Cedar/Birch			
00N		Clay Red	Wet	Cedar/Birch			
25N		Clay Brown	Wet	Cedar/Birch			
50N		Clay Brown	Wet	Cedar			
75N		No Sample	Flooded	Too Wet			
100N		Clay Brown	Wet	Cedar/Birch			
100E	100S	419981	5331509	Sand Brown	Dry	Cedar/Birch/Balsam Mix, Hillside	
	75S			Sand Brown	Dry	Cedar/Birch/Balsam Mix	
	50S			Sand/Clay Brown	Moist	Cedar/Birch	
	25S			Clay Tan	Damp	Cedar/Birch/Poplar/Spruce Mix	
	00N	419912	5331572	Clay	Moist	Cedar/Birch	
	25N			Sand/Clay	Moist	Cedar/Birch/Balsam Mix	
	50N			Rocky Clay	Wet	Cedar/Birch Mix	
	75N			Sand/Clay	Moist	Cedar/Birch	
	100N	419833	5331629	Sand Brown	Damp	Cedar/Birch	

AREA	20					
Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
200E	150S	424775	5330622	Sand	Dry	Cedar/Birch/Pine Mix
	125S			Sand	Dry	Birch/Alders
	100S			Sand	Dry	Birch/Alders
	75S			Sand	Dry	Birch/Pine/Alders outcrop rock
	50S			Clay	Wet	Birch/Balsam/Pine

	25S			Sand	Dry	Birch/Alders outcrop rock
	00N	424708	5330756	Sand Orange	Dry	Birch/Poplar/Alders/Pine Mix
	25N			Clay/Sand Red	Moist	Birch/Poplar/Pine Mix outcrop rock
	50N			Sand/Clay/Humus	Moist	Birch/Balsam/Pine
	75N			Clay	Wet	Birch/Poplar/Alders Rock
	100N			Sand	Wet	Birch/Balsam/Alders
	125N			Sand	Moist	Birch/Poplar/Alders
	150N	424639	5330887	Sand	Moist	Cedar/Birch
100E	150S	424723	5330580	Sand	Dry	Cedar/Birch/Balsam
	125S			Sand	Dry	Birch/Balsam/Pine
	100S			Sand Orange	Dry	Birch/Pine/Alders
	75S			Sand	Dry	Birch/Pine/Alders
	50S			Sand	Wet	Birch/Cedar/Balsam Mix Rock Outcrop
	25S			Sand	Damp	Birch/Poplar/Pine Rock
	00N	424660	5330735	Sand	Dry	Birch/Pine/Alders
	25N			Sand	Dry	Birch/Poplar/Cedar/Pine/Rock
	50N			Clay	Moist	Birch/Balsam/Alders
	75N			Sand	Dry	Birch/Balsam/Alders
	100N			Sand	Dry	Birch/Balsam/Pine
	125N			Sand	Moist	Birch/Pine/Balsam
	150N	424595	5330870	Clay/Humus	Moist	Cedar/Birch
00E	150S	424680	5330580	Sand	Moist	Cedar/Birch/Alders
	125S			Sand	Damp	Cedar/Birch/Balsam
	100S			Sand	Moist	Cedar/Balsam/Birch
	75S			Sand	Moist	Cedar/Balsam/Birch
	50S			Sand	Damp	Birch/Pine/Balsam/Alders
	25S			Sand/Clay	Moist	Birch/Balsam/Pine
	0N	424613	5330713	Sand	Damp	Birch/Pine/Alders
	25N			Sand	Moist	Birch/Pine/Alders
	50N			Sand	Wet	Birch/Poplar/Pine/Alders
	75N			Sand	Wet	Cedar/Pine/Birch/Alders
	100N			Sand	Wet	Birch/Pine/Alders
	125N			Sand	Moist	Birch/Pine/Alders
00E	150N	424550	5330850	Sand/Clay	Moist	Birch/Cedar/Alders/Pine/Rock
100W	150S	424632	5330560	Sand/Orange	Dry	Cedar/Birch/Pine Mix
	125S			Sand	Moist	Cedar/Birch/Balsam
	100S			Sand	Dry	Cedar/Birch/Pine/Balsam

	75S			Sand	Wet	Birch/Balsam/Pine/Alders
	50S			Sand/Clay	Moist	Birch/Alder Bog/Rock
	25S			Rock/Sand	Wet	Birch/Alders/Rock Outcrop
	0N	424570	5330695	Clay	Wet	Birch/Pine/Alders
	25N			Clay	Wet	Cedar/Pine/Spruce
	50N			Sand	Wet	Birch/Alder Bog
	75N			Rocky/Clay	Wet	Cedar/Birch/Alder Bog
	100N			Sand	Wet	Pine/Birch/Alders
	125N			Black Clay/Humus	Moist	Birch/Pine/Alders/Rock
100W	150N	424506	5330830	Sand	Wet	Pine/Birch/Alders
200W	150S	424585	5330537	Black Clay/Humus	Wet	Cedar/Birch/Pine Mix
	125S			Black Clay/Humus	Wet	Cedar/Birch/Pine/Alders Mix/Rock
	100S			Sand/Clay	Wet	Birch/Pine/Alders
	75S			Sand	Moist	Birch/Pine/Alders
	50S			Sand	Moist	Birch/Alders/Pine
	25S			Sand	Moist	Birch/Pine Alders
	0N	424521	5330674	Sand/Orange	Dry	Cedar/Birch/Balsam/Pine/Alders/Rock Outcrop
	25N			Sand/Clay	Wet	Birch/Pine/Alders/Rock
	50N			Sand	Wet	Birch/Pine/Alders
	75N			Sand/Clay	Wet	Birch/Pine/Alders
	100N			Sand	Wet	Poplar/Birch
	125N			Sand/Clay/Rock	Moist	Birch/Poplar/Pine/Alders
200W	150N	424457	5330806	Sand/Clay	Wet	Birch/Pine/Poplar/Alders

AREA

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Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
100E	150S	423057	5331139	Sand/Clay	Moist	Spruce/Pine/Birch
	125S			Clay	Wet	Cedar Swamp
	100S			Clay Black	Moist	Cedar Swamp
	75S			Clay Black	Moist	Cedar Swamp/Alders
	50S			Clay	Wet	Cedar Swamp/Pine Mix
	25S			Clay Black	Wet	Cedar Swamp/Spruce Pine Mix
	00N	422960	5331258	Sand	Moist	Birch/Spruce/Pine Mix
	25N			Rocky Sand	Wet	Spruce/Pine Mix
	50N			Sand/Clay	Wet	Cedar Swamp/Spruce Pine Mix
	75N			Clay	Wet	Cedar/Spruce/Pine
	100N			Sand/Clay	Wet	Spruce/Pine/Alders
	125N			Clay	Wet	Cedar/Pine/Alders

200E	150N		5331372	Clay	Wet	Cedar Swamp
	150S	423092	5331175	Rocky Clay	Wet	Cedar Swamp
	125S			Rocky Clay	Wet	Cedar Swamp
	100S			Sand	Wet	Cedar
	75S			Sand	Moist	Cedar/Birch/Pine
	50S			Sand/Clay	Moist	Cedar/Birch/Pine
	25S			Rocky Clay	Wet	Cedar/Birch/Pine
	00N	423000	5331292	Clay	Wet	Cedar Swamp
	25N			Sandy Clay	Wet	Cedar/Pine
	50N			Rocky Clay	Wet	Cedar Swamp/Birch
	75N			Sand	Moist	Cedar Swamp/Pine
	100N			Clay Black	Wet	Cedar Swamp/Pine
	125N			Sandy Clay	Wet	Swampy Pine/Alders
	150N	422902	5331399	Sandy Clay	Wet	Cedar Swamp/Pine/Alders
00E	150S	423019	5331112	Humus	Moist	Cedar/Birch/Pine Mix
	125S			Clay Black/Humus	Damp	Cedar/Birch/Pine Mix
	100S			Sandy Clay	Damp	Cedar Swamp
	75S			Clay	Wet	Cedar Swamp
	50S			Clay	Wet	Cedar Swamp Pine/Alders
	25S			Sandy Clay	Wet	Cedar Swamp Pine/Alders Mix
	00N	422925	5331219	Sand	Moist	Cedar/Pine/Alders Mix
	25N			Sand/Clay	Damp	Pine/Spruce/Alders Mix
	50N			Sand	Moist	Spruce/Pine//Alders Mix
	75N			Clay	Wet	Cedar/Spruce/Pine/Alder Mix
	100N			Sand/Clay	Wet	Cedar/Pine/Alders Mix
	125N			Sand Orange	Moist	Cedar/Pine/Spruce Mix
	150N	422831	5331347	Sand	Wet	Cedar/Birch/Pine/Alders Mix
	100W	150S	422980	5331077	Sand Orange	Moist
125S				Sand	Damp	Spruce/Pine/Balsam
100S				Sand	Wet	Spruce/Pine/Balsam
75S				Clay	Wet	Cedar/Pine/Alders
50S				Sand	Wet	Birch/Cedar/Pine
25S				Sand/Clay	Moist	Cedar Swamp/Alders
0N		422884	5331196	Black Clay/Humus	Moist	Cedar Swamp/Alders
25N				Black Clay/Humus	Damp	Cedar/Spruce/Alders
50N				Black Clay/Humus	Moist	Cedar/Alders
75N				Sand/Clay	Wet	Cedar Swamp

	100N			Rocky Clay	Moist	Cedar/Pine/Alders Mix
	125N			Sand/Clay	Damp	Cedar/Pine/Alders
	150N	422796	5331304	Rocky Clay	Wet	Cedar/Birch/Alders
200W	150S	422949	5331052	Orange Sand	Dry	Birch/Pine/Spruce Mix
	125S			Sand	Damp	Spruce/Pine
	100S			Sand/Clay	Wet	Spruce/Pine/Alders
	75S			Sand	Moist	Pine/Alders/Tamarack
	50S			Sand/Clay	Moist	Pine/Alders/Tamarack
	25S			Black Clay/Humus	Damp	Cedar/Alders
	00N	422851	5331164	Clay	Damp	Cedar/Pine/Alders
	25N			Sand/Clay	Wet	Cedar/Balsam/Alders
	50N			Sand	Moist	Cedar/Balsam/Alders
	75N			Sand/Clay	Moist	Cedar/Spruce/Pine/Alders
	100N			Black Clay/Humus	Damp	Cedar Swamp/Alders
	125N			Black Clay/Humus	Damp	Cedar Swamp/Alders
	150N	422749	5331273	Black Clay/Humus	Damp	Cedar Swamp/Alders

AREA 3

Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
100E	100S	418364	5330413	Sand/Clay Mix	Wet	Birch/Poplar Mix
	75S			Sand/Gravel Red	Dry	Cedar/Poplar/Alders
	50S			Sand/Clay	Dry	Poplar/Spruce/Alders
	25S			Sand/Gravel	Dry	5m Off Road
	00N	418293	5330490	Sand/Gravel	Dry	Poplar/Alders
	25N			Sand/Gravel	Dry	Open Area - Sand - Boulders
	50N			Sand/Gravel Red	Dry	Slope of Esker - Birch/Spruce
	75N	418241	5330534	Sand/Gravel Red	Dry	Slope - Birch/Spruce/Cedar
00E	100S	418326	5330413	Clay - Brown	Wet	10m Off Road, Mixed Birch/Alders
	75S			Sand/Gravel	Dry	5m Off Road/Poplar/Pine
	50S			Sand/Gravel	Dry	Poplar/Alders
	25S			Fine Sand/Silt	Dry	Cedar/Birch/Alders
	00N	418260	5330375	Sand/Gravel	Dry	Poplar/Spruce
	25N			Sand/Boulders	Dry	Open Area - Sand - Boulders
	50N			Sand/Gravel	Dry	Open Area - Sand - Boulders
	75N			Sand/Gravel Red	Dry	Birch/Pine Mix - Slope of Esker
	100N			Sand/Gravel Red	Dry	Birch/Pine Mix
	125N			Sand Red	Dry	Birch/Spruce
	150N	418150	5330552	Sandy Loam	Dry	Birch/Poplar/Spruce

200E	100S	418403	5330450	Sand Tan	Dry	Birch/Poplar/Alders
	75S			Sand Red	Dry	Birch/Spruce
	50S			Sand Tan	Dry	Birch/Pine
	25S			Sandy Loam Red	Dry	Birch/Poplar
	00N	418324	5330527	Sand/Gravel	Dry	5m off road
	25N			Sand/Clay Mix	Dry	Slope of Esker - Birch/Cedar
	50N			Sand/Gravel Red	Dry	Slope
	50N			Sand/Gravel Red	Dry	Slope
	75N	418277	5330574	Sandy Loam Red	Dry	Slope Cedar
	200W	100S	418260	5330312	Sandy Loam Red	Dry
75S		Sand/Gravel Red			Dry	Birch/Spruce/Pine
50S				Clay	Wet	Birch/Pine - Old Creek Bed
25S				Clay/Sand Tan	Dry	Balsam/Birch/Alders
00N		418188	5330373	Sandy Loam Red	Dry	Birch/Alders
25N				Sandy Loam/Gravel Red	Dry	Birch/Alders
50N				Sandy Loam Red	Dry	Birch/Alders
75N				Sandy Loam Red	Dry	Birch/Spruce
100N				Sand/Gravel	Dry	5m south of Road Birch
125N				Sand/Gravel	Dry	Birch/Spruce/Cedar
150N	418080	5330478	Sand/Gravel Red	Dry	Slope Cedar/Birch	
100W	100S	418297	5330345	Sand/Clay Mix	Dry	Mixed Poplar/Birch/Spruce 15mS of Drill Holes
	75S			Sand/Clay Grey	Dry	Poplar/Spruce 10mN of Drill Hole
	50S			Sand/Clay Grey	Dry	Poplar/Spruce
	25S			Sand/Clay Red	Dry	Birch/Alders
	00N	418223	5330410	Sand/Clay Red	Dry	Birch/Alders
	25N			Sand/Gravel	Dry	Birch/Poplar
	50N			Sand/Gravel	Dry	Open Area - 5mS of Road
	75N			Sand/Gravel	Dry	Open Area - Bottom of Esker
	100N			Sand Red	Dry	Top of Esker - Mixed Bush
	125N			Snd/Gravel Red	Dry	Birch/Alders
150N	418122	5330514	Sandy Loam	Dry	Spruce/Birch Mix	

AREA

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Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
300E	125N	416740	5336270	sand	dry	jackpine, flat
	100N			sand	dry	jackpine, flat
	75N			sand	dry	jackpine, flat
	50N			sand	dry	jackpine, flat

	25N			sand	dry	jackpine, flat
	0N	416790	5336150	white sand	dry	jackpine, birtch, alders, flat
	25S			snad	dry	poplar, jackpine, mix, flat
	50S			sand	dry	poplar, balsam, alders, flat
	75S			clay	moist	poplar, balsam, spruce
	100S			clay	moist	poplar, balsam, spruce
	125S	416840	5336030	clay	moist	poplar, balsam, spruce
200E	125N	416700	5336250	sand	dry	spruce, jackpine, mix, flat
	100N			sand	dry	jackpine, spruce, mix, flat
	75N			sand	dry	jackpine, alders, flat
	50N			sand	dry	jackpine, flat
	25N			sand	dry	jackpine, flat
	0N	416740	5336130	sand	dry	jackpine, spruce, mix, flat
	25S			white sand	dry	jackpine, alders, mix, slope
	50S			orange sand	dry	jackpine, outcrop
	75S			sand	dry	jackpine, flat
	100S			sand	dry	jackpine, flat
	125S	416770	5336030	sand	dry	jackpine, outcrop, flat
100E	125N	416550	5336240	sand	dry	jackpine, hill
	100N			white sand	dry	jackpine, flat
	75N			orange sand	dry	jackpine, flat
	50N			orange sand	dry	jackpine, slope
	25N			sand	dry	jackpine, flat
	0N	416690	5336120	white sand	dry	jackpine, flat
	25S			orange sand	dry	jackpine, flat
	50S			sand	dry	spruce, jackpine, mix, flat
	75S			sandy clay	dry	spruce, tamarak, jackpine, mix, flat
	100S			brown sand	dry	tamarak, spruce, mix, flat
	125S	416730	5336000	sandy clay	dry	tamarak, spruce, mix, flat
0	125N	416600	5336220	orange sand	dry	jackpine, flat
	100N			orange sand	dry	jackpine, alders, mix, flat
	75N			orange sand	dry	jackpine, alders, mix, flat
	50N			grey sand	dry	jackpine, alders, mix, flat
	25N			orange sand	dry	jackpine, alders, mix, flat
	0N	416650	5336100	sitty sand	dry	jackpine, flat
	25S			sand	dry	jackpine, spruce, mix, flat
	50S			sand	dry	jackpine, spruce, flat

	75S			orange sand	dry	jackpine, alders, mix, flat
	100S			grey sand	dry	jackpine, spruce, mix, flat
	125S	416670	5335980	sandy clay	moist	jackpine, spruce, mix, flat
100W	125N	416550	5336200	sand	moist	jackpine, alders, mix, flat
	100N			sand	dry	jackpine, alders, mix, flat
	75N			sand	dry	jackpine, tamarak, flat
	50N			sand	dry	jackpine, spruce, alders, mix, flat
	25N			sitty sand	dry	jackpine, spruce, alders, mix, flat
	0N	416590	5336080	sand	dry	jackpine, poplar, alders, mix, flat
	25S			sand	dry	jackpine, alders, mix, flat
	50S			sandy clay	dry	jackpine, poplar, alders, mix, flat
	75S			sand	moist	jackpine, poplar, mix, flat
	100S			orange sand	dry	jackpine, alders, mix, flat
	125S	416640	5335970	grey sand	dry	jackpine, flat
200W	125N	416510	5336180	sand	dry	jackpine, slope of hill
	100N			orange sand	dry	jackpine, alders, mix, slope
	75N			sitty orange sand	dry	jackpine, alders, mix, flat
	50N			orange sand	dry	jackpine, flat
	25N			sand	dry	jackpine, flat
	0N	416540	5336060	sand	dry	jackpine, flat
	25S			sand	dry	jackpine, flat
	50S			sand	dry	jackpine, flat
	75S			sand	dry	jackpine, flat
	100S			sand	dry	jackpine, flat
	125S	416580	5335950	sand	dry	jackpine, flat

AREA 18E

Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
LINE 200E	125N	422080	5330480	Sand	dry	spruces, balsam, poplar, rolling
	100N			Sand	dry	balsam. Poplar
	75N			Sand	dry	balsam. Poplar
	50N			sand grey	dry	balsam. Poplar
	25N			sand grey	dry	poplar, birch
	0N	422150	5330380	sand, white	dry	poplar, birch
	25S			sand	dry	poplar, birch
	50S			sand	dry	birch, spruce mix
	75S			sand	dry	birch, spruce mix
	100S			sandy clay	moist	birch, balsam spruce

	125S	422225	5330280	sandy clay	moist	birch, balsam spruce
LINE 100E	125S	422190	5330250	sand	dry	birch, spruce, mix, rolling hills
	100S			sand	dry	poplar, spruce mix
	75S			sand	dry	birch, poplar mix
	50S			sand	dry	birch, poplar mix
	25S			sand	dry	birch, poplar mix
	0N			sand	dry	balsam, birch mix
	25N			sand	dry	balsam, birch mix
	50N			sand	dry	balsam, birch mix
	75N			sand	dry	birch, poplar mix
	100N			sand	dry	birch, poplar mix
LINE 0	125N	422050	5330460	sand	dry	birch, poplar mix
	125N	422010	5330460	humus	wet	cedar, tamarak, spruce
	100N			humus	wet	cedar, tamarak, spruce
	75N			sand	moist	balsam, birch mix
	50N			sand, humus mix	dry	balsam, birch mix
	25N			sand	dry	balsam, birch mix
	0N	422080	5330330	sand, humus mix	dry	balsam, birch mix
	25S			sand	dry	balsam, birch mix
	50S			sand	dry	balsam, birch mix
	75S			sand	dry	balsam, birch mix
	100S			sand	wet	poplar, spruce balsam
100W	125S	422140	5330250	sand	wet	poplar, spruce balsam
	125S	421970	5330400	sandy clay	moist	birch, poplar mix
	100S			sand	dry	balsam, birch mix
	75S			sand	dry	birch, balsam spruce
	50S			sand	dry	birch, balsam spruce
	25S			sand	dry	balsam, birch mix
	0N			sand	dry	birch, balsam spruce
	25N			sand	moist	spruce, birch mix
	50N			sand	moist	spruce, birch mix
	75N			sand	moist	spruce, birch mix
	100N			humus	wet	cedar, tamarak, spruce
200W	125N	422100	5330200	humus	wet	cedar, tamarak, spruce
	125N	421925	5330575	humus	wet	cedar, tamarak, spruce
	100N			humus	wet	cedar, tamarak, spruce
	75N			humus	wet	cedar, tamarak, spruce

50N			humus	moist	tamarak, spruce mix
25N			sand	moist	birch, balsam spruce
0N	422000	5330275	sand	moist	birch, balsam spruce
25S			sand, pebbly	dry	birch, balsam spruce
50S			sand	dry	birch, balsam spruce
75S			sand	dry	birch, balsam spruce
100S			grey clay	moist	poplar, spruce birch mix
125S	422060	5330150	grey clay	moist	poplar, spruce birch mix

AREA 25

Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
Line 0	150N	419720	5336080	sand	moist	spruce, poplar, tamarak
	125N			clay	wet	cedar, spruce, tamarak
	100N			clay	wet	cedar, alders, spruce
	75N			clay	wet	cedar, alders, spruce
	50N			sandy clay	moist	cedar, alders, spruce
	25N			sandy clay	moist	spruce, cedar, outcrop
	0N	419785	5335910	humus	wet	cedar, swamp
	25S			humus	wet	cedar, swamp
	50S			humus	wet	cedar, swamp, birtch
	75S			humus	wet	cedar, swamp
	100S			humus	wet	cedar, swamp
	125S			humus	wet	cedar, swamp
	150S	419830	5335780	humus	wet	cedar, swamp
100W	150N	419620	5336030	humus	wet	cedar, swamp
	125N			humus	wet	cedar, swamp
	100N			clay	wet	cedar, swamp, alders, balsam
	75N			clay humus	wet	cedar, swamp, alders
	50N			clay	wet	cedar, swamp, alders
	25N			clay	wet	cedar, swamp, birtch, alders
	0N	419700	5335875	clay	wet	cedar, spruce, birtch
	25S			humus	moist	birtch, balsam, spruce, outcrop, hillside
	50S			orange sand	dry	balsam, spruce, alders
	75S			orange sand	dry	birtch, balsam, poplar, outcrop
	100S			orange sand	dry	birtch, balsam, spruce, hillside
	125S			sand	dry	alders, birtch, spruce
	150S	419750	5335750	orange sand	dry	alders, birtch, spruce
200W	150N	419550	5336000	humus	damp	cedar swamp

			humus	wet	cedar swamp
			humus	wet	cedar swamp
			humus	wet	cedar swamp,balsam
			sandy,clay	damp	cedar swamp,balsam
			sandy,clay	dry	birch,balsam,spruce
	419610	5335840	clay,humus	moist	birch,balsam,spruce
			brown sand	dry	birch,balsam,spruce
			clay,humus	moist	balsam,poplar
			humus	moist	birch,balsam,spruce
			clay mix	moist	birch,balsam,alders
			clay,sand	dry	birch,balsam
	419650	5335700	brown sand	dry	birch,balsam
300W	419450	5335950	humus	wet	cedar, swamp
			humus	wet	cedar, swamp
			humus	wet	cedar, swamp, spruce
			sand	moist	spruce, alders, side of hill
			sandy clay	dry	birtch, balsam, spruce, side of hill
			orange sand	dry	birtch, balsam, spruce, side of hill
	419520	5335800	orange sand	dry	birtch, balsam, spruce, side of hill
			orange sand	dry	balsam, birtch, poplar, side of hill
			orange sand	dry	balsam, birtch, poplar, side of hill
			sand	dry	birtch, balsam, spruce, side of hill
			sandy clay	moist	poplar, spruce, alders, side of hill
			sandy clay	moist	spruce, alders, poplar, outcrop
	419840	5335680	sandy clay	moist	birtch, balsam, outcrop, side of hill
400W	419350	5335900	sandy clay	dry	spruce, cedar, alders, mix
			sand	dry	birtch, spruce, balsam, mix
			sand	dry	birtch, balsam, mix
			sand	dry	birtch, balsam, mix
			orange sand	dry	birtch, balsam, mix
			sand	dry	birtch, balsam, alders, mix, slope
	419420	5335770	sand w/ rocks	dry	birtch, balsam, spruce, mix, slope
			sand w/ rocks	dry	birtch, spruce, balsam, mix, slope
			black earth	moist	spruce, poplar, birtch, mix
			sandy clay	moist	birtch, polar, balsam, mix
			humus	moist	balsam, alders, mix
			sandy clay	moist	balsam, spruce, mix

AREA	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
	150S	419465	5335615	sandy clay	moist	birtch, balsam, spruce
26						
Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
Line 0	150N	420550	5336150	sand	dry	poplar spruce
	125N			sand	dry	poplar spruce
	100N			sand	dry	poplar,black spruce birch
	75N			rocky sand	dry	poplar,black spruce birch
	50N			sand	dry	poplar,black spruce birch
	25N			brown silt	dry	poplar,black spruce birch
	0N	420580	5336000	rocky sand	wet	cedar swamp
	25S			sand	dry	birch, black spruce
	50S			sand	dry	poplar,black spruce birch
	75S			sand	dry	poplar,black spruce birch
	100S			sand	dry	poplar,black spruce birch
	125S			sand	dry	poplar,black spruce birch
100W	150S	420620	5335850	sand	dry	black spruce,birch
	150N	420430	5336110	sandy, clay	damp	cedar, swamp
	125N			sand	wet	cedar, poplar, mix
	100N			sand	damp	cedar, birtch, poplar, mix
	75N			humus	wet	cedar, swamp, birtch, mix
	50N			sand	dry	spruce, poplar, cedar, mox
	25N			sand	damp	spruce, poplar, mix
	0N	420480	5335970	sand	damp	poplar, spruce, alders, mix
	25S			sand	moist	blackspruce, birtch
	50S			sand	moist	tamarak, birtch, mix
	75S			sand	moist	tamarak, blackspruce
	100S			sand	moist	tamarak, spruce
	125S			sandy, clay	moist	poplar, tamarak, spruce
	150S	420505	5335810	sandy, clay	moist	blackspruce, birtch
200W	150N	420340	5336090	humus	wet	cedar, tamarak, mix
	125N			humus	wet	cedar, tamarak
	100N			sand	moist	spruce, birtch, cedar
	75N			sand	wet	cedar, tamarak, blackspruce
	50N			sandy clay	moist	birtch, tamarak, spruce
	25N			humus	moist	tamarak, spruce, alders
	0N	420390	5335940	clay	moist	tamarak, spruce, alders
	25S			sand	wet	tamarak, spruce, alders

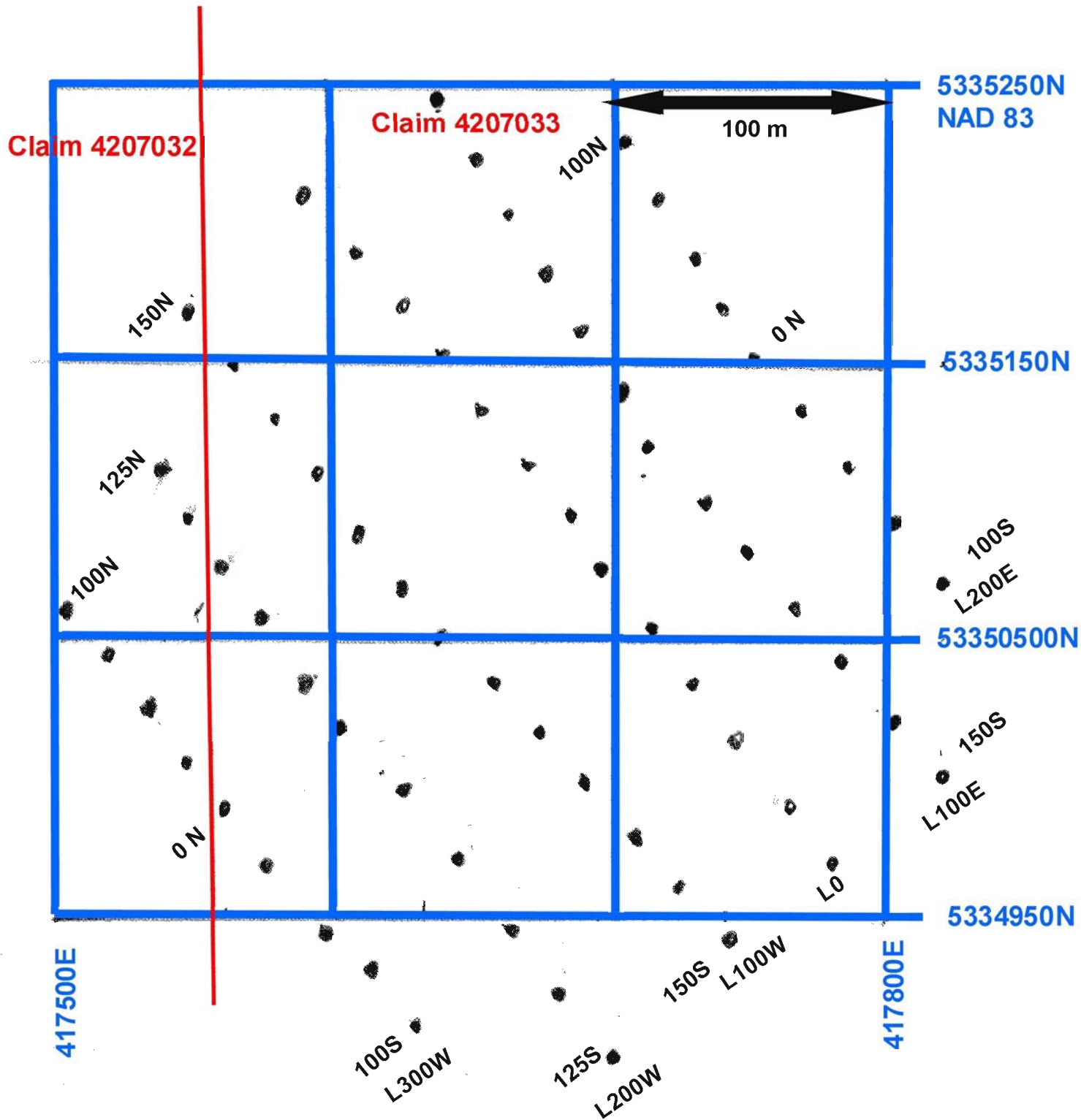
	50S			sand	moist	spruce, tamarak, mix
	75S			sand	dry	balsam, spruce, birtch, mix
	100S			sand	dry	poplar, spruce, mix
	125S			sand	dry	spruce, birtch, mix
300W	150S	420420	5335790	sand	dry	spruce, birtch, mix
	150N	420260	5336060	sand	wet	spruce, cedar, mix
	125N			sand	moist	cedar, tamarak, alders, mix
	100N			sand	moist	spruce, tamarak, alders, mix
	75N			humus clay	wet	spruce, tamarak, mix
	50N			sand	moist	balsam, alders, mix
	25N			sand	moist	jackpine, spruce, mix
	0N	420300	5335900	sand	moist	jackpine, spruce
	25S			humus	moist	jackpine, spruce
	50S			sand	moist	spruce, tamarak
	75S			sand	dry	jackpine, spruce
	100S			sand	dry	jackpine, birtch
	125S			dark sand	dry	jackpine, spruce
400W	150S	420320	5335760	sand	dry	jackpine, spruce
	150N	420180	5336000	humus	moist	tamarak, spruce, mix
	125N			humus	moist	alders, jackpine, spruce
	100N			sand	dry	spruce, poplar, jackpine
	75N			sand	dry	spruce, tamarak
	50N			sand	moist	spruce, birtch
	25N			sand	moist	birtch, balsam, spruce
	0N	420200	5335880	sand	dry	birtch, spruce, balsam, double
	25S			sand	dry	birtch, spruce, mix
	50S			sand	dry	birtch, spruce, mix
	75S			sand	dry	balsam, alders, birtch
	100S			sand	dry	poplar, birtch, balsam
	125S			sand	dry	poplar, birtch, balsam
	150S	420240	5335720	sand	dry	spruce, birtch

AREA 37

Line	Station	Easting	Northing	Sample Type	Condition	Sample Terrain
200E	100N	417700	5335240	orange sand	dry	poplar, birtch, balsam, flat
	75N			orange sand	dry	poplar, birtch, balsam
	50N			orange sand	dry	poplar, birtch, balsam, slope
	25N			orange sand	dry	poplar, birtch, balsam, slope

	0N	417750	5335150	grey, orange sand	dry	birtch, poplar, alders, flat
	25S			orange sand	dry	poplar, birtch, jackpine, flat
	50S			orange sand	dry	poplar, alders, jackpine
	75S			orange sand	dry	poplar, alders, jackpine
	100S	417820	5335070	orange sand	dry	poplar, alders, jackpine
100E	150S	417820	5335000	sand	dry	cedar, birtch, blackspruce, top of hill
	125S			sandy clay	dry	birtch, balsam, poplar, flat
	100S			sandy clay	dry	birtch, balsam, poplar, flat
	75S			clay	moist	birtch, balsam, poplar, flat
	50S			sandy clay	dry	birtch, balsam, poplar, flat
	25S			sand	dry	birtch, balsam, poplar, flat
	0S	417710	5335120	sandy clay	dry	birtch, balsam, poplar, flat
	25N			sand	sand	birtch, balsam, poplar, flat
	50N			clay	moist	birtch, balsam, poplar, flat
	75N			clay	moist	birtch, balsam, poplar, flat
	100N			sand	dry	birtch, balsam, poplar, flat
	125N			sand	dry	birtch, balsam, poplar, flat
LINE 0	150N	417640	5335250	sand	dry	birtch, balsam, poplar, flat
	150N	417590	5335210	sand	dry	poplar, birtch, alders, falt
	125N			sand	dry	poplar, birtch, alders, falt
	100N			sand	dry	balsam, poplar, birtch, flat
	75N			clay	dry	birtch, spruce, cedar, flat
	50N			sand	dry	birtch, balsam, spruce, flat
	25N			clay	dry	poplar, birtch, alders, falt
	0N	417690	5335090	clay	dry	poplar, spruce, balsam, flat
	25S			clay	dry	birtch, poplar, alders, flat
	50S			clay	dry	poplar, birtch, balsam, flat
	75S			dark sand	dry	poplar, birtch, balsam, side of hill
	100S			sand	dry	blasam, poplar, birtch, top of hill
	125S			sand	dry	birtch, poplar, blackspruce, slope
	150S	417780	5334970	clay	moist	cedar, swamp, flat
100W	150N	417550	5335170	grey, orange sand	dry	birtch, balsam, poplar, flat
	125N			sand	dry	birtch, balsam, poplar, flat
	100N			grey, orange sand	dry	birtch, balsam, poplar, flat
	75N			sandy clay	dry	birtch, balsam, poplar, flat
	50N			sand	dry	birtch, balsam, poplar, flat
	25N			clay	dry	birtch, balsam, poplar, flat

	0N	417640	5335050	clay	dry	birtch, balsam, poplar, flat
	25S			sand	dry	birtch, balsam, poplar, flat
	50S			sand	dry	birtch, balsam, poplar, flat
	75S			clay	dry	cedar, balsam, poplar, flat
	100S			humus clay	dry	cedar, balsam, alders, flat
	125S			humus clay	moist	cedar, spruce, birtch, flat
200W	150S	417740	5334940	sand	dry	cedar, birtch, alders, slope
	125S	417695	5334900	clay	dry	cedar, spruce, alders, flat
	100S			sand	dry	poplar, cedar, birtch, flat
	75S			sand	dry	birtch, poplar, balsam, flat
	50S			sand	dry	birtch, poplar, cedar, flat
	25S			sand	dry	poplar, birtch, alders, flat
	0S	417600	5335020	sand	dry	birtch, poplar, balsam, flat
	25N			grey orange sand	dry	birtch, poplar, balsam, flat
	50N			sand	dry	birtch, poplar, balsam, flat
	75N			sand	dry	birtch, poplar, balsam, flat
	100N			sand	dry	birtch, poplar, balsam, flat
300W	125N	417540	5335110	sand	dry	birtch, poplar, balsam, flat
	100N	417500	5335060	sand	dry	birtch, poplar, balsam, flat
	75N			sand	dry	birtch, poplar, balsam, flat
	50N			sand	dry	poplar, birtch, alders, flat
	25N			sand	dry	poplar, birtch, flat
	0N	417560	5334990	orange sand	dry	poplar, balsam, alders, flat
	25S			sand	dry	birtch, balsam, alders, flat
	50S			sand	dry	poplar, birtch, balsam, flat
	75S			sand	dry	poplar, birtch, balsam, flat
	100S			sand	dry	poplar, birtch, balsam, flat

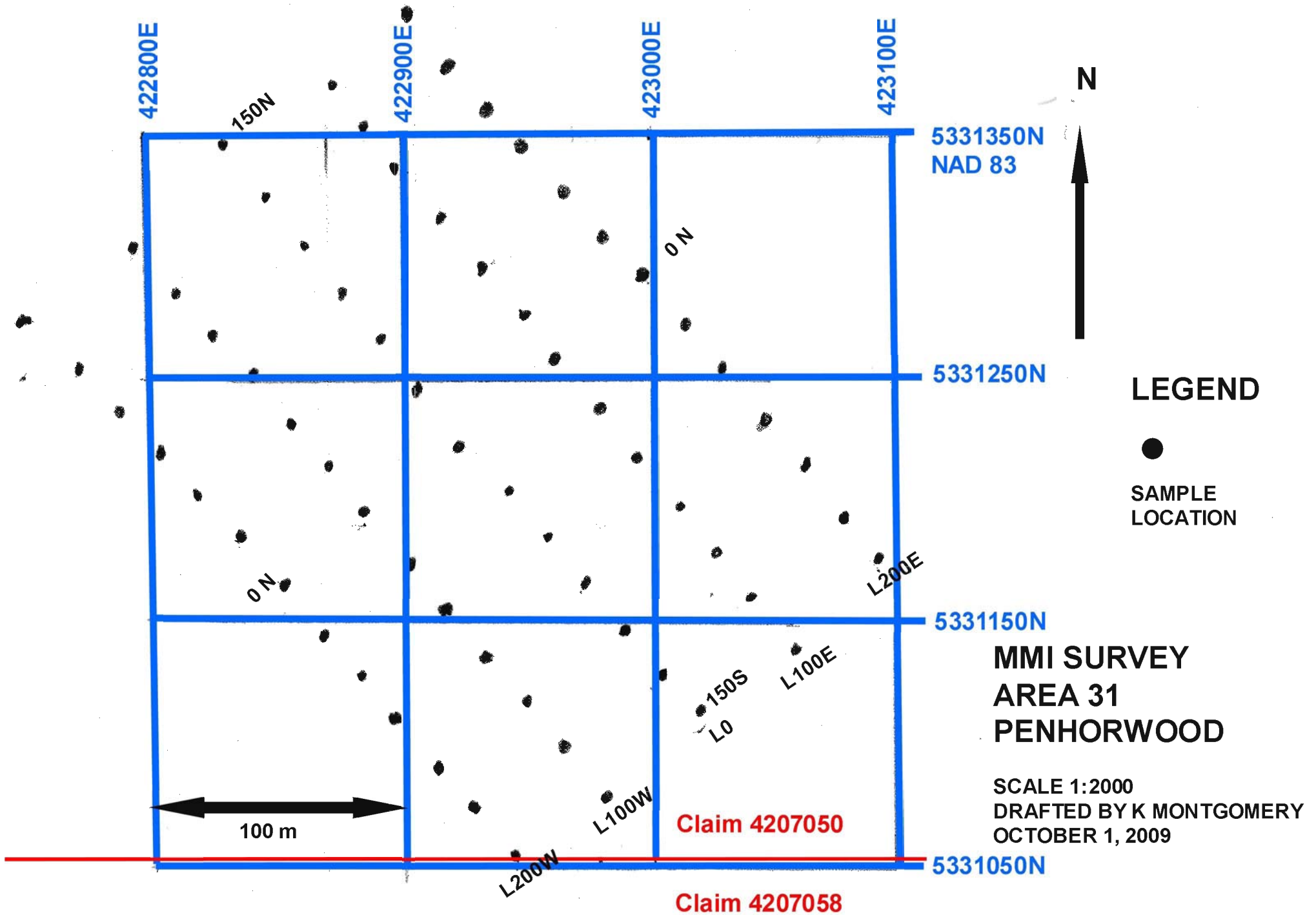


LEGEND

-
- SAMPLE LOCATION

**MMI SURVEY
AREA 37
PENHORWOOD**

SCALE 1:2000
DRAFTED BY K MONTGOMERY
OCTOBER 1, 2009



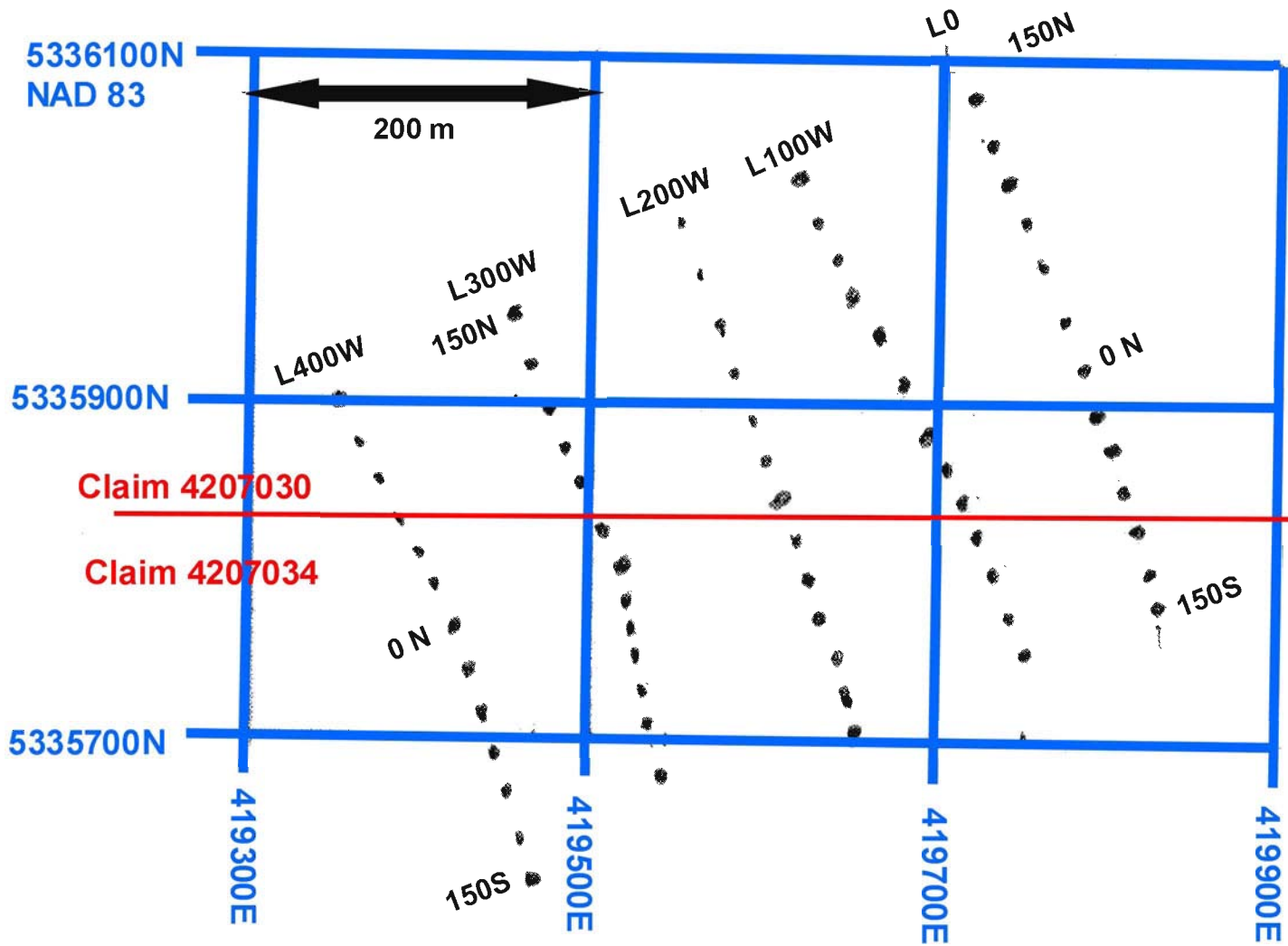


LEGEND

- SAMPLE LOCATION

**MMI SURVEY
AREA 26
PENHORWOOD**

SCALE 1:4000
DRAFTED BY K MONTGOMERY
OCTOBER 1, 2009

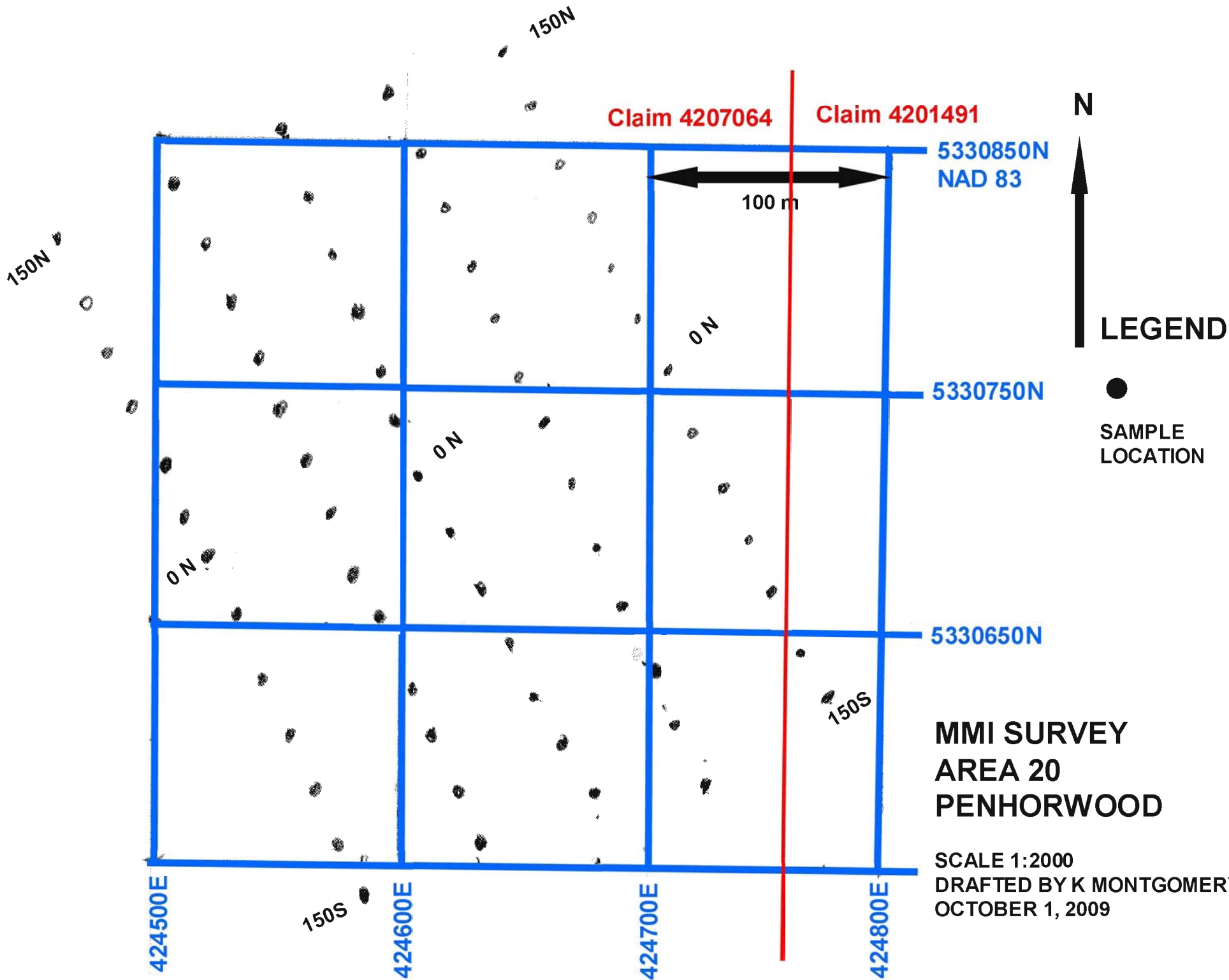


LEGEND

●
SAMPLE LOCATION

**MMI SURVEY
AREA 25
PENHORWOOD**

SCALE 1:4000
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OCTOBER 1, 2009



Claim 4207064

Claim 4201491

5330850N
NAD 83

100 m

N



LEGEND



SAMPLE
LOCATION

5330750N

5330650N

MMI SURVEY
AREA 20
PENHORWOOD

SCALE 1:2000
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OCTOBER 1, 2009

424500E

424600E

424700E

424800E

150S

150S

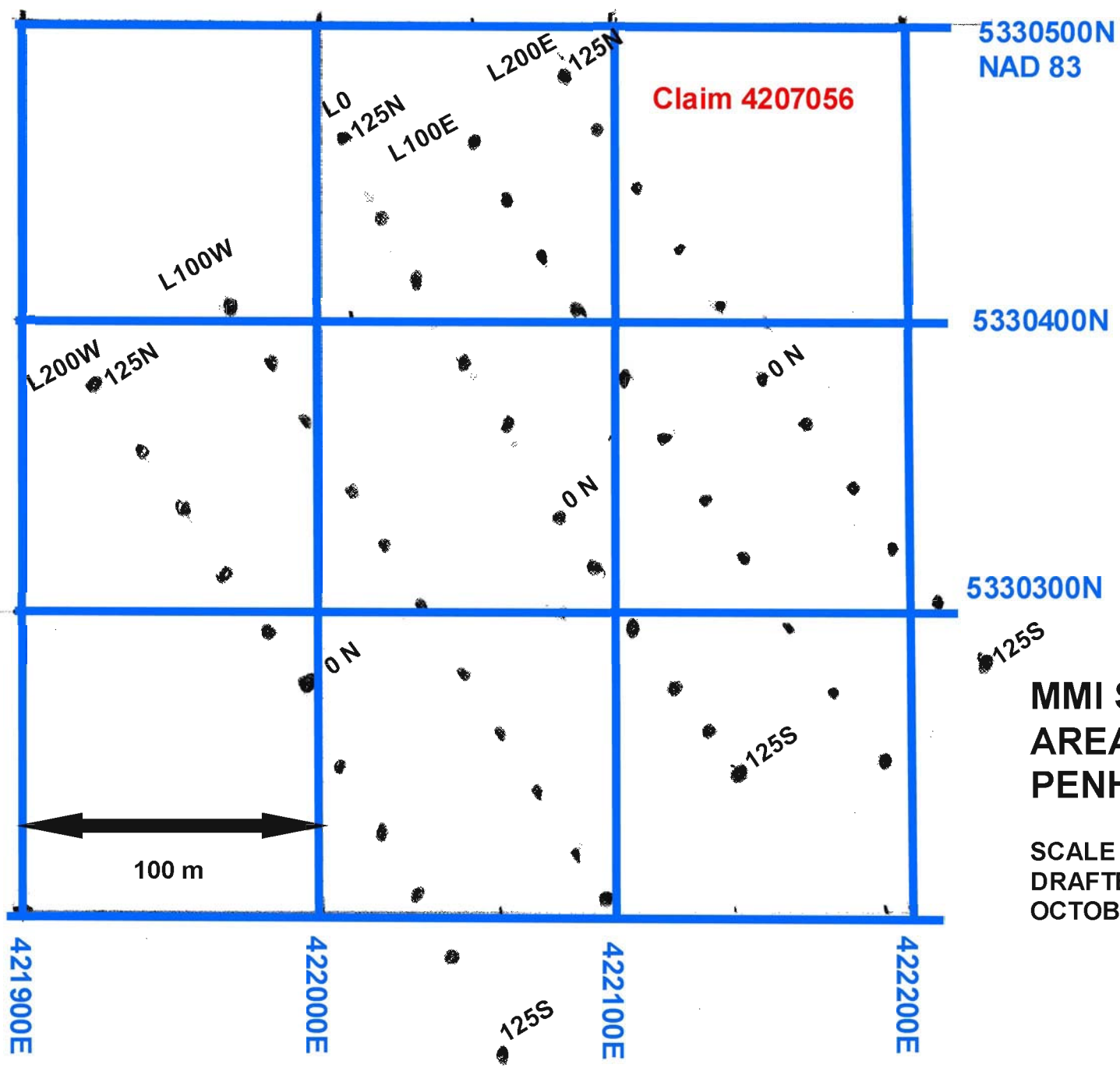
150N

150N

0 N

0 N

0 N



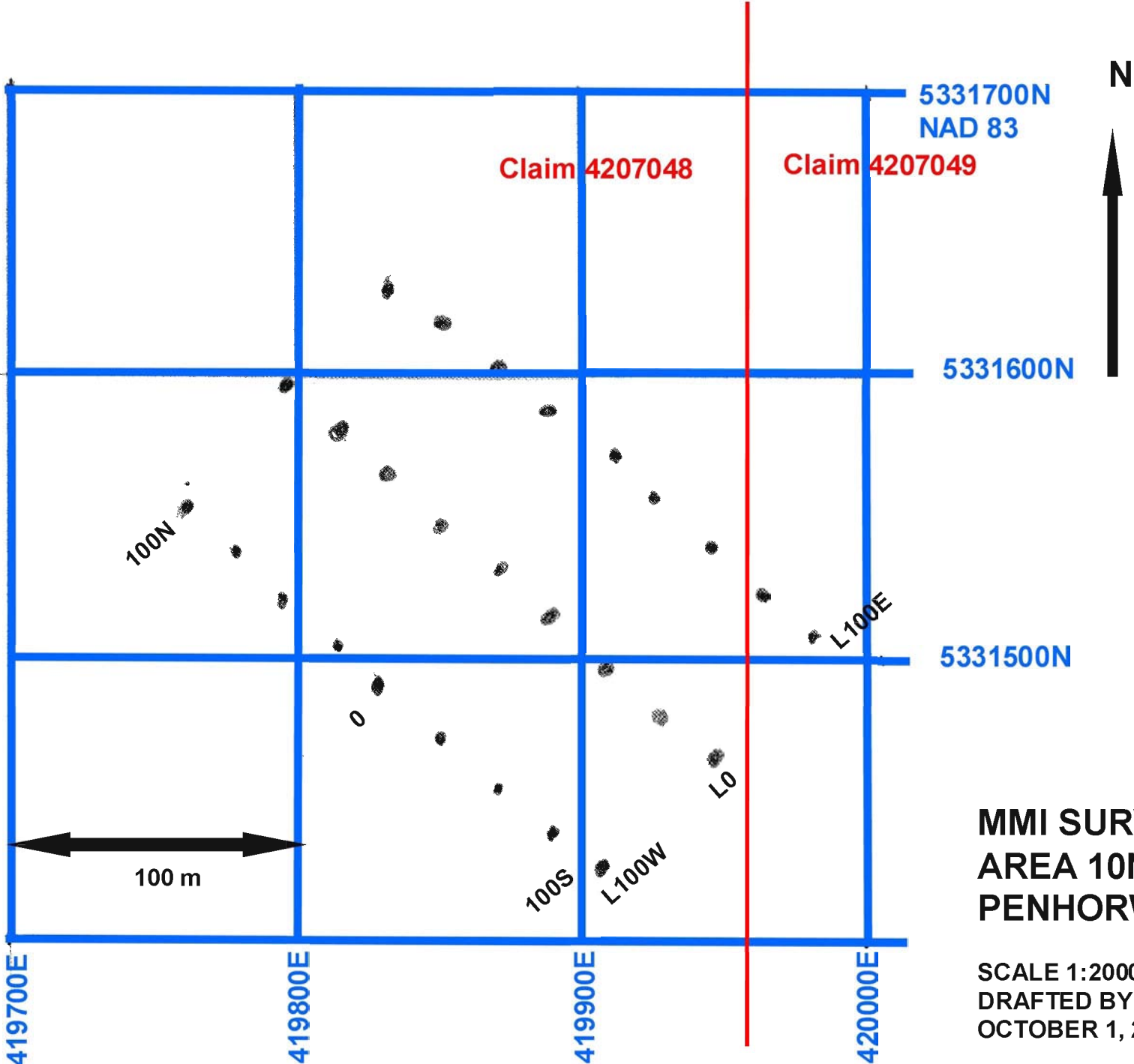
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LEGEND

SAMPLE LOCATION

**MMI SURVEY
AREA 18E
PENHORWOOD**

SCALE 1:2000
DRAFTED BY K MONTGOMERY
OCTOBER 1, 2009



LEGEND

- SAMPLE LOCATION

**MMI SURVEY
AREA 10N
PENHORWOOD**

SCALE 1:2000
DRAFTED BY K MONTGOMERY
OCTOBER 1, 2009

5336300N
NAD 83

Claim 4207914

100 m

5336200N

5336100N

5330200N

416500E

416600E

416700E

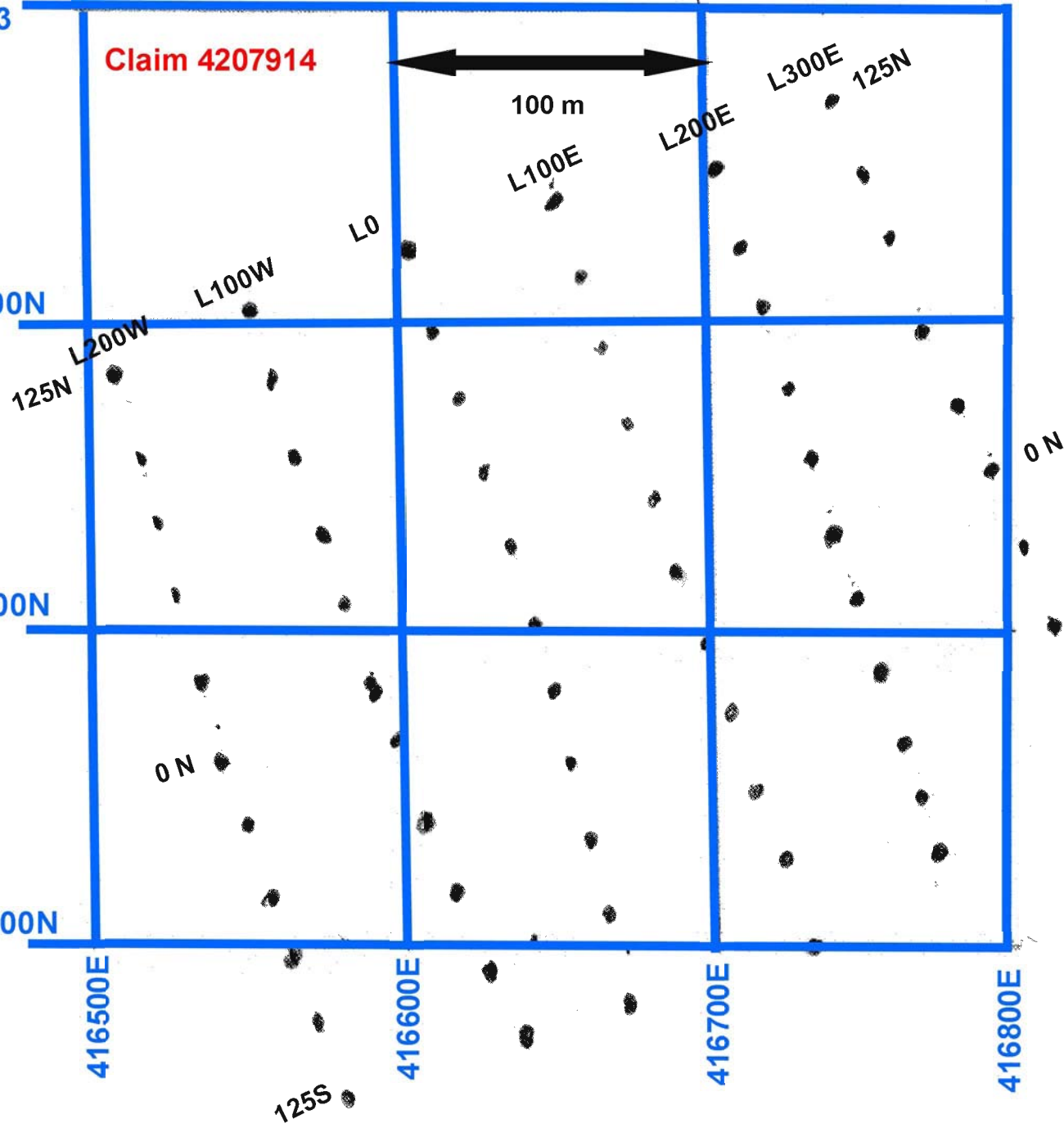
416800E

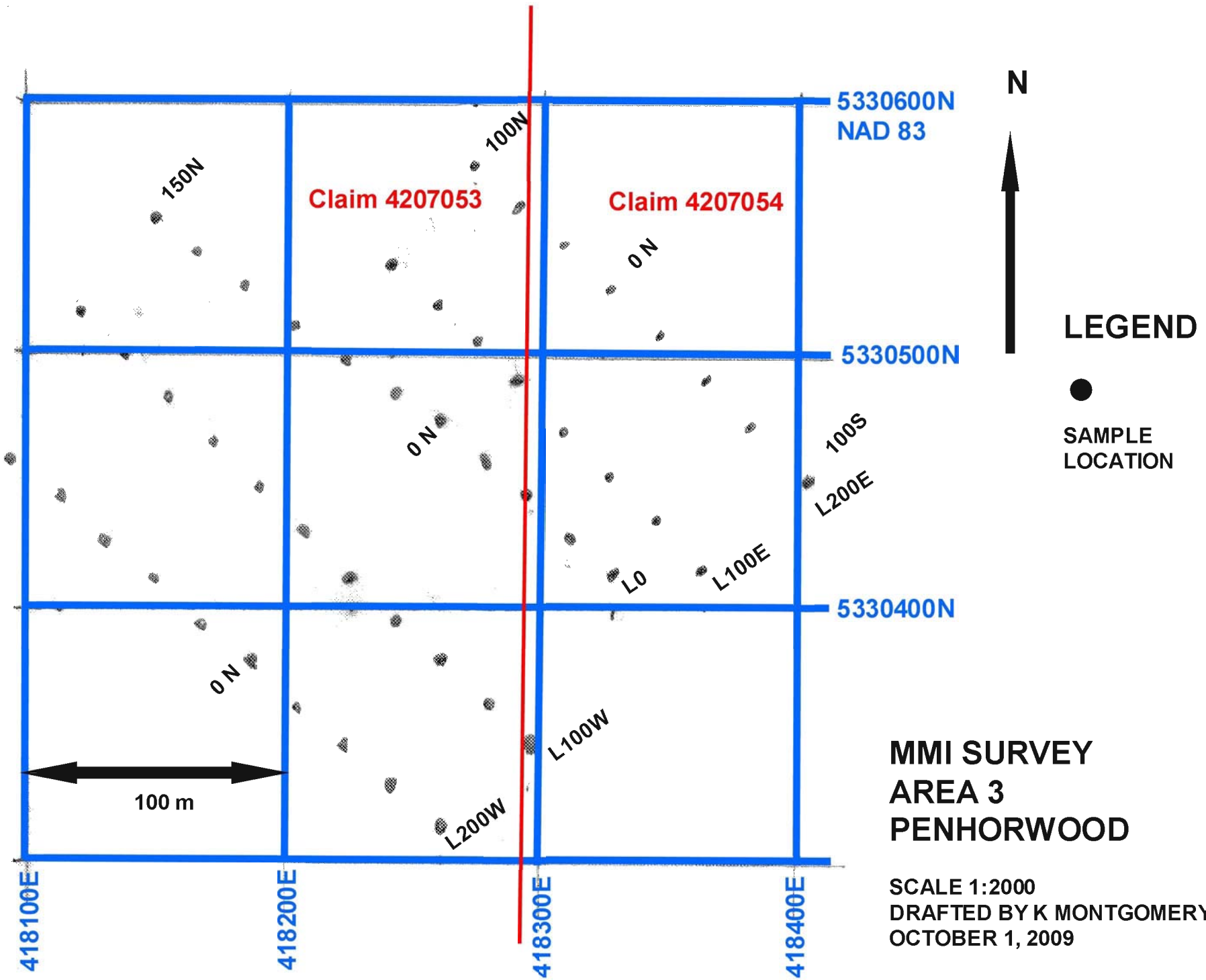
MMI SURVEY AREA 7 PENHORWOOD

SCALE 1:2000
DRAFTED BY K MONTGOMERY
OCTOBER 1, 2009

LEGEND

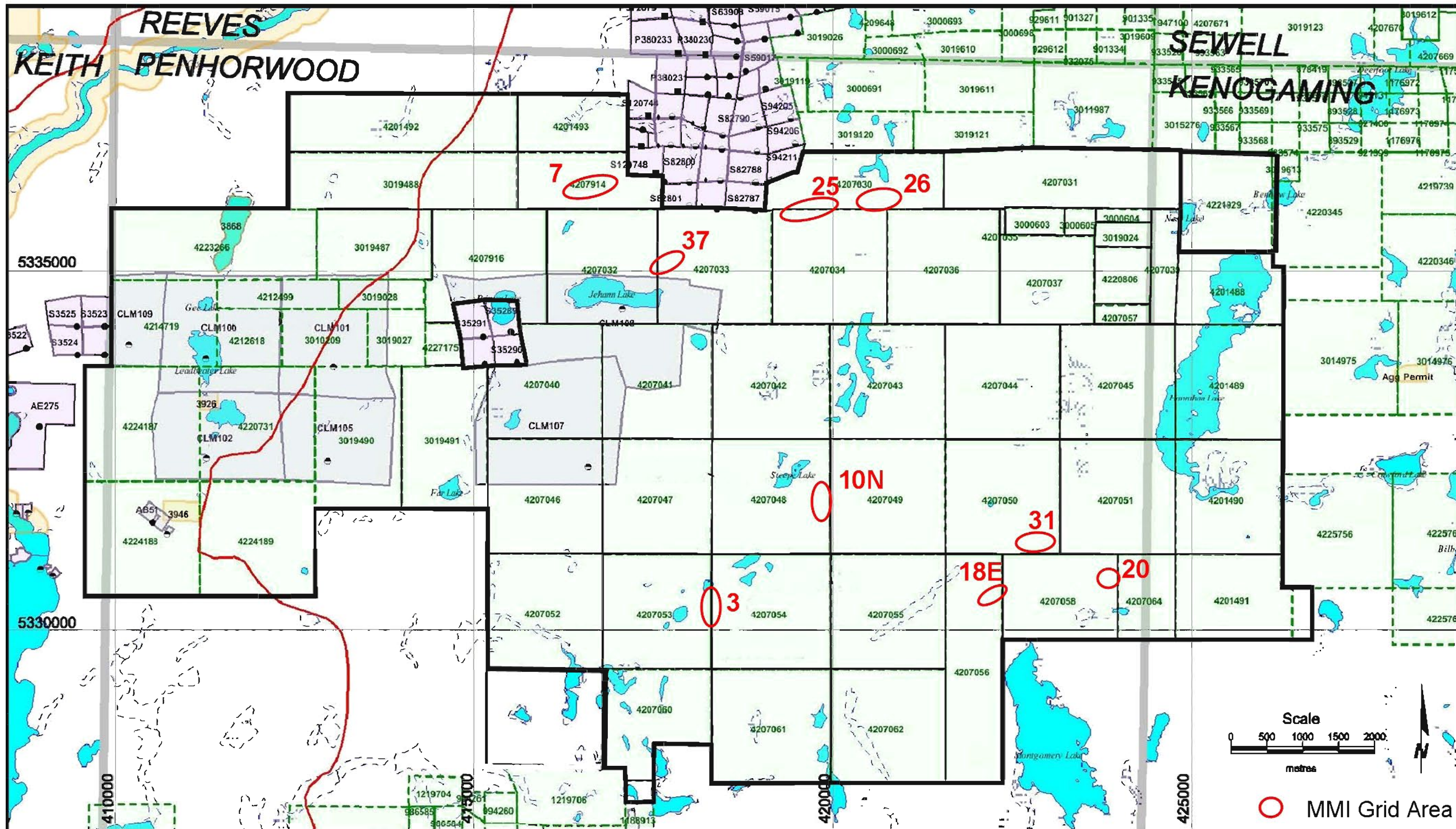
●
SAMPLE
LOCATION





**MMI SURVEY
AREA 3
PENHORWOOD**

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OCTOBER 1, 2009



GOLDEN CHALICE RESOURCES

Timmins West Project
2007 MMI Soil Sampling Grids Map