

**Results of A Mobile Metal Ions (MMI-M) Soil Geochemical Survey On The Huffman Property
of Namex Explorations Inc.: Interpretations and Recommendations**

Prepared For:

Namex Explorations Inc.
4333 Ste. Catherine Street West
Suite 610, Montreal, Quebec, H3Z 1P9
Tel: 514-935-2445
FAX:514-935-8161
E-mail: info@namex-explorations.com

Prepared By:

Mount Morgan Resources Ltd.,
50 Dobals Road North,
P.O. Box 629
Lac du Bonnet, Manitoba, Canada
R0E 1A0
Tel./FAX: 204-284-6869
Cell: 204-998-0271
E-mail: mfedikow@shaw.ca

EXECUTIVE SUMMARY

A Mobile Metal Ions (MMI-M) survey based on the collection of 468 grid-controlled soil samples in 2006 and 2007 at the Huffman property in the Swayze greenstone belt of east-central Ontario has delineated low- to high-contrast precious and base metal anomalies in the 2006 and 2007 survey area. There are four distinctive anomalous areas defined by these surveys. These include the historic and known mineralized (trenched) area characterized by very high Au responses and lesser but significant anomalies for Ag, As, Bi, Cd, Zn, Co, Mo, Pb and Zn; the Southeast Extension Au anomaly so named as it extends along strike from the known mineralized zone and associated MMI-M anomalies with significantly elevated Au, Cu, Mo, Pb and Zn; The Western Extension representing the westerly extension of the known Au anomaly at the historic Huffman showing with elevated signatures for Au, Ag, As, Cu, Bi and Mo; and the Northern Edge anomaly developed at the northern limits of sampling in the 2007 survey and characterized by elevated Au, Cu, Mo and Zn.

The follow-up in these areas should be based on sampling and analytical protocols established during the 2006 and 2007 surveys. The follow-up exploration at the Northern Edge anomaly and the Southeastern Extension anomaly should be based on sampling transects with a 50-m separation and 25 m sample spacing.

A review of the quality control data from this survey indicates the analyses are both accurate and precise resulting from a methodical and consistent collection of soil samples and a well-conceived program of quality assurance and quality control sampling procedures.

PREAMBLE

The exploitation of mineral commodities in the near-surface geological environment has become increasingly difficult due to the exhaustion of mineralization exposed at surface and the mantling of prospective bedrock by residual soil or glacially transported till and its derivatives. Thick residual soils and glaciofluvial and glaciolacustrine sediments topped by organic deposits make mineral exploration in these terrains challenging. For this reason a plethora of innovative exploration geochemical selective and partial digestions, coupled with state-of-the-art instrumentation capable of measuring concentrations in the parts per billion (ppb) and sub-parts per billion range, have been developed. These techniques offer the explorationist tools to "see through" overburden and derive useful mineral exploration data for integration with geology and geophysics and ultimately for drill-testing multivariate anomalies.

The proprietary Mobile Metal Ions Process (MMI) soil geochemical technique has been utilized on a wide range of commodity types from base and precious metals to diamonds worldwide. The Process is based upon proprietary partial extraction techniques, specific combinations of ligands to keep metals in solution, and relies on strict adherence to sampling protocols usually established during an orientation program. Geochemical data resulting from MMI analysis of improperly collected soils cannot be ameliorated with univariate and/or multivariate statistical and graphical solutions.

The recognition of anomalies in geochemical data has progressed from simple visual inspection in small data sets to multivariate, parametric and non-parametric or robust statistical methods for large datasets usually extracted from regional geochemical surveys. Derived parameters from these statistical exercises, such as factor scores or discriminant functions, have been successfully utilized in reducing a large number of potentially useful variables to a select few variables that identify and localize anomalous geochemical signatures. These statistical approaches have been required to manipulate accurate and precise, low-cost, multi-element geochemical data.

The MMI technology uses a different approach to exploration geochemistry by analyzing soils, subsequent to a proprietary partial extraction, for a select few commodity elements upon which to base property evaluations. Having stated this, the demand from explorationists for a more comprehensive package including pathfinder element suites resulted in the development of “MMI-M”. The MMI-M multi-element suite was utilized to analyze inorganic soils from the Huffman (“HM”) property and provides analyses for 45 elements. These are a multi-element suite that report ppb and sub-ppb analyses for base and precious metals, pathfinder elements for these commodity elements, as well as elements useful for mapping bedrock geology obscured by overburden and its derivatives. The large number of elements in the database provides an opportunity to assess an area of interest for a wide range of metallic mineral deposits with only minor drawbacks in terms of lower limits of determination. The specific details of this assessment are described below.

TERMS OF REFERENCE

This report assesses the geochemical responses in soil samples collected from the HM property in 2006 and 2007 with subsequent analysis by MMI-M. The design of the sampling program was the responsibility of Mr. Oliver Maki P. Geo. of Namex Explorations Inc. and Q.P. for the project. The collection of soil samples was undertaken by Namex geological technicians Mr. Trevor Pacaud and Ms. Sabrina Rabin subsequent to training provided by Mount Morgan Resources Ltd.

The purpose of the MMI survey is to determine whether MMI Technology can be used to elucidate Au- and base metal mineralization-related soil geochemical responses in the vicinity of known historic mineralization and to assess the remainder of the property for additional Au and base metal-related geochemical responses. A total of 468 samples were analyzed at SGS Mineral Services (Toronto, Ontario).

MOBILE METAL ION SAMPLE COLLECTION AND ANALYSIS

Sampling and analytical protocols for the HM survey are based upon information available on the Mobile Metal Ions website. A review of MMI sampling protocols can be found there (www.mmigeochem.com). In MMI surveys there are some general approaches that are used to guide sample collection including preferred depths of sampling and these are described briefly here.

Soil samples, each weighing approximately 250 grams, are normally collected at 25-m stations in precious metal exploration and up to 50-m in the case of base metals. Sample spacing should be established on the basis of a “best-estimate” of the likely target being sought with estimates from historical data or exploration results from nearby/adjacent programs. Sample locations are usually documented according to grid coordinates and/or GPS readings at each station. Samples are then collected from a consistent depth of **10-25** cm beneath the point at which soil formation is initiated in the particular landscape environment where the survey is taking place. The optimum depth of sample collection and the targeting of representative high-contrast base and precious metal residence sites should be determined by an orientation survey, prior to the exploration phase of this program. The orientation program can constitute a series of appropriately spaced pits with samples collected from vertical profiles (base to top of pit) at each station. This approach permits the documentation of the most representative signal and by so doing identifies the optimum sampling depth for the survey area. The HM survey results for MMI soils was based upon samples collected from depths of 10-25 cm below the point at which soil formation was initiated in this landscape environment. Previously undertaken MMI surveys have demonstrated that this depth of sample collection optimizes the most representative geochemical response as detected with MMI Technology in the general survey area. Samples are normally collected with a stiff vinyl trowel after the initial sample pit was dug with a shovel. The shovel is clean without paint or rust. In particularly hostile overburden scenarios where significant thickness of organic soils are encountered, samples may be collected with an auger. A Dutch auger has been found to be particularly useful for this purpose. Samples are bagged on site without preparation and shipped

to a licensed laboratory for MMI-M analysis. Analytical finish is by inductively coupled plasma-mass spectrometry (ICP-MS).

The samples submitted for analysis should include field duplicates, replicates or internal standards. Analytical duplicates and a standard MMI reference sample are utilized by SGS Mineral Services (Toronto) to monitor analytical accuracy and precision. Analytical blanks monitor laboratory-based contamination. Exploration survey analytical data are presented in Appendix 1; sample descriptions are also presented in Appendix 1. Edited data and calculated RR and Quality Assurance and Quality Control data ("QAQC") are presented in Appendix 2. Table 2 is a complete Spearman-Rank correlation coefficient matrix for the MMI-M database (it is appended to the CD-ROM) and the distilled version of this matrix (Table 1) is given in the text. Both 25th percentiles and backgrounds used to calculate the RR are given in Appendix 2. All graphics are presented in Appendix 3.

NATURE OF SAMPLING MATERIALS

Details of the nature of soil samples collected from the WL grid are given in Appendix 1. The soils are predominantly sandy with lesser silty and clayey equivalents. Abundant pebbles and coarser fragments to cobble and boulder size were observed during sample collection. No significant organic soil was observed during the survey.

ANALYTICAL PROTOCOL

Mobile Metal Ions (MMI) Process

The proprietary Mobile Metal Ions Process (MMI) soil geochemical technique has been utilized on a wide range of commodity types from base and precious metals to diamonds worldwide. The MMI Process is based upon proprietary partial extraction techniques and specific combinations of ligands to retain metals in solution once they are stripped from individual soil particles. The MMI method relies on strict adherence to sampling protocols usually established during an orientation program. Geochemical data resulting from MMI analysis of improperly collected soils cannot be

ameliorated with univariate and/or multivariate statistical and/or graphical solutions. Samples analyzed using the MMI methodology require no preparation subsequent to collection. The method targets recently arrived "mobile metals" that have traveled from buried/blind mineralized sources at depth and migrated to surface. Accordingly, the concentrations measured are those of recently arrived mobile metal ions at the surface and as such are much lower in concentration than the total metal concentration of the soil measured by strong partial digests or total digests. The method is effectively substrate independent and analyses are presented at parts per billion or sub-parts per billion concentrations. Exceptions are Al, Ca, Fe and Mg, which are quoted in ppm. Since the MMI-M extraction was utilized for the MMI surveys there are a wide range of metals reported including precious and base metals and related or "pathfinder" elements as well as lithologically sensitive metals. Quality assurance, quality control, analytical blanks and standards ensure analytical data is both accurate and precise.

DATA TREATMENT

Analytical data was examined visually for analyses less than the lower limit of detection (<LLD) for ICP-MS. Data <LLD were replaced with a value $\frac{1}{2}$ of the LLD for statistical calculations and graphical representation. The 25th percentile for these data was determined using the software program SYSTAT (V10) and the arithmetic mean of the lower quartile used to normalize all analyses. The normalized data represent "response ratios" which can then be utilized in subsequent plots or statistical applications. Zeros resulting from this calculation are replaced with "1". Response ratios are a simple way to compare MMI data collected from different grids, areas and environments from year to year. This normalized approach also significantly removes or "smoothes" analytical variability due to inconsistent dissolution or instrument instability. Background when using response ratios is considered to be "1".

DATA PRESENTATION

Analytical data from the HM property MMI-M exploration survey for the 10-25 cm soil samples are presented in plan view as Vertical Mapper bubble plots based on response ratios. TIFF files are

also provided for integration with other geoscientific databases. Graphics are presented in Appendix 3. The plan view or bubble plots depict the flux in geochemical response by plotting a symbol (circle) with a diameter that corresponds to the magnitude of the elemental analysis/response ratio at that site. The magnitude of the response is also color-coded for ease of inspection with the “hotter” colors indicating higher metal concentrations. These plots are prepared with Vertical Mapper, a module within MAPINFO software.

DATA DESCRIPTION

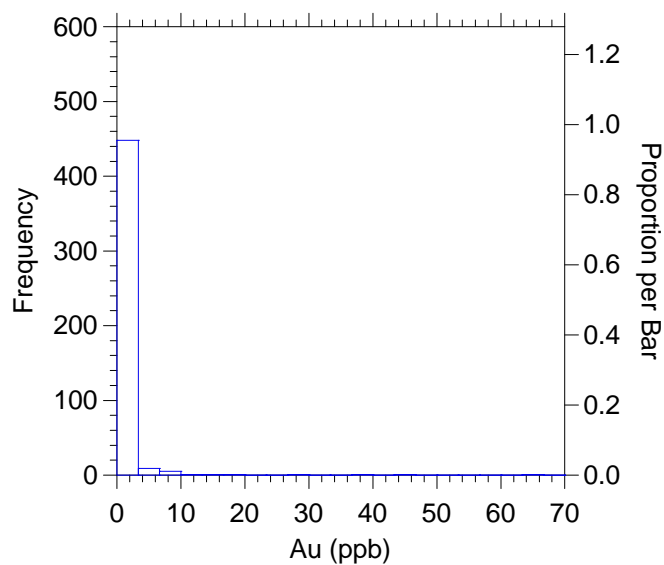
Appendix 1 contains all data from the SGS (Toronto) laboratory for this interpretation and report. The 25th percentiles and backgrounds for each element used for the calculation of response ratios for the exploration survey soil samples are also presented in Appendix 2.

The HM survey dataset is marked by a number of elements that are at or near the lower limit of determination as noted from visual examination of the data. These include As, Au, Bi, Ca, Cr, Li, Mo, Pd, Sb, Sn, Ta, Te, Tl and W. Elevated concentrations for select elements are also present and these include a wide range of elements such as the rare earth elements (“REE”), Au, Cu, Mo, Pb, Sb, Zn, Cd, Ti, Mg, Nb and Sr. The observation of numerous MMI-M suite elements that are at or below the lower limit of determination (“LLD”) is not cause for concern since many of these elements have very low mobilities in the surficial geochemical environments. Elements like Au are generally present in very low concentrations and the result is the presence of three distinctive ligands in the extraction to acquire and maintain Au in solution so that accurate and precise ICP-MS measurements of the extractant can be made. The premise of MMI-Technology is that metals are moving from source region to near-surface soils and as such in areas where there are no mineralized or source regions of metals there will be no metals rising to the surface. Accordingly there will be a large number of analyses that are <LLD resulting from a lack of a source region

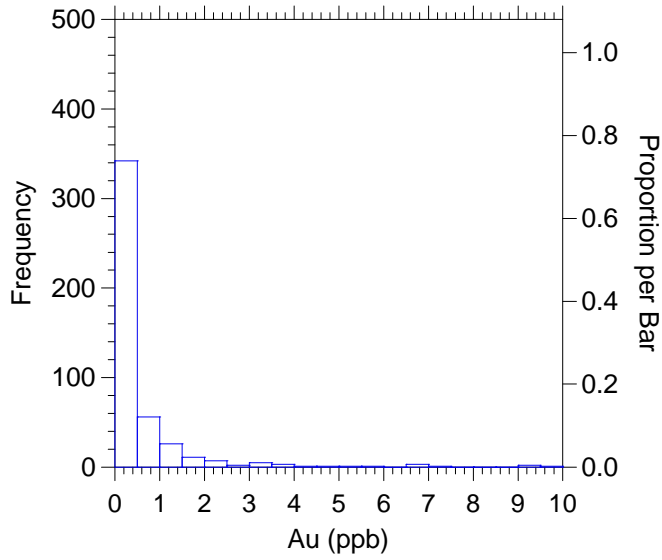
and not from buffering of the soil by carbonate-rich soils. The wide range of elevated metals in the MMI-M suite suggests a significant hydrothermal mineralizing system characterized by a wide range of introduced precious and base metals.

The frequency distributions for Au, Pb and Zn are presented below. Each of the three elements approximate normal distributions but are positively skewed with a small number of samples defining the skewness of the histogram. These samples represent an anomalous portion of the data population and indicate that there is a suite of samples that have elevated concentrations and possibly form a recognizable anomaly. This will be examined with the use of Vertical Mapper bubble plots and described in a later section of this report.

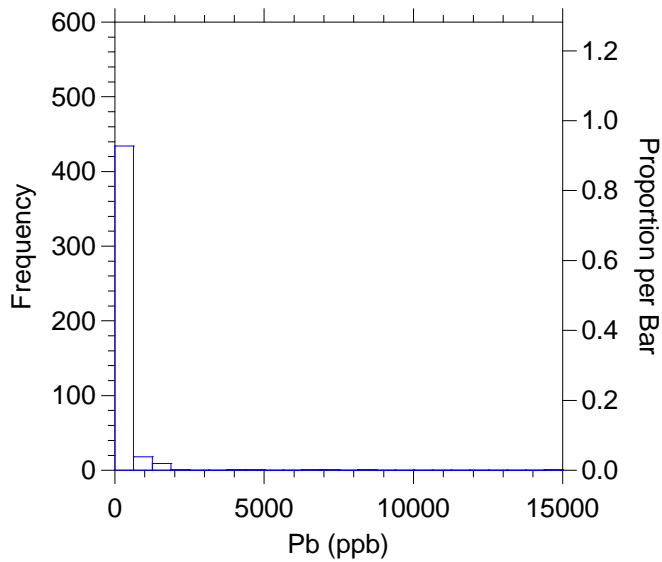
Namex Huffman Property MMI-M Survey



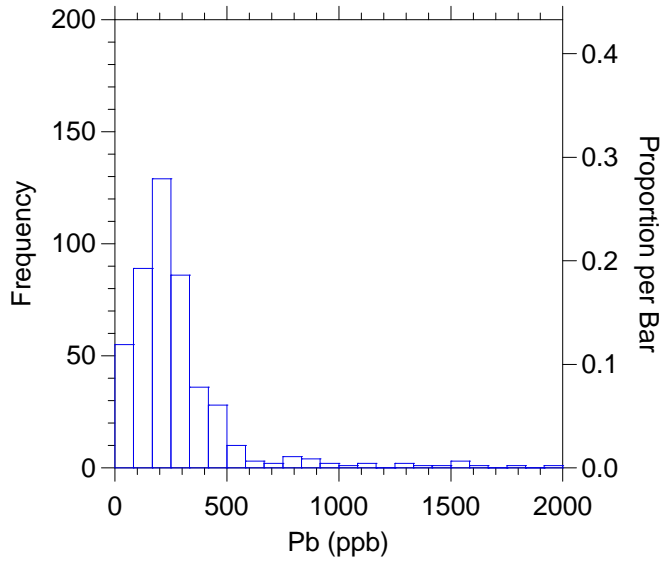
Namex Huffman Property MMI-M Survey



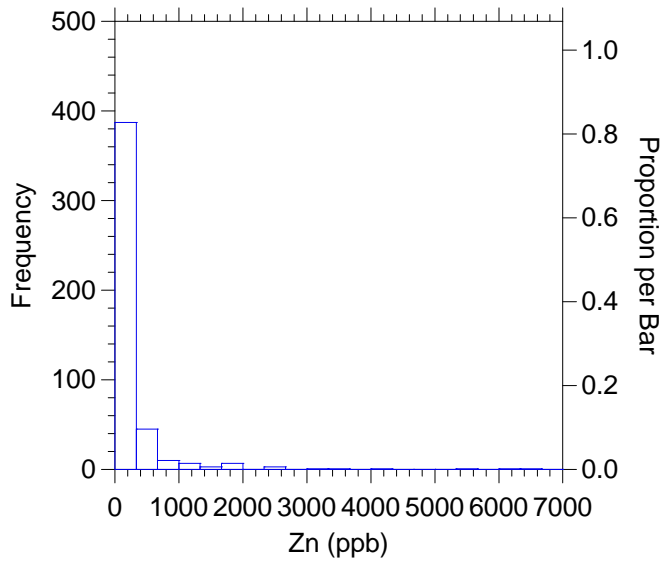
Namex Huffman Property MMI-M Survey



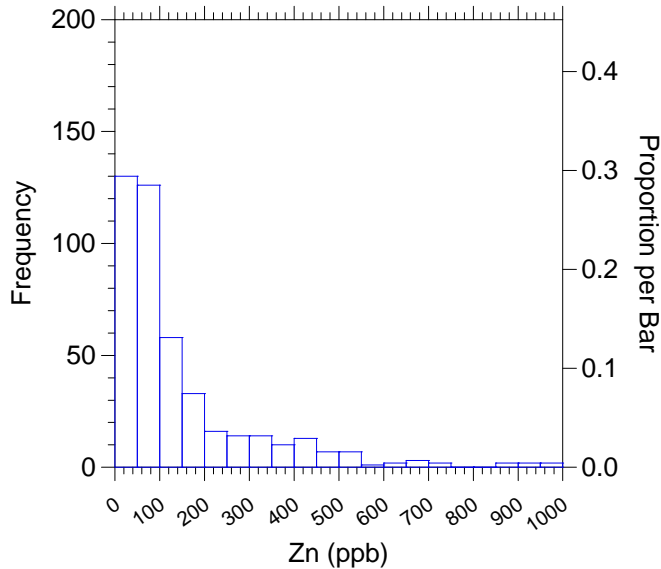
Namex Huffman Property MMI-M Survey



Namex Huffman Property MMI-M Survey



Namex Huffman Property MMI-M Survey



QUANTIFYING MOBILE METAL ION RESPONSES

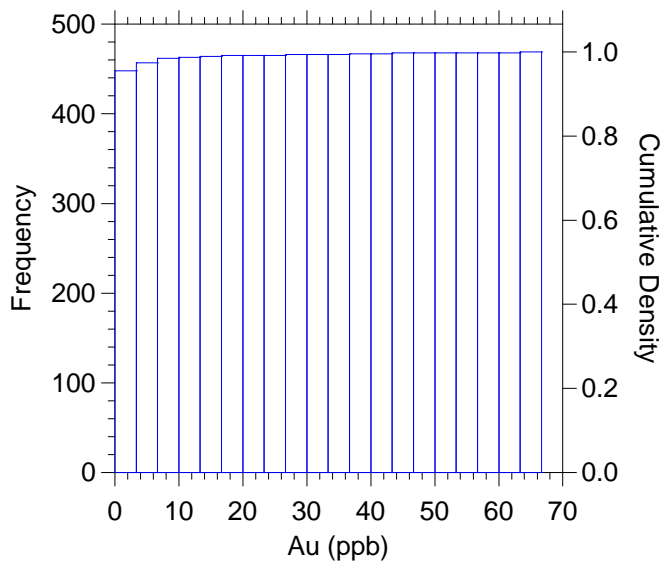
The determination of whether an MMI response is significant is largely determined by an understanding of the landscape environment in which the survey is taking place and this includes the nature of the materials being sampled, depth of overburden and the nature/composition of expected mineralization. Orientation surveys will determine the range in concentration and derived response ratios associated with the mineralized target and from this an appreciation of common geochemical parameters such as background, threshold and anomalous can be derived for individual survey areas.

A variety of methods are available for determining geochemical parameters for the determination of bona fide anomalies and these vary from univariate to multivariate statistical and graphical approaches to simple visual estimates. For the determination of anomalies in MMI data a first simple step is often utilized that will provide an initial breakdown of responses from a survey although it is often more useful to look at constituent elements in a geochemical anomaly, their response ratio levels and the number of samples responding in the survey area and whether this

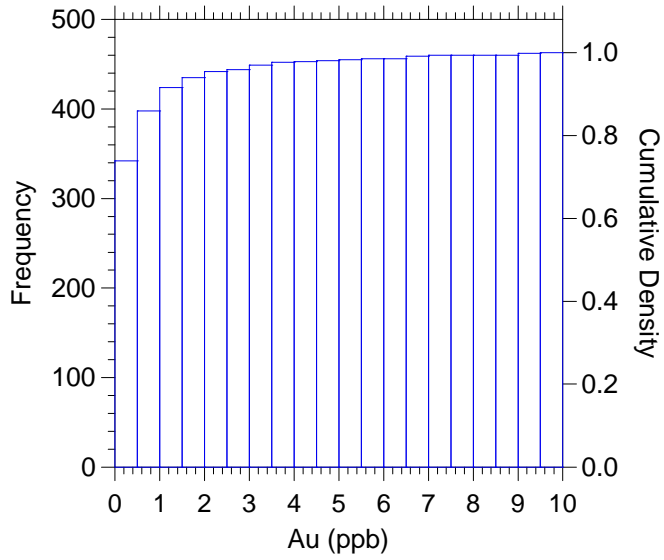
response is cohesive, that is whether it is a “one-line” anomaly or is more broadly/areally developed.

A general rule of thumb utilized for the assessment of the NG MMI-M geochemistry is to assign a **low-contrast response** to an RR of 20 or less, a **moderate-contrast** RR to one of between 21 and 50 and a **high-contrast** response to RR of >51. More detailed statistical graphics methodologies can be brought to bear on these determinations and include cumulative frequency plots to probability plots, all of which are available from commercial software statistical and graphical packages. Examples of cumulative frequency/density plots are given below for selected elements including Au, Pb and Zn. These plots may be used to select the upper limit of background variation (Threshold) and then all values greater than this threshold are anomalous and can be plotted as such. The threshold is selected by picking the inflection point on the graph.

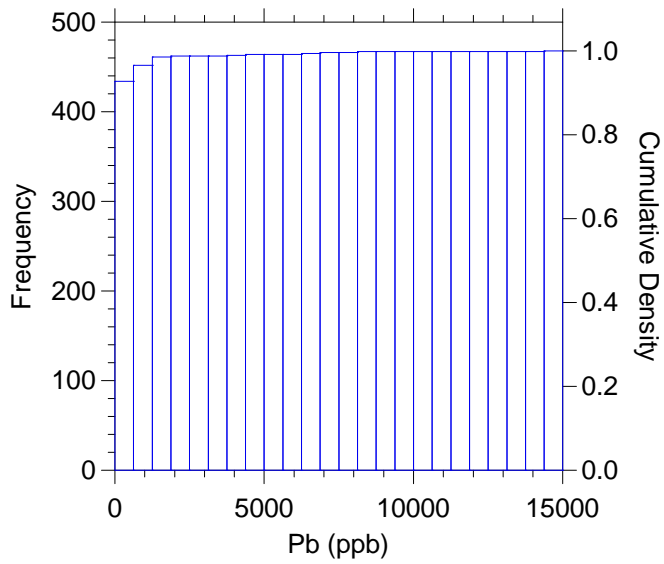
Namex Huffman Property MMI-M Survey



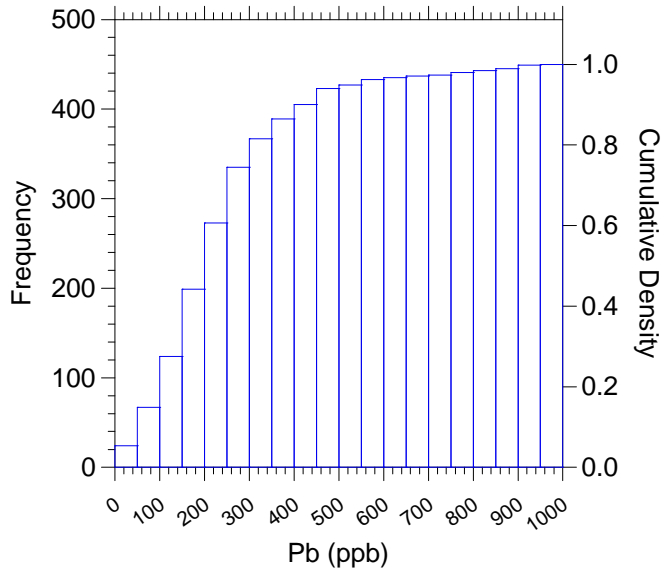
Namex Huffman Property MMI-M Survey



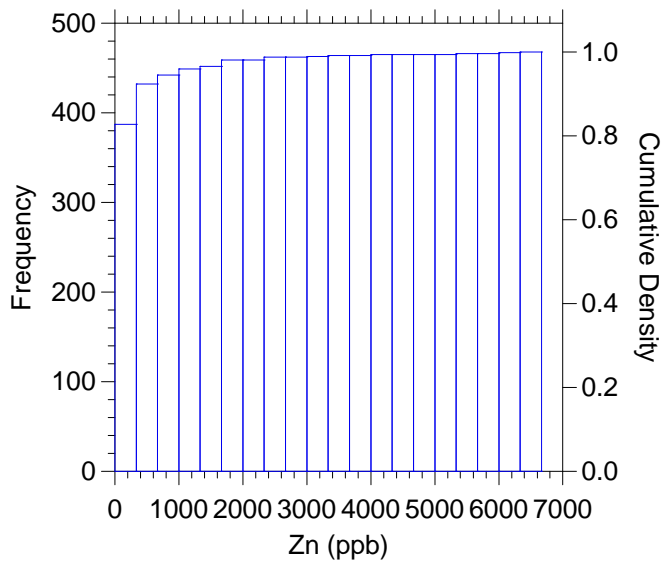
Namex Huffman Property MMI-M Survey



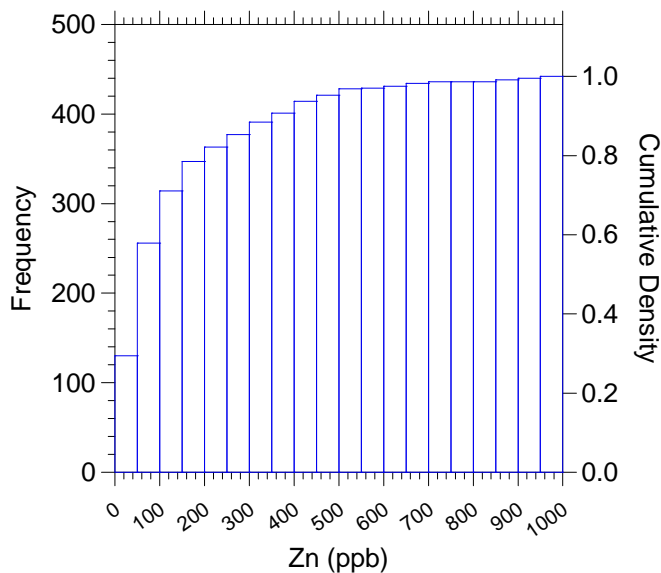
Namex Huffman Property MMI-M Survey



Namex Huffman Property MMI-M Survey



Namex Huffman Property MMI-M Survey



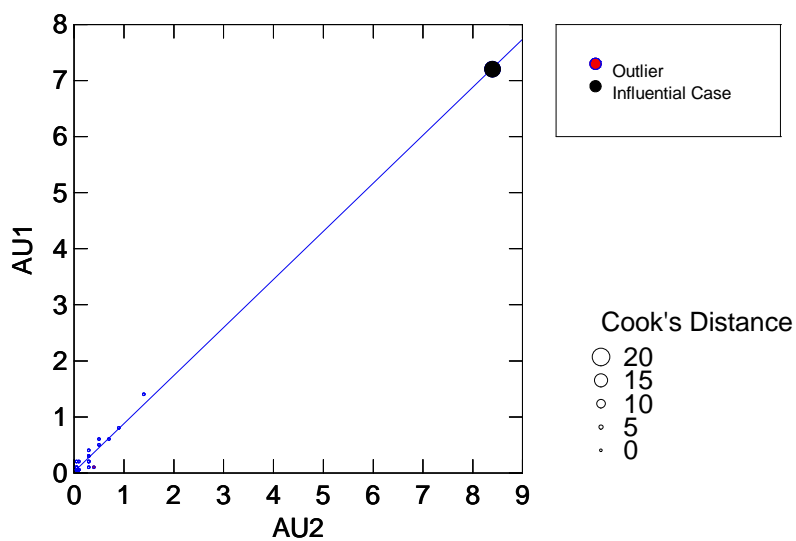
DATA QUALITY

Analytical Duplicates

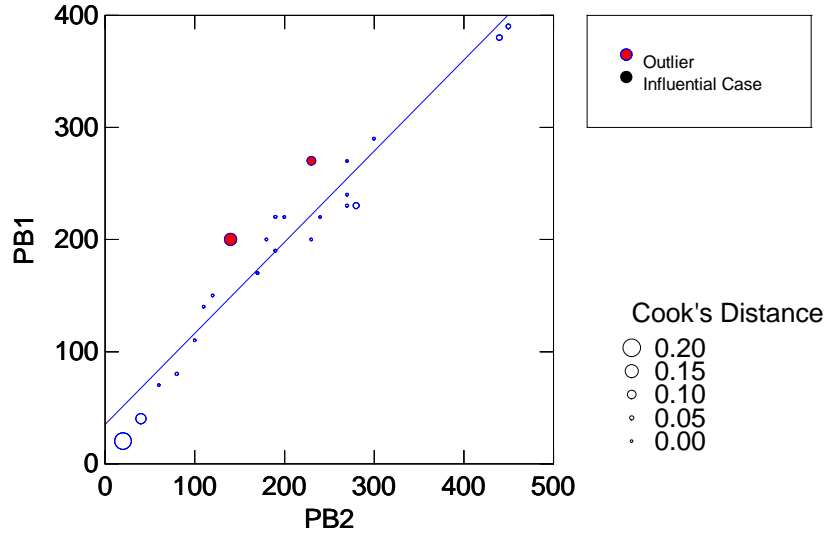
Every 12th sample in the routine analysis of MMI samples is an “analytical duplicate” that provides control for the reproducibility and accuracy of routine analyses. These duplicates are presented in Appendix 2 as QAQC and demonstrate that excellent reproducibility is apparent in the HM analyses across a wide range of concentrations for all MMI-M suite elements. Some variability is apparent at the LLD or even at higher concentrations however this is not interpreted as a significant problem for the recognition of *bona fide* geochemical anomalies. The results of simple linear regression for Au, Pb and Zn indicate that for the Pb analytical duplicates two sample pairs are recognized as geochemical outliers but with relatively low Cook’s Distances (see below). The majority of analytical duplicate pairs are both accurate and reproducible defining a straight line through the origin. It is noted that the duplicate pairs identified as outliers occur at the higher end of the concentration range. The results for Au and Zn indicate there are no outliers in the analytical duplicates and that the presence of any *bona fide* anomalies for these elements, if present, will not be missed.

NOTE: [The Cook's Distance is a commonly used estimate of the influence of a data point when doing a regression analysis. Data points documented as outliers may distort the results from a regression analysis and Cook's Distances of 1 or more indicate that a particular data point is problematic.]

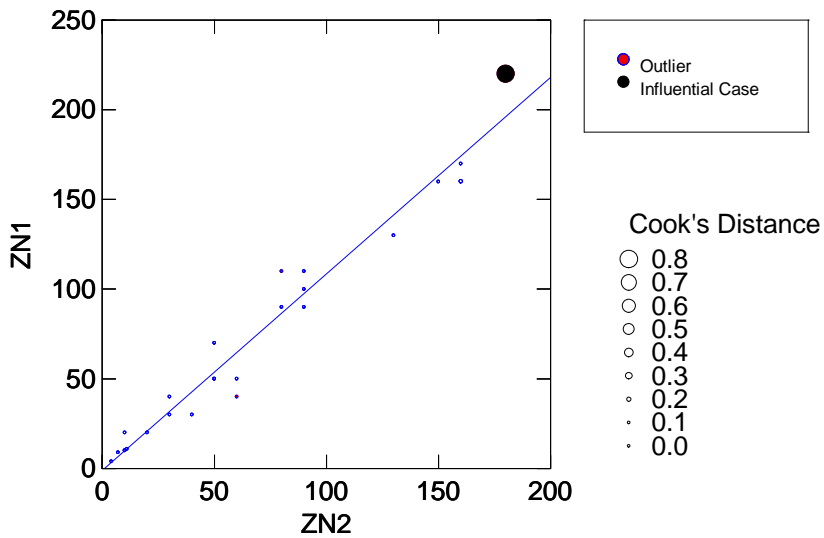
Outliers and Influence



Outliers and Influence



Outliers and Influence



Field Duplicates

The reproducibility of an anomaly in the field is of prime importance and to test this in the Huffman MMI-M survey a total of 6 field duplicates were collected during the course of the survey. These samples were collected from a separate hand-dug pit or from the opposite wall of the pit where the original sample was collected. The duplicate was assigned a distinct sample number and analyzed in the same manner as all other samples.

Results for the six field duplicates are presented in Appendix 2 and select results for Au, Pb and Zn are tabulated in table form below. Four of six duplicate pairs exhibit excellent reproducibility whereas two duplicates are marked by significant variance. Although this variance would be of some concern if results were plotted as parts per billion this concern is somewhat ameliorated by converting the analyses to response ratios. This has the effect of reducing the variance to the point of interpreting the result as background or anomalous. In the case of the two seemingly aberrant field duplicates (HM-07-210 and HM-07-240) neither would be mis-classified as either background or anomalous.

The remainder of the MMI-M suite elements shows acceptable reproducibility in field duplicates to the point where no anomalous responses will be missed when interpretations are based upon calculated response ratios.

ANALYTE METHOD DETECTION UNITS	Au MMI-M5 PPB	Pb MMI-M5 PPB	Zn MMI-M5 PPB
		0.1	10
			20
HM-07-240	<0.1		70
HM-07-240-DUP		0.4	150
			30
HM-07-210		0.4	50
HM-07-210 Dup		0.6	210
			250
HM-07-180		0.1	140
HM-07-180 Dup		0.1	110<20

HM-07-120	<0.1	160	180
HM-07-120 Dup	0.1	100	150
HM-07-60	<0.1	260	120
HM-07-60 Dup	<0.1	290	110
HM-07-90	0.1	290	110
HM-07-90 Dup	<0.1	270	110

Analytical Blanks

To monitor laboratory and sampling errors introduced into the sample analytical blanks are inserted with each batch of MMI samples that are run through the ICP-MS. The results of these replicate analyses are presented in Appendix 2 ("QAQC") and demonstrate that there is no detectable contamination being introduced into the sample as it passes from the sample bag to the ICP-MS. There is no commodity element contamination (Au, Ag and base metals) in the blanks. This observation is based on the assessment of 14 analytical blanks from the WL MMI-M dataset. One blank is noted to contain 1 ppb of La.

Analytical Standard MMISRM14

The standard MMISRM14 is included with each batch of soil samples as a check on analytical accuracy and reproducibility. Very little variability exists for commodity and related MMI-M suite elements in the HM survey (Appendix 2) although some variance is noted for Fe with a recommended value for the standard of 1.7 ppm and an observed range in replicate analyses of the standard of 2-6 ppm. Results for Au, Pb and Zn are excellent. The data for Au indicates a range of 38.3-46.3 ppb with an arithmetic mean of 42.9 ppb against a recommended value of 44.1 ppb. Results for Pb indicate a range in replicate analyses of 110-140 ppb and an arithmetic mean of 119 against a recommended value of 100 ppb. The Zn results are equally impressive with a range of 310-380 ppb and an arithmetic mean of 340 ppb against a recommended Zn value of 345 ppb. The overall accuracy and reproducibility of the analyses is interpreted to be excellent.

Spearman-Rank Correlation Coefficient Matrix

A particularly effective method of assessing unique element associations in the MMI-M dataset from the HM MMI-M survey and providing an indirect assessment of data quality is with a correlation coefficient matrix. The distilled Spearman-Rank matrix is presented in Table 1 below and the entire matrix is reproduced in Table 2 (appended to CD-ROM). The MMI-M suite of elements is populated by a number of lithologically sensitive metals that can be used to map subsurface geology in the bedrock underpinning the survey area and to infer unique lithologies such as kimberlite, carbonatite and other lithologies with distinctive bulk chemical compositions.

The majority of the significant element associations in the HM dataset are doublets related to polymetallic precious and base metal mineralization and to lithologically sensitive elements. These include doublets between Au, Ag, Cu, Pb, Mo, Sb, Pb, Zn, Cd, Bi, As and Ca, Mg, Sr, Fe, Cr, Li, Nb, Sc, Sn, Ta, W, U, Th, Nb and Zr as lithologically sensitive geochemical responses. The strong association between U, Sn, and W and to a lesser extent Ta can be used to infer that a felsic lithology, possibly intrusive is present in the survey area. The elements Fe-Ti-Nb, if coincident on the grid will be the signature of oxide facies magnetite iron formation. Of particular interest in the associations are those between the rare earth elements ("REE"). These are strong correlations, with the coefficient "r" ranging from 0.7-0.9 and are strongly suggestive of a close association between this group of elements. The high correlation coefficients for the REE indirectly indicate a quality analytical dataset exists based on the geochemical coherence of the REE. Non-reproducible and inaccurate analyses would be reflected by poor correlations between this suite of elements.

Table 1. Distilled significant MMI-M responses from a Spearman-Rank correlation coefficient matrix, Huffman project.

Doublet	r	Doublet	r	Doublet	r
Au:Cu	0.614	As-Bi	0.607	Ca-Mg	0.767
Au:Mo	0.611	As-Cr	0.618	Ca-Sr	0.769
Au:Sb	0.493	As-Cu	0.391	Mg-Sr	0.769
Au:U	0.370	As-Fe	0.574	Ni-Sr	0.407
Ag:Pb	0.345	As-Li	0.501		
Cd-Zn	0.458	As-Mg	0.400	Sn-W	0.521
Cd-Pb	0.436	As-Mo	0.446	Ta-W	0.622
Cu-Mo	0.469	As-Nb	0.603		
Cu-Sb	0.376	As-Sb	0.433	Ti-Zr	0.692
Cu-U	0.630	As-Sn	0.515		
Mo-Sb	0.704	As-Ta	0.406	Th-U	0.754
Pb-Zn	0.360	As-Th	0.461		
		As-Ti	0.548	Nb-Sn	0.699
Bi-Cr	0.482	As-U	0.372	Nb-Ta	0.490
Bi-Cu	0.347	As-W	0.559	Nb-Ti	0.942
Bi-Fe	0.426	As-Zr	0.617	Nb-W	0.508
Bi-Li	0.383			Nb-Zr	0.753
Bi-Mo	0.469	Fe-Cr	0.506		
Bi-Nb	0.467	Fe-Li	0.500	Fe-W	0.542
Bi-Sb	0.400	Fe-Nb	0.617	Fe-Zr	0.641
Bi-Sn	0.499	Fe-Sc	0.504		
Bi-Ti	0.409	Fe-Sn	0.524	Co-No	0.591
Bi-W	0.496	Fe-Ta	0.434		
Bi-Zr	0.502	Fe-Th	0.553	Li-Mg	0.520
		Fe-Ti	0.621		

***rare earth elements are inter-correlated with $r > 0.7-0.9$**

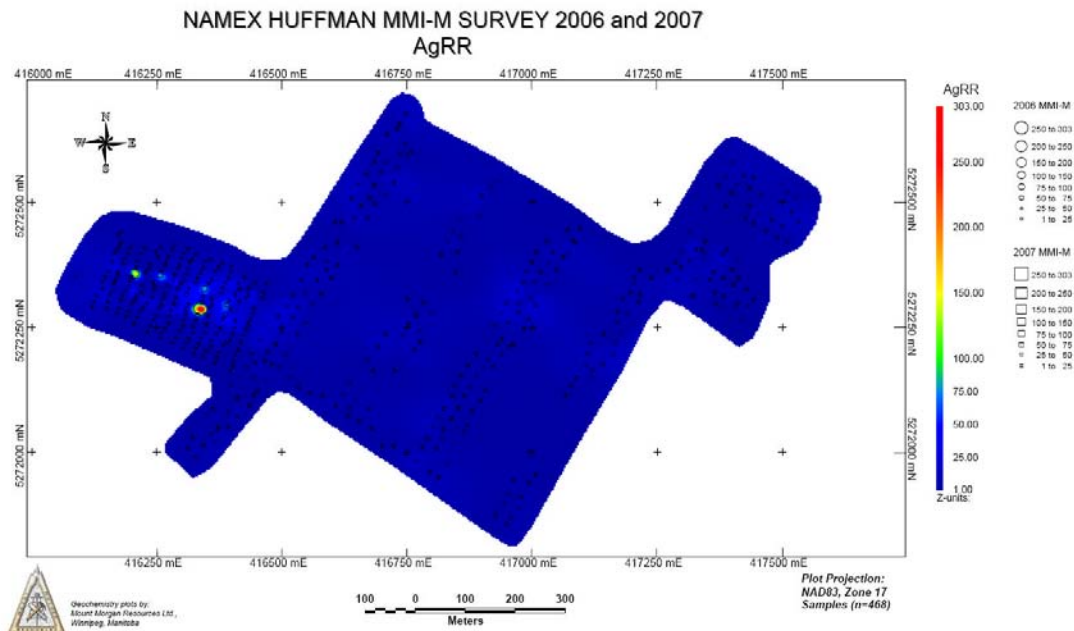
NAMEX HUFFMAN EXPLORATION SURVEY

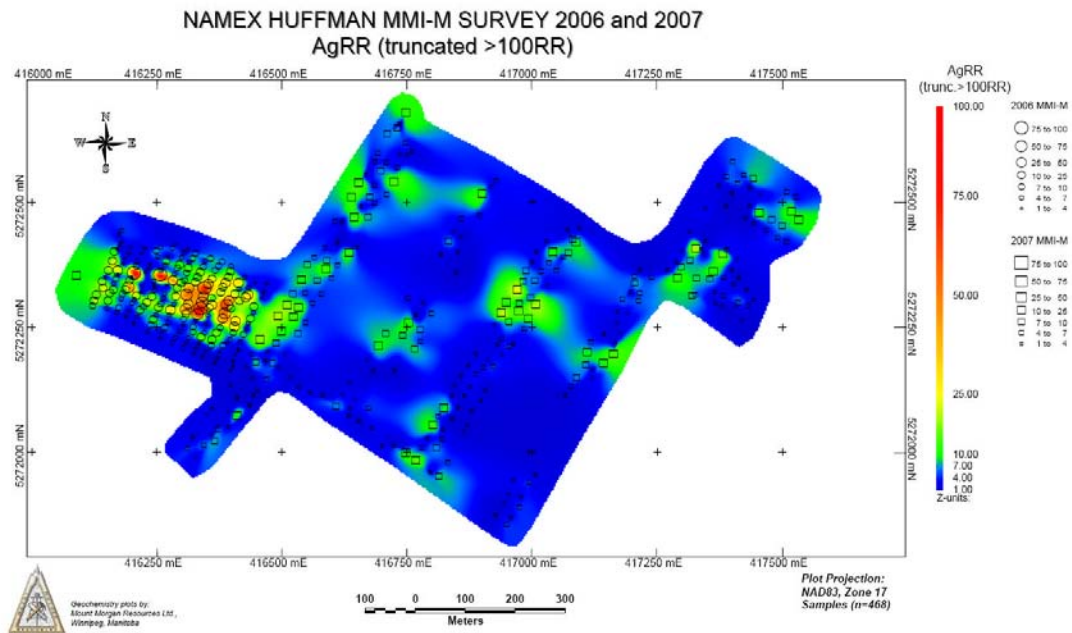
The results from the MMI-M-based geochemical exploration surveys undertaken at HM are presented below in a geochemical narrative accompanied by Vertical Mapper bubble plots. It should be noted that the bubble plots are also presented in Appendix 3. Due to the proximity of the two survey areas IN 2006 and 2007 the individual grids have been plotted on the same figure for each element of interest. The calculation of response ratios, upon which the following plots are based, were derived from combining these two datasets.

RESULTS

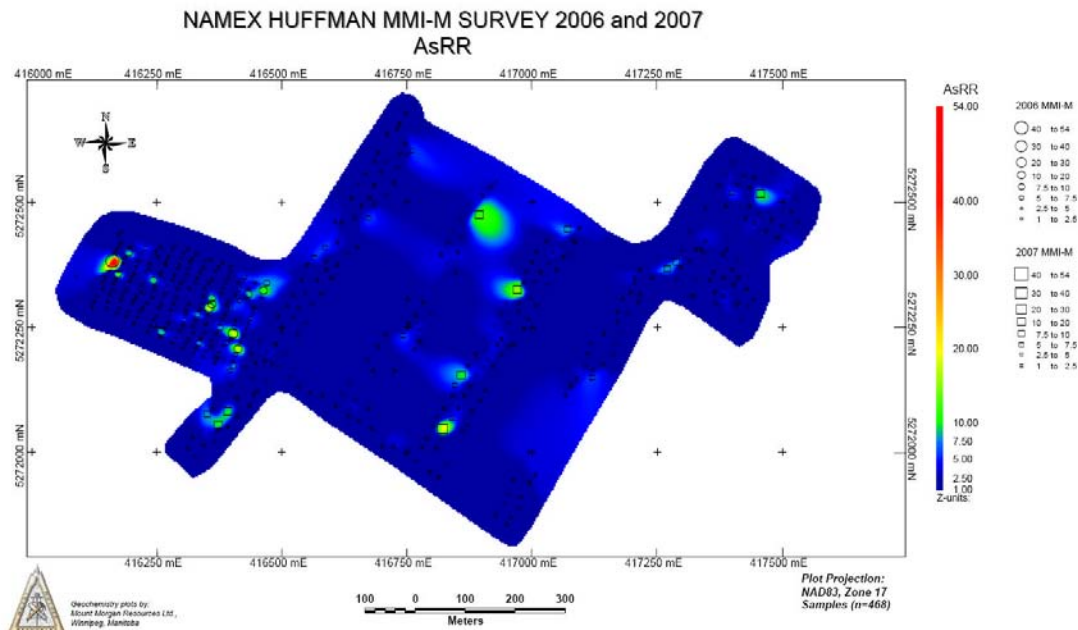
Precious and Base Metal Responses

AgRR (1-303RR): Very high-contrast Ag responses are documented over the historic known mineralized zone as well as both east and west of this zone. The anomalous responses have a strike length of approximately 300 m in a southeasterly direction and 200 m in a north-south orientation as defined by the 2006 survey. The results from the 2007 data indicate scattered, low-contrast, multi-sample anomalies. One of these responses occurs at the southeast end of the Ag anomaly defined in 2006 and a second anomalous response occurs about 200 m east of the original high-contrast Ag anomaly and on-strike with same. The distances between the sampling transects in 2007 indicate that significant gaps in the 2007 survey are present and that the MMI-M geochemical signatures related to unknown mineralized zones could be missed. The observations of the Ag responses in both the 2006 and 2007 datasets are based upon truncated (>100RR) data.





AsRR (1-54RR): Scattered, primarily single-sample anomalies are present in both the 2006 and 2007 surveys. There are several moderate- and one high-contrast anomalous responses associated with the general area of known mineralization but the anomalies are non-diagnostic and do not appear to extend top the southeast. The highest AsRR of 54 times background occurs on the western edge of the 2006 survey indicating an As anomaly may be developing in this area.

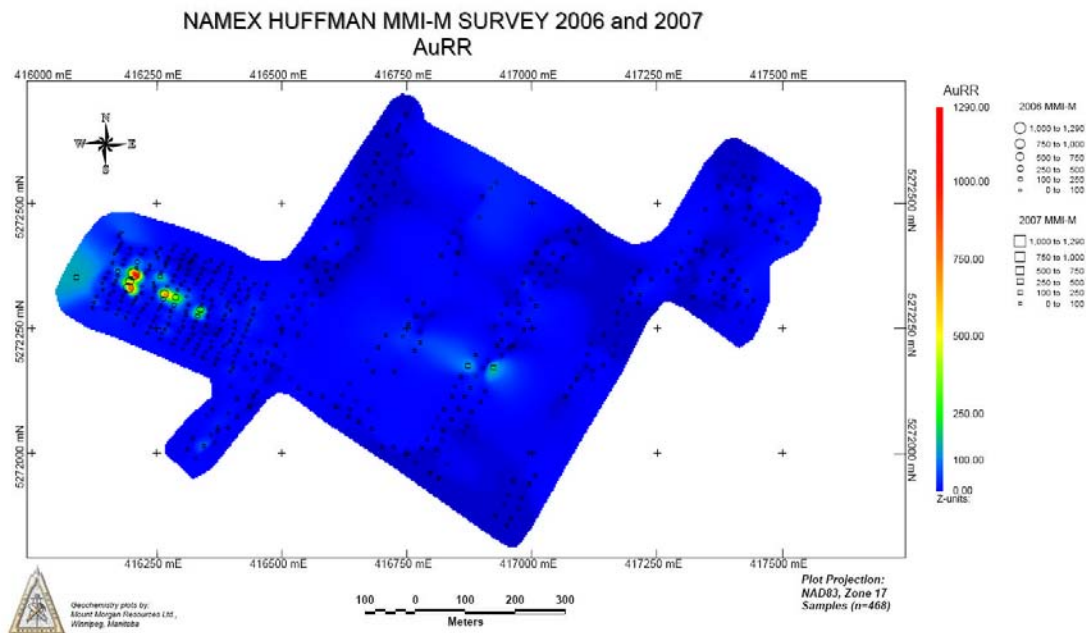


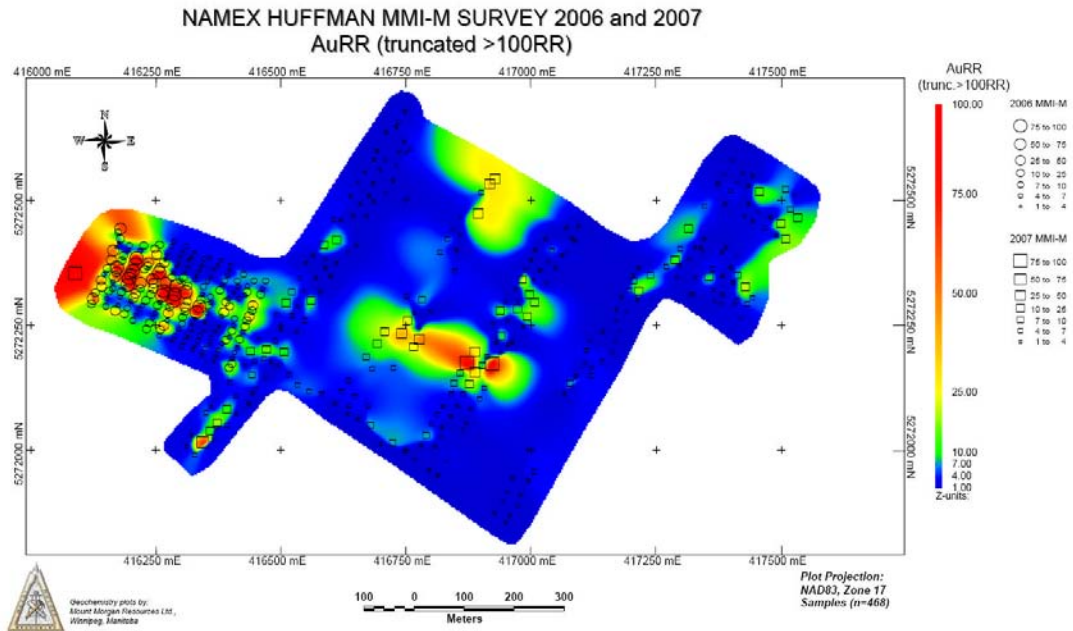
AuRR (1-1290RR): Extremely high-contrast response ratios to 1290 times background typify the 2006 survey area and to a lesser extent the 2007 survey area. The non-truncated AuRR data document a tightly focused high-contrast Au anomaly centered on the historic mineralized area. Similar to the As data, there is a very high-contrast AuRR anomaly situated at the western extremity of the 2006 survey area suggesting significant potential for additional high-contrast Au anomalies and associated mineralization in this direction. The 2007 elevated responses occur approximately 600 m southeast of the known mineralization.

When the AuRR data is truncated (>100RR) and replotted additional significant trends and anomalies become visible. The immediate area of the historic mineralization is highlighted by the truncated data and suggests potential for additional mineralization occurs to the west and north of the known mineralized zones. Of particular interest is a new extensive zone of strongly elevated AuRR anomalies that occur approximately 350 m along trend to the southeast. This zone, referred to as the Southeast Extension Au anomaly, persists for an additional 250 m in this same direction. This anomaly is open to the east and given the wide spacing between the sampling

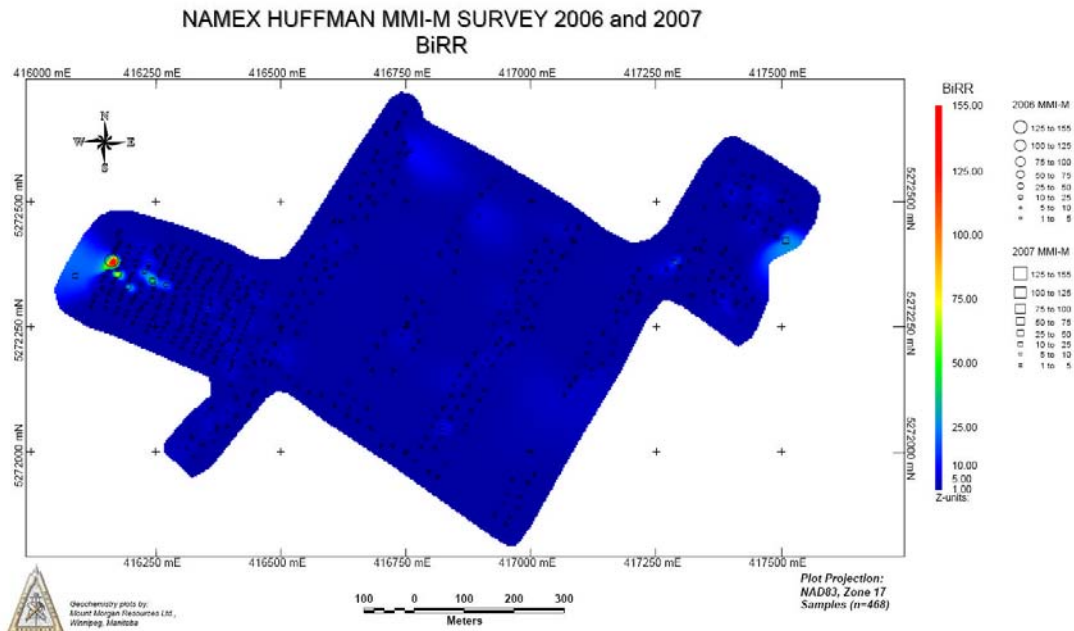
transects is likely to be open to the west as well. Additional surveys are required to delineate and truncate this moderate- to high-contrast anomaly.

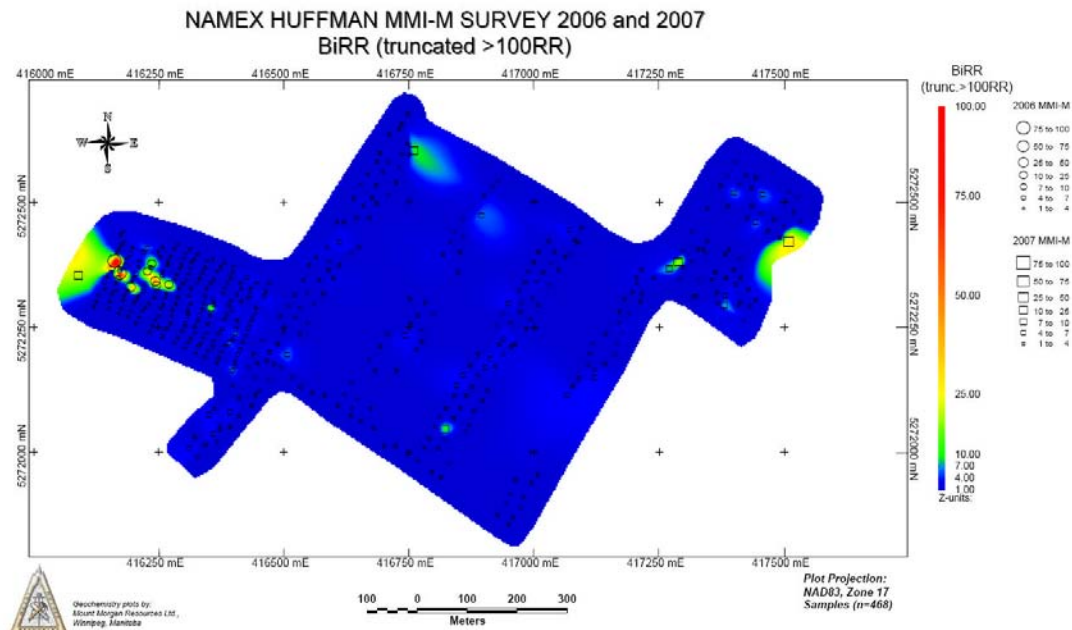
A second new zone of moderate-contrast AuRR responses is documented from the north-central portion of the grid. This anomaly is open to the west, east and north and although subordinate in terms of the magnitude of response to the other Au anomalies on the grid requires additional follow-up MMI-M surveys, prospecting and geological mapping to elucidate this response.





BiRR (1-155RR): The historic area of trenched mineralization is marked by BiRR to 155 and in truncated (>100RR) data indicates this known zone is likely open to the west. There is no indication of significant BiRR anomalies in the 2007 survey area.

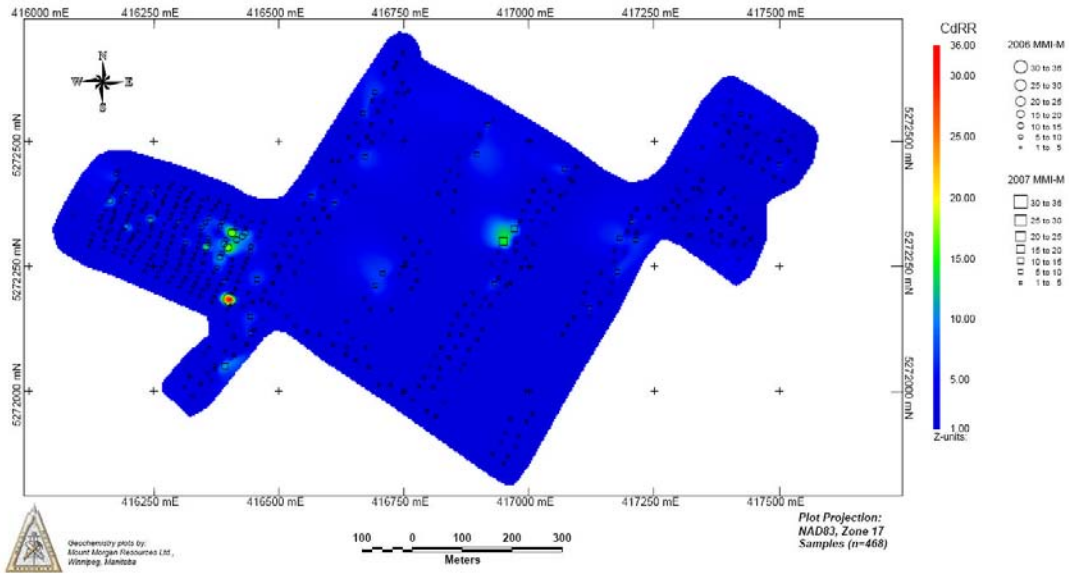




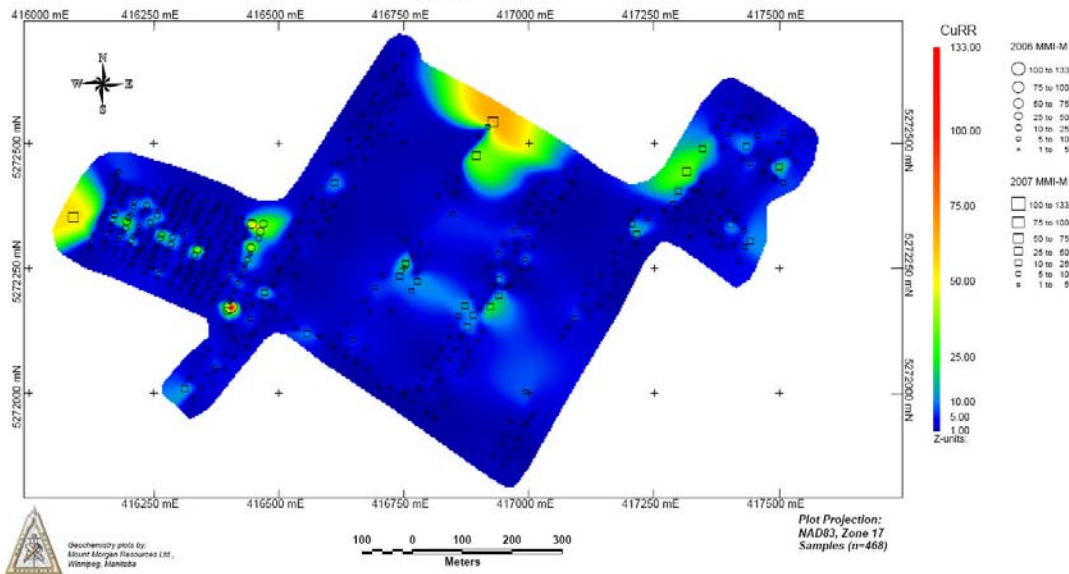
CdRR (1-36RR): Cadmium responses of significance are restricted to the east end of the 2006 survey area where several low-contrast responses are documented. There is no association of Cd with the Southeast Extension Au anomaly. Elsewhere on the grid the MMI responses are <10RR with the exception of a two-sample response near the central portion of the 2007 survey area.

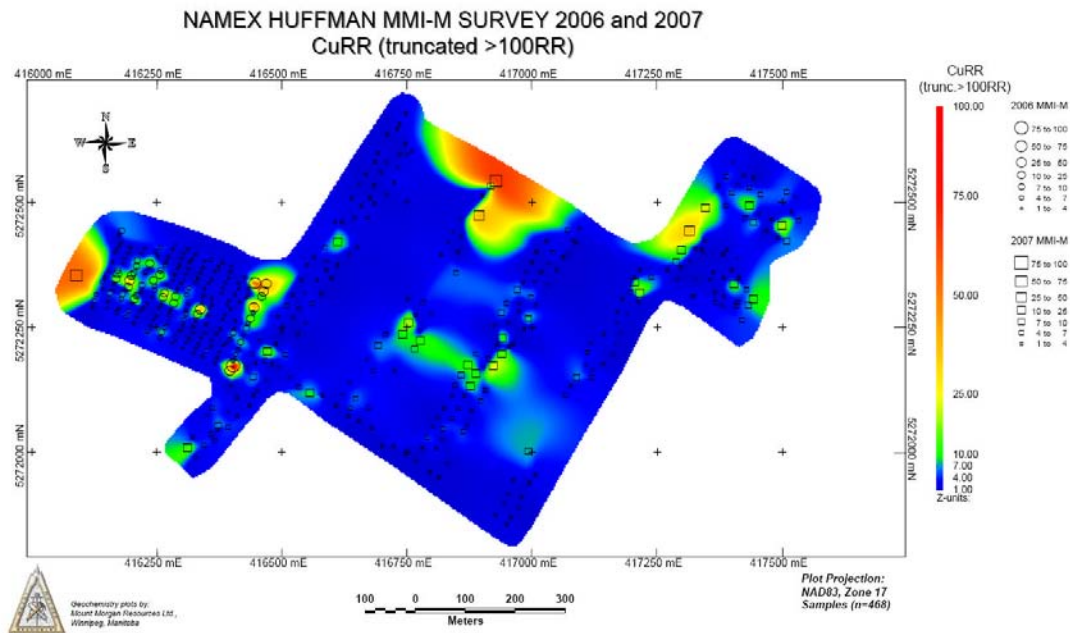
CuRR (1-133RR): The known historic mineralized zone is marked by a multi-sample moderate- to high-contrast anomaly and like the results for Au, Ag, As and Bi suggests this anomaly extends westward. Truncated (>100RR) data suggests the Southeast Extension AuRR anomaly is also marked by and coincident with low-contrast CuRR responses. Of particular interest is the developing Au-Cu anomaly that is situated along the northern edge of the 2007 survey area. This anomaly is irregularly developed with low- to high-contrast CuRR interspersed with background responses of <5RR Cu. Nevertheless the anomaly is open to the north and should be followed up with additional MMI-M surveys.

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007
CdRR

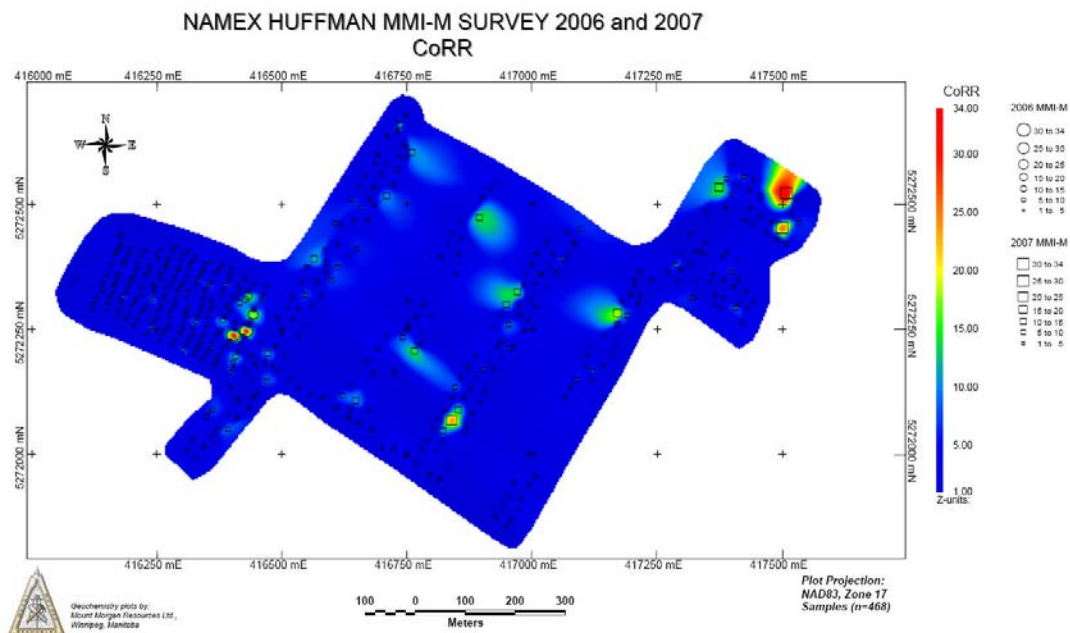


NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007
CuRR

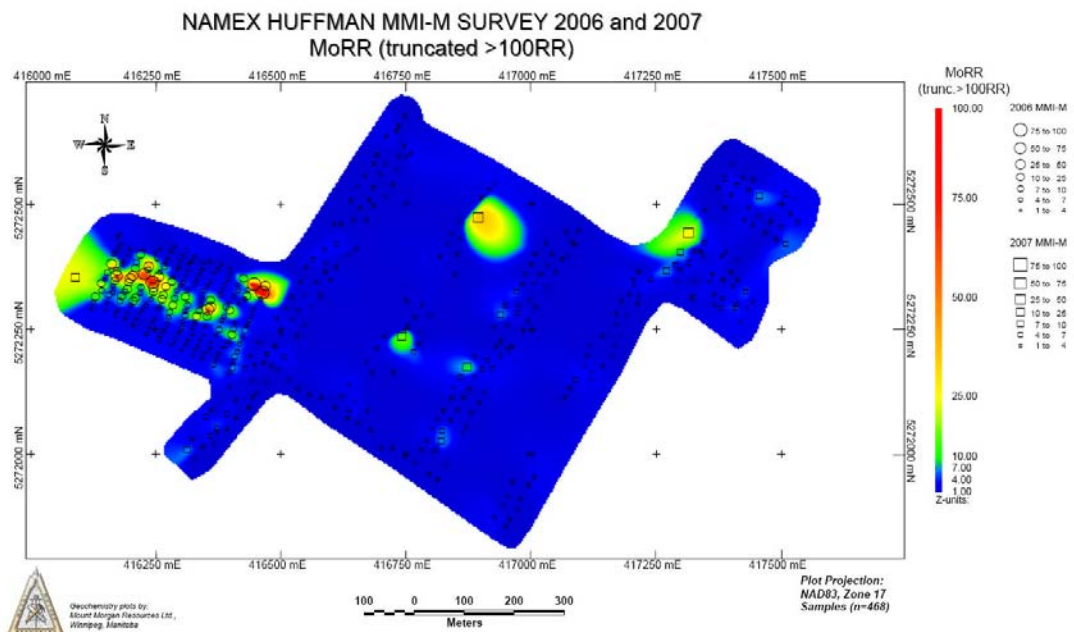
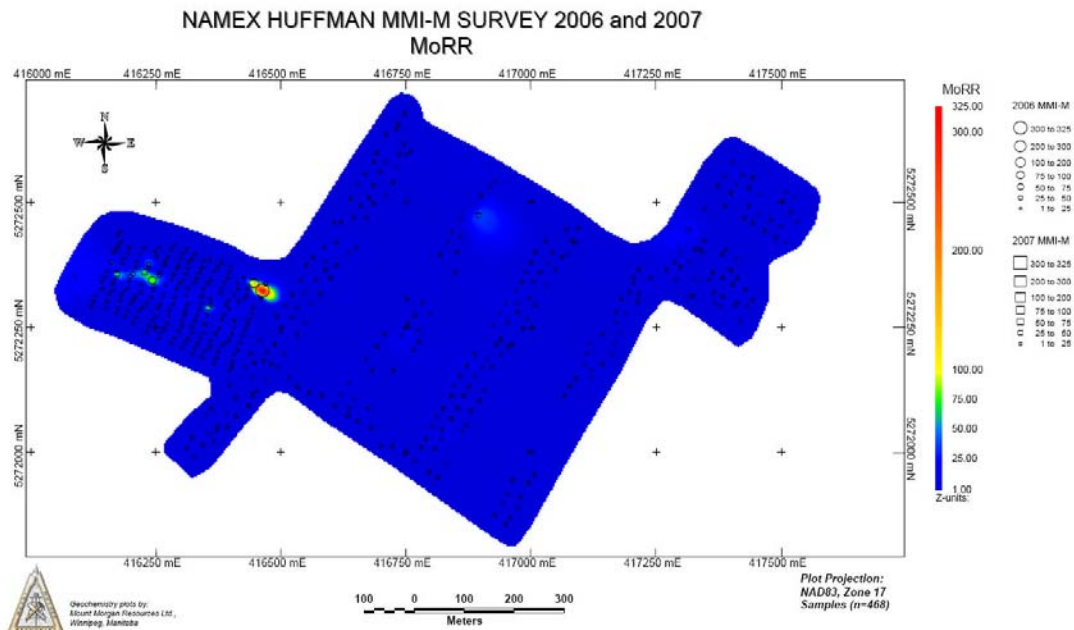




CoRR (1-34RR): Cobalt responses, normally indicative of the presence of bedrock-hosted iron sulphide minerals pyrite and/or pyrrhotite, have moderate-contrast maxima of 34RR but for the most part are scattered over the 2006 and 2007 survey area. The east end of the 2006 survey area is marked by several elevated responses in association with the historic mineralization in that area. Elsewhere on the grid single sample anomalies predominate and are non-diagnostic of significant trends or anomalies on the grid. The highest CoRR occur at the northeastern limit of the 2007 survey in the northeastern corner of the grid.

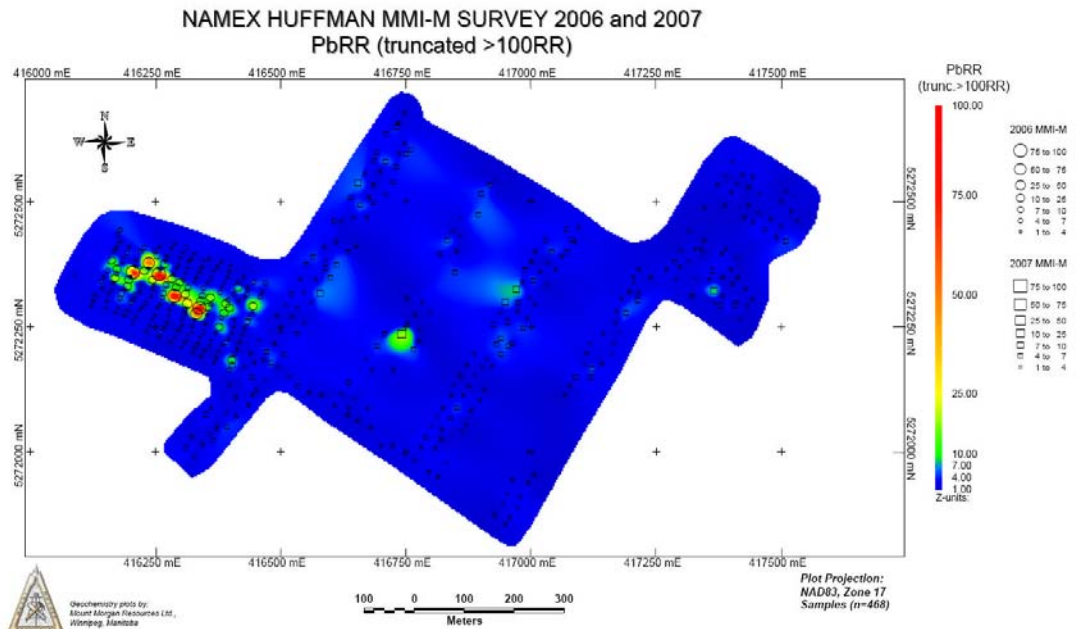
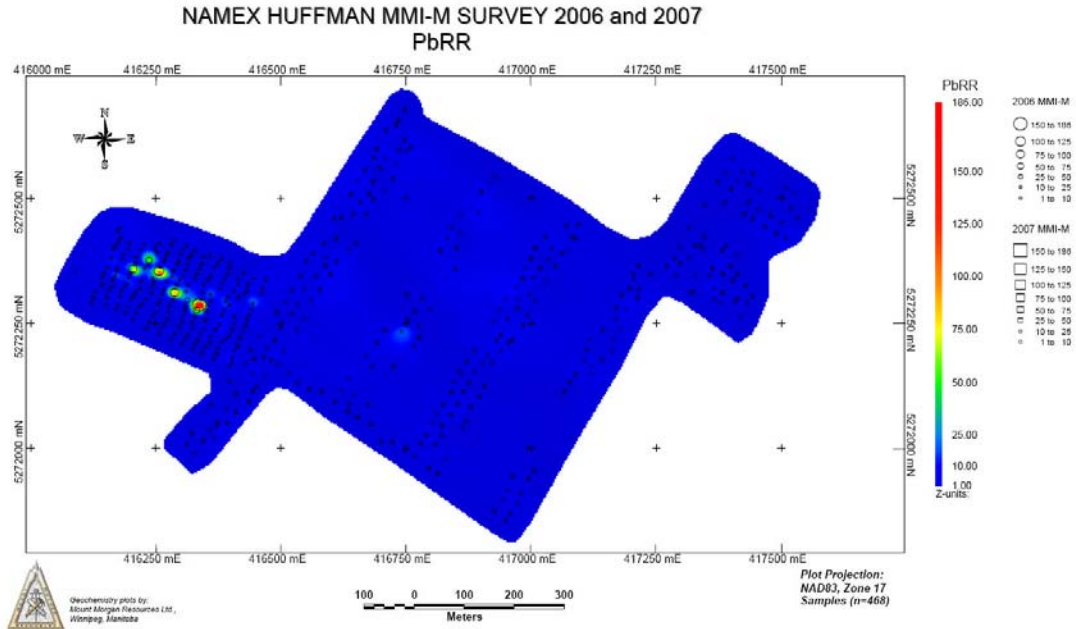


MoRR (1-325RR): Elevated Mo responses are characteristic of the general area of the historic known mineralization but also indicate the Mo anomaly and associated mineralization likely extends westward. Outside of the 2006 survey area only low-contrast responses are observed and these occur in association with the Southeast Extension Au anomaly and the developing anomaly at the northern edge of the 2007 survey area. These patterns were only observed when the MMI-M data was truncated (>100RR) and replotted.

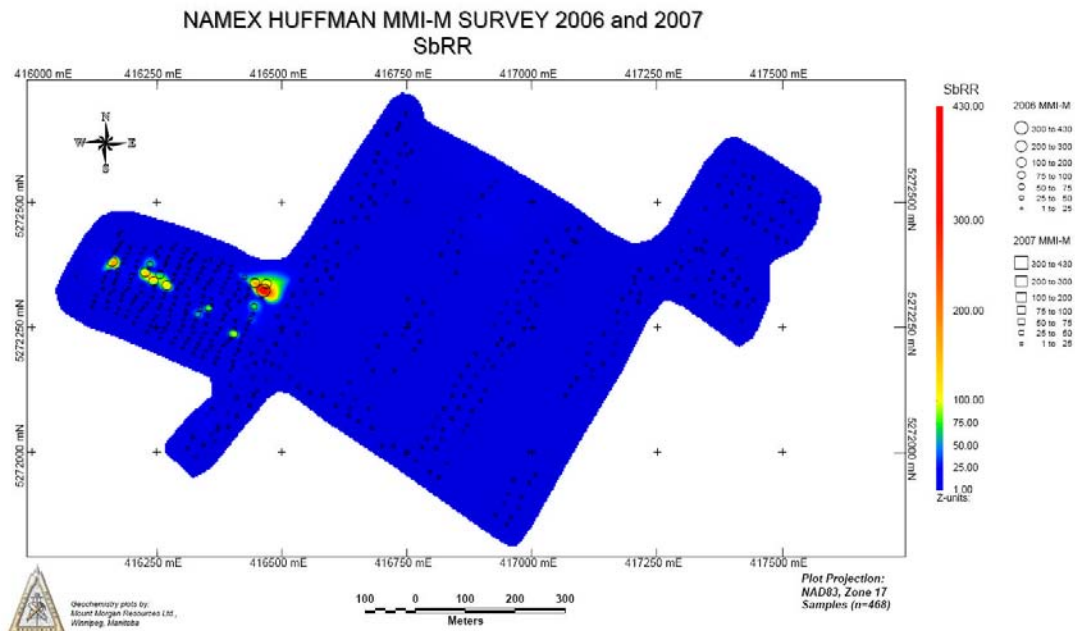


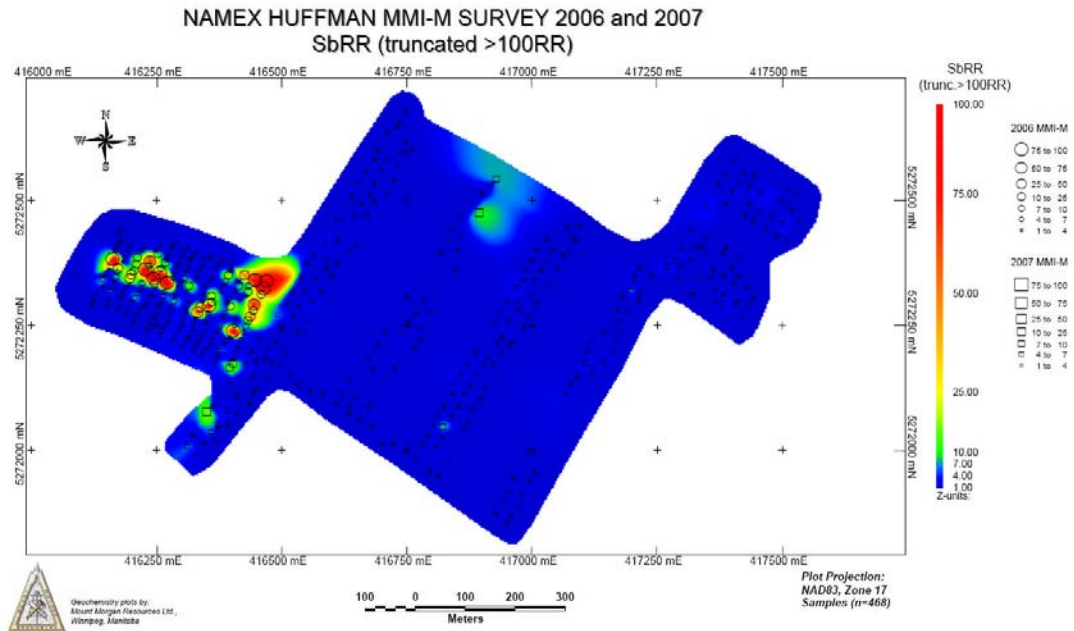
PbRR (1-186RR): The non-truncated PbRR data from both 2006 and 2007 surveys indicate the sole anomalous response occurs in the 2006 survey area in the immediate vicinity of the known mineralized zone. This is a 5-6 sample moderate- to high-contrast anomaly in the area. When the

data is truncated at 100RR and replotted the pattern of elevated PbRR at the historic mineralization is detailed and a single sample low-contrast response is observed to be associated with the Southeast Extension Au anomaly.

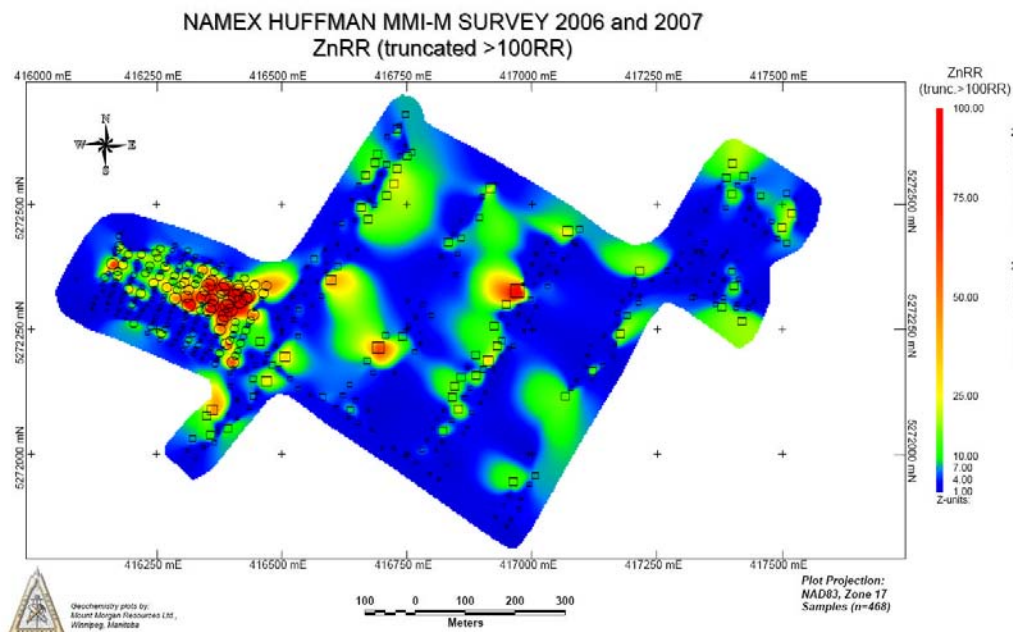
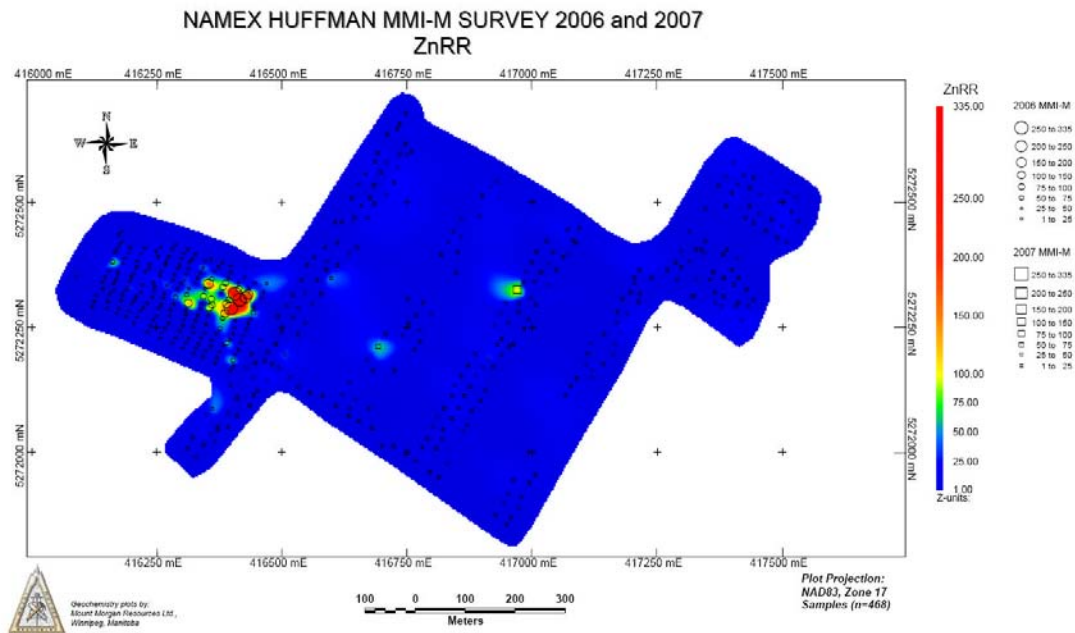


SbRR (1-430RR): Strongly elevated SbRR occurs in the area of historic mineralization as a high-contrast, multi-sample anomaly. This anomaly is sharply focused and does not suggest extensions to the west or southwest. A very low-contrast anomaly is present at the northern edge of the 2007 survey area. Truncated data (>100RR) provide more detail as to the extent and shape of the 2006 anomaly but does little to document additional MMI-M anomalies in the 2007 area east of the known mineralized zone(s).



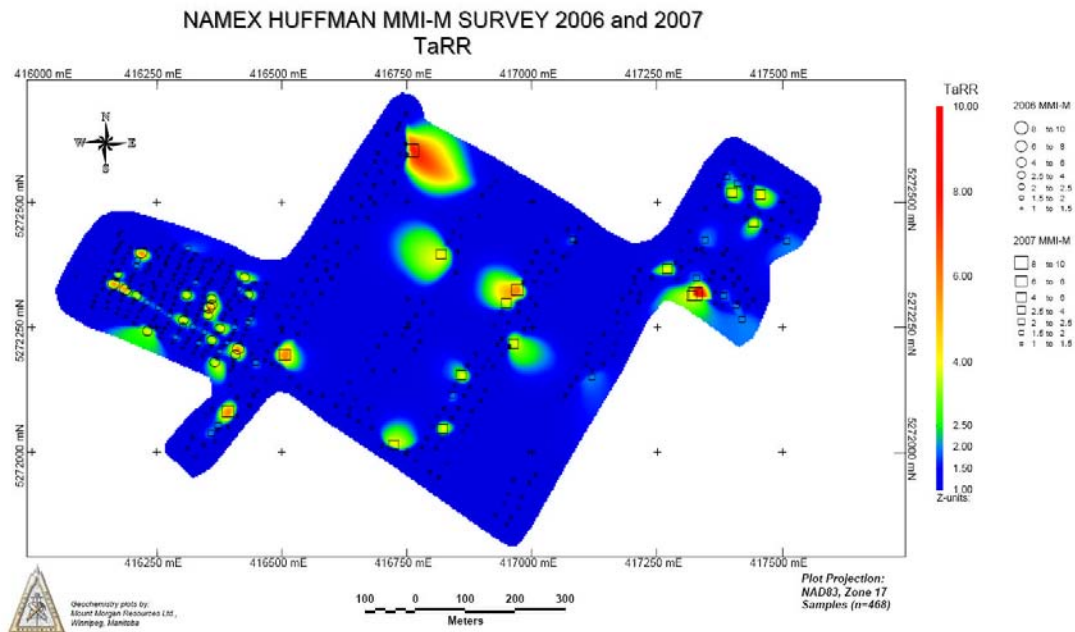


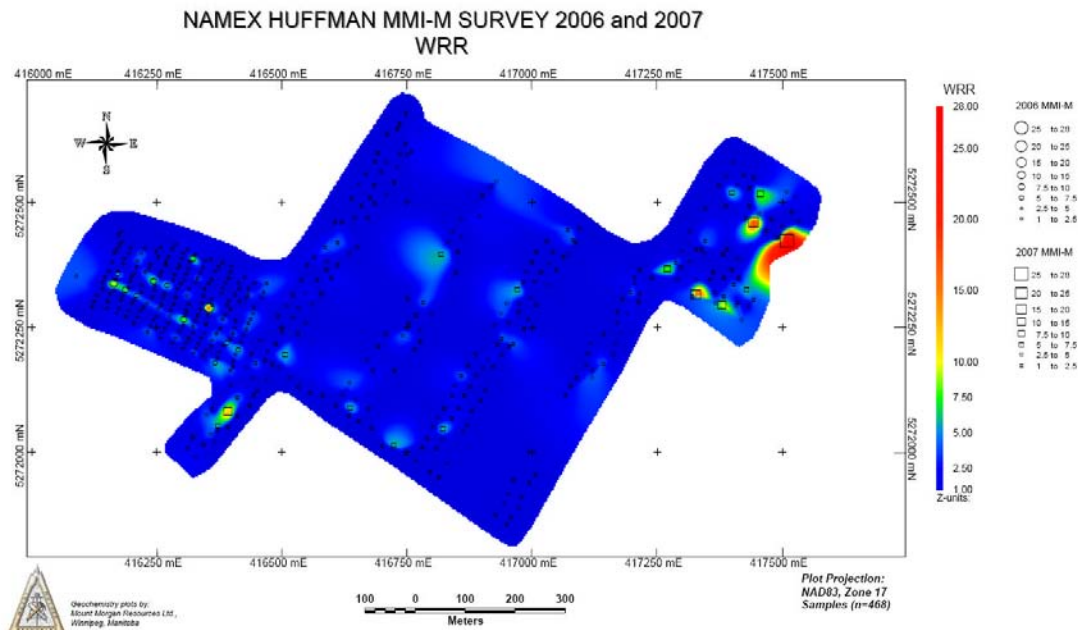
ZnRR (1-335RR): The non-truncated Zn responses are tightly focused on the historic mineralized zone and have maximum response ratios of 335 times background. Away from this anomaly there are no significant trends or patterns of Zn enrichment that are recognized. Truncation of the data (>100RR) elucidates a number of very low-contrast responses with a few high-contrast responses in 1-3 sample anomalies. There is some association of elevated ZnRR with the Southeast Extension Au anomaly.



TaRR (1-10RR) and WRR (1-28RR): Both Ta and W can be used as lithologically sensitive metals capable of detecting geochemical signatures of granitoids and contained mineralization. On the Huffman grid the patterns of response for both elements is characterized by scattered

single sample low- and very low-contrast (<20RR). There appears to be an increased density of very low-contrast Ta responses in and around the multi-element anomaly developed at the historic mineralized zone. This response may be attributed to the presence of quartz-feldspar porphyry intrusion recognized in association with the mineralized zone. Tungsten responses are somewhat higher than those for Ta with maxima of 28RR. The highest W responses occur at the eastern extremity of the 2007 survey area.



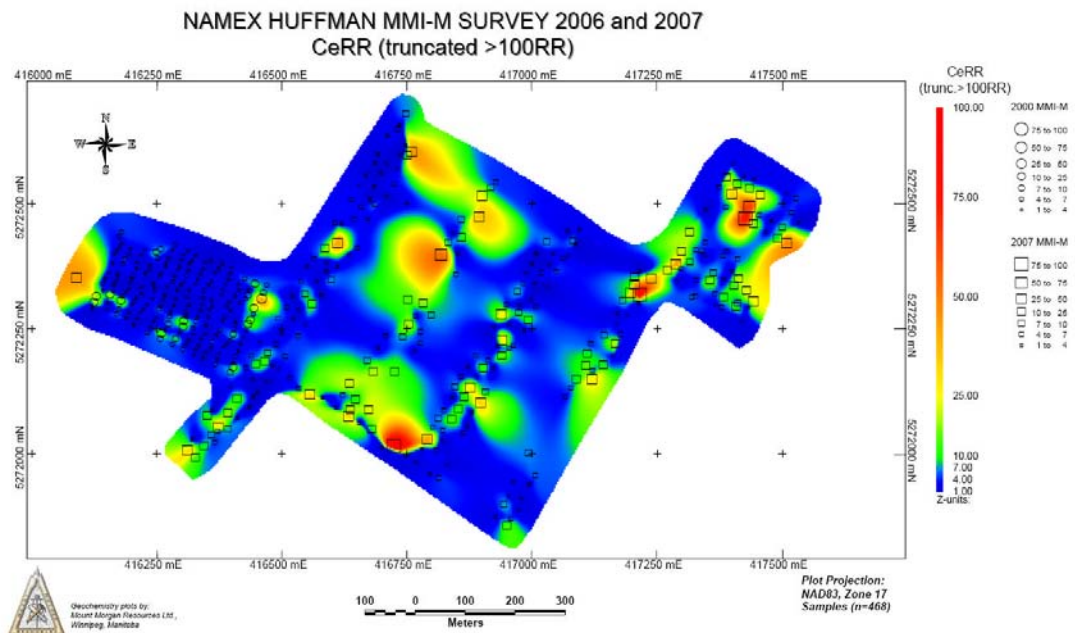
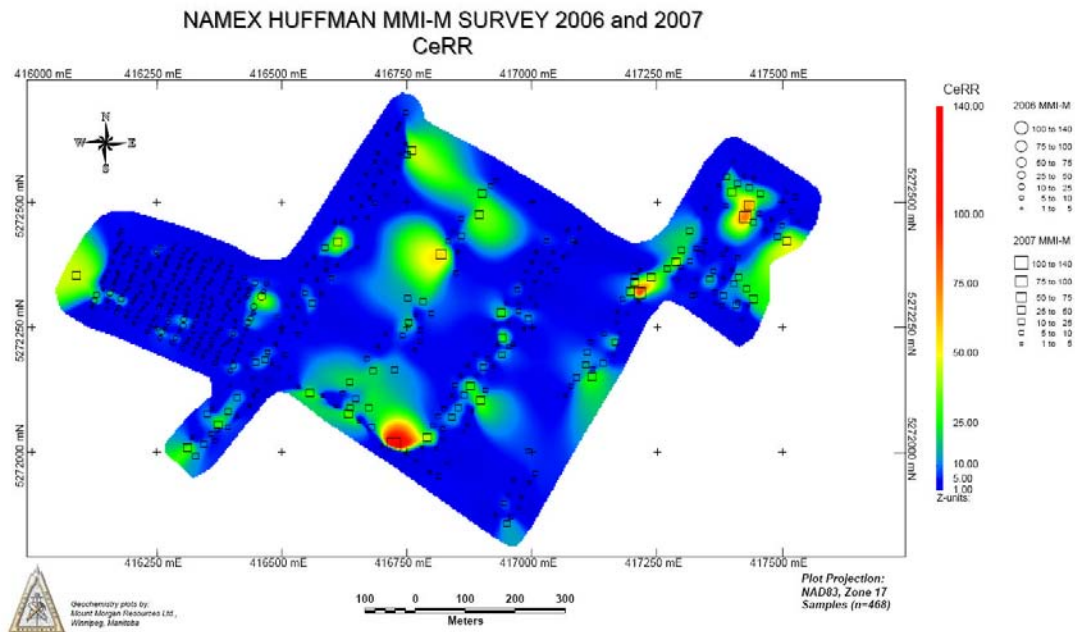


Lithologically Sensitive Element Responses

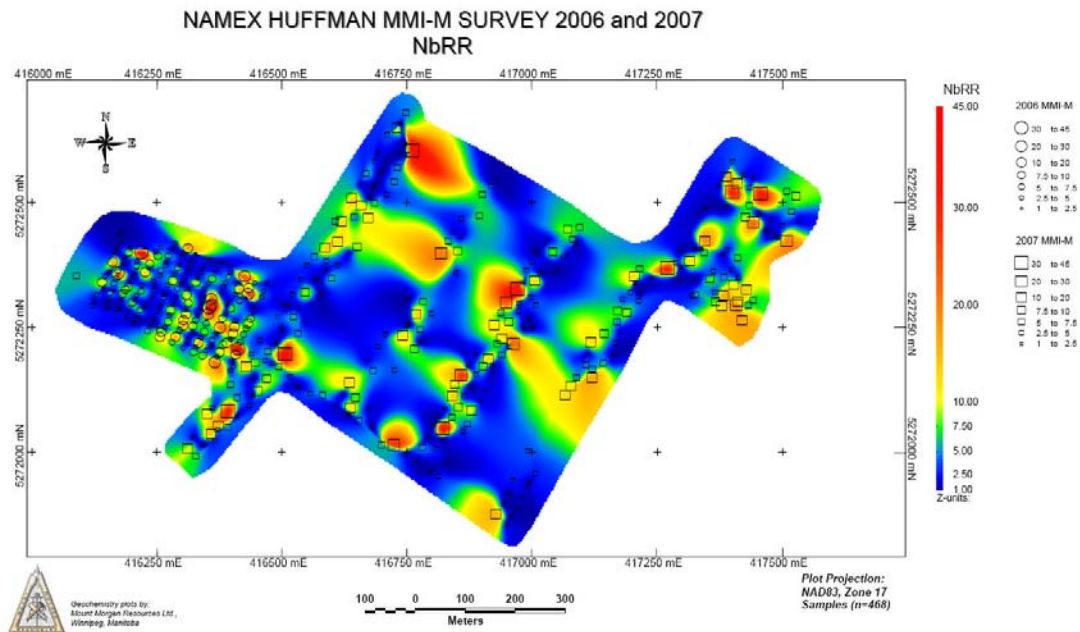
A suite of lithologically sensitive elements is available in the MMI-M suite and these elements provide the opportunity to assess changes in bulk chemistry in bedrock buried by overburden. These metals can differentiate between mafic/ultramafic and felsic lithologies and discriminate kimberlite and carbonatite from other surrounding rocks. In this way the mapping of bedrock geology can be undertaken, MMI-M responses for base and/or precious metals placed in context and a better appreciation for the geological setting of mineralization in the area of interest can be obtained.

CeRR (1-140RR): The light rare earth element Ce can be used to differentiate mafic from felsic lithologies buried by overburden. In the Huffman 2006 and 2007 data set there are no diagnostic

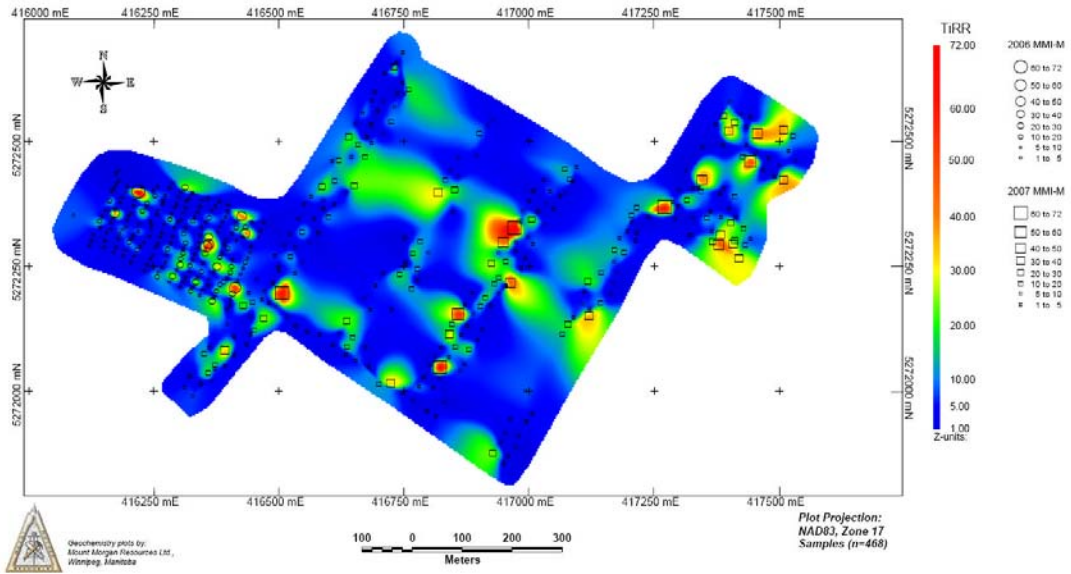
patterns developed and this suggests a similar bulk chemical composition is present in the lithologies that underpin the Huffman survey area. That is, there are no unique lithologies present in the 2006 and 2007 survey areas that have distinctive MMI-M geochemical signatures. This is true for both truncated (>100RR) and non-truncated data.



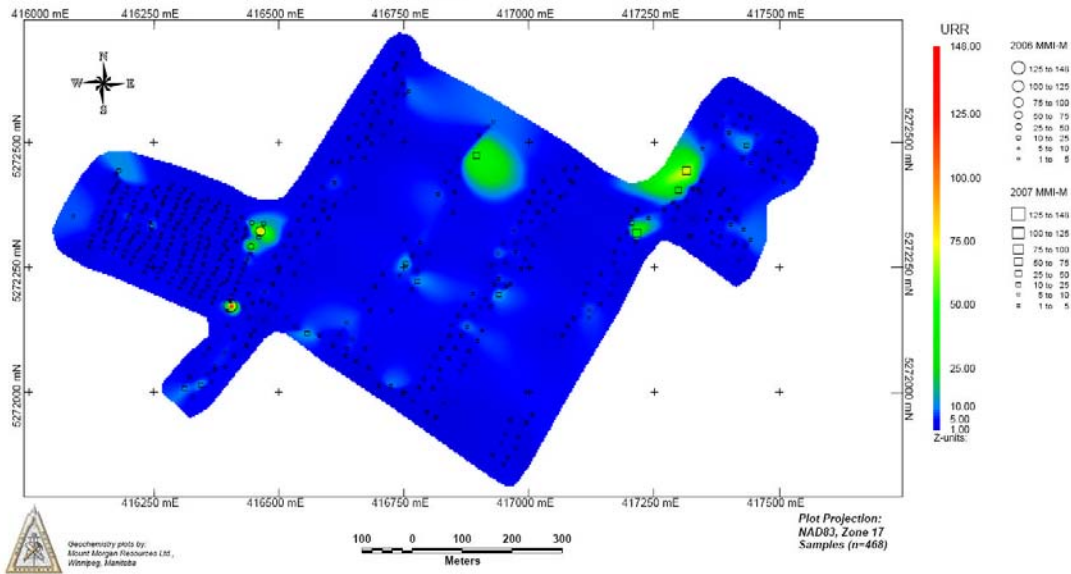
Nb (1-45RR), Ti (1-72RR) and URR (1-148RR): The patterns for each of these three lithologically sensitive metals in the 2006 and 2007 data are similar. The patterns of response are irregularly developed without a specific trend or diagnostic response observed. This is true for both non-truncated and truncated (>100RR) U data and for non-truncated data for Nb and Ti. The similarity in bulk chemical composition between the lithologic units that underpin the 2006 and 2007 Huffman survey area result in a lack of contrast for these three elements. Accordingly, no lithologic discrimination is possible.

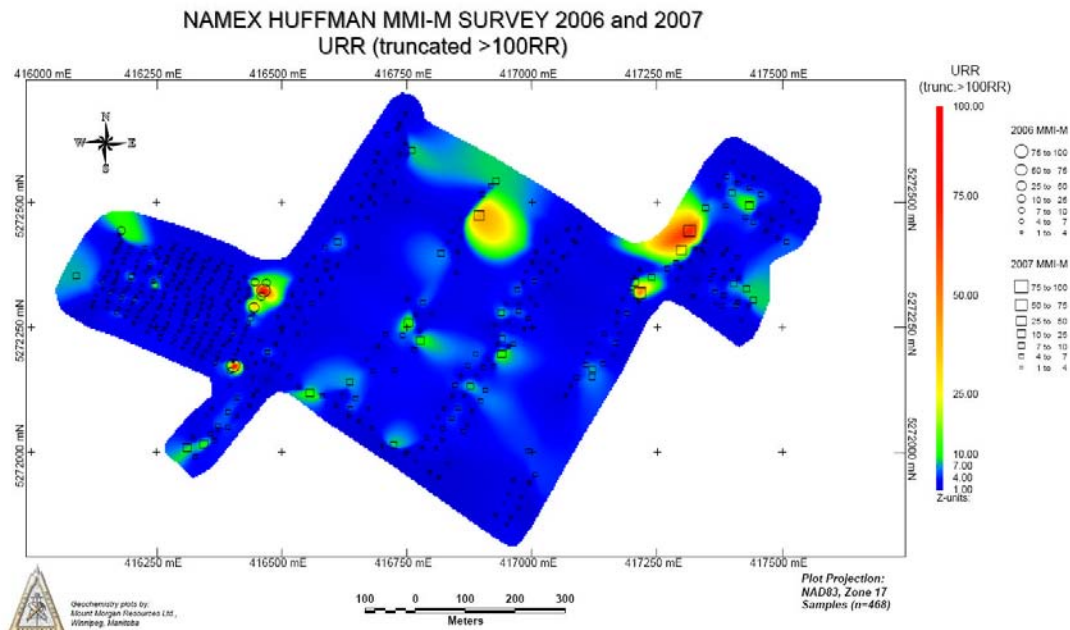


NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007
TiRR



NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007
URR





OBSERVATIONS AND DISCUSSION

Responses In General

The Huffman project area to date is characterized by Mobile Metal Ions (MMI-M) low- to high-contrast responses for a large suite of elements. The 2006 and 2007 Huffman MMI-M survey has successfully delineated a multi-element, low- to high-contrast multi-sample anomaly developed over an area of historic known precious and base metal mineralization. Significant zones of mineralization have been discovered at Huffman subsequent to excavator-assisted removal of overburden (*cf.* Namex News release for September 11, 2007 @ www.namex-explorations.com). Assay results of grab samples from exposed/trenched mineralization include 54.2 g/t Au, 1620 g/t Ag, 8.63% Cu, 12.6% Pb, 2.3% Zn and 5.94% Sb. This provides unequivocal evidence that MMI Technology as applied on the Huffman property to date has successfully fingerprinted known zones of bedrock-hosted precious and base metal mineralization and extrapolations of it. The bulk chemical composition of the overburden-covered bedrock is similar with the result that no discrete or distinctive anomalous response can be discerned – there are no unique lithologies

present in the bedrock underpinning the survey area. This observation has been confirmed by prospecting and geological mapping in the area by the Namex exploration team.

The historic mineralized zone is marked by low- to very high-contrast responses for base and precious metals and includes the assemblage Au, Ag, As, Bi, Pb, Zn, Cd, Co and Mo. The Co responses although somewhat restricted are definitive for the presence of bedrock-hosted iron sulphide minerals. The remainder of the MMI-M suite elements that produce anomalous responses on the survey grid are simply reflecting the presence of bedrock-hosted multi-metal mineralization at Huffman.

Of particular importance in any geochemical exploration survey is the ability to reproduce anomalies in soil at known occurrences. The Huffman surveys have succeeded in this regard and in surveys undertaken in 2006 and 2007 from adjacent survey areas have succeeded in recognizing viable exploration targets based on similar MMI-M anomalies. In particular, the 2007 results indicate that an extension of the known MMI-M base and precious metal anomaly is present along trend from the known or historic mineralized area. The use of response ratios has undoubtedly assisted in the recognition of this anomaly by smoothing analytical responses between the two survey areas.

The Southeast Extension Au anomaly is so named because it occurs along a southeast-trending lineament that is associated with historic known mineralization including the past-producing Jerome Au-Ag Mine and more specifically the known mineralized zones at Huffman. This anomaly comprises significantly elevated Au with associated lesser responses for Cu, Mo, Pb and Zn, a similar metal assemblage noted at the Huffman historic mineralization.

In addition to the Southeast Extension Au anomaly the 2006 data indicates that the main anomaly developed in association with the historic Huffman showings likely extends to the west. Elevated responses for the metals Au, Ag, As, Cu, Bi and Mo are all present at the western extremity of the

2006 survey area. Sampling in this area will be restricted due to the presence of a lake along trend from the anomalies.

An additional multi-element and multi-sample MMI-M anomaly is documented from the survey area in the 2007 data. This anomaly is developed at the northern extremity of the 2007 survey area and comprises elevated responses for Au and Cu and lesser Mo and Zn. This element assemblage is diagnostic of the known mineralization on the property and as such should be given additional exploration consideration. Recommendations to this effect are given in later sections of this report.

A review of the QA/QC data for the HM MMI-M dataset does not indicate the presence of background shifts that might account for poor quality data and a review of the nature of the soil sample description likewise does not indicate a significant change in soil type that would account for this pattern.

Based on the results of analytical duplicates, replicate analyses of MMI standards, analytical blanks, simple linear regression of analytical duplicates, field duplicates and plausible geological explanations for element doublets (Zn-Cd, etc.) the data quality upon which all of the above observations are based is considered to be excellent. This observation is supported by the strong inter-correlation between the REE-an observation that could not be made if inaccurate and non-reproducible analyses were used.

CONCLUSIONS

The following conclusions flow from this MMI-M geochemical survey at the Huffman property of Namex Explorations Inc:

1. The HM survey area is characterized by significant linear, southeast-trending low- to high-contrast precious and base metal anomalies. These include responses associated with the

known mineralized zone and additional new responses not previously recognized. They are as follows:

- (i) Historic Mineralized Zone and Immediate Area: Au, Ag, As, Bi, Cd, Zn, Co, Mo, Pb and Zn
 - (ii) Southeast Extension Au Anomaly: Au, Cu, Mo, Pb and Zn
 - (iii) Western Extension of Known Mineralized Zone: Au, Ag, As, Cu, Bi and Mo
 - (iv) Northern Edge (2007): Au, Cu and lesser Mo and Zn.
2. The Southeastern Extension Au anomaly, Western Extension and Northern Edge anomalies all have characteristic signatures similar to the known mineralized zone at Huffman.
 3. The rocks that underpin the broader survey area are likely dominated by felsic lithologies although lithologic discrimination by lithologically sensitive MMI-M suite elements has proven to be ineffective owing to the similarity in bulk chemical composition between individual units.
 4. The results of the Huffman 2006 and 2007 MMI-M surveys indicate that extensions of the lineament/structure that extends from the past-producing Jerome Mine and extends through the Huffman property and beyond can be successfully explored in overburden covered terrain by the use of MMI-M soil geochemical surveys.
 5. The soil sampling depths assessed by the WL survey indicates that the 10-25 cm sampling depth has produced a quality MMI-M dataset.
 6. Sample spacing was adequate to assess MMI-M Technology response on the grid.

7. The MMI data is of excellent quality based on geologically plausible inter-element correlations, excellent data reproducibility and accuracy. The data quality is not a hindrance to anomaly recognition.
8. The materials sampled for the MMI-M survey are adequate for the definition of *bona fide* geochemical anomalies.

RECOMMENDATIONS

1. An MMI anomalous response does not indicate the depth to source region nor the grade or tonnage of the source region. As such it is highly recommended that prior to a diamond drill test of any MMI-M anomaly, the area be surveyed with a geophysical method that can be modeled. If recent geophysical surveys have already been undertaken then these results should be modeled. The determination of the depth to source region can help define the orientation of the drill hole (declination and inclination). Electromagnetic, magnetic and/or induced polarization methods can be used for this purpose. Induced polarization has also had good success in providing an assessment of the chargeability and resistivity characteristics of the source region responsible for the production of the MMI anomalies.
2. Any further MMI surveys undertaken in this landscape environment must be based on sampling and analytical protocols defined by the original MMI-M orientation survey.
3. Prior to drill testing of anomalies in the survey area integration of geological, geophysical and geochemical data should be undertaken. Historic mineral deposit information from past exploration programs should also be included.
4. Each of the new MMI-M anomalies documented from the Huffman survey area should be assessed by additional MMI-M surveys followed up by a combination of induced polarization

surveys and excavator-assisted overburden removal to expose possible mineralized bedrock. The Northern Edge anomaly and the Southeastern Extension Au anomaly should be re-visited with a more detailed sampling plan including 50 m-wide sampling transects and 25 m-wide sample spacing.

Mark Fedikow Ph.D. P.Eng. P.Geo. C.P.G.

Mount Morgan Resources Ltd.

Winnipeg, Manitoba, CANADA

March 19, 2008

CERTIFICATE of AUTHOR

Mark A.F. Fedikow, HB.Sc., M.Sc., Ph.D., P. Eng. P.Geo. C.P.G.

Consulting Geologist and Geochemist

Mount Morgan Resources Ltd.

50 Dobals Road North

P.O. Box 629

Winnipeg, Manitoba R0E 1A0

Tel: 204-284-6869 cell: 204-998-0271

Email: mfedikow@shaw.ca

I, Mark A.F. Fedikow, HB.Sc., M.Sc., Ph.D., P.Eng. P.Geo., C.P.G., do hereby certify that:

1. I am currently a self-employed Consulting Geologist/Geochemist with an office at:
50 Dobals Road,
P.O. Box 629
Lac du Bonnet, Manitoba, Canada R0E 1A0.
2. I graduated with a degree in Honors Geology (B.Sc.) from the University of Windsor (Windsor, Ont.) in 1975. In addition, I earned a M.Sc. in geophysics and geochemistry from the University of Windsor and a Doctor of Philosophy (Ph.D.) in exploration geochemistry from the School of Applied Geology, University of New South Wales (Sydney, Australia) in 1982.
3. I am a Member of the Association of Professional Engineers and Geoscientists of Manitoba where I am registered as a P.Geo. and P.Eng. I am also a Fellow of the Association of Exploration (Applied) Geochemists, a Member of the Prospectors and Developers Association of Canada and a Certified Professional Geologist registered with the American Institute of Professional Geologists (Westminster, Colorado).

4. I have worked as a geologist for a total of thirty-two years since my graduation from university; as a graduate student, as an employee of major and junior mining companies, the Manitoba Geological Survey and as an independent consultant.
5. I have read the definition of “qualified person” set out in National Instrument 43-101 (“NI 43-101”) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a “qualified person” for the purposes of NI 43-101.
6. I am responsible for the preparation of the technical report titled “Results of A Mobile Metal Ions (MMI-M) Soil Geochemical Survey On The Huffman Property of Namex Explorations Inc.: Interpretations and Recommendations”.
7. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
8. I am independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101.
9. I consent to the filing of the Technical Report with any stock exchanges or other regulatory authority and any publication by them, including electronic publication in the public company files on the web sites accessible by the public, of the Technical Report.

10. Dated this 18th Day of March 2008.

Mark Fedikow
Mount Morgan Resources Ltd.
Winnipeg, Manitoba

Mark Fedikow



Huffman MMI Grid 2007

Grid	Grid	Sample #	UTM N (NAD83)	UTM E (NAD83)	Sample description
4+50E	BL	HM-07-02	5272198	416440	large mossy area; in outcrop
4+75E	BL	HM-07-03	5272184	416467	well drained area; no outcrop; silty texture; beige
5+00E	BL	HM-07-04	5272171	416494	near cleared road; dark coloured (brown); coarse grained; many pebbles
5+25E	BL	HM-07-25	5272151	416517	taken with auger; very wet; outcrop
5+50E	BL	HM-07-26	5272131	416534	outcrop; dry; rusty coloured
5+75E	BL	HM-07-27	5272118	416557	fine grained; wet; dark coloured; clayish
6+00E	BL	HM-07-28	5272113	416582	outcrop to the NE; dry; fine grained; dark coloured
6+25E	BL	HM-07-29	5272092	416609	taken in clear cut area; rusty coloured; damp; fine grained
6+50E	BL	HM-07-30	5272075	416634	rusty; silty texture; wet; duplicate
6+75E	BL	HM-07-31	5272063	416655	rusty-grey; silty texture; dry; underlying rock
7+00E	BL	HM-07-32	5272049	416680	rusty coloured
7+25E	BL	HM-07-33	5272014	416700	rusty-grey; taken in clear-cut area; silty texture
7+50E	BL	HM-07-34	5272014	416724	taken in cleared area; taken with shovel and auger; light coloured; wet; clumpy texture; light grey
7+75E	BL	HM-07-35	5271998	416748	deep organics; wets; silty texture
8+00E	BL	HM-07-36	5271983	416768	ibid
8+25E	BL	HM-07-37	5271961	416797	located on cleared road; sample taken several metres away
8+50E	BL	HM-07-38	5271951	416814	near cleared road; dry; in clear-cut area; rusty coloured; shallow organics
8+75E	BL	no sample	5271934	416835	no sample; swamp
9+00E	BL	no sample	5271908	416863	ibid; no sample
9+25E	BL	no sample	5271906	416881	ibid; no sample
9+50E	BL	no sample	5271891	416889	ibid; no sample
9+75E	BL	HM-07-39	5271875	416928	out of swamp; down slope from outcrop; clumpy texture; wet; grey brown; taken with auger
10+00	BL	HM-07-40	5271856	416950	dry; taken in cleared area; higher ground
4+50E	0+25S	HM-07-41	5272171	416429	sample taken with auger; grey soil; damp; clumps; outcrop; many fallen trees
4+50E	0+50S	no sample	5272143	416415	no sample; thin layers of organics covering rock
4+50E	0+75S	HM-07-42	5272136	416398	ibid
4+50E	1+00S	no sample	5272116	416382	ibid; no sample
4+50E	1+25S	HM-07-43	5272088	416362	sample taken with auger; dry; fine grained; sandy-coloured; within outcrop; moving downslope to S; near fallen tree with exposed root system
4+50E	1+50S	HM-07-44	5272076	416351	in outcrop; beige; damp soil
4+50E	1+75S	HM-07-45	5272030	416322	rusty-brown; flat ground
4+50E	2+00S	HM-07-46	5272008	416312	sample taken with auger; very damp-wet soil; grey black dark coloured; many fallen trees
4+75E	0+12.5S	HM-07-47	5272179	416448	sample taken with auger; underlying rock; shallow layer of organics
4+75E	0+37.5S	HM-07-48	5272150	416443	dry; fine grained; light brown; moving upslope to the S; on edge of outcrop
4+75E	0+62.5S	HM-07-49	5272115	416444	very dry; loose soil; light brown; many 'blocky' rocks; still in outcrop

Huffman MMI Grid 2007

4+75E	0+87.5S	HM-07-50	5272109	416411	damp; grey; many fallen trees; moving downslope to the S away from outcrop
4+75E	1+12.5S	HM-07-51	5272081	416393	large grained; gritty; many pebbles; moving downslope to the S; in outcrop; many floaters (boulders)
4+75E	1+37.5S	HM-07-52	5272053	416373	taken with auger; ibid
4+75E	1+62.5S	HM-07-53	5272037	416359	taken with auger; fine grained; wet; grey brown; moving downslope to the S; many surrounding rocks
4+75E	1+87.5S	HM-07-54	5272015	416345	taken with auger; large grained; many pebbles; damp; grey; moving downslope to the S
4+75E	2+00S	HM-07-55	5271991	416328	taken with auger; fine grained; moving downslope to the S; in outcrop; rocky sublayer
5+00E	0+25S	HM-07-92	5272146	416470	taken with auger; multi-coloured (brown, orange, grey, black); near cleared road; outcrop to the N and W; heading upslope to the S
5+00E	0+50S	HM-07-93	5272123	416451	taken with auger; fine grained; orange brown; near road; in outcrop; going downslope to the S
5+00E	0+75S	HM-07-94	5272094	416436	taken with auger; many organics; dark coloured (grey black); clumpy; in outcrop; downslope to the S
5+00E	1+00S	HM-07-95	5272073	416411	taken with auger; orange; fine grained; dry
5+00E	1+25S	HM-07-96	5272050	416393	light in colour (orange brown); fine grained; dry; slopes to the E
5+00E	1+50S	HM-07-97	5272045	416372	taken with auger; brown; dry; underlying rock; downslope from hill to the E
5+00E	1+75S	HM-07-98	5272022	416366	light brown; ibid
5+00E	2+00S	no sample	5271984	416352	no sample; on outcrop; no soil
4+50E	0+25N	HM-07-05	5272224	416457	sandy soil; dry; near cleared road
4+50E	0+50N	HM-07-06	5272234	416470	rusty brown; dry
4+50E	0+75N	HM-07-07	5272272	416493	ibid
4+50E	1+00N	HM-07-08	5272294	416511	ibid
4+50E	1+25N	HM-07-09	5272316	416522	ibid
4+50E	1+50N	HM-07-10	5272345	416540	ibid
4+50E	1+75N	HM-07-11	5272375	416551	ibid
4+50E	2+00N	HM-07-12	5272390	416565	taken with auger; ibid
4+50E	2+25N	HM-07-13	5272410	416587	orange brown; near decomposing tree
4+50E	2+50N	no sample	5272438	416591	no sample; deep organics only; swamp
4+50E	2+75N	HM-07-15	5272462	416607	very dry; hematitic in colour; taken at base of ridge; northern edge of swamp
4+50E	3+00N	HM-07-16	5272462	416620	light coloured; top of ridge; no outcrop
4+50E	3+25N	HM-07-17	5272510	416640	light in colour; dry
4+50E	3+50N	HM-07-18	5272538	416654	ibid
4+50E	3+75N	HM-07-19	5272558	416668	very fine grained; downslope to the N
4+50E	4+00N	HM-07-20	5272583	416687	dry; fine grained
4+50E	4+25N	HM-07-21	5272600	416692	dark and rusty coloured; rocky ground
4+50E	4+50N	HM-07-22	5272637	416711	light coloured; many mushrooms present
4+50E	4+75N	HM-07-23	5272650	416731	fine grained; light coloured (white-grey); large surrounding boulders; nearing the lake
4+50E	5+00N	HM-07-24	5272680	416748	very light coloured (white-grey); at edge of lake
4+75E	0+12.5N	HM-07-56	5272201	416472	taken with auger; wet; fine grained; near cleared road; many pebbles; next to outcrop
4+75E	0+37.5N	HM-07-57	5272218	416489	taken with auger; fine grained; moist; brown grey; near excavated area and road; shallow layer of organics; many floaters
4+75E	0+62.5N	HM-07-58	5272242	416500	taken with auger; very dry; fine grained; near excavated area; shallow organics; moving downslope to the N; light coloured

Huffman MMI Grid 2007

4+75E	0+87.5N	HM-07-59	5272270	416524	ibid
4+75E	1+12.5N	HM-07-60	5272289	416534	ibid; duplicate sample
4+75E	1+37.5N	HM-07-61	5272319	416547	ibid; more grey in colour; damp
4+75E	1+62.5N	HM-07-62	5272344	416571	same as sample #60; taken with auger
4+75E	1+87.5N	HM-07-63	5272367	416589	fine grained; loose; damp; moving downslope to the N; taken with auger
4+75E	2+12.5N	HM-07-64	5272383	416590	ibid; very dry
4+75E	2+37.5N	HM-07-65	5272421	416612	silty; grey; many pebbles; coarse grained; wet; moving downslope to the N; taken with auger
4+75E	2+62.5N	no sample	5272446	416633	no sample; only organics
4+75E	2+87.5N	HM-07-66	5272470	416645	taken with auger; coarse grained; dark coloured; pebbles; moving uphill to the N; into outcrop; out of swamp
4+75E	3+12.5N	HM-07-67	5272494	416659	very dry; fine grained; on top of slope moving to the N; in outcrop; pebbles; taken with auger
4+75E	3+37.5N	HM-07-68	5272511	416676	ibid; no pebbles
4+75E	3+62.5N	HM-07-69	5272535	416685	ibid; moving downslope
4+75E	3+87.5N	HM-07-70	5272563	416698	ibid
4+75E	4+12.5N	HM-07-71	5272581	416710	ibid
4+75E	4+37.5N	HM-07-72	5272598	416737	ibid; approaching lake
4+75E	4+62.5N	HM-07-73	5272619	416747	
4+75E	4+75N	HM-07-74	5272659	416736	end of the line at the lake; very dark coloured (black brown); in outcrop; very loose; moving downslope to the N towards lake; taken with auger
5+00E	0+25N	HM-07-75	5272195	416507	very fine grained; very dry; silty; near cleared road; many fallen trees; taken with auger
5+00E	0+50N	HM-07-91	5272178	416481	very fine grained; dry; light brown; loose; heading downslope to the N; taken with auger
5+00E	0+75N	HM-07-90	5272236	416533	ibid; orange brown; duplicate
5+00E	1+00N	HM-07-89	5272260	416548	brown; larger grained; dry; heading downslope to the N into a swamp; taken with auger
5+00E	1+25N	HM-07-88	5272298	416561	underlying rock; swamp-like ground; fine grained; dry; orange brown; taken with auger
5+00E	1+50N	HM-07-87	5272317	416579	ibid
5+00E	1+75N	HM-07-86	5272349	416599	ibid
5+00E	2+00N	HM-07-85	5272375	416612	fine grained; dry; orange brown; taken with auger
5+00E	2+25N	HM-07-84	5272399	416635	very shallow organics; very fine grained; dry; light coloured; moving downhill to the N; taken with auger
5+00E	2+50N	HM-07-83	5272411	416651	bottom third of sample is very dark coloured (black); muddy; top 2/3 is more dry; taken in swamp-like area; hill to N; large layer of organics; taken with auger
5+00E	2+75N	no sample	5272444	416661	no sample; rock underlying layer of organics; swamp-like; to the S of outcrop
5+00E	3+00N	HM-07-82	5272470	416673	fine grained; loose; dry; light coloured; in outcrop; heading uphill to the N; taken with auger
5+00E	3+25N	HM-07-81	5272499	416686	ibid
5+00E	3+50N	HM-07-80	5272517	416710	very dry; fine grained; on a slope; underlying rock; taken with auger
5+00E	3+75N	HM-07-79	5272541	416725	very dry; fine grained; moving downslope to the N; underlying rock; shallow layer of organics; taken with auger
5+00E	4+00N	HM-07-78	5272571	416731	ibid; silty; orange
5+00E	4+25N	HM-07-77	5272596	416751	fine grained; dry; orange brown; lake is to the NE; outcrop to the W; moving downslope towards the lake; taken with auger
5+00E	4+50N	HM-07-76	5272604	416760	very dark coloured; wet; outcrop to the W; at edge of lake; large and coarse grained
6+25E	0+25N	HM-07-99	5272117	416622	brown; fine grained; some moisture; taken in cleared field; in outcrop; moving downhill to the N
6+25E	0+50N	HM-07-100	5272140	416636	taken with auger; light brown; gritty in texture; some organics; wet; moving downhill to the N

Huffman MMI Grid 2007

6+25E	0+75N	no sample	5272163	416661	no sample; in swamp; mush water
6+25E	1+00N	HM-07-101	5272186	416671	out of swamp; moving uphill to the N; in outcrop; many fallen trees; brown; dry; fine grained
6+25E	1+25N	HM-07-102	5272213	416693	ibid
6+25E	1+50N	HM-07-103	5272236	416708	moving downhill to the N; in outcrop; light brown; dry; fine grained
6+25E	1+75N	no sample	5272247	416726	no sample; organics on underlying rocks
6+25E	2+00N	no sample	5272264	416734	ibid
6+25E	2+25N	HM-07-104	5272308	416752	taken with auger; orange brown; many underlying rocks; deep organics; fine grained; dry
6+25E	2+50N	no sample	5272313	416771	no sample; rock underlying swamp
6+25E	2+75N	no sample	5272347	416792	no sample; deep organics in swamp
6+25E	3+00N	no sample	5272381	416807	ibid; no sample
6+25E	3+25N	HM-07-105	5272397	416819	out of swamp; moving uphill to the N; wet; light brown; gritty
6+25E	3+50N	HM-07-106	5272423	416833	very fine grained; very dry; loose; light brown; on top of slope moving downhill to the N; taken with auger
6+25E	3+75N	HM-07-107	5272443	416843	taken with auger; wet; moving downhill to the N; underlying rock; orange brown; many pebbles; gritty
6+25E	4+00N	HM-07-108	5272468	416859	orange brown; some moisture; many pebbles; clumpy; gritty; many underlying rocks; approaching lake to the N
6+25E	4+25N	no sample	5272499	416884	no sample; organics on rock
6+25E	4+50N	HM-07-109	5272516	416901	very fine grained; very light in colour (brown beige); very dry; next to lake
6+25E	4+75N	HM-07-110	5272533	416918	ibid
6+25E	5+00N	HM-07-111	5272543	416929	last sample at edge of lake; taken with auger; very wet; black blue, green and grey; gritty; some organics; many pebbles; large outcrop to the W; underlying rock
6+50E	0+12.5N	HM-07-112	5272088	416637	taken in cleared area near baseline; wet; grey brown; gritty; many pebbles; coarse grained
6+50E	0+37.5N	HM-07-113	5272107	416648	damp soil; brown; fine grained; taken in cleared area
6+50E	0+62.5N	no sample	5272139	416668	no sample; in swamp; rock below swamp
6+50E	0+87.5N	HM-07-114	5272163	416683	fine grained; very wet; brown grey; moving uphill to the N
6+50E	1+12.5N	no sample	5272175	416706	no sample; on outcrop; no soil
6+50E	1+37.5N	no sample	5272213	416717	ibid; no sample
6+50E	1+62.5N	HM-07-115	5272234	416742	taken with auger; grey brown; fine grained; wet; moving downhill to the N; in outcrop; underlying rock
6+50E	1+87.5N	HM-07-116	5272258	416754	damp; dark grey; clumpy
6+50E	2+12.5N	HM-07-117	5272276	416768	taken with auger; dark coloured; coarse grained; damp soil; many organics; outcrop to the N
6+50E	2+37.5N	HM-07-118	5272301	416783	taken with auger; moving downhill into swamp-like area; very wet; fine grained; many pebbles
6+50E	2+62.5N	no sample	5272331	416799	no sample; in swamp; only organics
6+50E	2+87.5N	no sample	5272357	416812	ibid; no sample
6+50E	3+12.5N	no sample	5272377	416829	ibid; no sample
6+50E	3+37.5N	HM-07-119	5272402	416852	out of swamp; outcrop to the N and W; very dry; rusty; deep organics; many rocks
6+50E	3+62.5N	HM-07-120	5272433	416859	very dark in colour; gritty; coarse grained; outcrop to the W; deep organics; approaching lake to N; duplicate
6+50E	3+87.5N	no sample	5272448	416878	no sample; organics on rocks
6+50E	4+12.5N	HM-07-121	5272474	416895	at edge of lake; outcrop to the W; many rocks; deep organics; coarse grained; black blue grey; wet; gritty; taken with auger
6+75E	0+25N	HM-07-122	5272088	416674	taken with auger; in cleared area; fine grained; wet; brown grey; slightly gritty
6+75E	0+50N	no sample	5272116	416688	no sample; swamp and deep organics

Huffman MMI Grid 2007

6+75E	0+75N	no sample	5272144	416710	no sample; ibid
6+75E	1+00N	HM-07-123	5272164	416726	fine grained; very wet; brown; taken in cleared area; out of swamp; moving uphill to the N
6+75E	1+25N	no sample	5272185	416746	no sample; in outcrop; no soil
6+75E	1+50N	HM-07-124	5272206	416766	taken with auger; away from outcrop; fine grained; wet; moving downhill to the N; brown grey
6+75E	1+75N	HM-07-125	5272223	416777	very wet; dark coloured; many organics; fine grained; moving downhill away from outcrop; taken with auger
6+75E	2+00N	HM-07-126	5272245	416777	very fine grained; very dry; orange grey; away to the N from outcrop
6+75E	2+25N	HM-07-127	5272278	416799	rusty grey; coarse grained; moving downhill to the N; some pebbles
6+75E	2+50N	no sample	5272298	416819	no sample; deep organics in swamp
6+75E	2+75N	no sample	5272316	416833	no sample; ibid
6+75E	3+00N	HM-07-128	5272359	416848	wet; fine grained; brown; deep organics; still in swamp
6+75E	3+25N	no sample	5272381	416864	no sample; in swamp; deep organics
6+75E	3+50N	no sample	5272413	416881	no sample; ibid
6+75E	3+75N	no sample	5272401	416879	no sample; on outcrop and in swamp; deep organics
6+75E	4+00N	no sample	5272460	416909	no sample; deep organics; at edge of lake
8+00E	0+25N	HM-07-129	5272009	416781	taken with auger; in cleared area; coarse grained; brown orange; many rocks; near cleared road
8+00E	0+50N	HM-07-131	5272029	416791	taken with auger; brown orange; coarse grained; moist; moving uphill to the N; many rocks; underlying rock
8+00E	0+75N	HM-07-133	5272053	416802	taken with auger; light brown; fine grained; damp; shallow organics; outcrop; still in cleared area
8+00E	1+00N	HM-07-135	5272071	416813	ibid; many pebbles
8+00E	1+25N	HM-07-137	5272087	416824	taken with auger; fine grained; orange brown; damp; deep organics; taken in cleared area
8+00E	1+50N	HM-07-139	5272113	416841	taken with auger; coarse grained; taken in cleared area; outcrop; many rocks; damp; brown; thin layer of organics
8+00E	1+75N	HM-07-141	5272134	416846	taken with auger; on outcrop; many organics; many rocks; wet; brown; moving downhill to the N
8+00E	2+00N	HM-07-143	5272154	416859	on outcrop; fine grained; grey brown; damp; moving downhill to the N
8+00E	2+25N	HM-07-145	5272174	416872	on outcrop; fine grained; orange brown; wet; many pebbles; moving downhill to the N
8+00E	2+50N	HM-07-147	5272197	416888	taken with auger; in outcrop; downhill to the N; brown; fine grained
8+00E	2+75N	no sample	5272214	416901	no sample; in water and swamp
8+00E	3+00N	no sample	5272228	416910	no sample; shallow organics on rock
8+00E	3+25N	HM-07-149	5272255	416925	taken with auger; dry; grey orange; fine grained; thin layer of organics; underlying rock
8+00E	3+50N	HM-07-151	5272279	416939	very fine grained; very dry; light brown; underlying rock; moving upslope to the N
8+00E	3+75N	HM-07-153	5272299	416949	ibid
8+00E	4+00N	HM-07-155	5272325	416971	ibid
8+00E	4+25N	HM-07-157	5272341	416983	ibid
8+00E	4+50N	HM-07-159	5272364	416988	ibid
8+00E	4+75N	HM-07-161	5272381	417001	taken with auger; dry; fine grained; orange rusty; underlying rock; heading downhill to the N towards lake
8+00E	5+00N	HM-07-163	5272403	417009	ibid
8+00E	5+25N	HM-07-165	5272424	417030	taken with auger; moving downhill to the N; coarse grained; rusty brown; at edge of lake; underlying rock
8+25E	0+12.5N	no sample	5271981	416799	no sample; disturbed ground due to road construction
8+25E	0+37.5N	HM-07-130	5272008	416809	taken in clearcut area; cleared road to the E; near a pond

Huffman MMI Grid 2007

8+25E	0+62.5N	HM-07-132	5272026	416821	taken with auger; in clearcut area; pond to the E
8+25E	0+87.5N	HM-07-134	5272046	416822	ibid
8+25E	1+12.5N	HM-07-136	5272069	416840	taken with auger; wet; in clearcut area
8+25E	1+37.5N	HM-07-138	5272089	416853	taken with auger; in clearcut area
8+25E	1+62.5N	HM-07-140	5272113	416865	taken with auger
8+25E	1+87.5N	HM-07-142	5272132	416877	ibid
8+25E	2+12.5N	HM-07-144	5272156	416889	wet soil; to the E of outcrop
8+25E	2+37.5N	HM-07-146	5272170	416903	ibid
8+25E	2+62.5N	HM-07-148	5272186	416913	lower ground in clearcut area; at the edge of the bush; wet soil
8+25E	2+87.5N	HM-07-150	5272216	416931	dry soil; light coloured; duplicate
8+25E	3+12.5N	HM-07-152	5272227	416940	ibid
8+25E	3+37.5N	HM-07-154	5272260	416954	ibid
8+25E	3+62.5N	HM-07-156	5272283	416974	ibid
8+25E	3+87.5N	HM-07-158	5272298	416975	ibid; taken with auger
8+25E	4+12.5N	HM-07-160	5272310	416998	ibid
8+25E	4+37.5N	HM-07-162	5272343	417006	dry; light coloured soil
8+25E	4+62.5N	HM-07-164	5272362	417018	dry; rusty coloured soil
8+25E	4+87.4N	HM-07-166	5272379	417034	dry; light coloured, powder-like soil
8+25E	5+12.5N	HM-07-168	5272400	417042	ibid
8+25E	5+37.5N	HM-07-170	5272420	417088	ibid
8+25E	5+62.5N	HM-07-172	5272446	417072	ibid; at edge of lake
8+50E	0+25N	HM-07-167	5271978	416832	bear cleared road; in cleared area; in outcrop; many rocks; rusty orange
8+50E	0+50N	no sample	5271998	416837	no sample; in swamp; deep organics; at cleared road
8+50E	0+75N	no sample	5272018	416850	no sample; ibid
8+50E	1+00N	NM-07-169	5272042	416863	taken with auger; fine grained; many organics; wet; on outcrop; near swamp; near cleared road; orange brown
8+50E	1+25N	HM-07-171	5272056	416871	taken with auger; out of swamp; on outcrop; grey brown; in cleared area; wet
8+50E	1+50N	HM-07-173	5272083	416880	ibid
8+50E	1+75N	HM-07-175	5272102	416898	on outcrop; orange brown; damp; underlying rock; taken in cleared area
8+50E	2+00N	HM-07-177	5272124	416907	on outcrop; grey brown; wet; underlying rock; deep organics
8+50E	2+25N	HM-07-179	5272172	416923	ibid
8+50E	2+50N	no sample	5272172	416936	no sample; outcrop; no soil
8+50E	2+75N	HM-07-181	5272195	416940	taken with auger; fine grained; dry; rusty orange; underlying rock; moving uphill to the N out of outcrop
8+50E	3+00N	HM-07-183	5272212	416955	taken with auger; fine grained; underlying rock; rusty orange; moving uphill to the N out of outcrop
8+50E	3+25N	HM-07-185	5272217	416963	dry; fine grained; light brown; underlying rock
8+50E	3+50N	HM-07-187	5272248	416985	ibid
8+50E	3+75N	HM-07-189	5272267	416993	ibid
8+50E	4+00N	HM-07-191	5272295	417008	ibid

Huffman MMI Grid 2007

8+50E	4+25N	no sample	5272317	417000	no sample; organics on rock
8+50E	4+50N	HM-07-193	5272335	417032	taken with auger; fine grained; dry; light brown; underlying rock
8+50E	4+75N	HM-07-195	5272365	417049	ibid
8+50E	5+00N	HM-07-197	5272392	417063	ibid
8+50E	5+25N	HM-07-199	5272399	417073	ibid
8+50E	5+50N	HM-07-201	5272426	417082	ibid; many pebbles; moving downhill to the N towards the lake
8+50E	5+75N	HM-07-203	5272450	417095	ibid; at the edge of the lake
9+75E	0+25N	HM-07-174	5271898	416944	silty; light coloured soil; no pebbles; moving uphill to the N; on flat part of hill
9+75E	0+50N	HM-07-176	5271916	416954	ibid
9+75E	0+75N	HM-07-178	5271944	416963	taken with auger; taken on top of cliff; moving downhill into a swamp
9+75E	1+00N	no sample	n/a	n/a	no sample; in wet swamp
9+75E	1+25N	no sample	n/a	n/a	no sample; on outcrop; no soil
9+75E	1+50N	HM-07-180	5272002	416993	taken with auger; flat bedrock; light coloured; clay-like soil
9+75E	1+75N	no sample	n/a	n/a	no sample; wet swamp
9+75E	2+00N	no sample	n/a	n/a	ibid; no sample
9+75E	2+25N	no sample	n/a	n/a	no sample; flat outcrop; no soil; swamp to the S
9+75E	2+50N	no sample	n/a	n/a	no sample
9+75E	2+75N	HM-07-182	5272114	417067	taken with auger; disturbed area; near cleared road
9+75E	3+00N	HM-07-184	5272133	417078	in clearcut area; cleared road to the S
9+75E	3+25N	HM-07-186	5272149	417089	light coloured; dry; sandy soil; in bush; out of clearcut area
9+75E	3+50N	HM-07-188	5272175	417108	ibid
9+75E	3+75N	HM-07-190	5272200	417111	ibid; few pebbles
9+75E	4+00N	HM-07-192	5272220	417118	light coloured; dry; sandy soil; no pebbles
9+75E	4+25N	HM-07-194	5272237	417145	coarse soil; dark brown; many pebbles
9+75E	4+50N	HM-07-196	5272260	417170	ibid
9+75E	4+75N	HM-07-198	5272283	417171	fine grained; dry; light coloured; silty texture
9+75E	5+00N	HM-07-200	5272307	417181	coarse grained; dry; few pebbles
9+75E	5+25N	HM-07-202	5272321	417197	light coloured (beige); many large rock
9+75E	5+50N	HM-07-204	5272352	417205	deep organics; coarse grained; many pebbles; light coloured
9+75E	5+75N	HM-07-206	5272367	417216	fine grained; silty texture; some sand
9+75E	6+00N	no sample	5272390	417232	no sample; at edge of lake
10+00E	0+12.5N	HM-07-205	5271870	416958	taken with auger; damp; coarse grained; orange brown; underlying rock; taken on cleared slope
10+00E	0+37.5N	HM-07-207	5271889	416975	ibid
10+00E	0+62.5N	HM-07-209	5271912	416979	ibid
10+00E	0+87.5N	HM-07-211	5271940	416995	dark rusty brown; fine grained; dry; moving downhill to the N; underlying rock
10+00E	1+12.5N	HM-07-213	5271956	417007	taken with auger; very wet; brown; gritty texture; downslope from the cleared area; outcrop to the S
10+00E	1+37.5N	no sample	5271978	417014	no sample; in swamp

Huffman MMI Grid 2007

10+00E	1+62.5N	no sample	5272005	417025	ibid
10+00E	1+87.5N	no sample	5272012	417037	ibid
10+00E	2+12.5N	no sample	5272031	417044	ibid
10+00E	2+37.5N	no sample	5272060	417060	ibid
10+00E	2+62.5N	no sample	5272078	417078	ibid
10+00E	2+87.5N	no sample	5272105	417091	ibid
10+00E	3+12.5N	no sample	5272130	417103	ibid; in swamp; at edge of cleared road; no soil
10+00E	3+37.5N	HM-07-215	5272150	417120	taken with auger; moist; grey brown; gritty; out of swamp; near cleared road
10+00E	3+62.5N	HM-07-217	5272166	417121	taken with auger; fine grained; light coloured; N from the cleared road; dry; moving downhill to the N
10+00E	3+87.5N	HM-07-219	5272177	417143	fine grained; rusty orange; dry
10+00E	4+12.5N	HM-07-221	5272195	417163	ibid
10+00E	4+37.5N	HM-07-223	5272219	417167	dark coloured; wet; clumpy; fine grained; deep organics
10+00E	4+62.5N	HM-07-225	5272240	417177	taken with auger; dry; light coloured; many rocks; deep organics
10+00E	4+87.4N	HM-07-227	5272278	417190	ibid
10+00E	5+12.5N	HM-07-229	5272303	417213	ibid
10+00E	5+37.5N	HM-07-231	5272318	417216	coarse grained; dark coloured; moist; gritty; many rocks
10+00E	5+62.5N	HM-07-233	5272339	417205	ibid; not as wet
10+00E	5+87.5N	HM-07-235	5272350	417239	ibid; approaching lake

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
DETECTION	1	1	10	0.1	10	1	10	10	
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	
HM-07-76		4 >300		30	0.2	750	5	70	10
HM-07-77		1	213	10	0.1	300 <1		10 <10	
HM-07-78		8 >300		10 <0.1		510 <1		30	10
HM-07-79		26 >300	<10	<0.1		330 <1	<10		10
HM-07-80		11 >300	<10	<0.1		450 <1	<10	<10	
HM-07-81		7 >300	<10	<0.1		870 <1		10 <10	
HM-07-82		15 >300		30 <0.1		1190 <1		30	20
HM-07-83		3 >300	<10	<0.1		440 <1	<10	<10	
HM-07-84		25	246 <10	<0.1		250 <1	<10	<10	
HM-07-85		11 >300		10 <0.1		710 <1		10	20
HM-07-86		12 >300		10 <0.1		920	1	40 <10	
HM-07-87		10	211 <10	<0.1		330 <1	<10	<10	
HM-07-88		9	233 <10		0.6	420 <1		10 <10	
HM-07-89		9	223 <10		0.2	420 <1		60 <10	
HM-07-90		14	284 <10		0.1	280 <1	<10	<10	
HM-07-90		14	287 <10	<0.1		280 <1	<10	<10	
HM-07-91		14	273 <10	<0.1		360 <1	<10	<10	
HM-07-92		9 >300	<10	<0.1		1000 <1		80	10
HM-07-93 <1		>300		10	0.2	430 <1	<10	<10	
HM-07-94		1	296 <10	<0.1		130 <1	<10	<10	
HM-07-95		23	232 <10		0.1	110 <1	<10	<10	
HM-07-96		6 >300		10	0.2	680 <1	<10		30
HM-07-97		12 >300	<10		0.1	480 <1		20	10
HM-07-98		15	294	10	0.1	200 <1	<10	<10	
HM-07-99		6 >300	<10		0.2	270 <1	<10		10
HM-07-100		4 >300		10	0.2	1170 <1		40 <10	
HM-07-101		4	294 <10		0.4	160 <1		20 <10	
HM-07-102		19 >300	<10		0.7	320 <1		20	20
HM-07-103		17 >300	<10		1.1	660 <1		50	20
HM-07-104		8	103 <10		0.2	230 <1	<10	<10	
HM-07-105		3	194	20	0.3	650	1	20 <10	
HM-07-106		14	288	10	0.3	300 <1	<10	<10	
HM-07-107		4	246 <10	<0.1		320 <1	<10	<10	
HM-07-108		7 >300	<10		0.1	490 <1	<10	<10	
HM-07-109		25	257	20	0.3	1850	1	40 <10	
HM-07-110		4 >300		10	1.9	840 <1		20	20
HM-07-111		7	86	20	1.4	560 <1		390	10
HM-07-112		6 >300		20	0.2	910	1	40 <10	
HM-07-113		6 >300		10	0.2	670 <1		20 <10	
HM-07-114		2	242	10	0.3	790 <1		130 <10	
HM-07-115		17 >300		30	2	910	2	110 <10	
HM-07-116		20	37 <10		1.2	1630 <1		370 <10	
HM-07-117		2 >300	<10	<0.1		530 <1		20 <10	
HM-07-118		5 >300		10	0.4	660 <1		10 <10	
HM-07-119		3 >300		20 <0.1		620 <1		20 <10	
HM-07-120		2	64 <10	<0.1		1300 <1		330 <10	

HM-07-120	3	66 <10		0.1	1360 <1		430 <10	
HM-07-121	7	80	60	1.3	1100	3	300	20
HM-07-122	9	188 <10		0.2	300 <1		160 <10	
HM-07-123	2	252 <10		0.3	430 <1		100 <10	
HM-07-124	17	>300	20	1.2	500	1	40 <10	
HM-07-125	9	96 <10		2.4	980 <1		230 <10	
HM-07-126	13	>300	20 <0.1		1270 <1		50 <10	
HM-07-127	11	>300 <10	<0.1		290 <1		10 <10	
HM-07-128 <1		>300	10	0.2	540 <1	<10	<10	
HM-07-129	8	>300 <10	<0.1		310 <1	<10	<10	
HM-07-130	13	259 <10	<0.1		440 <1		20 <10	
HM-07-131	5	105 <10		0.4	170 <1		10 <10	
HM-07-132	8	84 <10		0.1	100 <1	<10	<10	
HM-07-133	25	95 <10		0.2	810 <1		60 <10	
HM-07-134	4	250	100 <0.1		990	5	60 <10	
HM-07-135	10	120 <10		0.2	200 <1		70 <10	
HM-07-136	2	>300	30	0.1	550 <1		60 <10	
HM-07-137	19	>300 <10		0.1	370 <1	<10	<10	
HM-07-138	3	>300	20	0.1	600	1	60	10
HM-07-139	3	>300	10	0.2	370 <1		10 <10	
HM-07-140	4	>300 <10		0.2	390 <1		30 <10	
HM-07-141	1	>300	30	0.4	570	2	50 <10	
HM-07-142	6	14 <10		1	2140 <1		330 <10	
HM-07-143	3	>300	50	0.4	1070	2	30 <10	
HM-07-144	8	>300	20	1.5	300 <1		10 <10	
HM-07-145	4	217	20	6.7	300 <1	<10	<10	
HM-07-146	7	223	20	0.4	770	2	200 <10	
HM-07-147	4	276 <10		1.4	280 <1		50 <10	
HM-07-148	5	211	20	0.3	1230	2	180 <10	
HM-07-149	5	>300	20 <0.1		950 <1		30 <10	
HM-07-150	3	>300	20 <0.1		620	1	10	20
HM-07-151	39	269	10	0.7	1460 <1		40 <10	
HM-07-152	7	>300	20	0.5	3780	2	100 <10	
HM-07-153	21	>300	20 <0.1		1680	2	20	40
HM-07-154	17	>300 <10	<0.1		890 <1		10 <10	
HM-07-155	45	>300	80 <0.1		2050 <1		90	30
DUP-HM-0	5	>300	30 <0.1		720	5	90	10
DUP-HM-0	12	>300	10	0.7	500 <1		20 <10	
DUP-HM-0	7	>300 <10		0.3	330 <1	<10		10
DUP-HM-0	9	81	20	1.4	400 <1		310	10
DUP-HM-0	6	160 <10		0.1	180 <1		160 <10	
DUP-HM-0	5	274	70 <0.1		810	4	50 <10	
DUP-HM-0	6	182	20	0.3	610	2	170 <10	
MMISRM1	21	49	10	46.3	110 <1		280 <10	
MMISRM1	21	52	10	45.2	60 <1		280 <10	
BLANK <1	<1	<10	<0.1	<10	<1	<10	<10	
BLANK <1	<1	<10	<0.1	<10	<1	<10	<10	

Ce	Co	Cr	Cu	Dy	Er	Eu	Fe	Gd
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
5	5	100	10	1	0.5	0.5	1	1
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPM	PPB
1470	211	200	390	56	27.4	28.3	100	99
387	28 <100		200	31	15.3	12.8	81	43
72	100	100	270	13	8.6	3.1	73	10
122	57 <100		320	18	9.6	4.5	54	17
38	198 <100		150	11	9.5	1.7	66	6
177	77 <100		240	19	10.7	5.1	80	19
95	59	100	300	14	7.4	4	139	14
128	113	100	220	17	14.5	3.1	164	12
59	49 <100		150	21	12.4	4.3	40	16
98	128	100	140	18	9.8	4.2	60	15
215	144	200	180	16	8.1	5.6	107	20
30	62 <100		140	16	10.2	2.3	44	9
372	34 <100		450	30	14.8	12.6	66	44
80	40 <100		260	18	10.5	4	98	16
146	51 <100		160	21	9.7	7.2	49	25
156	47 <100		160	23	10.8	7.7	46	27
48	50 <100		110	13	7.1	2.4	37	9
42	155 <100		290	10	6.1	2.1	119	7
20	27 <100		310	2	1.5 <0.5		196	2
31	31 <100		350	17	13.3	2	70	9
97	29 <100		370	23	11.9	5.4	28	19
243	178	100	650	28	13.6	7.6	34	27
207	120 <100		360	26	13.3	7.7	71	28
149	66 <100		450	32	18.7	7.4	65	30
176	149 <100		400	22	11.4	6.8	40	24
713	50	300	370	39	16.4	16.4	138	55
254	26 <100		430	33	17.5	11.6	72	42
85	95 <100		930	13	6.9	3.3	68	12
131	82 <100		440	18	10.7	4.4	85	16
452	42 <100		310	56	25.2	26.7	11	91
1800	56	200	400	101	39.8	52.8	100	185
269	61 <100		220	35	20.5	13.4	77	47
62	40 <100		240	6	3.9	1.8	141	6
208	46 <100		200	29	14.5	9.4	49	30
783	58	100	190	38	18.8	16.9	79	58
249	45 <100		1120	30	14.8	9.1	75	31
144	76 <100		8320	16	8.5	5.1	101	24
692	49	400	650	37	15	17.7	97	62
348	190	200	750	26	13.9	9.1	145	31
632	44	100	480	33	13.6	15.3	82	57
262	156	100	1240	22	10.8	8.3	172	30
646	12 <100		2540	71	26.2	40	10	151
138	22	200	270	8	4.3	2.8	150	10
555	44	200	520	52	22.5	23.3	82	82
40	45 <100		140	7	4.5	2	178	7
307	35 <100		110	13	6.1	6.8	56	26

236	33	<100	110	11	5.1	5.8	51	23
1150	281	100	4780	36	15.9	20.6	66	77
744	59	<100	450	47	20.2	19.7	42	73
412	19	<100	320	26	11.1	11.3	85	39
82	277	100	1140	11	6.1	2.9	232	10
150	20	<100	1460	27	11.4	11.8	37	42
144	77	200	250	13	7.1	4.7	150	15
262	49	100	350	21	9.8	9.1	56	30
198	73	<100	750	14	8.4	4.4	95	15
101	67	<100	120	15	8.6	4	95	13
127	76	<100	350	15	8	4.2	114	14
1390	30	<100	580	55	22.8	31.7	17	112
33	65	<100	110	5	3.7	1.4	182	5
194	18	<100	180	38	16.3	16.6	7	64
180	198	400	650	7	4.1	2.1	606	8
221	22	<100	160	19	9.1	10.3	14	38
429	469	200	440	28	13.3	10.7	78	36
157	65	<100	220	19	9.1	6.1	41	22
371	262	100	560	39	21.5	10.7	145	41
37	27	<100	420	5	3.1	1.5	169	5
357	46	<100	300	22	9.7	9.6	98	33
215	151	200	550	14	6.2	6.5	375	22
878	33	<100	1280	90	36	48.6	5	197
143	83	300	900	9	4.3	2.9	426	10
109	33	<100	1380	11	7.2	3.3	215	12
75	25	<100	1610	7	4.3	2.3	301	8
398	110	200	390	14	6.3	6.4	138	23
157	73	<100	630	22	9.6	7.3	60	26
172	80	200	440	13	5.9	5.7	144	20
47	88	<100	130	10	6.6	2.5	98	8
110	83	100	90	17	11.2	4.2	105	15
895	19	<100	880	89	36.8	42.9	47	158
903	90	300	1350	59	24.1	27.1	171	99
132	237	200	650	17	11.3	3.9	165	15
44	148	<100	90	12	8.4	2.1	98	8
245	272	600	830	28	14.8	9.5	411	30
1700	281	200	440	66	33.4	33.4	100	117
385	46	200	600	34	17.6	13.1	90	45
219	159	100	450	26	13.1	8.8	46	30
121	83	<100	7450	15	8.2	4.5	86	22
765	44	<100	410	50	21.6	21	39	76
207	172	300	490	8	4.2	2.5	486	9
336	92	100	340	12	5.5	5.4	115	19
16	50	<100	780	2	0.8	0.8	3	4
16	50	<100	780	2	0.7	0.8	3	4
<5	<5	<100	<10	<1	<0.5	<0.5	<1	<1
<5	<5	<100	<10	<1	<0.5	<0.5	<1	<1

La	Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
1	5	1	5	0.5	1	5	10	1
PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
585	25	10	8	35.7	711	463	380	<1
120	<5	1	<5	2.9	204	85	430	<1
31	8	9	<5	4.8	40	126	310	<1
45	<5	3	<5	5	66	153	320	<1
19	7	3	<5	2.4	22	111	240	<1
80	<5	3	<5	6.4	93	100	280	<1
59	10	7	<5	10.5	58	232	270	<1
64	5	3	<5	8.1	63	157	50	<1
30	<5	1	<5	2	55	117	320	<1
48	6	2	<5	3.2	61	166	440	<1
80	<5	4	6	5.7	92	168	470	<1
13	<5	3	<5	0.8	26	121	520	<1
134	<5	1	5	2.1	216	81	230	<1
30	<5	9	<5	1.8	62	165	170	<1
88	<5	2	<5	4.4	110	86	290	<1
95	<5	1	<5	4.2	123	76	270	<1
21	<5	2	<5	2.5	31	135	490	<1
22	7	11	<5	8.2	26	239	200	<1
10	8	5	<5	9.6	8	155	20	<1
13	<5	<1	<5	2.4	23	26	210	<1
35	<5	<1	<5	1.2	67	47	240	<1
82	<5	2	6	4.2	119	385	370	<1
87	<5	2	<5	3.6	136	269	210	<1
58	<5	1	<5	2.9	119	186	300	<1
70	<5	1	<5	2.2	110	103	190	<1
220	6	3	8	11.5	298	98	290	<1
105	<5	3	<5	1.7	194	108	250	<1
35	<5	3	6	3.1	47	147	380	<1
47	9	7	<5	2.9	67	226	330	<1
363	<5	<1	<5	0.5	528	75	110	<1
1030	<5	2	6	19.4	1260	51	340	<1
123	<5	1	<5	5.1	226	77	490	<1
30	<5	<1	<5	1.7	32	81	60	<1
79	<5	<1	<5	2.7	131	69	240	<1
228	<5	5	5	6.2	321	157	380	<1
97	<5	2	<5	3.3	139	100	380	<1
69	<5	28	8	0.7	110	361	20	<1
332	6	4	9	10.7	369	95	180	<1
141	<5	3	8	7	162	153	120	<1
258	8	21	<5	4.4	327	87	200	<1
89	46	23	39	11	121	228	1520	<1
466	<5	107	<5	<0.5	784	114	130	<1
73	6	4	<5	12	61	77	30	<1
271	<5	1	6	6.2	439	90	250	<1
23	10	5	<5	7.9	25	99	140	<1
147	8	42	<5	2.1	178	127	160	<1

116	6	54 <5		2	148	144	100 <1	
536	7	49	91	6.1	609	630	500 <1	
231 <5		7 <5		2	367	148	200 <1	
156 <5		8 <5		3.5	203	68	140 <1	
36	23	9	15	7	43	155	480 <1	
88 <5		44 <5		0.5	146	133	90 <1	
70 <5		7 <5		5.8	77	244	90 <1	
137 <5		2 <5		3.4	156	118	140 <1	
73 <5		1 <5		2.5	80	100	420 <1	
51 <5		1 <5		4.3	59	156	250 <1	
44 <5		2 <5		3.2	53	120	250 <1	
534 <5	<1		5 <0.5		757	36	350 <1	
12 <5		1	18 <0.5		16	58	60 <1	
225 <5		3	7 <0.5		324	20	220 <1	
52	15	13	16	32.1	42	193	230 <1	
209 <5		2 <5		1.1	243	33	200 <1	
170	8	5	6	6.9	199	204	350 <1	
57 <5	<1	<5		2.3	94	54	250 <1	
118	13	10	6	8.4	180	152	430 <1	
17	13	5 <5		13.1	20	117	170 <1	
128 <5		5 <5		2.6	173	83	220 <1	
81	18	9	8	8.7	105	183	170 <1	
592 <5		89 <5	<0.5		1070	43	60 <1	
88	26	8	11	27	59	153	80 <1	
51 <5		3	7	4.1	54	67	120 <1	
35 <5		2	25	2	35	69	120 <1	
90	18	22	11	7.5	120	211	150 <1	
54 <5		7	5	1.4	95	166	230 <1	
76	18	35	11	12	100	165	260 <1	
20	8	8 <5		10.5	32	205	280 <1	
41	6	5 <5		6.2	62	192	430 <1	
572	6	4	17	5.3	946	59	170 <1	
562	24	23 <5		10.6	626	216	510 <1	
47	29	9	11	22.2	62	359	580 <1	
21	10	4 <5		8.4	27	253	310 <1	
130	28	24	13	35.2	138	227	680 <1	
663	33	14	8	33	839	602	440 <1	
143 <5		2	6	2.9	222	111	280 <1	
86 <5		2 <5		3.1	140	108	190 <1	
57 <5		22	9	0.6	92	339	20 <1	
237 <5		6 <5		1.8	388	143	140 <1	
56	13	9	14	26.7	49	157	270 <1	
72	14	19	10	6.3	103	178	120 <1	
3 <5		47	33 <0.5		13	282	110	46
4 <5		48	33 <0.5		13	281	110	46
<1	<5	<1	<5	<0.5	<1	<5	<10	<1
<1	<5	<1	<5	<0.5	<1	<5	<10	<1

Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
1	5	1	5	1	1	10	1	1	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
179	30 <1			56	124	3	250	4	13
44	116 <1			58	46 <1	<10	<1		6
9	205 <1			45	10 <1		190 <1		2
15	372 <1			46	16 <1	<10	<1		3
5	263 <1			42	5 <1	<10	<1		1
23	204 <1			39	19 <1		80 <1		3
14	222 <1			42	13	2	200 <1		2
16	42 <1			44	13	1	50 <1		2
11	350 <1			35	13 <1	<10	<1		3
14	355 <1			44	14 <1		50 <1		3
23	230 <1			48	20 <1		60 <1		3
5	267 <1			30	7 <1	<10	<1		2
48	103		2	53	47 <1	<10	<1		6
13	48 <1			15	14 <1		220 <1		3
26	173 <1			32	25 <1	<10	<1		4
28	173 <1			34	27 <1	<10	<1		4
7	191 <1			25	8 <1	<10	<1		2
6	132 <1			38	7	2	550 <1		1
2	97 <1			18	2	2	60 <1	<1	
5	46 <1			39	6 <1	<10	<1		2
14	116 <1			38	17 <1	<10	<1		4
28	216 <1			41	27 <1		30 <1		5
31	85 <1			33	27 <1		130 <1		4
25	94 <1			45	28 <1	<10	<1		5
25	147 <1			42	23 <1	<10	<1		4
73	81 <1			58	62 <1		50 <1		8
40	107 <1			36	41 <1		20 <1		6
11	149 <1			31	11 <1		50 <1		2
15	156 <1			32	15 <1		340 <1		3
126	68 <1			58	104 <1	<10	<1		12
317	55 <1			90	224	2	90	2	24
48	159 <1			75	48 <1	<10	<1		7
8	58 <1			35	7 <1	<10	<1	<1	
29	139 <1			63	31 <1	<10	<1		5
75	178 <1			58	64 <1		60 <1		8
33	140 <1			63	33 <1		30 <1		5
24	17		4	29	24 <1		500 <1		3
93	53 <1			74	71	1	40 <1		8
41	111 <1			49	34 <1		50 <1		5
79	90 <1			44	63 <1		170 <1		7
28	68		1	61	27	2	260 <1		4
168	28 <1			12	166 <1		920 <1		17
17	46 <1			37	11	1	80 <1		2
100	58 <1			75	93 <1		10 <1		11
6	91 <1			32	6	1	160 <1		1
43	33 <1			14	30 <1		820 <1		3

35	32 <1		12	26 <1		1040 <1		3
155	59	5	57	95 <1		670 <1		9
85	50 <1		41	77 <1		360 <1		10
49	25 <1		34	41 <1		140 <1		5
10	72 <1		47	10	1	110 <1		2
31	32 <1		13	36 <1		810 <1		6
19	115 <1		31	16 <1		340 <1		2
38	174 <1		45	32 <1	<10	<1		4
20	64 <1		33	16 <1		40 <1		3
14	81 <1		38	13 <1		20 <1		2
12	120	1	33	13 <1		40 <1		2
181	41 <1		31	131 <1	<10	<1		14
4	178 <1		34	4 <1	<10	<1	<1	
74	144 <1		34	66 <1		110 <1		8
11	100	4	52	8	8	320	2	1
57	135 <1		29	42 <1		70 <1		4
48	105 <1		57	40	1	100 <1		5
21	62 <1		39	21 <1	<10	<1		3
40	109 <1		66	39	2	140 <1		7
5	28 <1		27	5	3	40	1 <1	
41	66 <1		32	36 <1		30 <1		5
25	56	1	43	24	2	120 <1		3
215	11 <1		76	213 <1		2850 <1		22
16	104	1	65	11	7	240	2	2
13	79 <1		42	12 <1		50 <1		2
9	102	1	23	8 <1	<10	<1		1
29	159 <1		36	24	1	380 <1		3
20	47 <1		18	24 <1		230 <1		4
24	119 <1		32	21	1	930 <1		3
7	297 <1		42	8	2	270 <1		2
14	205 <1		44	14 <1		130 <1		3
220	130 <1		64	185 <1		40 <1		20
159	188 <1		82	115	1	910 <1		13
14	248 <1		70	14	4	110	2	3
6	323 <1		33	6	1	90 <1		2
33	236	2	134	30	6	340	3	5
209	31 <1		62	146	3	250	3	15
50	124	2	70	48 <1		10 <1		7
31	148 <1		53	31 <1	<10	<1		5
20	15	4	27	20 <1		390 <1		3
89	45 <1		35	80 <1		320 <1		10
12	83	4	46	9	6	240	2	1
24	131 <1		27	21 <1		320 <1		3
2	283 <1		5	4 <1		530 <1	<1	
2	278 <1		6	3 <1		520 <1	<1	
<1	<5	<1	<5	<1	<1	<10	<1	<1
<1	<5	<1	<5	<1	<1	<10	<1	<1

Te	Th	Ti	Tl	U	W	Y	Yb	Zn		
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5		
	10	0.5	3	0.5	1	1	5	1	20	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB		
<10		136	4100	<0.5		23	1	274	23	170
<10		31.4	960	<0.5		9	<1	137	12	230
<10		16.8	1700	0.8		7	<1	58	9	400
<10		20	2160	0.7		5	<1	83	7	460
<10		8.1	670	<0.5		3	<1	64	9	350
<10		29.3	1870	<0.5		8	<1	85	8	120
<10		10.8	4100	0.5		5	<1	64	6	340
<10		16.2	5000	<0.5		4	<1	95	14	60
<10		6.3	794	<0.5		4	<1	120	9	50
<10		15.4	1050	0.6		6	<1	84	7	130
<10		32.6	2270	0.7		9		73	7	880
<10		5.9	264	0.5		5	<1	83	8	90
<10		32.9	697	<0.5		10	<1	142	11	40
<10		5.3	724	<0.5		4	<1	98	8	50
<10		14.7	1750	<0.5		5	<1	93	7	110
<10		14.1	1630	<0.5		6	<1	101	7	110
<10		11.1	961	<0.5		6	<1	60	6	180
<10		8.1	5420	<0.5		3	<1	49	5	470
<10		5.8	4020	0.7		6	<1	8	3	40
<10		13.2	825	<0.5		6	<1	93	11	80
<10		10	418	<0.5		6	<1	101	9	50
<10		45.6	1110	0.8		13	<1	117	10	220
<10		12.6	1610	<0.5		5	<1	133	10	40
<10		18.8	1170	<0.5		11	<1	168	15	110
<10		13	1040	0.8		5	<1	109	9	100
<10		85.5	4990	1.2		21		148	13	110
<10		11.9	548	<0.5		9	<1	184	14	160
<10		12.1	1240	<0.5		6	<1	61	5	1240
<10		16.5	861	<0.5		11	<1	89	8	150
<10		16.2	174	<0.5		9	<1	257	19	50
<10		106	6670	0.7		19		396	28	40
<10		14.8	2240	0.7		9	<1	198	16	230
<10		18.5	654	<0.5		6	<1	26	4	20
<10		21.3	913	<0.5		6	<1	123	12	30
<10		30.6	2140	<0.5		10	<1	185	14	70
<10		37	1080	0.6		15	<1	117	11	500
<10		4.6	613	1		24		88	8	50
<10		61.4	3860	1.2		16		139	11	180
<10		46	3480	1		16		109	11	70
<10		31.7	1330	0.9		10		137	10	90
<10		27.1	3800	1.1		15		98	9	200
<10		19.2	4	0.6		33	<1	302	17	70
<10		20.3	3790	<0.5		6	<1	33	4	40
<10		55.4	2610	0.8		17		218	17	70
<10		6.8	4280	0.6		4	<1	34	4	100
<10		19.5	644	<0.5		7	<1	62	5	180

<10	21.8	552 <0.5		7 <1		55	4	150
<10	97.5	818	1.7	111	1	163	13	180
<10	27.3	754	0.7	9 <1		213	13	20
<10	26.7	1180 <0.5		10 <1		113	8	30
<10	17.9	2610	0.6	10 <1		43	5	110
<10	6.4	113 <0.5		30 <1		138	8	30
<10	12.5	2420 <0.5		6 <1		60	6	60
<10	11.3	1640	0.5	6 <1		96	7	100
<10	23	828	0.6	8 <1		63	7	70
<10	12.2	1890 <0.5		6 <1		70	6	110
<10	24.5	1130 <0.5		7 <1		66	6	40
<10	27.8	112	0.7	11 <1		263	16	40
<10	3.9	19 <0.5		9 <1		26	3 <20	
<10	8.4	154 <0.5		8 <1		176	11	40
<10	31.4	14000	0.9	10	3	28	3	220
<10	11.8	389	0.6	7 <1		104	7	30
<10	43.2	2000	0.8	14	1	120	10	90
<10	11.6	821 <0.5		5 <1		86	7	30
<10	32.5	3230	0.9	12	1	190	17	410
<10	10.2	6600 <0.5		4	1	24	3	260
<10	19.2	998 <0.5		9 <1		93	7	70
<10	36.6	3220	0.5	12	1	49	5	300
<10	36.5	7 <0.5		23 <1		416	24	90
<10	23.3	12400	0.9	7	2	38	4	200
<10	16.1	1520	0.6	7 <1		51	6	320
<10	17.3	664	0.5	14 <1		29	4	60
<10	27.4	2860	0.9	10 <1		56	5	130
<10	21.2	356	0.9	16 <1		94	6	190
<10	24.6	3920	0.9	9	1	54	5	580
<10	7.2	5600	0.7	3 <1		53	6	240
<10	24.4	3200 <0.5		8 <1		83	10	370
<10	48.7	2000	1.5	23	2	370	27	40
<10	92.3	3620	1.4	19	2	233	17	160
<10	25.5	9820	0.9	7	2	93	10	440
<10	9.6	3630	0.7	6 <1		62	8	50
<10	39.3	15700	1.3	16	3	122	13	1900
<10	146	4030	0.6	27	1	326	28	160
<10	40	986	0.6	11 <1		161	14	30
<10	16.2	1460	0.9	7 <1		122	10	90
<10	4.4	584	1	24	1	80	8	50
<10	22.7	699	0.6	9 <1		228	14	20
<10	33.6	11000	0.8	11	3	30	4	180
<10	22.6	2340	0.8	8 <1		47	4	130
<10	18.4 <3	<0.5		38 <1		8 <1		340
<10	18.8 <3	<0.5		40 <1		8 <1		340
<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20
<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20

Zr

MMI-M5

5

PPB

90

32

34

33

20

41

32

26

12

30

45

9

37

9

29

29

18

25

22

23

16

51

20

22

22

92

27

26

26

15

105

30

26

34

43

48

22

82

54

53

89

14

32

55

22

16

13
108
24
40
52
32
26
24
31
25
43
18
9
10
77
17
63
27
69
41
33
101
22
80
36
43
66
33
74
26
33
57
118
75
27
124
92
46
29
22
20
80
54
11
11

<5
<5



Certificate of Analysis

Work Order: 096576

Date: Jan 29, 2008

To: **NomeX Exploration Inc**
Attn: James Hess
Suite #610
4333 Ste. Catherine West
MONTREAL
QUEBEC H3Z 1P9

P.O. No. :
Project No. : DEFAULT
No. Of Samples 59
Date Submitted Oct 29, 2007
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 59 Soils

Certified By : _____

Gavin McGill
Operations Manager

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample
n.a. = Not applicable -- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.

SGS Canada Inc. Mineral Services 1885 Leslie Street Toronto ON M3B 2M3 t(416) 445-5755 f(416) 445-4152 www.sgs.com



Final : 096576 Order:

Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
HM-07-230	20	36	<10	0.1	120	<1	10	6	193	25
HM-07-231	11	101	<10	0.9	570	<1	210	3	2940	11
HM-07-232	10	274	<10	<0.1	520	<1	20	14	73	128
HM-07-233	15	179	<10	0.4	780	<1	140	19	1460	13
HM-07-234	11	125	<10	<0.1	890	<1	20	5	466	39
HM-07-235	9	152	<10	0.4	590	1	200	11	1250	40
HM-07-236	2	297	30	0.2	2580	3	30	3	1070	109
HM-07-237	7	>300	20	0.9	1840	14	<10	3	1570	97
HM-07-238	2	28	<10	<0.1	680	<1	860	5	182	9
HM-07-239	3	180	<10	0.3	720	1	60	1	801	78
HM-07-240	2	270	20	<0.1	360	<1	10	4	158	38
HM-07-241	8	237	<10	0.3	430	<1	<10	2	93	58
HM-07-242	40	136	<10	0.1	900	<1	80	11	205	52
HM-07-243	2	>300	10	0.1	610	1	20	10	54	92
HM-07-244	16	210	<10	<0.1	430	<1	<10	4	300	20
HM-07-245	3	254	10	0.1	710	1	60	4	359	151
HM-07-246	18	142	<10	0.1	150	<1	10	4	171	15
HM-07-247	11	282	<10	0.2	750	<1	20	2	236	30
HM-07-248	22	189	<10	<0.1	380	<1	<10	5	73	35
HM-07-249	4	247	10	1.1	1210	1	30	<1	725	30
HM-07-250	4	>300	40	0.3	1620	4	30	3	695	80
HM-07-251	9	73	<10	0.1	340	<1	20	7	308	34
HM-07-252	5	173	40	0.7	1650	10	90	7	1510	170
HM-07-253	15	268	10	0.9	650	<1	<10	17	294	507
HM-07-254	5	9	<10	0.3	3600	<1	220	2	686	33
HM-07-255	22	151	<10	0.4	420	<1	40	3	168	36
HM-07-256	3	11	10	0.5	1690	<1	290	5	632	16
HM-07-257	7	222	10	0.1	680	<1	120	2	154	22
HM-07-258	6	18	<10	0.3	960	<1	680	10	7	8
HM-07-259	21	144	<10	0.5	570	<1	40	4	40	127
HM-07-260	3	208	<10	<0.1	520	<1	20	10	136	320
HM-07-261	6	294	50	0.7	1110	3	50	3	781	104
HM-07-262	11	241	20	<0.1	980	1	70	3	667	135
HM-07-263	9	273	20	0.4	770	<1	50	6	98	669
HM-07-264	12	253	<10	<0.1	160	<1	<10	7	95	59
HM-07-265	3	78	10	<0.1	470	<1	230	4	2100	50
HM-07-266	4	32	<10	<0.1	1070	<1	200	2	545	50
HM-07-267	2	73	10	0.1	1490	<1	90	1	2490	58
HM-07-268	17	193	<10	<0.1	300	<1	20	10	102	55
HM-07-269	8	>300	10	<0.1	470	<1	<10	6	130	76
HM-07-270	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-271	28	283	<10	0.1	620	<1	<10	12	164	77
HM-07-272	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-273	21	277	<10	0.2	410	<1	20	12	259	87
HM-07-274	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-275	16	237	<10	0.5	680	<1	30	6	555	83
HM-07-276	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-277	12	260	<10	0.1	310	<1	<10	9	170	48

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-279	17	255	<10	<0.1	310	<1	<10	6	187	122
HM-07-280	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-281	18	167	<10	<0.1	100	<1	<10	6	122	31
HM-07-282	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-283	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-284	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-285	5	290	<10	<0.1	740	<1	<10	2	31	44
HM-07-286	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-287	5	223	<10	<0.1	250	<1	<10	6	204	46
HM-07-240-DUP	3	286	<10	0.4	370	<1	<10	3	306	44
*Dup HM-07-230	18	31	<10	<0.1	100	<1	<10	6	130	17
*Dup HM-07-242	36	137	<10	0.4	810	<1	70	12	182	57
*Dup HM-07-254	5	11	<10	0.3	3770	<1	180	2	723	28
*Dup HM-07-266	5	33	<10	0.1	1370	<1	170	<1	512	40
*Dup HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Std MMISRM14	19	55	10	41.7	120	<1	270	9	15	56
*Std MMISRM14	17	38	10	38.3	110	<1	230	8	14	47
*BIK BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*BIK BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
HM-07-230	<100	200	16	10.2	6.1	10	22	107	<5	1
HM-07-231	<100	2150	164	66.0	91.0	7	339	1520	<5	6
HM-07-232	<100	190	14	7.6	3.4	74	13	41	6	3
HM-07-233	<100	1710	152	71.2	46.7	35	191	565	<5	13
HM-07-234	100	220	24	9.7	11.1	68	40	224	7	3
HM-07-235	<100	790	58	24.0	26.2	24	100	437	<5	9
HM-07-236	400	780	35	14.1	21.5	328	71	530	18	6
HM-07-237	300	840	46	19.0	29.9	153	99	620	31	4
HM-07-238	<100	490	8	3.9	4.7	14	18	104	<5	50
HM-07-239	100	1410	39	16.8	19.9	79	71	295	<5	2
HM-07-240	100	280	12	6.2	4.2	178	15	80	6	3
HM-07-241	100	850	6	3.2	1.9	193	8	42	6	2
HM-07-242	<100	320	13	5.8	6.0	19	20	87	<5	6
HM-07-243	<100	580	7	4.5	1.6	121	6	25	7	7
HM-07-244	<100	150	19	8.9	9.7	65	31	153	<5	1
HM-07-245	200	440	22	9.9	9.8	140	36	162	31	11
HM-07-246	<100	100	14	6.2	6.1	20	20	65	<5	<1
HM-07-247	100	480	16	8.4	5.7	140	21	84	12	3
HM-07-248	<100	110	14	6.8	3.5	21	13	33	<5	<1
HM-07-249	200	790	37	16.6	18.1	134	66	323	8	2
HM-07-250	200	310	32	13.5	18.1	228	62	470	24	6
HM-07-251	<100	220	52	23.9	22.5	12	76	236	<5	2
HM-07-252	300	850	47	19.3	28.2	177	100	594	13	10
HM-07-253	100	2520	13	5.9	4.7	91	17	60	<5	1
HM-07-254	<100	1660	28	12.9	14.6	24	63	370	9	25
HM-07-255	<100	400	12	5.8	5.7	82	19	76	<5	2
HM-07-256	<100	4330	20	9.9	11.8	14	50	320	13	21
HM-07-257	100	370	9	4.2	4.2	110	15	71	9	4
HM-07-258	<100	2860	2	1.1	<0.5	9	3	3	<5	36
HM-07-259	<100	650	5	2.7	1.1	248	4	21	<5	2
HM-07-260	<100	430	17	9.3	4.6	113	17	47	<5	2
HM-07-261	400	780	27	11.5	13.9	331	46	298	6	5
HM-07-262	200	580	43	20.6	17.0	370	66	300	17	5
HM-07-263	300	760	9	5.0	2.4	191	9	32	6	10
HM-07-264	<100	380	16	10.3	4.5	74	17	49	<5	<1
HM-07-265	<100	1450	87	38.2	40.5	123	165	964	<5	12
HM-07-266	<100	680	30	12.9	17.1	40	66	293	<5	10
HM-07-267	100	530	72	29.8	39.1	86	149	1150	<5	13
HM-07-268	<100	110	15	8.0	5.0	42	17	54	<5	3
HM-07-269	<100	220	10	5.4	3.3	76	11	46	<5	<1
HM-07-270	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-271	<100	160	15	8.4	4.7	51	17	66	5	1
HM-07-272	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-273	<100	300	20	7.9	6.9	40	24	97	<5	1
HM-07-274	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-275	100	240	24	10.0	10.9	82	39	219	<5	1
HM-07-276	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-277	<100	430	20	10.5	6.4	49	24	71	<5	1

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Final : 096576 Order:

Page 5 of 11

Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-279	<100	340	14	7.0	5.4	40	20	91	<5	<1
HM-07-280	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-281	<100	90	16	8.9	4.0	19	16	50	<5	<1
HM-07-282	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-283	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-284	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-285	<100	130	6	3.9	1.5	85	5	15	<5	2
HM-07-286	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-287	<100	150	14	7.5	5.1	62	19	96	<5	<1
HM-07-240-DUP	<100	320	27	12.5	8.9	63	33	128	<5	2
*Dup HM-07-230	<100	130	11	7.6	3.6	6	13	77	<5	<1
*Dup HM-07-242	<100	280	12	5.5	5.1	20	18	79	<5	5
*Dup HM-07-254	<100	1520	29	13.5	15.3	24	68	383	7	22
*Dup HM-07-266	<100	780	33	13.6	17.8	28	71	303	<5	8
*Dup HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Std MMISRM14	<100	810	3	1.3	1.3	6	5	3	<5	37
*Std MMISRM14	<100	720	2	0.7	0.7	2	3	3	<5	34
*Bik BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Bik BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
HM-07-230	<5	1.1	124	59	110	<1	32	<1	102	<1
HM-07-231	8	0.8	2040	144	120	<1	516	<1	86	<1
HM-07-232	<5	3.2	53	240	190	<1	13	<1	119	<1
HM-07-233	6	1.0	914	438	250	<1	215	<1	86	<1
HM-07-234	9	14.1	227	62	100	<1	61	<1	132	<1
HM-07-235	10	2.0	580	257	170	<1	148	<1	73	<1
HM-07-236	8	28.6	513	169	200	1	141	<1	107	1
HM-07-237	15	18.1	726	158	370	<1	195	<1	90	<1
HM-07-238	<5	<0.5	119	103	30	<1	29	<1	<5	<1
HM-07-239	8	6.5	396	113	190	<1	101	<1	55	<1
HM-07-240	10	17.3	73	128	70	<1	20	<1	65	<1
HM-07-241	8	5.7	38	100	30	<1	10	<1	147	<1
HM-07-242	6	0.7	97	111	200	<1	23	<1	222	<1
HM-07-243	7	15.5	25	122	100	<1	6	<1	111	<1
HM-07-244	9	10.7	160	53	180	<1	41	<1	164	<1
HM-07-245	13	18.7	202	204	290	<1	51	<1	93	<1
HM-07-246	6	2.0	98	53	130	<1	23	<1	195	<1
HM-07-247	10	12.5	101	151	120	<1	26	<1	60	<1
HM-07-248	6	0.8	50	115	180	<1	12	<1	201	<1
HM-07-249	12	13.3	399	94	140	<1	105	<1	50	<1
HM-07-250	17	27.7	452	210	250	<1	125	<1	118	2
HM-07-251	<5	<0.5	366	50	220	<1	88	<1	137	<1
HM-07-252	10	3.3	668	247	350	<1	178	<1	46	2
HM-07-253	11	3.2	70	178	170	<1	18	<1	64	2
HM-07-254	19	0.9	423	187	40	<1	105	<1	71	<1
HM-07-255	8	5.2	93	55	140	<1	23	<1	106	<1
HM-07-256	63	1.4	374	256	60	<1	94	<1	76	<1
HM-07-257	8	8.3	80	92	150	<1	21	<1	83	<1
HM-07-258	<5	0.8	7	112	80	<1	1	<1	<5	2
HM-07-259	9	2.2	19	276	40	<1	5	<1	181	<1
HM-07-260	<5	2.3	75	145	130	<1	18	<1	42	<1
HM-07-261	18	30.1	272	114	160	2	75	<1	111	2
HM-07-262	10	15.6	337	114	80	<1	87	<1	82	<1
HM-07-263	9	6.8	35	360	50	<1	9	<1	51	<1
HM-07-264	<5	3.4	71	74	200	<1	16	<1	152	<1
HM-07-265	8	6.2	1050	120	100	<1	284	<1	39	<1
HM-07-266	6	3.8	404	40	80	<1	97	<1	53	<1
HM-07-267	8	8.4	1070	27	80	<1	294	<1	49	<1
HM-07-268	<5	1.9	70	97	200	<1	17	<1	196	<1
HM-07-269	6	2.7	51	156	120	<1	13	<1	110	<1
HM-07-270	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-271	8	1.9	82	320	230	<1	21	<1	141	<1
HM-07-272	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-273	7	3.7	117	144	340	<1	30	<1	328	<1
HM-07-274	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-275	7	7.7	233	173	190	<1	63	<1	120	<1
HM-07-276	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-277	9	5.1	122	212	160	<1	28	<1	133	<1

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-279	6	2.7	115	144	180	<1	28	<1	145	<1
HM-07-280	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-281	<5	0.9	71	88	140	<1	17	<1	142	<1
HM-07-282	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-283	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-284	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-285	<5	6.7	19	80	80	<1	4	<1	144	<1
HM-07-286	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-287	<5	2.0	102	107	170	<1	26	<1	28	<1
HM-07-240-DUP	5	5.4	175	139	150	<1	44	<1	56	<1
*Dup HM-07-230	<5	<0.5	74	45	100	<1	19	<1	101	<1
*Dup HM-07-242	6	0.8	87	123	180	<1	21	<1	210	<1
*Dup HM-07-254	17	1.1	469	151	40	<1	112	<1	76	<1
*Dup HM-07-266	5	3.3	429	32	50	<1	100	<1	49	<1
*Dup HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Std MMISRM14	40	<0.5	21	344	140	47	5	<1	301	<1
*Std MMISRM14	37	<0.5	13	271	110	45	3	<1	275	<1
*BIK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*BIK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Ti MMI-M5 0.5 PPB
HM-07-230	23	23	<1	30	<1	3	<10	2.2	184	0.6
HM-07-231	89	404	<1	320	<1	43	<10	31.2	140	0.9
HM-07-232	29	12	<1	140	<1	2	<10	7.9	958	<0.5
HM-07-233	100	180	<1	590	<1	30	<10	41.5	220	1.2
HM-07-234	41	43	2	90	1	6	<10	24.4	6080	0.8
HM-07-235	48	110	<1	410	<1	14	<10	39.1	423	1.1
HM-07-236	88	89	3	220	2	9	<10	154	7580	0.9
HM-07-237	94	123	3	70	1	13	<10	75.9	8270	1.3
HM-07-238	<5	20	<1	1200	<1	2	<10	9.9	30	<0.5
HM-07-239	44	79	<1	120	<1	9	<10	66.6	1730	0.9
HM-07-240	34	15	4	120	1	2	<10	22.0	8680	<0.5
HM-07-241	22	8	<1	50	<1	1	<10	18.2	2240	1.1
HM-07-242	28	21	<1	190	<1	3	<10	17.6	233	0.5
HM-07-243	30	6	3	100	1	1	<10	11.3	6640	0.6
HM-07-244	41	31	2	20	<1	4	<10	9.8	4090	<0.5
HM-07-245	49	39	3	140	1	5	<10	26.8	6610	1.4
HM-07-246	19	20	<1	10	<1	3	<10	8.4	709	<0.5
HM-07-247	36	21	1	70	<1	3	<10	34.6	4440	0.7
HM-07-248	23	11	<1	20	<1	2	<10	7.3	249	<0.5
HM-07-249	55	75	1	80	<1	9	<10	92.3	3650	0.9
HM-07-250	65	75	4	170	2	8	<10	59.4	13300	0.9
HM-07-251	53	80	<1	70	<1	11	<10	8.6	102	<0.5
HM-07-252	45	117	<1	350	<1	13	<10	71.0	1630	<0.5
HM-07-253	30	16	<1	50	<1	3	<10	46.8	868	<0.5
HM-07-254	22	68	<1	730	<1	7	<10	36.2	184	<0.5
HM-07-255	24	19	<1	60	<1	3	<10	10.5	1940	0.5
HM-07-256	12	57	<1	530	<1	6	<10	23.0	173	<0.5
HM-07-257	25	16	1	160	<1	2	<10	21.6	2340	0.8
HM-07-258	<5	2	<1	1440	<1	<1	<10	8.2	10	<0.5
HM-07-259	24	4	<1	140	<1	<1	<10	7.2	646	0.7
HM-07-260	24	17	<1	130	<1	3	<10	15.5	696	<0.5
HM-07-261	50	51	3	180	2	7	<10	131	8810	1.2
HM-07-262	69	67	2	430	1	10	<10	59.3	5700	0.6
HM-07-263	36	8	<1	310	<1	2	<10	15.2	8080	<0.5
HM-07-264	35	15	<1	40	<1	3	<10	8.3	1220	<0.5
HM-07-265	50	180	<1	340	<1	22	<10	70.6	1380	<0.5
HM-07-266	16	73	<1	830	<1	8	<10	25.5	895	<0.5
HM-07-267	57	172	<1	1130	<1	19	<10	51.6	2890	<0.5
HM-07-268	37	16	<1	150	<1	3	<10	8.4	478	<0.5
HM-07-269	27	11	<1	80	<1	2	<10	11.5	783	<0.5
HM-07-270	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-271	29	17	<1	90	<1	3	<10	14.5	479	<0.5
HM-07-272	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-273	27	25	<1	70	<1	4	<10	40.4	1160	0.6
HM-07-274	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-275	33	44	<1	70	<1	6	<10	51.9	2650	<0.5
HM-07-276	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-277	29	25	1	40	5	4	<10	19.2	854	3.0

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-279	22	21	<1	40	2	3	<10	11.5	571	1.2
HM-07-280	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-281	24	14	<1	10	1	3	<10	6.0	99	0.8
HM-07-282	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-283	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-284	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-285	24	4	1	160	<1	<1	<10	4.0	2280	1.0
HM-07-286	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-287	36	20	<1	30	<1	3	<10	21.2	483	0.6
HM-07-240-DUP	25	33	1	90	<1	5	<10	16.8	2070	0.8
*Dup HM-07-230	17	12	<1	20	<1	2	<10	<0.5	112	<0.5
*Dup HM-07-242	27	18	<1	150	<1	2	<10	16.2	217	0.8
*Dup HM-07-254	21	74	<1	680	<1	8	<10	37.2	208	0.7
*Dup HM-07-266	17	79	<1	870	<1	8	<10	25.5	753	0.7
*Dup HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Std MMISRM14	8	5	<1	580	<1	<1	<10	20.6	<3	<0.5
*Std MMISRM14	8	3	<1	550	<1	<1	<10	16.5	<3	0.6
*Bik BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Bik BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Final : 096576 Order:

Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
HM-07-230	5	2	111	9	60	6
HM-07-231	131	1	659	46	50	37
HM-07-232	4	<1	75	6	200	18
HM-07-233	46	1	822	49	80	25
HM-07-234	10	1	105	7	110	46
HM-07-235	24	<1	275	18	50	33
HM-07-236	21	3	135	12	310	207
HM-07-237	17	14	201	14	150	165
HM-07-238	13	<1	52	3	120	<5
HM-07-239	23	2	182	13	30	73
HM-07-240	6	2	54	5	70	44
HM-07-241	6	<1	28	3	70	35
HM-07-242	5	<1	67	4	20	22
HM-07-243	4	2	33	4	360	46
HM-07-244	4	<1	96	7	40	34
HM-07-245	12	2	105	8	120	74
HM-07-246	4	<1	69	5	50	15
HM-07-247	11	1	74	7	70	53
HM-07-248	4	<1	69	5	<20	14
HM-07-249	24	3	164	14	50	109
HM-07-250	13	4	146	10	80	105
HM-07-251	7	<1	267	18	100	9
HM-07-252	13	2	206	16	40	73
HM-07-253	8	<1	48	6	440	65
HM-07-254	68	<1	173	11	40	46
HM-07-255	5	<1	60	5	430	26
HM-07-256	189	<1	138	9	40	30
HM-07-257	8	1	44	3	50	48
HM-07-258	21	<1	9	1	20	<5
HM-07-259	4	<1	23	2	60	18
HM-07-260	5	<1	81	8	60	20
HM-07-261	17	4	112	9	170	121
HM-07-262	15	<1	203	16	200	85
HM-07-263	5	2	43	5	130	41
HM-07-264	4	<1	107	9	400	20
HM-07-265	35	<1	451	29	<20	62
HM-07-266	12	<1	161	10	60	21
HM-07-267	14	1	352	23	60	64
HM-07-268	4	<1	87	7	110	16
HM-07-269	4	<1	50	5	30	21
HM-07-270	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-271	8	<1	82	7	30	28
HM-07-272	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-273	11	<1	81	6	40	51
HM-07-274	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-275	10	<1	100	8	60	55
HM-07-276	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-277	7	8	98	8	80	27

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Final : 096576 Order:

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-279	5	2	75	5	100	22
HM-07-280	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-281	3	1	92	7	<20	11
HM-07-282	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-283	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-284	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-285	3	<1	30	4	<20	19
HM-07-286	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-287	5	<1	73	6	<20	32
HM-07-240-DUP	5	<1	126	8	30	23
*Dup HM-07-230	1	<1	85	7	60	<5
*Dup HM-07-242	5	<1	61	4	50	22
*Dup HM-07-254	65	<1	166	11	50	47
*Dup HM-07-266	14	<1	155	10	30	20
*Dup HM-07-278	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
*Std MMISRM14	40	<1	15	<1	380	15
*Std MMISRM14	34	<1	8	<1	310	12
*Bik BLANK	<1	<1	<5	<1	<20	<5
*Bik BLANK	<1	<1	<5	<1	<20	<5

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Certificate of Analysis

Work Order: 096573

Date: Jan 29, 2008

To: **NomeX Exploration Inc**
Attn: James Hess
Suite #610
4333 Ste. Catherine West
MONTREAL
QUEBEC H3Z 1P9

P.O. No. :
Project No. : DEFAULT
No. Of Samples 76
Date Submitted Oct 29, 2007
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 76 Soils

Certified By : _____

Gavin McGill
Operations Manager

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample
n.a. = Not applicable -- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.

SGS Canada Inc. Mineral Services 1885 Leslie Street Toronto ON M3B 2M3 t(416) 445-5755 f(416) 445-4152 www.sgs.com



Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 10 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
HM-07-1	19	52	20	7.2	2540	10	170	<10	1450	28
HM-07-2	8	213	<10	0.5	800	<1	<10	10	171	33
HM-07-3	4	189	<10	0.3	710	<1	20	<10	423	64
HM-07-4	3	281	<10	<0.1	500	<1	10	<10	102	41
HM-07-5	35	254	<10	0.1	270	<1	<10	20	88	63
HM-07-6	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-7	38	177	<10	0.2	190	<1	<10	<10	204	21
HM-07-8	35	115	<10	0.5	330	<1	<10	<10	129	52
HM-07-9	14	269	<10	0.4	460	<1	<10	<10	47	65
HM-07-10	19	202	<10	0.2	670	<1	10	<10	167	49
HM-07-11	17	251	<10	<0.1	830	<1	10	<10	62	89
HM-07-12	11	>300	30	<0.1	870	1	10	20	122	243
HM-07-13	7	233	30	0.6	630	1	20	<10	578	94
HM-07-14	14	247	<10	<0.1	460	<1	<10	<10	60	55
HM-07-15	8	>300	20	0.2	1240	<1	<10	<10	112	110
HM-07-16	3	>300	<10	<0.1	970	<1	10	<10	108	57
HM-07-17	24	>300	<10	0.1	360	<1	<10	<10	126	114
HM-07-18	26	234	<10	<0.1	320	<1	<10	<10	95	37
HM-07-19	4	271	<10	<0.1	520	<1	<10	20	32	86
HM-07-20	8	252	<10	<0.1	290	<1	<10	10	40	62
HM-07-21	9	230	<10	<0.1	320	<1	10	20	52	62
HM-07-22	13	278	<10	<0.1	480	<1	<10	10	107	52
HM-07-23	16	280	<10	<0.1	560	<1	40	10	123	29
HM-07-24	23	217	<10	<0.1	420	<1	70	<10	223	42
HM-07-25	1	244	<10	0.2	160	<1	<10	<10	133	17
HM-07-26	3	137	<10	0.3	40	<1	<10	10	123	50
HM-07-27	6	110	<10	0.3	1140	<1	190	<10	1030	65
HM-07-28	<1	259	<10	0.2	370	<1	20	<10	52	25
HM-07-29	13	176	<10	<0.1	210	<1	<10	<10	82	46
HM-07-30	4	74	<10	0.1	70	<1	<10	<10	1070	9
HM-07-31	2	262	<10	<0.1	300	<1	<10	<10	28	36
HM-07-32	6	107	<10	0.4	60	<1	<10	<10	365	17
HM-07-33	6	277	<10	<0.1	190	<1	<10	<10	55	51
HM-07-34	2	133	20	0.4	6900	<1	40	<10	4480	92
HM-07-35	19	197	<10	<0.1	600	<1	<10	<10	56	49
HM-07-36	28	115	<10	<0.1	120	<1	<10	<10	79	18
HM-07-37	6	203	<10	<0.1	450	<1	10	<10	80	38
HM-07-38	18	132	<10	<0.1	860	<1	50	<10	157	29
HM-07-39	2	204	<10	<0.1	410	<1	<10	<10	76	24
HM-07-40	9	125	<10	<0.1	190	<1	50	<10	436	18
HM-07-41	2	168	<10	0.1	290	<1	<10	<10	122	10
HM-07-42	<1	272	10	0.2	330	<1	<10	<10	80	12
HM-07-43	3	229	<10	0.1	440	<1	<10	10	26	134
HM-07-44	5	157	40	0.3	1570	2	130	<10	366	99
HM-07-45	3	240	<10	0.1	340	<1	<10	<10	66	59
HM-07-46	9	166	10	0.1	470	2	130	10	1020	62
HM-07-47	18	212	<10	0.2	510	<1	30	<10	365	63
HM-07-48	2	180	<10	0.4	40	<1	<10	20	44	31

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Final : 096573 Order:

Page 3 of 11

Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 10 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
HM-07-49	1	186	<10	<0.1	70	<1	<10	20	25	24
HM-07-50	2	232	<10	0.2	620	<1	60	<10	397	15
HM-07-51	3	224	50	0.6	2580	2	40	<10	571	85
HM-07-52	3	121	50	1.0	1680	1	60	<10	919	57
HM-07-53	6	160	20	0.6	1820	2	190	<10	232	65
HM-07-54	12	104	<10	3.4	570	<1	200	<10	330	33
HM-07-55	5	249	<10	0.3	640	<1	60	<10	427	61
HM-07-56	6	191	20	0.8	1310	2	70	<10	295	192
HM-07-57	13	132	<10	0.2	260	<1	10	<10	128	47
HM-07-58	21	214	<10	0.1	320	<1	<10	<10	57	54
HM-07-59	25	252	<10	0.2	210	<1	<10	<10	53	44
HM-07-60	27	243	<10	<0.1	300	<1	<10	10	35	94
HM-07-60 Dup	26	241	<10	<0.1	330	<1	<10	10	35	91
HM-07-61	10	>300	10	0.1	970	<1	10	<10	290	132
HM-07-62	15	197	<10	<0.1	250	<1	<10	<10	63	28
HM-07-63	24	212	<10	<0.1	360	<1	10	<10	68	57
HM-07-64	16	260	<10	<0.1	390	<1	<10	<10	26	99
HM-07-65	2	52	20	0.5	1190	2	90	<10	1360	80
HM-07-66	25	257	<10	<0.1	650	<1	<10	10	113	67
HM-07-67	6	293	<10	<0.1	690	1	10	10	133	111
HM-07-68	14	223	<10	<0.1	170	<1	<10	<10	20	39
HM-07-69	7	205	<10	<0.1	150	<1	<10	10	57	44
HM-07-70	14	175	<10	<0.1	50	<1	<10	<10	33	38
HM-07-71	8	189	<10	<0.1	250	<1	<10	<10	40	42
HM-07-72	5	207	<10	<0.1	440	<1	<10	10	45	51
HM-07-73	9	189	<10	<0.1	150	<1	<10	<10	44	17
HM-07-74	1	212	<10	0.2	590	<1	20	<10	19	221
HM-07-75	5	>300	10	0.5	640	3	20	10	146	48
*Dup HM-07-1	16	49	20	8.4	2320	10	150	<10	1260	23
*Dup HM-07-13	6	215	20	0.5	690	1	20	<10	604	86
*Dup HM-07-25	1	251	<10	0.3	220	<1	<10	<10	156	18
*Dup HM-07-37	6	198	<10	<0.1	410	<1	20	<10	71	39
*Dup HM-07-49	1	188	<10	<0.1	80	<1	<10	20	30	23
*Dup HM-07-60 Dup	26	242	<10	<0.1	300	<1	<10	10	35	85
*Dup HM-07-72	5	208	<10	<0.1	410	<1	<10	10	37	54
*Std MMISRM14	18	47	10	41.5	100	<1	250	<10	19	46
*Std MMISRM14	18	44	10	43.1	90	<1	250	<10	18	47
*Bik BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10	<5	<5
*Bik BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10	<5	<5

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
HM-07-1	<100	6980	118	39.8	70.0	37	255	1140	<5	25
HM-07-2	100	560	26	15.2	7.9	67	28	68	<5	<1
HM-07-3	100	540	25	10.8	11.5	55	41	171	<5	1
HM-07-4	200	310	7	4.3	2.0	149	8	54	<5	1
HM-07-5	100	290	16	9.8	3.8	45	15	39	<5	1
HM-07-6	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-7	<100	400	29	16.3	10.3	66	37	96	<5	<1
HM-07-8	<100	550	24	14.0	6.1	24	22	46	<5	<1
HM-07-9	<100	100	9	6.0	2.2	62	7	20	<5	<1
HM-07-10	<100	120	20	9.9	7.3	23	25	74	<5	<1
HM-07-11	<100	260	10	6.1	2.1	58	8	24	<5	1
HM-07-12	200	300	9	4.8	2.4	104	9	35	5	2
HM-07-13	300	740	42	20.3	18.0	223	68	253	5	2
HM-07-14	<100	250	8	4.7	2.3	57	8	32	<5	<1
HM-07-15	100	400	8	4.4	2.7	113	9	40	6	<1
HM-07-16	<100	180	6	3.8	2.2	157	8	58	16	4
HM-07-17	<100	280	14	7.2	4.7	61	18	103	7	2
HM-07-18	<100	160	16	7.7	3.7	21	14	35	<5	<1
HM-07-19	<100	130	8	5.5	1.3	79	5	19	<5	1
HM-07-20	<100	120	11	7.4	2.2	57	8	16	<5	1
HM-07-21	<100	190	11	6.7	2.4	77	9	21	<5	2
HM-07-22	<100	130	19	8.4	4.6	23	17	41	<5	<1
HM-07-23	<100	240	12	6.1	3.9	77	14	55	8	3
HM-07-24	100	340	15	6.5	6.3	70	22	110	<5	6
HM-07-25	<100	290	16	8.8	3.9	62	15	58	<5	<1
HM-07-26	<100	470	24	13.0	5.8	14	23	45	<5	<1
HM-07-27	<100	1220	95	45.1	44.7	53	181	807	<5	12
HM-07-28	<100	300	7	4.8	1.5	168	6	27	<5	2
HM-07-29	<100	130	13	7.0	3.8	41	13	38	<5	<1
HM-07-30	<100	270	47	22.4	23.6	17	88	415	<5	<1
HM-07-31	<100	160	5	3.2	0.8	128	3	15	<5	1
HM-07-32	<100	220	36	16.4	15.9	10	53	192	<5	<1
HM-07-33	<100	140	7	4.5	1.8	73	7	24	<5	1
HM-07-34	<100	370	255	132	96.2	77	390	2100	<5	6
HM-07-35	<100	130	9	6.0	2.3	62	8	31	<5	1
HM-07-36	<100	120	14	7.3	4.3	13	16	38	<5	<1
HM-07-37	<100	130	12	6.4	3.4	18	12	43	<5	1
HM-07-38	<100	150	16	7.2	7.0	25	23	107	<5	1
HM-07-39	100	250	6	3.1	2.1	260	7	34	<5	2
HM-07-40	<100	240	36	15.9	15.9	17	56	226	<5	<1
HM-07-41	<100	110	8	3.8	2.9	49	10	62	<5	2
HM-07-42	<100	160	7	3.2	2.2	114	8	39	<5	<1
HM-07-43	<100	640	8	7.8	1.0	69	4	12	8	2
HM-07-44	200	390	19	8.7	8.4	139	32	171	8	9
HM-07-45	<100	340	11	7.9	2.1	99	9	33	<5	<1
HM-07-46	100	1770	57	27.7	22.4	76	88	416	<5	5
HM-07-47	100	400	25	12.9	9.8	113	36	151	6	3
HM-07-48	<100	900	15	10.1	2.1	33	9	16	<5	<1

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
HM-07-49	<100	220	8	6.8	1.1	36	4	11	<5	<1
HM-07-50	200	280	27	11.6	11.4	74	44	200	<5	2
HM-07-51	700	420	23	9.9	10.4	195	41	227	16	4
HM-07-52	200	820	66	28.5	33.9	116	134	684	<5	4
HM-07-53	400	560	16	7.6	7.3	198	28	139	13	9
HM-07-54	<100	570	25	11.9	12.0	17	49	150	<5	3
HM-07-55	100	310	29	12.4	13.2	74	48	176	<5	2
HM-07-56	100	1930	24	13.0	7.7	139	30	122	6	4
HM-07-57	<100	180	16	7.1	6.3	23	22	62	<5	<1
HM-07-58	<100	130	12	8.4	2.5	47	9	25	<5	<1
HM-07-59	<100	160	7	4.4	2.3	69	8	31	<5	<1
HM-07-60	<100	160	8	5.5	1.6	62	6	14	<5	1
HM-07-60 Dup	<100	170	9	6.0	1.7	56	6	14	<5	2
HM-07-61	200	340	28	13.0	10.0	72	36	150	<5	2
HM-07-62	<100	190	11	5.9	2.5	23	10	26	<5	<1
HM-07-63	<100	190	13	6.5	3.4	17	12	34	<5	<1
HM-07-64	<100	130	7	5.2	1.4	55	5	13	<5	<1
HM-07-65	100	1370	89	42.5	49.2	109	199	1090	<5	12
HM-07-66	<100	220	11	6.6	3.5	85	12	54	6	2
HM-07-67	<100	270	13	6.8	4.0	111	14	60	6	2
HM-07-68	<100	120	7	6.3	1.1	30	4	10	<5	<1
HM-07-69	<100	120	10	6.6	1.9	38	8	22	<5	<1
HM-07-70	<100	50	11	7.2	1.9	28	7	12	<5	<1
HM-07-71	<100	80	11	6.9	2.2	39	8	16	<5	<1
HM-07-72	<100	80	10	6.9	2.1	38	8	21	<5	1
HM-07-73	<100	40	9	6.0	2.2	38	8	21	<5	<1
HM-07-74	<100	320	1	1.0	<0.5	198	1	10	55	28
HM-07-75	200	670	13	6.1	5.0	132	18	89	27	8
*Dup HM-07-1	<100	6450	104	36.2	61.6	36	225	985	<5	24
*Dup HM-07-13	300	690	41	19.2	18.5	198	67	263	5	2
*Dup HM-07-25	<100	300	17	8.9	4.6	58	17	66	<5	<1
*Dup HM-07-37	<100	130	12	6.2	3.1	21	11	39	<5	1
*Dup HM-07-49	<100	230	10	7.8	1.5	32	6	12	<5	<1
*Dup HM-07-60 Dup	<100	160	8	5.6	1.5	60	6	15	<5	1
*Dup HM-07-72	<100	80	9	6.3	1.7	41	7	17	<5	1
*Std MMISRM14	<100	710	2	0.8	0.9	4	4	3	<5	32
*Std MMISRM14	<100	730	2	0.8	0.9	2	4	3	<5	33
*Bik BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Bik BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB	Sc MMI-M5 5 PPB
HM-07-1	60	5.6	1360	38	220	<1	330	55	<1	27
HM-07-2	5	4.1	121	69	190	<1	26	70	<1	57
HM-07-3	<5	4.1	230	200	170	<1	56	116	<1	43
HM-07-4	<5	6.4	42	126	30	<1	12	23	<1	26
HM-07-5	<5	2.9	59	139	240	<1	14	188	<1	33
HM-07-6	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-7	7	3.3	184	49	170	<1	40	44	3	54
HM-07-8	<5	<0.5	87	127	240	<1	18	115	<1	46
HM-07-9	<5	2.8	28	135	300	<1	6	199	<1	30
HM-07-10	<5	2.5	108	113	260	<1	25	161	<1	46
HM-07-11	<5	2.4	34	210	290	<1	8	163	<1	23
HM-07-12	9	4.3	40	292	370	<1	10	135	1	50
HM-07-13	9	13.4	380	127	170	<1	93	53	1	85
HM-07-14	<5	1.7	36	107	180	<1	9	120	<1	18
HM-07-15	<5	5.3	44	169	330	<1	11	139	<1	40
HM-07-16	<5	11.9	52	84	80	<1	14	214	<1	36
HM-07-17	<5	12.5	88	92	310	<1	23	99	<1	40
HM-07-18	<5	2.2	54	146	540	<1	12	124	<1	29
HM-07-19	<5	5.6	18	136	240	<1	4	133	<1	32
HM-07-20	<5	3.1	28	90	340	<1	6	168	<1	38
HM-07-21	<5	2.0	35	147	280	<1	8	125	<1	25
HM-07-22	7	3.5	58	127	340	<1	14	167	<1	37
HM-07-23	5	10.3	67	137	410	<1	16	124	<1	49
HM-07-24	<5	4.4	116	151	180	<1	30	110	<1	31
HM-07-25	<5	3.2	68	55	170	<1	17	21	<1	38
HM-07-26	<5	<0.5	88	59	280	<1	19	54	<1	30
HM-07-27	<5	3.3	1090	115	190	<1	269	82	<1	74
HM-07-28	<5	6.0	26	92	60	<1	6	58	<1	25
HM-07-29	<5	1.9	54	149	210	<1	12	74	<1	21
HM-07-30	<5	0.6	558	22	90	<1	144	55	<1	33
HM-07-31	<5	4.8	12	149	40	<1	3	35	<1	16
HM-07-32	<5	0.7	271	39	150	<1	67	56	<1	52
HM-07-33	<5	5.8	28	287	120	<1	7	24	<1	21
HM-07-34	<5	26.7	2170	46	160	<1	561	76	<1	357
HM-07-35	<5	2.2	34	126	240	<1	8	97	<1	26
HM-07-36	<5	<0.5	64	62	190	<1	14	111	<1	24
HM-07-37	<5	1.0	53	116	200	<1	13	101	<1	23
HM-07-38	<5	3.2	112	33	160	<1	27	116	<1	31
HM-07-39	8	15.2	34	44	30	<1	9	71	<1	35
HM-07-40	<5	1.4	293	52	150	<1	71	107	<1	44
HM-07-41	9	11.7	48	17	120	<1	13	54	2	22
HM-07-42	6	5.8	38	56	100	<1	10	69	<1	19
HM-07-43	<5	2.5	14	92	220	<1	3	72	<1	32
HM-07-44	10	11.4	196	169	320	<1	50	77	8	36
HM-07-45	5	1.8	36	111	140	<1	9	57	<1	18
HM-07-46	17	9.3	514	108	310	<1	138	43	3	74
HM-07-47	6	7.5	201	102	240	<1	49	87	<1	41
HM-07-48	<5	1.2	28	53	280	<1	6	68	<1	23

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB	Sc MMI-M5 5 PPB
HM-07-49	<5	0.9	14	39	240	<1	3	84	<1	19
HM-07-50	6	4.8	243	68	180	<1	61	39	<1	32
HM-07-51	10	29.9	241	160	180	<1	63	47	2	55
HM-07-52	13	14.8	870	72	160	<1	224	79	2	63
HM-07-53	9	13.8	167	212	180	<1	42	112	3	39
HM-07-54	<5	1.0	241	65	140	<1	54	80	<1	21
HM-07-55	<5	6.4	257	148	180	<1	62	44	1	30
HM-07-56	10	5.4	147	170	360	<1	38	98	1	48
HM-07-57	<5	1.3	96	35	170	<1	22	162	<1	21
HM-07-58	5	2.1	37	201	170	<1	9	292	<1	22
HM-07-59	6	5.8	34	119	100	<1	8	74	<1	25
HM-07-60	<5	2.1	21	123	260	<1	5	150	<1	21
HM-07-60 Dup	<5	1.9	22	131	290	<1	5	149	<1	20
HM-07-61	5	8.2	178	149	250	<1	44	273	<1	51
HM-07-62	<5	1.2	40	99	250	<1	9	132	<1	22
HM-07-63	<5	1.4	49	101	310	<1	11	138	<1	24
HM-07-64	<5	3.4	16	169	200	<1	4	153	<1	22
HM-07-65	10	11.0	1340	58	190	<1	341	87	<1	56
HM-07-66	<5	4.8	56	139	220	<1	14	95	<1	35
HM-07-67	<5	10.4	67	135	470	<1	17	130	<1	41
HM-07-68	<5	0.9	13	112	190	<1	3	139	<1	22
HM-07-69	<5	0.9	33	79	190	<1	8	100	<1	26
HM-07-70	<5	0.5	25	74	170	<1	5	103	<1	27
HM-07-71	<5	1.1	27	88	450	<1	6	94	<1	26
HM-07-72	<5	1.0	29	207	270	<1	7	144	<1	24
HM-07-73	<5	1.3	30	61	210	<1	7	93	<1	21
HM-07-74	<5	1.6	7	529	20	<1	2	42	<1	12
HM-07-75	10	35.0	92	79	330	<1	23	101	<1	64
*Dup HM-07-1	58	5.5	1200	33	200	<1	297	50	<1	23
*Dup HM-07-13	9	11.9	390	116	170	<1	95	51	1	76
*Dup HM-07-25	<5	2.9	81	70	170	<1	20	19	<1	37
*Dup HM-07-37	<5	1.0	48	122	230	<1	11	101	<1	23
*Dup HM-07-49	<5	0.8	19	39	270	<1	4	87	<1	20
*Dup HM-07-60 Dup	<5	2.1	21	124	300	<1	5	143	<1	21
*Dup HM-07-72	<5	1.0	24	179	230	<1	6	144	<1	20
*Std MMISRM14	34	<0.5	16	271	120	41	3	265	<1	8
*Std MMISRM14	34	<0.5	14	280	120	42	3	256	<1	7
*Bik BLANK	<5	<0.5	<1	<5	<10	<1	<1	<5	<1	<5
*Bik BLANK	<5	<0.5	<1	<5	<10	<1	<1	<5	<1	<5

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.

Element Method Det.Lim. Units	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB	U MMI-M5 1 PPB
HM-07-1	260	<1	770	<1	30	<10	36.2	1670	0.7	22
HM-07-2	28	<1	50	<1	5	<10	41.6	1490	<0.5	9
HM-07-3	46	<1	60	<1	6	<10	33.8	1640	1.2	9
HM-07-4	8	<1	90	<1	1	<10	14.2	1330	0.5	5
HM-07-5	13	<1	40	<1	3	<10	10.6	1130	0.6	5
HM-07-6	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-7	38	<1	10	<1	5	<10	16.4	1200	<0.5	8
HM-07-8	20	<1	30	<1	4	<10	8.2	77	0.5	5
HM-07-9	7	<1	50	<1	1	<10	6.6	647	<0.5	4
HM-07-10	25	<1	30	<1	4	<10	20.1	758	<0.5	6
HM-07-11	8	<1	90	<1	2	<10	9.5	538	<0.5	5
HM-07-12	9	1	80	<1	1	<10	33.4	1910	0.7	7
HM-07-13	74	1	60	<1	9	<10	55.8	5110	0.6	12
HM-07-14	8	<1	40	<1	1	<10	6.8	481	<0.5	3
HM-07-15	10	<1	50	<1	1	<10	26.8	1820	0.8	6
HM-07-16	9	2	110	<1	1	<10	18.2	3540	0.6	5
HM-07-17	17	2	30	<1	3	<10	12.8	4390	0.5	4
HM-07-18	12	<1	20	<1	3	<10	19.2	656	<0.5	7
HM-07-19	4	<1	60	<1	1	<10	10.0	1860	<0.5	5
HM-07-20	7	<1	50	<1	2	<10	7.0	832	<0.5	4
HM-07-21	8	<1	90	<1	2	<10	8.1	535	<0.5	4
HM-07-22	16	<1	40	<1	3	<10	23.9	812	0.5	10
HM-07-23	14	2	150	<1	2	<10	13.0	4520	0.6	6
HM-07-24	23	1	270	<1	3	<10	16.3	1860	<0.5	5
HM-07-25	14	<1	20	<1	2	<10	15.8	624	<0.5	10
HM-07-26	19	<1	<10	<1	4	<10	6.5	94	<0.5	6
HM-07-27	194	<1	620	<1	22	<10	41.9	735	1.1	33
HM-07-28	6	<1	110	<1	1	<10	10.7	1130	0.6	11
HM-07-29	12	<1	30	<1	2	<10	5.5	681	<0.5	4
HM-07-30	95	<1	10	<1	11	<10	10.2	197	0.7	6
HM-07-31	3	<1	50	<1	<1	<10	4.3	1650	<0.5	2
HM-07-32	55	<1	20	<1	8	<10	11.5	234	<0.5	6
HM-07-33	6	<1	60	<1	1	<10	9.5	2630	<0.5	3
HM-07-34	407	1	570	2	53	<10	71.8	7130	2.4	23
HM-07-35	7	<1	60	<1	1	<10	5.8	581	<0.5	3
HM-07-36	15	<1	10	<1	2	<10	5.8	110	<0.5	4
HM-07-37	11	<1	50	<1	2	<10	5.7	275	<0.5	3
HM-07-38	23	<1	170	<1	3	<10	8.0	1120	0.6	3
HM-07-39	7	2	80	<1	1	<10	11.9	5320	<0.5	4
HM-07-40	58	<1	100	<1	8	<10	15.0	486	<0.5	7
HM-07-41	9	3	40	<1	1	<10	7.4	4440	<0.5	2
HM-07-42	8	<1	70	<1	1	<10	13.4	1320	0.6	7
HM-07-43	3	<1	90	<1	<1	<10	11.2	607	<0.5	7
HM-07-44	35	2	550	<1	4	<10	36.0	3030	0.9	9
HM-07-45	8	<1	70	<1	2	<10	12.3	489	<0.5	6
HM-07-46	92	<1	310	<1	12	<10	49.8	1400	0.6	25
HM-07-47	38	<1	120	1	5	<10	24.8	2470	0.5	7
HM-07-48	7	<1	10	<1	2	<10	5.6	315	<0.5	5

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Element Method Det.Lim. Units	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB	U MMI-M5 1 PPB
HM-07-49	4	<1	10	<1	<1	<10	5.4	196	<0.5	5
HM-07-50	47	<1	280	<1	6	<10	39.3	1190	0.7	14
HM-07-51	45	3	300	3	5	<10	123	7310	1.3	15
HM-07-52	151	1	450	1	16	<10	106	3570	1.6	17
HM-07-53	30	1	1040	1	4	<10	36.1	4090	0.9	10
HM-07-54	50	<1	750	<1	6	<10	18.4	207	0.7	30
HM-07-55	53	<1	390	<1	6	<10	43.2	1570	0.6	10
HM-07-56	30	<1	230	<1	5	<10	31.6	1210	1.5	17
HM-07-57	22	<1	20	<1	3	<10	10.0	370	0.5	4
HM-07-58	8	<1	30	<1	2	<10	9.4	666	0.5	6
HM-07-59	8	<1	40	<1	1	<10	6.7	2480	<0.5	5
HM-07-60	5	<1	40	<1	1	<10	7.1	533	0.5	3
HM-07-60 Dup	5	<1	40	<1	1	<10	7.2	481	0.5	3
HM-07-61	36	<1	70	<1	5	<10	39.7	2340	1.1	8
HM-07-62	9	<1	10	<1	2	<10	8.4	369	<0.5	4
HM-07-63	11	<1	60	<1	2	<10	8.7	395	<0.5	4
HM-07-64	4	<1	40	<1	1	<10	6.1	1210	0.6	3
HM-07-65	222	1	390	<1	23	<10	70.3	2520	0.8	19
HM-07-66	12	<1	110	<1	2	<10	14.7	1710	<0.5	5
HM-07-67	14	2	80	<1	2	<10	21.7	3670	0.5	6
HM-07-68	3	<1	20	<1	<1	<10	3.6	186	<0.5	3
HM-07-69	7	<1	10	<1	1	<10	5.4	225	<0.5	3
HM-07-70	6	<1	<10	<1	1	<10	4.3	192	<0.5	2
HM-07-71	7	<1	20	<1	2	<10	7.8	333	<0.5	4
HM-07-72	7	<1	40	<1	1	<10	5.0	295	<0.5	3
HM-07-73	6	<1	20	<1	1	<10	2.7	461	<0.5	2
HM-07-74	1	<1	230	<1	<1	<10	5.7	534	0.7	2
HM-07-75	18	8	90	3	3	<10	19.8	13600	0.7	8
*Dup HM-07-1	228	<1	710	<1	26	<10	35.6	1810	0.7	22
*Dup HM-07-13	74	1	70	<1	9	<10	52.3	4360	0.6	12
*Dup HM-07-25	17	<1	20	<1	3	<10	15.8	542	0.5	10
*Dup HM-07-37	10	<1	60	<1	2	<10	5.5	283	<0.5	3
*Dup HM-07-49	5	<1	10	<1	1	<10	5.4	194	<0.5	5
*Dup HM-07-60 Dup	5	<1	30	<1	1	<10	7.1	514	<0.5	3
*Dup HM-07-72	6	<1	40	<1	1	<10	4.3	282	<0.5	2
*Std MMISRM14	4	<1	510	<1	<1	<10	19.5	51	<0.5	36
*Std MMISRM14	4	<1	480	<1	<1	<10	20.1	<3	<0.5	38
*Bik BLANK	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5	<1
*Bik BLANK	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5	<1

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Final : 096573 Order:

Element Method Det.Lim. Units	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
HM-07-1	2	493	24	30	40
HM-07-2	<1	127	12	40	36
HM-07-3	<1	107	8	60	43
HM-07-4	<1	32	4	80	22
HM-07-5	<1	90	8	240	22
HM-07-6	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
HM-07-7	<1	149	14	<20	29
HM-07-8	<1	140	11	30	9
HM-07-9	<1	50	6	20	17
HM-07-10	<1	103	8	60	35
HM-07-11	<1	57	5	50	20
HM-07-12	1	37	4	160	53
HM-07-13	2	189	17	30	82
HM-07-14	<1	42	4	120	15
HM-07-15	<1	32	4	60	45
HM-07-16	<1	30	4	110	38
HM-07-17	<1	76	6	60	43
HM-07-18	<1	73	6	100	26
HM-07-19	<1	42	5	390	25
HM-07-20	<1	58	7	270	22
HM-07-21	<1	60	5	200	16
HM-07-22	<1	67	6	100	38
HM-07-23	<1	62	4	220	48
HM-07-24	<1	65	5	160	32
HM-07-25	<1	74	7	90	26
HM-07-26	<1	134	10	100	10
HM-07-27	<1	525	34	30	44
HM-07-28	<1	33	4	130	28
HM-07-29	<1	74	5	70	12
HM-07-30	<1	264	16	<20	11
HM-07-31	<1	23	3	80	13
HM-07-32	<1	174	13	<20	15
HM-07-33	<1	36	4	30	16
HM-07-34	3	1310	106	30	133
HM-07-35	<1	52	5	<20	15
HM-07-36	<1	75	6	<20	9
HM-07-37	<1	68	5	40	13
HM-07-38	<1	77	6	30	21
HM-07-39	<1	24	3	30	38
HM-07-40	<1	188	11	<20	19
HM-07-41	1	36	3	50	35
HM-07-42	<1	26	3	70	30
HM-07-43	<1	37	9	920	19
HM-07-44	2	89	7	310	55
HM-07-45	<1	53	7	150	15
HM-07-46	1	307	21	40	61
HM-07-47	2	123	10	70	38
HM-07-48	<1	85	9	180	12

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Final : 096573 Order:

Element Method Det.Lim. Units	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
HM-07-49	<1	43	7	160	11
HM-07-50	2	120	9	20	58
HM-07-51	6	93	8	60	165
HM-07-52	3	296	22	40	115
HM-07-53	2	75	6	230	65
HM-07-54	<1	130	10	<20	16
HM-07-55	1	125	9	30	48
HM-07-56	1	121	12	100	45
HM-07-57	<1	72	6	30	16
HM-07-58	<1	71	7	60	17
HM-07-59	<1	39	4	70	24
HM-07-60	<1	41	5	120	16
HM-07-60 Dup	<1	44	6	110	16
HM-07-61	1	120	10	60	58
HM-07-62	<1	56	5	60	15
HM-07-63	<1	62	5	50	19
HM-07-64	<1	39	5	40	14
HM-07-65	2	495	33	50	56
HM-07-66	<1	56	6	60	30
HM-07-67	<1	61	5	380	44
HM-07-68	<1	44	6	<20	10
HM-07-69	<1	61	6	30	12
HM-07-70	<1	69	6	<20	8
HM-07-71	<1	56	6	170	13
HM-07-72	<1	55	6	90	11
HM-07-73	<1	56	5	40	7
HM-07-74	<1	<5	1	90	10
HM-07-75	3	58	5	620	101
*Dup HM-07-1	2	437	22	40	42
*Dup HM-07-13	2	180	15	30	74
*Dup HM-07-25	<1	76	7	80	24
*Dup HM-07-37	<1	65	5	60	12
*Dup HM-07-49	<1	51	7	160	12
*Dup HM-07-60 Dup	<1	42	5	90	15
*Dup HM-07-72	<1	50	5	90	10
*Std MMISRM14	<1	10	<1	310	12
*Std MMISRM14	<1	9	<1	320	12
*Bik BLANK	<1	<5	<1	<20	<5
*Bik BLANK	<1	<5	<1	<20	<5

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.

ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	
METHOD	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
DETECTION	1	1	10	0.1	10	1	10	10	
UNITS	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	
HM-07-15	28	174	<10		0.5	360	<1	20	<10
HM-07-15	14	282	<10		1.2	750	<1	20	<10
HM-07-15	17	215	<10	<0.1		290	<1	<10	<10
HM-07-15	14	215	<10	<0.1		480	<1	<10	<10
HM-07-16	14	186	<10		0.6	140	<1	<10	<10
HM-07-16	4	251	<10	<0.1		510	<1	<10	<10
HM-07-16	13	161		10	0.1	220	1	<10	10
HM-07-16	6	205	<10	<0.1		390	<1	<10	<10
HM-07-16	10	156	<10	<0.1		130	<1	10	10
HM-07-16	6	127	<10	<0.1		160	<1	10	<10
HM-07-16	11	226	<10	<0.1		280	<1	<10	<10
HM-07-16	10	58	<10		0.1	140	<1	20	<10
HM-07-16	21	>300		20	0.3	640	<1	<10	<10
HM-07-16	<1	110	<10	<0.1		210	<1	<10	<10
HM-07-17	19	200	<10	<0.1		360	<1	<10	<10
HM-07-17	<1	258	<10	<0.1		190	<1	<10	<10
HM-07-17	3	266		40	<0.1	1070	2	20	20
HM-07-17	<1	260	<10		0.1	220	<1	<10	<10
HM-07-17	2	99	<10	<0.1		90	<1	<10	<10
HM-07-17	3	113	<10		0.3	260	<1	20	<10
HM-07-17	4	103	<10	<0.1		90	<1	<10	<10
HM-07-17	1	135	<10		0.3	230	<1	80	<10
HM-07-17	5	194	<10	<0.1		600	<1	20	<10
HM-07-17	10	83	<10		9.1	50	1	<10	<10
HM-07-18	<1	168		20	0.1	1000	1	50	<10
HM-07-18	<1	170	<10		0.1	650	<1	60	<10
HM-07-18	6	172	<10		0.1	810	1	80	<10
HM-07-18	2	145		20	<0.1	620	2	30	<10
HM-07-18	9	254	<10	<0.1		740	<1	10	10
HM-07-18	8	161	<10		0.4	400	<1	<10	<10
HM-07-18	6	>300	<10	<0.1		600	1	<10	<10
HM-07-18	14	>300		20	<0.1	890	<1	<10	<10
HM-07-18	9	162	<10		0.1	270	<1	<10	<10
HM-07-18	13	>300		10	<0.1	660	<1	20	<10
HM-07-18	22	163	<10		0.9	200	<1	20	<10
HM-07-19	19	138	<10		0.2	280	<1	<10	<10
HM-07-19	38	239	<10		0.8	270	<1	<10	<10
HM-07-19	9	235		10	<0.1	500	<1	<10	<10
HM-07-19	6	222	<10	<0.1		270	<1	<10	<10
HM-07-19	4	269		10	<0.1	390	<1	<10	<10
HM-07-19	10	100	<10	<0.1		40	<1	<10	<10
HM-07-19	3	223	<10	<0.1		440	<1	10	<10
HM-07-19	8	236		10	<0.1	300	<1	<10	<10
HM-07-19	6	282	<10	<0.1		610	<1	10	10
HM-07-19	17	188	<10		0.1	230	<1	<10	<10
HM-07-20	12	251		10	<0.1	440	<1	70	20

HM-07-20:	13	240 <10	<0.1		270 <1		30 <10	
HM-07-20:	5	166 <10		0.3	830 <1		110 <10	
HM-07-20:	4 >300		20 <0.1		1210 <1	<10	<10	
HM-07-20:	11	76	20 <0.1		1020	1	230	10
HM-07-20:	6	120 <10	<0.1		60 <1	<10	<10	
HM-07-20:	1	223	10 <0.1		610	1	30	10
HM-07-20:	10	189 <10	<0.1		540 <1		30 <10	
HM-07-20:	7	169 <10		0.2	450 <1		10 <10	
HM-07-20:	4	208 <10	<0.1		170 <1	<10	<10	
HM-07-21:	2	112	10	0.4	430 <1		200 <10	
HM-07-21:	7	142	10	0.6	880	2	150 <10	
HM-07-21:	10	235 <10	<0.1		380 <1		30 <10	
HM-07-21:	3	235 <10		0.1	190	1	10 <10	
HM-07-21:	4	32	20	0.2	760 <1		170 <10	
HM-07-21:	7 >300		20 <0.1		780	2	10 <10	
HM-07-21:	6	160	30	0.2	1540	2	20 <10	
HM-07-21:	1	273	20 <0.1		660	4 <10		10
HM-07-21:	6 >300		10 <0.1		630 <1	<10		20
HM-07-21:	1	250 <10	<0.1		380 <1	<10	<10	
HM-07-21:	19	275	10	0.2	540 <1		10 <10	
HM-07-22:	5	216 <10		0.1	100 <1	<10	<10	
HM-07-22:	26	150 <10	<0.1		260 <1	<10	<10	
HM-07-22:	7	202 <10	<0.1		600 <1		10 <10	
HM-07-22:	2	178 <10	<0.1		910 <1		100 <10	
HM-07-22:	4	172 <10	<0.1		720 <1		10 <10	
HM-07-22:	3	73 <10	<0.1		640	1	380	20
HM-07-22:	6	256	10	0.1	580 <1		20 <10	
HM-07-22:	6	284	10 <0.1		630 <1		10	10
HM-07-22:	1	246	20 <0.1		2410	3 <10	<10	
HM-07-22:	11	243 <10	<0.1		820 <1		60	20
DUP-HM-0	24	172 <10		0.5	390 <1		20 <10	
DUP-HM-0	21 >300		20	0.3	700 <1	<10	<10	
DUP-HM-0 <1		120 <10		0.3	840 <1		60 <10	
DUP-HM-0	40	240 <10		0.9	270 <1	<10	<10	
DUP-HM-0	4 >300		20	0.1	1280 <1	<10	<10	
DUP-HM-0	7 >300		10 <0.1		670	2 <10	<10	
DUP-HM-0	6	259	10 <0.1		540 <1		20 <10	
MMISRM1	17	38	10	43.8	60 <1		230 <10	
MMISRM1	17	39	10	43.4	70 <1		230 <10	
BLANK <1	<1	<10	<0.1	<10	<1	<10	<10	
BLANK <1	<1	<10	<0.1	<10	<1	<10	<10	

Ce	Co	Cr	Cu	Dy	Er	Eu	Fe	Gd	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
5	5	100	10	1	0.5	0.5	1	1	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPM	PPB	
288	13	<100		370	34	18.1	10.8	37	41
151	51	300		310	21	12	5.2	101	20
44	27	<100		100	11	6.2	2.2	54	8
77	61	<100		160	17	9.9	4.2	62	15
30	22	<100		760	10	8.4	1.3	74	5
25	34	<100		80	3	2.3	0.7	90	2
36	53	<100		200	7	6.2	1.2	127	4
42	48	<100		60	8	6	1.8	47	6
117	24	<100		70	14	6.7	4.5	12	17
217	46	<100		250	21	9.6	8.8	38	30
27	76	<100		140	5	3.7	1	82	3
58	15	<100		70	10	6	3	12	11
97	78	200		460	15	8.4	4	204	14
114	70	<100		600	17	9.7	5.3	199	18
30	60	<100		170	8	6.4	1.7	48	6
38	13	<100		190	4	2.4	1.3	68	4
70	66	100		660	5	3.1	1.6	166	5
62	17	<100		300	7	3.3	2.1	102	8
252	19	<100		170	44	18	14.8	8	50
1090	65	<100		680	83	32.7	33.3	22	117
93	24	<100		170	16	8.2	5	18	17
260	23	<100		490	18	7.3	8.8	68	31
85	76	<100		210	10	5.9	3.4	80	11
13	13	<100		2950	4	3.3	0.8	174	3
232	44	200		1030	20	8.7	6.4	233	25
111	46	<100		830	12	6.2	3.8	225	14
470	75	<100		1910	52	21.9	21.4	84	78
127	86	100		560	7	4.2	2	306	7
185	117	<100		220	17	8.2	4.9	54	17
200	45	<100		250	19	8.9	7.6	73	26
163	55	<100		120	28	14.5	6.8	138	24
329	113	100		900	31	13.6	13	67	41
62	106	<100		100	15	8	3.6	30	13
502	73	200		410	31	12.8	14.1	92	47
364	31	<100		1180	82	40.8	27.9	29	107
317	40	<100		450	36	15.8	14	31	48
122	65	<100		360	20	10.7	5.7	54	20
152	57	<100		240	16	9	5.5	170	20
17	81	<100		70	4	4.2	0.7	47	3
231	75	100		250	17	11.1	5.2	158	19
159	16	<100		80	18	9.7	8.2	21	26
102	96	<100		250	9	6.5	2.7	160	9
127	134	<100		100	16	8.8	4.9	46	17
58	380	<100		210	13	8.8	2.6	119	10
99	63	<100		110	20	11.2	5.1	39	18
261	85	<100		270	24	11.9	7	121	26

221	74	<100	390	23	9.9	8.1	88	29
1090	17	<100	510	34	12.8	19.5	43	69
104	123	100	420	7	3.9	2.1	91	6
305	61	100	250	13	5.8	6	83	23
146	37	<100	150	21	12.1	6.4	13	22
22	63	<100	190	4	2.5	0.7	186	2
56	73	<100	60	10	5	3.2	32	11
80	57	<100	180	12	6	3.4	30	11
77	27	<100	140	15	7.7	3.6	25	12
678	62	<100	180	24	10.4	13.3	70	50
1210	73	200	2260	43	17.6	23.3	71	87
62	72	<100	90	11	5.6	3.2	42	11
402	40	<100	1420	63	29.6	22.9	146	85
181	57	<100	400	31	14.5	16.5	67	65
335	84	100	330	24	13	8.4	123	30
876	64	200	530	48	19.7	24.1	152	85
150	76	<100	170	8	3.7	3.8	87	13
185	139	100	230	22	11.8	6.8	142	24
100	36	<100	450	14	8.9	3.1	152	12
310	73	200	250	22	10.5	8.1	94	28
154	22	<100	170	21	10.8	6.5	57	23
99	44	<100	150	19	10.6	5.1	25	18
61	33	<100	220	4	2.1	1.4	222	5
682	21	<100	360	63	29.2	28.3	76	110
65	126	<100	240	7	4	2	115	7
123	64	100	150	6	3.2	2.4	56	9
188	76	100	400	13	7.2	5	165	18
109	159	<100	210	21	14.3	4.1	128	16
582	94	300	980	29	11.6	14.2	305	46
89	45	<100	140	13	6.5	3.7	54	14
296	13	<100	350	37	19.4	11.6	37	44
100	72	200	420	14	8.1	3.8	199	13
327	26	<100	760	23	9.3	9.7	200	37
107	82	<100	390	20	11.2	5.2	48	17
97	108	<100	430	6	3.3	1.8	94	6
334	72	100	310	24	12.9	8.8	115	31
182	71	100	370	14	7.6	5.3	165	18
16	52	<100	770	2	0.8	0.8	3	4
15	52	<100	760	2	0.8	0.8	3	4
<5	<5	<100	<10	<1	<0.5	<0.5	<1	<1
<5	<5	<100	<10	<1	<0.5	<0.5	<1	<1

La	Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
1	5	1	5	0.5	1	5	10	1
PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB
90 <5			1	10	2.4	182	56	220 <1
62	6		5 <5		2.4	90	169	150 <1
19 <5			1 <5		2.9	29	83	280 <1
44 <5			1 <5		4	62	114	340 <1
13 <5	<1		<5		3.1	19	59	250 <1
14	6		1 <5		2.4	12	68	30 <1
18	14		3	5	11.6	19	163	420 <1
17	8		1 <5		0.9	26	169	210 <1
45 <5	<1		<5		1	73	77	250 <1
94 <5	<1		<5		2.2	148	119	290 <1
13	9		3 <5		2	15	115	40 <1
28 <5	<1		<5	<0.5		45	204	250 <1
48	11		1 <5		7.2	55	242	390 <1
42 <5	<1			5	3	70	28	90 <1
14 <5	<1		<5		1.1	20	137	240 <1
18 <5			1 <5		4.7	19	67	70 <1
32	16		4 <5		8	27	127	280 <1
28	8		2 <5		9	33	46	140 <1
120 <5	<1		<5	<0.5		220	18	130 <1
431 <5			2 <5		1.8	584	157	230 <1
34 <5	<1		<5	<0.5		71	47	210 <1
117	5		8	6	2.2	170	80	80 <1
40 <5			2 <5		3	49	72	180 <1
6 <5	<1			9 <0.5		8	29	260 <1
106 <5			2	6	3.3	112	57	140 <1
50 <5			3	6	5.2	56	65	110 <1
289	14		12	6	4.3	426	177	380 <1
36 <5			6 <5		11.4	37	61	80 <1
77 <5			2 <5		2.6	92	155	470 <1
82	9		2 <5		10.6	120	85	190 <1
61	27		7	6	21.2	87	104	340 <1
185	8		1	9	4.6	198	234	340 <1
27 <5			2 <5		1	46	144	380 <1
210 <5			2	8	4.6	250	163	250 <1
271 <5			1 <5		0.9	508	74	200 <1
119 <5	<1		<5		1.4	214	48	160 <1
51 <5			1 <5		4	74	111	270 <1
80	9		2 <5		11	100	136	250 <1
8	6		3 <5		2.1	9	78	110 <1
72	8		2 <5		7.1	97	189	200 <1
68 <5	<1		<5		1.2	124	28	260 <1
35	11		3 <5		5	43	195	100 <1
49	5 <1		<5		2.4	75	175	260 <1
23	9		4 <5		7.3	36	187	270 <1
37 <5	<1		<5		1.9	67	177	290 <1
75	8		8 <5		4.1	114	247	260 <1

90	<5		1	<5	5.7	129	213	310	<1	
455	<5		7		6	3.7	487	100	100	<1
36		28	2	<5		6.4	33	121	220	<1
135		10	31		7	11.6	157	120	230	<1
62	<5	<1		<5		<0.5	104	35	200	<1
11		7	4	<5		6.1	10	120	140	<1
38	<5		2	<5		1.2	44	169	260	<1
34	<5	<1		<5		0.6	50	123	290	<1
32	<5	<1		<5		1.7	51	60	250	<1
351	<5		19	<5		3.2	371	138	50	<1
615		7	13		6	10	656	209	210	<1
27	<5		2	<5		1.3	42	134	180	<1
283	<5		2		8	9.8	420	120	170	<1
246	<5		16		8	3	432	63	90	<1
155		18	4		7	15.7	173	123	190	<1
427		9	3		8	16.1	547	62	280	<1
75		6	4		9	12.4	78	176	310	<1
86	<5		2		8	4.3	103	255	450	<1
53		7	3	<5		7.2	52	87	80	<1
113		5	1		6	5.6	137	159	190	<1
60	<5	<1			6	3.8	99	77	720	<1
45	<5		2	<5		0.8	76	122	260	<1
33	<5		2	<5		4.2	27	101	10	<1
464		8	6	<5		3	686	96	190	<1
28	<5		1	<5		2.4	30	113	260	<1
31		10	87	<5		1.7	48	157	230	<1
94		11	4	<5		6.8	97	192	70	<1
43		12	3	<5		8	63	147	450	<1
243		11	2		6	22.3	261	60	250	<1
32	<5		5	<5		3.4	50	183	390	<1
95	<5		1		10	2.4	195	49	240	<1
49		12	1	<5		7.1	54	220	450	<1
138	<5		2	<5		2.5	177	36	110	<1
45	<5		2	<5		3.9	65	133	270	<1
33		33	2	<5		6.2	29	118	190	<1
150		13	3		7	11.7	178	113	190	<1
90		11	3	<5		6.8	101	182	60	<1
3	<5		39		34	<0.5	13	300	120	44
4	<5		39		33	<0.5	13	295	120	43
<1	<5	<1	<5		<0.5	<1	<5	<10	<1	
1	<5	<1	<5		<0.5	<1	<5	<10	<1	

Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
1	5	1	5	1	1	10	1	1	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
38	149 <1			37	40 <1		30 <1		6
21	141 <1			62	20 <1		110 <1		4
7	57 <1			18	7 <1	<10	<1		2
14	112 <1			40	15 <1		30 <1		3
4	158 <1			28	4 <1	<10	<1		1
3	173 <1			17	2 <1		60 <1	<1	
5	350 <1			31	4	2 <10	<1	<1	
6	259 <1			20	6 <1		60 <1		1
16	174 <1			22	17 <1	<10	<1		3
33	59 <1			40	32 <1	<10	<1		4
3	132 <1			30	4 <1		60 <1	<1	
9	159 <1			12	10 <1		10 <1		2
13	256 <1			62	14 <1		50 <1		2
16	63 <1			51	18 <1	<10	<1		3
4	106 <1			21	5 <1		30 <1		1
5	92 <1			25	4 <1	<10	<1	<1	
7	90 <1			29	6	1	90 <1	<1	
8	52 <1			29	7	2 <10	<1		1
52	213 <1			58	55 <1	<10	<1		9
140	37 <1			82	124 <1	<10	<1		17
15	58 <1			27	17 <1	<10	<1		3
40	23 <1			24	34 <1		180 <1		4
11	146 <1			36	11 <1		50 <1		2
2	43 <1			15	2 <1	<10	<1	<1	
28	57 <1			45	24	1	120 <1		4
14	68 <1			33	13 <1		170 <1		2
102	76 <1			68	85 <1		330 <1		11
9	97		1	24	8	1	160 <1		1
22	205 <1			26	18 <1		70 <1		3
27	104 <1			42	26	2 <10	<1		4
20	142 <1			63	21	4	110	2	4
48	142 <1			64	44 <1	<10	<1		6
10	196 <1			20	12 <1	<10	<1		2
60	149		2	63	52 <1		20 <1		7
108	49 <1			41	105 <1		50 <1		16
45	113 <1			39	51 <1	<10	<1		7
17	128 <1			48	18 <1		20 <1		3
24	70 <1			34	21	2	20 <1		3
2	305 <1			21	2 <1		50 <1	<1	
23	47 <1			43	20 <1		30 <1		3
26	110 <1			37	26 <1	<10	<1		3
10	36 <1			14	9 <1		90 <1		2
17	120 <1			40	17 <1	<10	<1		3
8	92 <1			42	9 <1		80 <1		2
14	92 <1			41	18 <1	<10	<1		3
26	50 <1			27	26 <1		320 <1		4

29	134 <1		34	29 <1		80	1	5
127	122	3	35	84 <1		260 <1		9
9	57 <1		25	7 <1		60 <1		1
38	52	1	23	26 <1		820 <1		3
23	96 <1		39	23 <1	<10	<1		4
3	110 <1		16	3 <1		160 <1	<1	
10	110 <1		17	10 <1		100 <1		2
11	143 <1		22	11 <1		80 <1		2
11	66 <1		31	12 <1	<10	<1		2
94	15 <1		17	60 <1		480 <1		6
170	39	1	49	108 <1		340 <1		11
9	156 <1		18	10 <1		150 <1		2
96	49 <1		67	89	2	30 <1		12
96	59 <1		17	75 <1		810 <1		7
44	74	1	60	33	2	60	1	5
133	66 <1		70	102	2	80	1	11
19	13	2	21	15	3	60 <1		2
25	175	1	44	23 <1		70 <1		4
13	73 <1		39	11	1 <10	<1		2
32	103	1	48	29 <1		10 <1		4
22	119 <1		35	23 <1	<10	<1		4
16	156 <1		30	17 <1	<10	<1		3
7	48 <1		20	5 <1		70 <1	<1	
164	37 <1		57	123 <1		230 <1		14
7	161 <1		27	7 <1		50 <1		1
11	27 <1		14	10 <1		1720 <1		1
25	41 <1		28	19 <1		140 <1		3
14	161 <1		53	14 <1		70 <1		3
66	86 <1		75	53	2	30	2	6
11	175 <1		21	12 <1		270 <1		2
40	144 <1		38	43 <1		30 <1		7
13	270	1	63	13 <1		50 <1		2
42	50 <1		36	37 <1		110 <1		5
15	139 <1		47	16 <1		30 <1		3
8	51 <1		23	6 <1		60 <1		1
43	62	1	51	34	2	40 <1		5
25	42 <1		29	20 <1		100 <1		3
2	277 <1		5	4 <1		510 <1	<1	
2	273 <1		6	4 <1		490 <1	<1	
<1	<5	<1	<5	<1	<1	<10	<1	<1
<1	<5	<1	<5	<1	<1	<10	<1	<1

Te	Th	Ti	Tl	U	W	Y	Yb	Zn	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
	10	0.5	3	0.5	1	1	5	1	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<10	33.8	687	<0.5		15	<1	168	14	<20
<10	31.2	2220		1.8	9	<1	92	9	30
<10	5.3	1210	<0.5		4	<1	52	5	20
<10	23.3	1390		0.5	8	<1	82	8	50
<10	6.9	1260	<0.5		5	<1	56	8	110
<10	3.5	580		0.5	3	<1	13	3	40
<10	12.6	4700		0.5	12	<1	37	6	50
<10	8.6	222	<0.5		8	<1	40	6	<20
<10	12	272	<0.5		6	<1	67	5	<20
<10	17.6	1090	<0.5		6	<1	91	7	20
<10	6.8	569	<0.5		3	<1	24	5	<20
<10	3.1	22	<0.5		3	<1	55	4	<20
<10	16.8	1530		0.7	8	<1	67	8	70
<10	19	1200	<0.5		11	<1	71	8	50
<10	5.1	400	<0.5		4	<1	44	6	<20
<10	9.3	1390	<0.5		5	<1	17	2	50
<10	28	3150		0.6	5		22	3	480
<10	12.7	4060	<0.5		6	<1	29	3	100
<10	9.7	136	<0.5		9	<1	142	13	60
<10	20.5	754	<0.5		16	<1	309	22	50
<10	9.1	121	<0.5		4	<1	80	7	<20
<10	22.3	613	<0.5		16	<1	69	6	<20
<10	12.8	965	<0.5		4	<1	51	5	270
<10	6.7	84	<0.5		10	<1	18	3	<20
<10	29.7	1730		0.5	13	<1	78	7	20
<10	16.8	1860	<0.5		10	<1	50	5	<20
<10	62.4	1230		1.3	35	<1	210	15	<20
<10	26.5	3290		0.9	6		28	4	290
<10	32.6	850		0.5	8	<1	72	6	60
<10	15.5	4770	<0.5		7	<1	82	7	70
<10	19.5	10000		0.6	17		128	11	100
<10	21.8	1580		0.8	11	<1	127	11	30
<10	10.8	360	<0.5		7	<1	70	6	50
<10	37.9	1600		0.7	16	<1	121	9	30
<10	19.9	265	<0.5		11	<1	431	30	<20
<10	24.7	586	<0.5		9	<1	151	11	<20
<10	15.9	1690	<0.5		8	<1	90	8	50
<10	18.1	4550	<0.5		6	<1	77	8	30
<10	5.8	769		0.9	2	<1	20	6	120
<10	32	2650		0.5	10	<1	78	11	40
<10	6.6	492	<0.5		4	<1	97	8	<20
<10	16.5	1790		0.7	6	<1	43	6	20
<10	18.2	712	<0.5		6	<1	80	7	50
<10	14.6	3170		0.5	6	<1	62	8	70
<10	16.4	594	<0.5		7	<1	92	9	50
<10	29.9	1880	<0.5		8	<1	105	9	30

<10	27.3	2350 <0.5		8	2	92	7	60
<10	47.6	1090	0.7	13	2	128	10 <20	
<10	22.3	1790 <0.5		5 <1		26	4	160
<10	29.2	2610 <0.5		4	1	56	5	50
<10	9.1	97 <0.5		4 <1		115	9	30
<10	8.1	2590 <0.5		4 <1		17	2	390
<10	6	267 <0.5		3 <1		47	3	80
<10	6.1	179 <0.5		3 <1		57	4 <20	
<10	14.2	476 <0.5		6 <1		64	6	40
<10	33.8	597 <0.5		7	1	110	8	120
<10	123	1490	0.8	32	2	171	13	250
<10	4.2	423 <0.5		2 <1		52	4	90
<10	45.7	5760 <0.5		22	2	278	21	260
<10	36.4	1010 <0.5		14 <1		141	11	160
<10	21.8	6780	0.5	10	2	112	10	110
<10	91.8	7870	0.8	18	2	184	14	40
<10	29.7	10600 <0.5		10	5	34	3	280
<10	23.7	1230	0.6	21 <1		100	10	280
<10	13.5	4710	0.6	7	2	63	8	110
<10	42.9	2300	0.5	12	2	88	8	90
<10	26.4	1280 <0.5		12	1	90	9 <20	
<10	8.1	294 <0.5		4 <1		102	8 <20	
<10	10.9	1860 <0.5		5 <1		15	2 <20	
<10	29	637	0.6	13 <1		327	22 <20	
<10	12.7	708 <0.5		4 <1		30	3	170
<10	6.2	574 <0.5		5 <1		29	2	410
<10	25.6	2240 <0.5		10 <1		55	6	50
<10	32	2940	0.5	12	1	103	13	160
<10	76.9	10800 <0.5		17	9	96	9	60
<10	16.6	1170 <0.5		6 <1		57	5	120
<10	34.2	724 <0.5		15 <1		182	16 <20	
<10	16.9	1550	0.6	9 <1		62	7	50
<10	22.6	1250	0.5	13 <1		88	7 <20	
<10	15.9	1650 <0.5		8 <1		92	9	60
<10	21.9	1790 <0.5		4 <1		22	3	150
<10	18.8	4880 <0.5		9	1	113	10	80
<10	24.9	2300 <0.5		10 <1		58	7	50
<10	19.8 <3	<0.5		41 <1		8 <1		360
<10	20	5 <0.5		41 <1		8 <1		360
<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20
<10	<0.5	<3	<0.5	<1	<1	<5	<1	<20

Zr

MMI-M5

5

PPB

33

31

15

36

16

11

31

10

17

21

15

<5

45

33

11

29

33

54

16

31

12

38

30

17

54

39

58

40

34

39

72

51

15

57

20

21

32

37

14

38

10

16

25

29

23

24

38
42
33
37
14
18
13
12
23
25
104
9
43
25
53
96
38
46
30
56
34
13
23
27
21
15
30
45
87
21
33
46
38
31
32
42
29
11
11

<5

<5

ANALYTE METHOD DETECTION UNITS	Ag MMI-M5 PPB	Al MMI-M5 PPM	As MMI-M5 PPB	Au MMI-M5 PPB	Ba MMI-M5 PPB	Bi MMI-M5 PPB	Ca MMI-M5 PPM	Cd MMI-M5 PPB
	1	1	10	0.1	10	1	10	10
HM-07-1	19	52	20	7.2	2540	10	170	<10
HM-07-2	8	213	<10	0.5	800	<1	<10	10
HM-07-3	4	189	<10	0.3	710	<1	20	<10
HM-07-4	3	281	<10	<0.1	500	<1	10	<10
HM-07-5	35	254	<10	0.1	270	<1	<10	20
HM-07-7	38	177	<10	0.2	190	<1	<10	<10
HM-07-8	35	115	<10	0.5	330	<1	<10	<10
HM-07-9	14	269	<10	0.4	460	<1	<10	<10
HM-07-10	19	202	<10	0.2	670	<1	10	<10
HM-07-11	17	251	<10	<0.1	830	<1	10	<10
HM-07-12	11	150	30	<0.1	870	1	10	20
HM-07-13	7	233	30	0.6	630	1	20	<10
HM-07-14	14	247	<10	<0.1	460	<1	<10	<10
HM-07-15	8	150	20	0.2	1240	<1	<10	<10
HM-07-16	3	150	<10	<0.1	970	<1	10	<10
HM-07-17	24	150	<10	0.1	360	<1	<10	<10
HM-07-18	26	234	<10	<0.1	320	<1	<10	<10
HM-07-19	4	271	<10	<0.1	520	<1	<10	20
HM-07-20	8	252	<10	<0.1	290	<1	<10	10
HM-07-21	9	230	<10	<0.1	320	<1	10	20
HM-07-22	13	278	<10	<0.1	480	<1	<10	10
HM-07-23	16	280	<10	<0.1	560	<1	40	10
HM-07-24	23	217	<10	<0.1	420	<1	70	<10
HM-07-25	1	244	<10	0.2	160	<1	<10	<10
HM-07-26	3	137	<10	0.3	40	<1	<10	10
HM-07-27	6	110	<10	0.3	1140	<1	190	<10
HM-07-28	<1	259	<10	0.2	370	<1	20	<10
HM-07-29	13	176	<10	<0.1	210	<1	<10	<10
HM-07-30	4	74	<10	0.1	70	<1	<10	<10
HM-07-31	2	262	<10	<0.1	300	<1	<10	<10
HM-07-32	6	107	<10	0.4	60	<1	<10	<10
HM-07-33	6	277	<10	<0.1	190	<1	<10	<10
HM-07-34	2	133	20	0.4	6900	<1	40	<10
HM-07-35	19	197	<10	<0.1	600	<1	<10	<10
HM-07-36	28	115	<10	<0.1	120	<1	<10	<10
HM-07-37	6	203	<10	<0.1	450	<1	10	<10
HM-07-38	18	132	<10	<0.1	860	<1	50	<10
HM-07-39	2	204	<10	<0.1	410	<1	<10	<10
HM-07-40	9	125	<10	<0.1	190	<1	50	<10
HM-07-41	2	168	<10	0.1	290	<1	<10	<10
HM-07-42	<1	272	10	0.2	330	<1	<10	<10
HM-07-43	3	229	<10	0.1	440	<1	<10	10
HM-07-44	5	157	40	0.3	1570	2	130	<10
HM-07-45	3	240	<10	0.1	340	<1	<10	<10
HM-07-46	9	166	10	0.1	470	2	130	10
HM-07-47	18	212	<10	0.2	510	<1	30	<10
HM-07-48	2	180	<10	0.4	40	<1	<10	20
HM-07-49	1	186	<10	<0.1	70	<1	<10	20
HM-07-50	2	232	<10	0.2	620	<1	60	<10
HM-07-51	3	224	50	0.6	2580	2	40	<10
HM-07-52	3	121	50	1	1680	1	60	<10
HM-07-53	6	160	20	0.6	1820	2	190	<10

HM-07-54	12	104 <10		3.4	570 <1		200 <10	
HM-07-55	5	249 <10		0.3	640 <1		60 <10	
HM-07-56	6	191	20	0.8	1310	2	70 <10	
HM-07-57	13	132 <10		0.2	260 <1		10 <10	
HM-07-58	21	214 <10		0.1	320 <1	<10	<10	
HM-07-59	25	252 <10		0.2	210 <1	<10	<10	
HM-07-60	27	243 <10	<0.1		300 <1	<10		10
HM-07-61	10	150	10	0.1	970 <1		10 <10	
HM-07-62	15	197 <10	<0.1		250 <1	<10	<10	
HM-07-63	24	212 <10	<0.1		360 <1		10 <10	
HM-07-64	16	260 <10	<0.1		390 <1	<10	<10	
HM-07-65	2	52	20	0.5	1190	2	90 <10	
HM-07-66	25	257 <10	<0.1		650 <1	<10		10
HM-07-67	6	293 <10	<0.1		690	1	10	10
HM-07-68	14	223 <10	<0.1		170 <1	<10	<10	
HM-07-69	7	205 <10	<0.1		150 <1	<10		10
HM-07-70	14	175 <10	<0.1		50 <1	<10	<10	
HM-07-71	8	189 <10	<0.1		250 <1	<10	<10	
HM-07-72	5	207 <10	<0.1		440 <1	<10		10
HM-07-73	9	189 <10	<0.1		150 <1	<10	<10	
HM-07-74	1	212 <10		0.2	590 <1		20 <10	
HM-07-75	5	150	10	0.5	640	3	20	10
HM-07-76	4	150	30	0.2	750	5	70	10
HM-07-77	1	213	10	0.1	300 <1		10 <10	
HM-07-78	8	150	10 <0.1		510 <1		30	10
HM-07-79	26	150 <10	<0.1		330 <1	<10		10
HM-07-80	11	150 <10	<0.1		450 <1	<10	<10	
HM-07-81	7	150 <10	<0.1		870 <1		10 <10	
HM-07-82	15	150	30 <0.1		1190 <1		30	20
HM-07-83	3	150 <10	<0.1		440 <1	<10	<10	
HM-07-84	25	246 <10	<0.1		250 <1	<10	<10	
HM-07-85	11	150	10 <0.1		710 <1		10	20
HM-07-86	12	150	10 <0.1		920	1	40 <10	
HM-07-87	10	211 <10	<0.1		330 <1	<10	<10	
HM-07-88	9	233 <10		0.6	420 <1		10 <10	
HM-07-89	9	223 <10		0.2	420 <1		60 <10	
HM-07-90	14	284 <10		0.1	280 <1	<10	<10	
HM-07-91	14	273 <10	<0.1		360 <1	<10	<10	
HM-07-92	9	150 <10	<0.1		1000 <1		80	10
HM-07-93	<1	150	10	0.2	430 <1	<10	<10	
HM-07-94	1	296 <10	<0.1		130 <1	<10	<10	
HM-07-95	23	232 <10		0.1	110 <1	<10	<10	
HM-07-96	6	150	10	0.2	680 <1	<10		30
HM-07-97	12	150 <10		0.1	480 <1		20	10
HM-07-98	15	294	10	0.1	200 <1	<10	<10	
HM-07-99	6	150 <10		0.2	270 <1	<10		10
HM-07-100	4	150	10	0.2	1170 <1		40 <10	
HM-07-101	4	294 <10		0.4	160 <1		20 <10	
HM-07-102	19	150 <10		0.7	320 <1		20	20
HM-07-103	17	150 <10		1.1	660 <1		50	20
HM-07-104	8	103 <10		0.2	230 <1	<10	<10	
HM-07-105	3	194	20	0.3	650	1	20 <10	
HM-07-106	14	288	10	0.3	300 <1	<10	<10	
HM-07-107	4	246 <10	<0.1		320 <1	<10	<10	
HM-07-108	7	150 <10		0.1	490 <1	<10	<10	
HM-07-109	25	257	20	0.3	1850	1	40 <10	

HM-07-110		4	150	10	1.9	840 <1		20	20
HM-07-111		7	86	20	1.4	560 <1		390	10
HM-07-112		6	150	20	0.2	910	1	40 <10	
HM-07-113		6	150	10	0.2	670 <1		20 <10	
HM-07-114		2	242	10	0.3	790 <1		130 <10	
HM-07-115		17	150	30	2	910	2	110 <10	
HM-07-116		20	37 <10		1.2	1630 <1		370 <10	
HM-07-117		2	150 <10	<0.1		530 <1		20 <10	
HM-07-118		5	150	10	0.4	660 <1		10 <10	
HM-07-119		3	150	20 <0.1		620 <1		20 <10	
HM-07-120		2	64 <10	<0.1		1300 <1		330 <10	
HM-07-121		7	80	60	1.3	1100	3	300	20
HM-07-122		9	188 <10		0.2	300 <1		160 <10	
HM-07-123		2	252 <10		0.3	430 <1		100 <10	
HM-07-124		17	150	20	1.2	500	1	40 <10	
HM-07-125		9	96 <10		2.4	980 <1		230 <10	
HM-07-126		13	150	20 <0.1		1270 <1		50 <10	
HM-07-127		11	150 <10	<0.1		290 <1		10 <10	
HM-07-128	<1		150	10	0.2	540 <1	<10	<10	
HM-07-129		8	150 <10	<0.1		310 <1	<10	<10	
HM-07-130		13	259 <10	<0.1		440 <1		20 <10	
HM-07-131		5	105 <10		0.4	170 <1		10 <10	
HM-07-132		8	84 <10		0.1	100 <1	<10	<10	
HM-07-133		25	95 <10		0.2	810 <1		60 <10	
HM-07-134		4	250	100 <0.1		990	5	60 <10	
HM-07-135		10	120 <10		0.2	200 <1		70 <10	
HM-07-136		2	150	30	0.1	550 <1		60 <10	
HM-07-137		19	150 <10		0.1	370 <1	<10	<10	
HM-07-138		3	150	20	0.1	600	1	60	10
HM-07-139		3	150	10	0.2	370 <1		10 <10	
HM-07-140		4	150 <10		0.2	390 <1		30 <10	
HM-07-141		1	150	30	0.4	570	2	50 <10	
HM-07-142		6	14 <10		1	2140 <1		330 <10	
HM-07-143		3	150	50	0.4	1070	2	30 <10	
HM-07-144		8	150	20	1.5	300 <1		10 <10	
HM-07-145		4	217	20	6.7	300 <1	<10	<10	
HM-07-146		7	223	20	0.4	770	2	200 <10	
HM-07-147		4	276 <10		1.4	280 <1		50 <10	
HM-07-148		5	211	20	0.3	1230	2	180 <10	
HM-07-149		5	150	20 <0.1		950 <1		30 <10	
HM-07-150		3	150	20 <0.1		620	1	10	20
HM-07-151		39	269	10	0.7	1460 <1		40 <10	
HM-07-152		7	150	20	0.5	3780	2	100 <10	
HM-07-153		21	150	20 <0.1		1680	2	20	40
HM-07-154		17	150 <10	<0.1		890 <1		10 <10	
HM-07-155		45	150	80 <0.1		2050 <1		90	30
HM-07-156		28	174 <10		0.5	360 <1		20 <10	
HM-07-157		14	282 <10		1.2	750 <1		20 <10	
HM-07-158		17	215 <10	<0.1		290 <1	<10	<10	
HM-07-159		14	215 <10	<0.1		480 <1	<10	<10	
HM-07-160		14	186 <10		0.6	140 <1	<10	<10	
HM-07-161		4	251 <10	<0.1		510 <1	<10	<10	
HM-07-162		13	161	10	0.1	220	1 <10		10
HM-07-163		6	205 <10	<0.1		390 <1	<10	<10	
HM-07-164		10	156 <10	<0.1		130 <1		10	10
HM-07-165		6	127 <10	<0.1		160 <1		10 <10	

HM-07-166		11	226 <10	<0.1		280 <1	<10	<10	
HM-07-167		10	58 <10		0.1	140 <1		20 <10	
HM-07-168		21	150	20	0.3	640 <1	<10	<10	
HM-07-169	<1		110 <10	<0.1		210 <1	<10	<10	
HM-07-170		19	200 <10	<0.1		360 <1	<10	<10	
HM-07-171	<1		258 <10	<0.1		190 <1	<10	<10	
HM-07-172		3	266	40 <0.1		1070	2	20	20
HM-07-173	<1		260 <10		0.1	220 <1	<10	<10	
HM-07-174		2	99 <10	<0.1		90 <1	<10	<10	
HM-07-175		3	113 <10		0.3	260 <1		20 <10	
HM-07-176		4	103 <10	<0.1		90 <1	<10	<10	
HM-07-177		1	135 <10		0.3	230 <1		80 <10	
HM-07-178		5	194 <10	<0.1		600 <1		20 <10	
HM-07-179		10	83 <10		9.1	50	1 <10	<10	
HM-07-180	<1		168	20	0.1	1000	1	50 <10	
HM-07-181		6	172 <10		0.1	810	1	80 <10	
HM-07-182		2	145	20 <0.1		620	2	30 <10	
HM-07-183		9	254 <10	<0.1		740 <1		10	10
HM-07-184		8	161 <10		0.4	400 <1	<10	<10	
HM-07-185		6	150 <10	<0.1		600	1 <10	<10	
HM-07-186		14	150	20 <0.1		890 <1	<10	<10	
HM-07-187		9	162 <10		0.1	270 <1	<10	<10	
HM-07-188		13	150	10 <0.1		660 <1		20 <10	
HM-07-189		22	163 <10		0.9	200 <1		20 <10	
HM-07-190		19	138 <10		0.2	280 <1	<10	<10	
HM-07-191		38	239 <10		0.8	270 <1	<10	<10	
HM-07-192		9	235	10 <0.1		500 <1	<10	<10	
HM-07-193		6	222 <10	<0.1		270 <1	<10	<10	
HM-07-194		4	269	10 <0.1		390 <1	<10	<10	
HM-07-195		10	100 <10	<0.1		40 <1	<10	<10	
HM-07-196		3	223 <10	<0.1		440 <1		10 <10	
HM-07-197		8	236	10 <0.1		300 <1	<10	<10	
HM-07-198		6	282 <10	<0.1		610 <1		10	10
HM-07-199		17	188 <10		0.1	230 <1	<10	<10	
HM-07-200		12	251	10 <0.1		440 <1		70	20
HM-07-201		13	240 <10	<0.1		270 <1		30 <10	
HM-07-202		5	166 <10		0.3	830 <1		110 <10	
HM-07-203		4	150	20 <0.1		1210 <1	<10	<10	
HM-07-204		11	76	20 <0.1		1020	1	230	10
HM-07-205		6	120 <10	<0.1		60 <1	<10	<10	
HM-07-206		1	223	10 <0.1		610	1	30	10
HM-07-207		10	189 <10	<0.1		540 <1		30 <10	
HM-07-208		7	169 <10		0.2	450 <1		10 <10	
HM-07-209		4	208 <10	<0.1		170 <1	<10	<10	
HM-07-210		2	112	10	0.4	430 <1		200 <10	
HM-07-211		10	235 <10	<0.1		380 <1		30 <10	
HM-07-212		3	235 <10		0.1	190	1	10 <10	
HM-07-213		4	32	20	0.2	760 <1		170 <10	
HM-07-214		7	150	20 <0.1		780	2	10 <10	
HM-07-215		6	160	30	0.2	1540	2	20 <10	
HM-07-216		1	273	20 <0.1		660	4 <10		10
HM-07-217		6	150	10 <0.1		630 <1	<10		20
HM-07-218		1	250 <10	<0.1		380 <1	<10	<10	
HM-07-219		19	275	10	0.2	540 <1		10 <10	
HM-07-220		5	216 <10		0.1	100 <1	<10	<10	
HM-07-221		26	150 <10	<0.1		260 <1	<10	<10	

HM-07-222	7	202 <10	<0.1		600 <1		10 <10	
HM-07-223	2	178 <10	<0.1		910 <1		100 <10	
HM-07-224	4	172 <10	<0.1		720 <1		10 <10	
HM-07-225	3	73 <10	<0.1		640	1	380	20
HM-07-226	6	256	10	0.1	580 <1		20 <10	
HM-07-227	6	284	10 <0.1		630 <1		10	10
HM-07-228	1	246	20 <0.1		2410	3 <10	<10	
HM-07-229	11	243 <10	<0.1		820 <1		60	20
HM-07-230	20	36 <10		0.1	120 <1		10	6
HM-07-231	11	101 <10		0.9	570 <1		210	3
HM-07-232	10	274 <10	<0.1		520 <1		20	14
HM-07-233	15	179 <10		0.4	780 <1		140	19
HM-07-234	11	125 <10	<0.1		890 <1		20	5
HM-07-235	9	152 <10		0.4	590	1	200	11
HM-07-236	2	297	30	0.2	2580	3	30	3
HM-07-237	7	150	20	0.9	1840	14 <10		3
HM-07-238	2	28 <10	<0.1		680 <1		860	5
HM-07-239	3	180 <10		0.3	720	1	60	1
HM-07-240	2	270	20 <0.1		360 <1		10	4
HM-07-241	8	237 <10		0.3	430 <1	<10		2
HM-07-242	40	136 <10		0.1	900 <1		80	11
HM-07-243	2	150	10	0.1	610	1	20	10
HM-07-244	16	210 <10	<0.1		430 <1	<10		4
HM-07-245	3	254	10	0.1	710	1	60	4
HM-07-246	18	142 <10		0.1	150 <1		10	4
HM-07-247	11	282 <10		0.2	750 <1		20	2
HM-07-248	22	189 <10	<0.1		380 <1	<10		5
HM-07-249	4	247	10	1.1	1210	1	30 <1	
HM-07-250	4	150	40	0.3	1620	4	30	3
HM-07-251	9	73 <10		0.1	340 <1		20	7
HM-07-252	5	173	40	0.7	1650	10	90	7
HM-07-253	15	268	10	0.9	650 <1	<10		17
HM-07-254	5	9 <10		0.3	3600 <1		220	2
HM-07-255	22	151 <10		0.4	420 <1		40	3
HM-07-256	3	11	10	0.5	1690 <1		290	5
HM-07-257	7	222	10	0.1	680 <1		120	2
HM-07-258	6	18 <10		0.3	960 <1		680	10
HM-07-259	21	144 <10		0.5	570 <1		40	4
HM-07-260	3	208 <10	<0.1		520 <1		20	10
HM-07-261	6	294	50	0.7	1110	3	50	3
HM-07-262	11	241	20 <0.1		980	1	70	3
HM-07-263	9	273	20	0.4	770 <1		50	6
HM-07-264	12	253 <10	<0.1		160 <1	<10		7
HM-07-265	3	78	10 <0.1		470 <1		230	4
HM-07-266	4	32 <10	<0.1		1070 <1		200	2
HM-07-267	2	73	10	0.1	1490 <1		90	1
HM-07-268	17	193 <10	<0.1		300 <1		20	10
HM-07-269	8	150	10 <0.1		470 <1	<10		6
HM-07-271	28	283 <10		0.1	620 <1	<10		12
HM-07-273	21	277 <10		0.2	410 <1		20	12
HM-07-275	16	237 <10		0.5	680 <1		30	6
HM-07-277	12	260 <10		0.1	310 <1	<10		9
HM-07-279	17	255 <10	<0.1		310 <1	<10		6
HM-07-281	18	167 <10	<0.1		100 <1	<10		6
HM-07-285	5	290 <10	<0.1		740 <1	<10		2
HM-07-287	5	223 <10	<0.1		250 <1	<10		6

Ce	Co	Cr	Cu	Dy	Er	Eu	Fe	Gd
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
5	5	100	10	1	0.5	0.5	1	1
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPM	PPB
1450	28	<100	6980	118	39.8	70	37	255
171	33	100	560	26	15.2	7.9	67	28
423	64	100	540	25	10.8	11.5	55	41
102	41	200	310	7	4.3	2	149	8
88	63	100	290	16	9.8	3.8	45	15
204	21	<100	400	29	16.3	10.3	66	37
129	52	<100	550	24	14	6.1	24	22
47	65	<100	100	9	6	2.2	62	7
167	49	<100	120	20	9.9	7.3	23	25
62	89	<100	260	10	6.1	2.1	58	8
122	243	200	300	9	4.8	2.4	104	9
578	94	300	740	42	20.3	18	223	68
60	55	<100	250	8	4.7	2.3	57	8
112	110	100	400	8	4.4	2.7	113	9
108	57	<100	180	6	3.8	2.2	157	8
126	114	<100	280	14	7.2	4.7	61	18
95	37	<100	160	16	7.7	3.7	21	14
32	86	<100	130	8	5.5	1.3	79	5
40	62	<100	120	11	7.4	2.2	57	8
52	62	<100	190	11	6.7	2.4	77	9
107	52	<100	130	19	8.4	4.6	23	17
123	29	<100	240	12	6.1	3.9	77	14
223	42	100	340	15	6.5	6.3	70	22
133	17	<100	290	16	8.8	3.9	62	15
123	50	<100	470	24	13	5.8	14	23
1030	65	<100	1220	95	45.1	44.7	53	181
52	25	<100	300	7	4.8	1.5	168	6
82	46	<100	130	13	7	3.8	41	13
1070	9	<100	270	47	22.4	23.6	17	88
28	36	<100	160	5	3.2	0.8	128	3
365	17	<100	220	36	16.4	15.9	10	53
55	51	<100	140	7	4.5	1.8	73	7
4480	92	<100	370	255	132	96.2	77	390
56	49	<100	130	9	6	2.3	62	8
79	18	<100	120	14	7.3	4.3	13	16
80	38	<100	130	12	6.4	3.4	18	12
157	29	<100	150	16	7.2	7	25	23
76	24	100	250	6	3.1	2.1	260	7
436	18	<100	240	36	15.9	15.9	17	56
122	10	<100	110	8	3.8	2.9	49	10
80	12	<100	160	7	3.2	2.2	114	8
26	134	<100	640	8	7.8	1	69	4
366	99	200	390	19	8.7	8.4	139	32
66	59	<100	340	11	7.9	2.1	99	9
1020	62	100	1770	57	27.7	22.4	76	88
365	63	100	400	25	12.9	9.8	113	36
44	31	<100	900	15	10.1	2.1	33	9
25	24	<100	220	8	6.8	1.1	36	4
397	15	200	280	27	11.6	11.4	74	44
571	85	700	420	23	9.9	10.4	195	41
919	57	200	820	66	28.5	33.9	116	134
232	65	400	560	16	7.6	7.3	198	28

330	33 <100		570	25	11.9	12	17	49
427	61	100	310	29	12.4	13.2	74	48
295	192	100	1930	24	13	7.7	139	30
128	47 <100		180	16	7.1	6.3	23	22
57	54 <100		130	12	8.4	2.5	47	9
53	44 <100		160	7	4.4	2.3	69	8
35	94 <100		160	8	5.5	1.6	62	6
290	132	200	340	28	13	10	72	36
63	28 <100		190	11	5.9	2.5	23	10
68	57 <100		190	13	6.5	3.4	17	12
26	99 <100		130	7	5.2	1.4	55	5
1360	80	100	1370	89	42.5	49.2	109	199
113	67 <100		220	11	6.6	3.5	85	12
133	111 <100		270	13	6.8	4	111	14
20	39 <100		120	7	6.3	1.1	30	4
57	44 <100		120	10	6.6	1.9	38	8
33	38 <100		50	11	7.2	1.9	28	7
40	42 <100		80	11	6.9	2.2	39	8
45	51 <100		80	10	6.9	2.1	38	8
44	17 <100		40	9	6	2.2	38	8
19	221 <100		320	1	1 <0.5		198	1
146	48	200	670	13	6.1	5	132	18
1470	211	200	390	56	27.4	28.3	100	99
387	28 <100		200	31	15.3	12.8	81	43
72	100	100	270	13	8.6	3.1	73	10
122	57 <100		320	18	9.6	4.5	54	17
38	198 <100		150	11	9.5	1.7	66	6
177	77 <100		240	19	10.7	5.1	80	19
95	59	100	300	14	7.4	4	139	14
128	113	100	220	17	14.5	3.1	164	12
59	49 <100		150	21	12.4	4.3	40	16
98	128	100	140	18	9.8	4.2	60	15
215	144	200	180	16	8.1	5.6	107	20
30	62 <100		140	16	10.2	2.3	44	9
372	34 <100		450	30	14.8	12.6	66	44
80	40 <100		260	18	10.5	4	98	16
146	51 <100		160	21	9.7	7.2	49	25
48	50 <100		110	13	7.1	2.4	37	9
42	155 <100		290	10	6.1	2.1	119	7
20	27 <100		310	2	1.5 <0.5		196	2
31	31 <100		350	17	13.3	2	70	9
97	29 <100		370	23	11.9	5.4	28	19
243	178	100	650	28	13.6	7.6	34	27
207	120 <100		360	26	13.3	7.7	71	28
149	66 <100		450	32	18.7	7.4	65	30
176	149 <100		400	22	11.4	6.8	40	24
713	50	300	370	39	16.4	16.4	138	55
254	26 <100		430	33	17.5	11.6	72	42
85	95 <100		930	13	6.9	3.3	68	12
131	82 <100		440	18	10.7	4.4	85	16
452	42 <100		310	56	25.2	26.7	11	91
1800	56	200	400	101	39.8	52.8	100	185
269	61 <100		220	35	20.5	13.4	77	47
62	40 <100		240	6	3.9	1.8	141	6
208	46 <100		200	29	14.5	9.4	49	30
783	58	100	190	38	18.8	16.9	79	58

249	45	<100	1120	30	14.8	9.1	75	31
144	76	<100	8320	16	8.5	5.1	101	24
692	49	400	650	37	15	17.7	97	62
348	190	200	750	26	13.9	9.1	145	31
632	44	100	480	33	13.6	15.3	82	57
262	156	100	1240	22	10.8	8.3	172	30
646	12	<100	2540	71	26.2	40	10	151
138	22	200	270	8	4.3	2.8	150	10
555	44	200	520	52	22.5	23.3	82	82
40	45	<100	140	7	4.5	2	178	7
307	35	<100	110	13	6.1	6.8	56	26
1150	281	100	4780	36	15.9	20.6	66	77
744	59	<100	450	47	20.2	19.7	42	73
412	19	<100	320	26	11.1	11.3	85	39
82	277	100	1140	11	6.1	2.9	232	10
150	20	<100	1460	27	11.4	11.8	37	42
144	77	200	250	13	7.1	4.7	150	15
262	49	100	350	21	9.8	9.1	56	30
198	73	<100	750	14	8.4	4.4	95	15
101	67	<100	120	15	8.6	4	95	13
127	76	<100	350	15	8	4.2	114	14
1390	30	<100	580	55	22.8	31.7	17	112
33	65	<100	110	5	3.7	1.4	182	5
194	18	<100	180	38	16.3	16.6	7	64
180	198	400	650	7	4.1	2.1	606	8
221	22	<100	160	19	9.1	10.3	14	38
429	469	200	440	28	13.3	10.7	78	36
157	65	<100	220	19	9.1	6.1	41	22
371	262	100	560	39	21.5	10.7	145	41
37	27	<100	420	5	3.1	1.5	169	5
357	46	<100	300	22	9.7	9.6	98	33
215	151	200	550	14	6.2	6.5	375	22
878	33	<100	1280	90	36	48.6	5	197
143	83	300	900	9	4.3	2.9	426	10
109	33	<100	1380	11	7.2	3.3	215	12
75	25	<100	1610	7	4.3	2.3	301	8
398	110	200	390	14	6.3	6.4	138	23
157	73	<100	630	22	9.6	7.3	60	26
172	80	200	440	13	5.9	5.7	144	20
47	88	<100	130	10	6.6	2.5	98	8
110	83	100	90	17	11.2	4.2	105	15
895	19	<100	880	89	36.8	42.9	47	158
903	90	300	1350	59	24.1	27.1	171	99
132	237	200	650	17	11.3	3.9	165	15
44	148	<100	90	12	8.4	2.1	98	8
245	272	600	830	28	14.8	9.5	411	30
288	13	<100	370	34	18.1	10.8	37	41
151	51	300	310	21	12	5.2	101	20
44	27	<100	100	11	6.2	2.2	54	8
77	61	<100	160	17	9.9	4.2	62	15
30	22	<100	760	10	8.4	1.3	74	5
25	34	<100	80	3	2.3	0.7	90	2
36	53	<100	200	7	6.2	1.2	127	4
42	48	<100	60	8	6	1.8	47	6
117	24	<100	70	14	6.7	4.5	12	17
217	46	<100	250	21	9.6	8.8	38	30

27	76 <100		140	5	3.7	1	82	3
58	15 <100		70	10	6	3	12	11
97	78	200	460	15	8.4	4	204	14
114	70 <100		600	17	9.7	5.3	199	18
30	60 <100		170	8	6.4	1.7	48	6
38	13 <100		190	4	2.4	1.3	68	4
70	66	100	660	5	3.1	1.6	166	5
62	17 <100		300	7	3.3	2.1	102	8
252	19 <100		170	44	18	14.8	8	50
1090	65 <100		680	83	32.7	33.3	22	117
93	24 <100		170	16	8.2	5	18	17
260	23 <100		490	18	7.3	8.8	68	31
85	76 <100		210	10	5.9	3.4	80	11
13	13 <100		2950	4	3.3	0.8	174	3
232	44	200	1030	20	8.7	6.4	233	25
470	75 <100		1910	52	21.9	21.4	84	78
127	86	100	560	7	4.2	2	306	7
185	117 <100		220	17	8.2	4.9	54	17
200	45 <100		250	19	8.9	7.6	73	26
163	55 <100		120	28	14.5	6.8	138	24
329	113	100	900	31	13.6	13	67	41
62	106 <100		100	15	8	3.6	30	13
502	73	200	410	31	12.8	14.1	92	47
364	31 <100		1180	82	40.8	27.9	29	107
317	40 <100		450	36	15.8	14	31	48
122	65 <100		360	20	10.7	5.7	54	20
152	57 <100		240	16	9	5.5	170	20
17	81 <100		70	4	4.2	0.7	47	3
231	75	100	250	17	11.1	5.2	158	19
159	16 <100		80	18	9.7	8.2	21	26
102	96 <100		250	9	6.5	2.7	160	9
127	134 <100		100	16	8.8	4.9	46	17
58	380 <100		210	13	8.8	2.6	119	10
99	63 <100		110	20	11.2	5.1	39	18
261	85 <100		270	24	11.9	7	121	26
221	74 <100		390	23	9.9	8.1	88	29
1090	17 <100		510	34	12.8	19.5	43	69
104	123	100	420	7	3.9	2.1	91	6
305	61	100	250	13	5.8	6	83	23
146	37 <100		150	21	12.1	6.4	13	22
22	63 <100		190	4	2.5	0.7	186	2
56	73 <100		60	10	5	3.2	32	11
80	57 <100		180	12	6	3.4	30	11
77	27 <100		140	15	7.7	3.6	25	12
678	62 <100		180	24	10.4	13.3	70	50
62	72 <100		90	11	5.6	3.2	42	11
402	40 <100		1420	63	29.6	22.9	146	85
181	57 <100		400	31	14.5	16.5	67	65
335	84	100	330	24	13	8.4	123	30
876	64	200	530	48	19.7	24.1	152	85
150	76 <100		170	8	3.7	3.8	87	13
185	139	100	230	22	11.8	6.8	142	24
100	36 <100		450	14	8.9	3.1	152	12
310	73	200	250	22	10.5	8.1	94	28
154	22 <100		170	21	10.8	6.5	57	23
99	44 <100		150	19	10.6	5.1	25	18

61	33 <100	220	4	2.1	1.4	222	5
682	21 <100	360	63	29.2	28.3	76	110
65	126 <100	240	7	4	2	115	7
123	64 100	150	6	3.2	2.4	56	9
188	76 100	400	13	7.2	5	165	18
109	159 <100	210	21	14.3	4.1	128	16
582	94 300	980	29	11.6	14.2	305	46
89	45 <100	140	13	6.5	3.7	54	14
193	25 <100	200	16	10.2	6.1	10	22
2940	11 <100	2150	164	66	91	7	339
73	128 <100	190	14	7.6	3.4	74	13
1460	13 <100	1710	152	71.2	46.7	35	191
466	39 100	220	24	9.7	11.1	68	40
1250	40 <100	790	58	24	26.2	24	100
1070	109 400	780	35	14.1	21.5	328	71
1570	97 300	840	46	19	29.9	153	99
182	9 <100	490	8	3.9	4.7	14	18
801	78 100	1410	39	16.8	19.9	79	71
158	38 100	280	12	6.2	4.2	178	15
93	58 100	850	6	3.2	1.9	193	8
205	52 <100	320	13	5.8	6	19	20
54	92 <100	580	7	4.5	1.6	121	6
300	20 <100	150	19	8.9	9.7	65	31
359	151 200	440	22	9.9	9.8	140	36
171	15 <100	100	14	6.2	6.1	20	20
236	30 100	480	16	8.4	5.7	140	21
73	35 <100	110	14	6.8	3.5	21	13
725	30 200	790	37	16.6	18.1	134	66
695	80 200	310	32	13.5	18.1	228	62
308	34 <100	220	52	23.9	22.5	12	76
1510	170 300	850	47	19.3	28.2	177	100
294	507 100	2520	13	5.9	4.7	91	17
686	33 <100	1660	28	12.9	14.6	24	63
168	36 <100	400	12	5.8	5.7	82	19
632	16 <100	4330	20	9.9	11.8	14	50
154	22 100	370	9	4.2	4.2	110	15
7	8 <100	2860	2	1.1 <0.5		9	3
40	127 <100	650	5	2.7	1.1	248	4
136	320 <100	430	17	9.3	4.6	113	17
781	104 400	780	27	11.5	13.9	331	46
667	135 200	580	43	20.6	17	370	66
98	669 300	760	9	5	2.4	191	9
95	59 <100	380	16	10.3	4.5	74	17
2100	50 <100	1450	87	38.2	40.5	123	165
545	50 <100	680	30	12.9	17.1	40	66
2490	58 100	530	72	29.8	39.1	86	149
102	55 <100	110	15	8	5	42	17
130	76 <100	220	10	5.4	3.3	76	11
164	77 <100	160	15	8.4	4.7	51	17
259	87 <100	300	20	7.9	6.9	40	24
555	83 100	240	24	10	10.9	82	39
170	48 <100	430	20	10.5	6.4	49	24
187	122 <100	340	14	7	5.4	40	20
122	31 <100	90	16	8.9	4	19	16
31	44 <100	130	6	3.9	1.5	85	5
204	46 <100	150	14	7.5	5.1	62	19

La	Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
1	5	1	5	0.5	1	5	10	1	
PPB	PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	
1140	<5		25	60	5.6	1360	38	220	<1
68	<5	<1		5	4.1	121	69	190	<1
171	<5		1	<5	4.1	230	200	170	<1
54	<5		1	<5	6.4	42	126	30	<1
39	<5		1	<5	2.9	59	139	240	<1
96	<5	<1		7	3.3	184	49	170	<1
46	<5	<1	<5	<0.5		87	127	240	<1
20	<5	<1	<5		2.8	28	135	300	<1
74	<5	<1	<5		2.5	108	113	260	<1
24	<5		1	<5	2.4	34	210	290	<1
35		5	2	9	4.3	40	292	370	<1
253		5	2	9	13.4	380	127	170	<1
32	<5	<1	<5		1.7	36	107	180	<1
40		6	<1	<5	5.3	44	169	330	<1
58		16	4	<5	11.9	52	84	80	<1
103		7	2	<5	12.5	88	92	310	<1
35	<5	<1	<5		2.2	54	146	540	<1
19	<5		1	<5	5.6	18	136	240	<1
16	<5		1	<5	3.1	28	90	340	<1
21	<5		2	<5	2	35	147	280	<1
41	<5	<1		7	3.5	58	127	340	<1
55		8	3	5	10.3	67	137	410	<1
110	<5		6	<5	4.4	116	151	180	<1
58	<5	<1	<5		3.2	68	55	170	<1
45	<5	<1	<5	<0.5		88	59	280	<1
807	<5		12	<5	3.3	1090	115	190	<1
27	<5		2	<5	6	26	92	60	<1
38	<5	<1	<5		1.9	54	149	210	<1
415	<5	<1	<5		0.6	558	22	90	<1
15	<5		1	<5	4.8	12	149	40	<1
192	<5	<1	<5		0.7	271	39	150	<1
24	<5		1	<5	5.8	28	287	120	<1
2100	<5		6	<5	26.7	2170	46	160	<1
31	<5		1	<5	2.2	34	126	240	<1
38	<5	<1	<5	<0.5		64	62	190	<1
43	<5		1	<5	1	53	116	200	<1
107	<5		1	<5	3.2	112	33	160	<1
34	<5		2	8	15.2	34	44	30	<1
226	<5	<1	<5		1.4	293	52	150	<1
62	<5		2	9	11.7	48	17	120	<1
39	<5	<1		6	5.8	38	56	100	<1
12		8	2	<5	2.5	14	92	220	<1
171		8	9	10	11.4	196	169	320	<1
33	<5	<1		5	1.8	36	111	140	<1
416	<5		5	17	9.3	514	108	310	<1
151		6	3	6	7.5	201	102	240	<1
16	<5	<1	<5		1.2	28	53	280	<1
11	<5	<1	<5		0.9	14	39	240	<1
200	<5		2	6	4.8	243	68	180	<1
227		16	4	10	29.9	241	160	180	<1
684	<5		4	13	14.8	870	72	160	<1
139		13	9	9	13.8	167	212	180	<1

150	<5			3	<5			1	241	65	140	<1
176	<5			2	<5			6.4	257	148	180	<1
122		6		4		10		5.4	147	170	360	<1
62	<5	<1			<5			1.3	96	35	170	<1
25	<5	<1				5		2.1	37	201	170	<1
31	<5	<1				6		5.8	34	119	100	<1
14	<5			1	<5			2.1	21	123	260	<1
150	<5			2		5		8.2	178	149	250	<1
26	<5	<1			<5			1.2	40	99	250	<1
34	<5	<1			<5			1.4	49	101	310	<1
13	<5	<1			<5			3.4	16	169	200	<1
1090	<5			12		10		11	1340	58	190	<1
54		6		2	<5			4.8	56	139	220	<1
60		6		2	<5			10.4	67	135	470	<1
10	<5	<1			<5			0.9	13	112	190	<1
22	<5	<1			<5			0.9	33	79	190	<1
12	<5	<1			<5			0.5	25	74	170	<1
16	<5	<1			<5			1.1	27	88	450	<1
21	<5			1	<5			1	29	207	270	<1
21	<5	<1			<5			1.3	30	61	210	<1
10		55		28	<5			1.6	7	529	20	<1
89		27		8		10		35	92	79	330	<1
585		25		10		8		35.7	711	463	380	<1
120	<5			1	<5			2.9	204	85	430	<1
31		8		9	<5			4.8	40	126	310	<1
45	<5			3	<5			5	66	153	320	<1
19		7		3	<5			2.4	22	111	240	<1
80	<5			3	<5			6.4	93	100	280	<1
59		10		7	<5			10.5	58	232	270	<1
64		5		3	<5			8.1	63	157	50	<1
30	<5			1	<5			2	55	117	320	<1
48		6		2	<5			3.2	61	166	440	<1
80	<5			4		6		5.7	92	168	470	<1
13	<5			3	<5			0.8	26	121	520	<1
134	<5			1		5		2.1	216	81	230	<1
30	<5			9	<5			1.8	62	165	170	<1
88	<5			2	<5			4.4	110	86	290	<1
21	<5			2	<5			2.5	31	135	490	<1
22		7		11	<5			8.2	26	239	200	<1
10		8		5	<5			9.6	8	155	20	<1
13	<5	<1			<5			2.4	23	26	210	<1
35	<5	<1			<5			1.2	67	47	240	<1
82	<5			2		6		4.2	119	385	370	<1
87	<5			2	<5			3.6	136	269	210	<1
58	<5			1	<5			2.9	119	186	300	<1
70	<5			1	<5			2.2	110	103	190	<1
220		6		3		8		11.5	298	98	290	<1
105	<5			3	<5			1.7	194	108	250	<1
35	<5			3		6		3.1	47	147	380	<1
47		9		7	<5			2.9	67	226	330	<1
363	<5	<1			<5			0.5	528	75	110	<1
1030	<5			2		6		19.4	1260	51	340	<1
123	<5			1	<5			5.1	226	77	490	<1
30	<5	<1			<5			1.7	32	81	60	<1
79	<5	<1			<5			2.7	131	69	240	<1
228	<5			5		5		6.2	321	157	380	<1

97 <5		2 <5		3.3	139	100	380 <1
69 <5		28	8	0.7	110	361	20 <1
332	6	4	9	10.7	369	95	180 <1
141 <5		3	8	7	162	153	120 <1
258	8	21 <5		4.4	327	87	200 <1
89	46	23	39	11	121	228	1520 <1
466 <5		107 <5	<0.5		784	114	130 <1
73	6	4 <5		12	61	77	30 <1
271 <5		1	6	6.2	439	90	250 <1
23	10	5 <5		7.9	25	99	140 <1
147	8	42 <5		2.1	178	127	160 <1
536	7	49	91	6.1	609	630	500 <1
231 <5		7 <5		2	367	148	200 <1
156 <5		8 <5		3.5	203	68	140 <1
36	23	9	15	7	43	155	480 <1
88 <5		44 <5		0.5	146	133	90 <1
70 <5		7 <5		5.8	77	244	90 <1
137 <5		2 <5		3.4	156	118	140 <1
73 <5		1 <5		2.5	80	100	420 <1
51 <5		1 <5		4.3	59	156	250 <1
44 <5		2 <5		3.2	53	120	250 <1
534 <5	<1		5 <0.5		757	36	350 <1
12 <5		1	18 <0.5		16	58	60 <1
225 <5		3	7 <0.5		324	20	220 <1
52	15	13	16	32.1	42	193	230 <1
209 <5		2 <5		1.1	243	33	200 <1
170	8	5	6	6.9	199	204	350 <1
57 <5	<1	<5		2.3	94	54	250 <1
118	13	10	6	8.4	180	152	430 <1
17	13	5 <5		13.1	20	117	170 <1
128 <5		5 <5		2.6	173	83	220 <1
81	18	9	8	8.7	105	183	170 <1
592 <5		89 <5	<0.5		1070	43	60 <1
88	26	8	11	27	59	153	80 <1
51 <5		3	7	4.1	54	67	120 <1
35 <5		2	25	2	35	69	120 <1
90	18	22	11	7.5	120	211	150 <1
54 <5		7	5	1.4	95	166	230 <1
76	18	35	11	12	100	165	260 <1
20	8	8 <5		10.5	32	205	280 <1
41	6	5 <5		6.2	62	192	430 <1
572	6	4	17	5.3	946	59	170 <1
562	24	23 <5		10.6	626	216	510 <1
47	29	9	11	22.2	62	359	580 <1
21	10	4 <5		8.4	27	253	310 <1
130	28	24	13	35.2	138	227	680 <1
90 <5		1	10	2.4	182	56	220 <1
62	6	5 <5		2.4	90	169	150 <1
19 <5		1 <5		2.9	29	83	280 <1
44 <5		1 <5		4	62	114	340 <1
13 <5	<1	<5		3.1	19	59	250 <1
14	6	1 <5		2.4	12	68	30 <1
18	14	3	5	11.6	19	163	420 <1
17	8	1 <5		0.9	26	169	210 <1
45 <5	<1	<5		1	73	77	250 <1
94 <5	<1	<5		2.2	148	119	290 <1

13	9	3 <5		2	15	115	40 <1
28 <5	<1	<5	<0.5		45	204	250 <1
48	11	1 <5		7.2	55	242	390 <1
42 <5	<1		5	3	70	28	90 <1
14 <5	<1	<5		1.1	20	137	240 <1
18 <5		1 <5		4.7	19	67	70 <1
32	16	4 <5		8	27	127	280 <1
28	8	2 <5		9	33	46	140 <1
120 <5	<1	<5	<0.5		220	18	130 <1
431 <5		2 <5		1.8	584	157	230 <1
34 <5	<1	<5	<0.5		71	47	210 <1
117	5	8	6	2.2	170	80	80 <1
40 <5		2 <5		3	49	72	180 <1
6 <5	<1		9 <0.5		8	29	260 <1
106 <5		2	6	3.3	112	57	140 <1
289	14	12	6	4.3	426	177	380 <1
36 <5		6 <5		11.4	37	61	80 <1
77 <5		2 <5		2.6	92	155	470 <1
82	9	2 <5		10.6	120	85	190 <1
61	27	7	6	21.2	87	104	340 <1
185	8	1	9	4.6	198	234	340 <1
27 <5		2 <5		1	46	144	380 <1
210 <5		2	8	4.6	250	163	250 <1
271 <5		1 <5		0.9	508	74	200 <1
119 <5	<1	<5		1.4	214	48	160 <1
51 <5		1 <5		4	74	111	270 <1
80	9	2 <5		11	100	136	250 <1
8	6	3 <5		2.1	9	78	110 <1
72	8	2 <5		7.1	97	189	200 <1
68 <5	<1	<5		1.2	124	28	260 <1
35	11	3 <5		5	43	195	100 <1
49	5 <1	<5		2.4	75	175	260 <1
23	9	4 <5		7.3	36	187	270 <1
37 <5	<1	<5		1.9	67	177	290 <1
75	8	8 <5		4.1	114	247	260 <1
90 <5		1 <5		5.7	129	213	310 <1
455 <5		7	6	3.7	487	100	100 <1
36	28	2 <5		6.4	33	121	220 <1
135	10	31	7	11.6	157	120	230 <1
62 <5	<1	<5	<0.5		104	35	200 <1
11	7	4 <5		6.1	10	120	140 <1
38 <5		2 <5		1.2	44	169	260 <1
34 <5	<1	<5		0.6	50	123	290 <1
32 <5	<1	<5		1.7	51	60	250 <1
351 <5		19 <5		3.2	371	138	50 <1
27 <5		2 <5		1.3	42	134	180 <1
283 <5		2	8	9.8	420	120	170 <1
246 <5		16	8	3	432	63	90 <1
155	18	4	7	15.7	173	123	190 <1
427	9	3	8	16.1	547	62	280 <1
75	6	4	9	12.4	78	176	310 <1
86 <5		2	8	4.3	103	255	450 <1
53	7	3 <5		7.2	52	87	80 <1
113	5	1	6	5.6	137	159	190 <1
60 <5	<1		6	3.8	99	77	720 <1
45 <5		2 <5		0.8	76	122	260 <1

33 <5		2 <5		4.2	27	101	10 <1
464	8	6 <5		3	686	96	190 <1
28 <5		1 <5		2.4	30	113	260 <1
31	10	87 <5		1.7	48	157	230 <1
94	11	4 <5		6.8	97	192	70 <1
43	12	3 <5		8	63	147	450 <1
243	11	2	6	22.3	261	60	250 <1
32 <5		5 <5		3.4	50	183	390 <1
107 <5		1 <5		1.1	124	59	110 <1
1520 <5		6	8	0.8	2040	144	120 <1
41	6	3 <5		3.2	53	240	190 <1
565 <5		13	6	1	914	438	250 <1
224	7	3	9	14.1	227	62	100 <1
437 <5		9	10	2	580	257	170 <1
530	18	6	8	28.6	513	169	200
620	31	4	15	18.1	726	158	370 <1
104 <5		50 <5	<0.5		119	103	30 <1
295 <5		2	8	6.5	396	113	190 <1
80	6	3	10	17.3	73	128	70 <1
42	6	2	8	5.7	38	100	30 <1
87 <5		6	6	0.7	97	111	200 <1
25	7	7	7	15.5	25	122	100 <1
153 <5		1	9	10.7	160	53	180 <1
162	31	11	13	18.7	202	204	290 <1
65 <5	<1		6	2	98	53	130 <1
84	12	3	10	12.5	101	151	120 <1
33 <5	<1		6	0.8	50	115	180 <1
323	8	2	12	13.3	399	94	140 <1
470	24	6	17	27.7	452	210	250 <1
236 <5		2 <5	<0.5		366	50	220 <1
594	13	10	10	3.3	668	247	350 <1
60 <5		1	11	3.2	70	178	170 <1
370	9	25	19	0.9	423	187	40 <1
76 <5		2	8	5.2	93	55	140 <1
320	13	21	63	1.4	374	256	60 <1
71	9	4	8	8.3	80	92	150 <1
3 <5		36 <5		0.8	7	112	80 <1
21 <5		2	9	2.2	19	276	40 <1
47 <5		2 <5		2.3	75	145	130 <1
298	6	5	18	30.1	272	114	160
300	17	5	10	15.6	337	114	80 <1
32	6	10	9	6.8	35	360	50 <1
49 <5	<1	<5		3.4	71	74	200 <1
964 <5		12	8	6.2	1050	120	100 <1
293 <5		10	6	3.8	404	40	80 <1
1150 <5		13	8	8.4	1070	27	80 <1
54 <5		3 <5		1.9	70	97	200 <1
46 <5	<1		6	2.7	51	156	120 <1
66	5	1	8	1.9	82	320	230 <1
97 <5		1	7	3.7	117	144	340 <1
219 <5		1	7	7.7	233	173	190 <1
71 <5		1	9	5.1	122	212	160 <1
91 <5	<1		6	2.7	115	144	180 <1
50 <5	<1	<5		0.9	71	88	140 <1
15 <5		2 <5		6.7	19	80	80 <1
96 <5	<1	<5		2	102	107	170 <1

1

2

Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
1	5	1	5	1	1	10	1	1
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
330	55 <1		27	260 <1		770 <1		30
26	70 <1		57	28 <1		50 <1		5
56	116 <1		43	46 <1		60 <1		6
12	23 <1		26	8 <1		90 <1		1
14	188 <1		33	13 <1		40 <1		3
40	44	3	54	38 <1		10 <1		5
18	115 <1		46	20 <1		30 <1		4
6	199 <1		30	7 <1		50 <1		1
25	161 <1		46	25 <1		30 <1		4
8	163 <1		23	8 <1		90 <1		2
10	135	1	50	9	1	80 <1		1
93	53	1	85	74	1	60 <1		9
9	120 <1		18	8 <1		40 <1		1
11	139 <1		40	10 <1		50 <1		1
14	214 <1		36	9	2	110 <1		1
23	99 <1		40	17	2	30 <1		3
12	124 <1		29	12 <1		20 <1		3
4	133 <1		32	4 <1		60 <1		1
6	168 <1		38	7 <1		50 <1		2
8	125 <1		25	8 <1		90 <1		2
14	167 <1		37	16 <1		40 <1		3
16	124 <1		49	14	2	150 <1		2
30	110 <1		31	23	1	270 <1		3
17	21 <1		38	14 <1		20 <1		2
19	54 <1		30	19 <1	<10	<1		4
269	82 <1		74	194 <1		620 <1		22
6	58 <1		25	6 <1		110 <1		1
12	74 <1		21	12 <1		30 <1		2
144	55 <1		33	95 <1		10 <1		11
3	35 <1		16	3 <1		50 <1	<1	
67	56 <1		52	55 <1		20 <1		8
7	24 <1		21	6 <1		60 <1		1
561	76 <1		357	407	1	570	2	53
8	97 <1		26	7 <1		60 <1		1
14	111 <1		24	15 <1		10 <1		2
13	101 <1		23	11 <1		50 <1		2
27	116 <1		31	23 <1		170 <1		3
9	71 <1		35	7	2	80 <1		1
71	107 <1		44	58 <1		100 <1		8
13	54	2	22	9	3	40 <1		1
10	69 <1		19	8 <1		70 <1		1
3	72 <1		32	3 <1		90 <1	<1	
50	77	8	36	35	2	550 <1		4
9	57 <1		18	8 <1		70 <1		2
138	43	3	74	92 <1		310 <1		12
49	87 <1		41	38 <1		120	1	5
6	68 <1		23	7 <1		10 <1		2
3	84 <1		19	4 <1		10 <1	<1	
61	39 <1		32	47 <1		280 <1		6
63	47	2	55	45	3	300	3	5
224	79	2	63	151	1	450	1	16
42	112	3	39	30	1	1040	1	4

54	80 <1		21	50 <1		750 <1		6
62	44	1	30	53 <1		390 <1		6
38	98	1	48	30 <1		230 <1		5
22	162 <1		21	22 <1		20 <1		3
9	292 <1		22	8 <1		30 <1		2
8	74 <1		25	8 <1		40 <1		1
5	150 <1		21	5 <1		40 <1		1
44	273 <1		51	36 <1		70 <1		5
9	132 <1		22	9 <1		10 <1		2
11	138 <1		24	11 <1		60 <1		2
4	153 <1		22	4 <1		40 <1		1
341	87 <1		56	222	1	390 <1		23
14	95 <1		35	12 <1		110 <1		2
17	130 <1		41	14	2	80 <1		2
3	139 <1		22	3 <1		20 <1	<1	
8	100 <1		26	7 <1		10 <1		1
5	103 <1		27	6 <1	<10	<1		1
6	94 <1		26	7 <1		20 <1		2
7	144 <1		24	7 <1		40 <1		1
7	93 <1		21	6 <1		20 <1		1
2	42 <1		12	1 <1		230 <1	<1	
23	101 <1		64	18	8	90	3	3
179	30 <1		56	124	3	250	4	13
44	116 <1		58	46 <1	<10	<1		6
9	205 <1		45	10 <1		190 <1		2
15	372 <1		46	16 <1	<10	<1		3
5	263 <1		42	5 <1	<10	<1		1
23	204 <1		39	19 <1		80 <1		3
14	222 <1		42	13	2	200 <1		2
16	42 <1		44	13	1	50 <1		2
11	350 <1		35	13 <1	<10	<1		3
14	355 <1		44	14 <1		50 <1		3
23	230 <1		48	20 <1		60 <1		3
5	267 <1		30	7 <1	<10	<1		2
48	103	2	53	47 <1	<10	<1		6
13	48 <1		15	14 <1		220 <1		3
26	173 <1		32	25 <1	<10	<1		4
7	191 <1		25	8 <1	<10	<1		2
6	132 <1		38	7	2	550 <1		1
2	97 <1		18	2	2	60 <1	<1	
5	46 <1		39	6 <1	<10	<1		2
14	116 <1		38	17 <1	<10	<1		4
28	216 <1		41	27 <1		30 <1		5
31	85 <1		33	27 <1		130 <1		4
25	94 <1		45	28 <1	<10	<1		5
25	147 <1		42	23 <1	<10	<1		4
73	81 <1		58	62 <1		50 <1		8
40	107 <1		36	41 <1		20 <1		6
11	149 <1		31	11 <1		50 <1		2
15	156 <1		32	15 <1		340 <1		3
126	68 <1		58	104 <1	<10	<1		12
317	55 <1		90	224	2	90	2	24
48	159 <1		75	48 <1	<10	<1		7
8	58 <1		35	7 <1	<10	<1	<1	
29	139 <1		63	31 <1	<10	<1		5
75	178 <1		58	64 <1		60 <1		8

33	140 <1		63	33 <1		30 <1		5
24	17	4	29	24 <1		500 <1		3
93	53 <1		74	71	1	40 <1		8
41	111 <1		49	34 <1		50 <1		5
79	90 <1		44	63 <1		170 <1		7
28	68	1	61	27	2	260 <1		4
168	28 <1		12	166 <1		920 <1		17
17	46 <1		37	11	1	80 <1		2
100	58 <1		75	93 <1		10 <1		11
6	91 <1		32	6	1	160 <1		1
43	33 <1		14	30 <1		820 <1		3
155	59	5	57	95 <1		670 <1		9
85	50 <1		41	77 <1		360 <1		10
49	25 <1		34	41 <1		140 <1		5
10	72 <1		47	10	1	110 <1		2
31	32 <1		13	36 <1		810 <1		6
19	115 <1		31	16 <1		340 <1		2
38	174 <1		45	32 <1	<10	<1		4
20	64 <1		33	16 <1		40 <1		3
14	81 <1		38	13 <1		20 <1		2
12	120	1	33	13 <1		40 <1		2
181	41 <1		31	131 <1	<10	<1		14
4	178 <1		34	4 <1	<10	<1	<1	
74	144 <1		34	66 <1		110 <1		8
11	100	4	52	8	8	320	2	1
57	135 <1		29	42 <1		70 <1		4
48	105 <1		57	40	1	100 <1		5
21	62 <1		39	21 <1	<10	<1		3
40	109 <1		66	39	2	140 <1		7
5	28 <1		27	5	3	40	1 <1	
41	66 <1		32	36 <1		30 <1		5
25	56	1	43	24	2	120 <1		3
215	11 <1		76	213 <1		2850 <1		22
16	104	1	65	11	7	240	2	2
13	79 <1		42	12 <1		50 <1		2
9	102	1	23	8 <1	<10	<1		1
29	159 <1		36	24	1	380 <1		3
20	47 <1		18	24 <1		230 <1		4
24	119 <1		32	21	1	930 <1		3
7	297 <1		42	8	2	270 <1		2
14	205 <1		44	14 <1		130 <1		3
220	130 <1		64	185 <1		40 <1		20
159	188 <1		82	115	1	910 <1		13
14	248 <1		70	14	4	110	2	3
6	323 <1		33	6	1	90 <1		2
33	236	2	134	30	6	340	3	5
38	149 <1		37	40 <1		30 <1		6
21	141 <1		62	20 <1		110 <1		4
7	57 <1		18	7 <1	<10	<1		2
14	112 <1		40	15 <1		30 <1		3
4	158 <1		28	4 <1	<10	<1		1
3	173 <1		17	2 <1		60 <1	<1	
5	350 <1		31	4	2 <10	<1	<1	
6	259 <1		20	6 <1		60 <1		1
16	174 <1		22	17 <1	<10	<1		3
33	59 <1		40	32 <1	<10	<1		4

3	132 <1		30	4 <1		60 <1	<1	
9	159 <1		12	10 <1		10 <1		2
13	256 <1		62	14 <1		50 <1		2
16	63 <1		51	18 <1	<10	<1		3
4	106 <1		21	5 <1		30 <1		1
5	92 <1		25	4 <1	<10	<1	<1	
7	90 <1		29	6	1	90 <1	<1	
8	52 <1		29	7	2 <10	<1		1
52	213 <1		58	55 <1	<10	<1		9
140	37 <1		82	124 <1	<10	<1		17
15	58 <1		27	17 <1	<10	<1		3
40	23 <1		24	34 <1		180 <1		4
11	146 <1		36	11 <1		50 <1		2
2	43 <1		15	2 <1	<10	<1	<1	
28	57 <1		45	24	1	120 <1		4
102	76 <1		68	85 <1		330 <1		11
9	97	1	24	8	1	160 <1		1
22	205 <1		26	18 <1		70 <1		3
27	104 <1		42	26	2 <10	<1		4
20	142 <1		63	21	4	110	2	4
48	142 <1		64	44 <1	<10	<1		6
10	196 <1		20	12 <1	<10	<1		2
60	149	2	63	52 <1		20 <1		7
108	49 <1		41	105 <1		50 <1		16
45	113 <1		39	51 <1	<10	<1		7
17	128 <1		48	18 <1		20 <1		3
24	70 <1		34	21	2	20 <1		3
2	305 <1		21	2 <1		50 <1	<1	
23	47 <1		43	20 <1		30 <1		3
26	110 <1		37	26 <1	<10	<1		3
10	36 <1		14	9 <1		90 <1		2
17	120 <1		40	17 <1	<10	<1		3
8	92 <1		42	9 <1		80 <1		2
14	92 <1		41	18 <1	<10	<1		3
26	50 <1		27	26 <1		320 <1		4
29	134 <1		34	29 <1		80	1	5
127	122	3	35	84 <1		260 <1		9
9	57 <1		25	7 <1		60 <1		1
38	52	1	23	26 <1		820 <1		3
23	96 <1		39	23 <1	<10	<1		4
3	110 <1		16	3 <1		160 <1	<1	
10	110 <1		17	10 <1		100 <1		2
11	143 <1		22	11 <1		80 <1		2
11	66 <1		31	12 <1	<10	<1		2
94	15 <1		17	60 <1		480 <1		6
9	156 <1		18	10 <1		150 <1		2
96	49 <1		67	89	2	30 <1		12
96	59 <1		17	75 <1		810 <1		7
44	74	1	60	33	2	60	1	5
133	66 <1		70	102	2	80	1	11
19	13	2	21	15	3	60 <1		2
25	175	1	44	23 <1		70 <1		4
13	73 <1		39	11	1 <10	<1		2
32	103	1	48	29 <1		10 <1		4
22	119 <1		35	23 <1	<10	<1		4
16	156 <1		30	17 <1	<10	<1		3

7	48 <1		20	5 <1		70 <1	<1	
164	37 <1		57	123 <1		230 <1		14
7	161 <1		27	7 <1		50 <1		1
11	27 <1		14	10 <1		1720 <1		1
25	41 <1		28	19 <1		140 <1		3
14	161 <1		53	14 <1		70 <1		3
66	86 <1		75	53	2	30	2	6
11	175 <1		21	12 <1		270 <1		2
32	102 <1		23	23 <1		30 <1		3
516	86 <1		89	404 <1		320 <1		43
13	119 <1		29	12 <1		140 <1		2
215	86 <1		100	180 <1		590 <1		30
61	132 <1		41	43	2	90	1	6
148	73 <1		48	110 <1		410 <1		14
141	107	1	88	89	3	220	2	9
195	90 <1		94	123	3	70	1	13
29 <5	<1	<5		20 <1		1200 <1		2
101	55 <1		44	79 <1		120 <1		9
20	65 <1		34	15	4	120	1	2
10	147 <1		22	8 <1		50 <1		1
23	222 <1		28	21 <1		190 <1		3
6	111 <1		30	6	3	100	1	1
41	164 <1		41	31	2	20 <1		4
51	93 <1		49	39	3	140	1	5
23	195 <1		19	20 <1		10 <1		3
26	60 <1		36	21	1	70 <1		3
12	201 <1		23	11 <1		20 <1		2
105	50 <1		55	75	1	80 <1		9
125	118	2	65	75	4	170	2	8
88	137 <1		53	80 <1		70 <1		11
178	46	2	45	117 <1		350 <1		13
18	64	2	30	16 <1		50 <1		3
105	71 <1		22	68 <1		730 <1		7
23	106 <1		24	19 <1		60 <1		3
94	76 <1		12	57 <1		530 <1		6
21	83 <1		25	16	1	160 <1		2
1 <5		2 <5		2 <1		1440 <1	<1	
5	181 <1		24	4 <1		140 <1	<1	
18	42 <1		24	17 <1		130 <1		3
75	111	2	50	51	3	180	2	7
87	82 <1		69	67	2	430	1	10
9	51 <1		36	8 <1		310 <1		2
16	152 <1		35	15 <1		40 <1		3
284	39 <1		50	180 <1		340 <1		22
97	53 <1		16	73 <1		830 <1		8
294	49 <1		57	172 <1		1130 <1		19
17	196 <1		37	16 <1		150 <1		3
13	110 <1		27	11 <1		80 <1		2
21	141 <1		29	17 <1		90 <1		3
30	328 <1		27	25 <1		70 <1		4
63	120 <1		33	44 <1		70 <1		6
28	133 <1		29	25	1	40	5	4
28	145 <1		22	21 <1		40	2	3
17	142 <1		24	14 <1		10	1	3
4	144 <1		24	4	1	160 <1	<1	
26	28 <1		36	20 <1		30 <1		3

Te	Th	Ti	Tl	U	W	Y	Yb	Zn	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
	10	0.5	3	0.5	1	1	5	1	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<10		36.2	1670	0.7	22	2	493	24	30
<10		41.6	1490	<0.5	9	<1	127	12	40
<10		33.8	1640	1.2	9	<1	107	8	60
<10		14.2	1330	0.5	5	<1	32	4	80
<10		10.6	1130	0.6	5	<1	90	8	240
<10		16.4	1200	<0.5	8	<1	149	14	<20
<10		8.2	77	0.5	5	<1	140	11	30
<10		6.6	647	<0.5	4	<1	50	6	20
<10		20.1	758	<0.5	6	<1	103	8	60
<10		9.5	538	<0.5	5	<1	57	5	50
<10		33.4	1910	0.7	7	1	37	4	160
<10		55.8	5110	0.6	12	2	189	17	30
<10		6.8	481	<0.5	3	<1	42	4	120
<10		26.8	1820	0.8	6	<1	32	4	60
<10		18.2	3540	0.6	5	<1	30	4	110
<10		12.8	4390	0.5	4	<1	76	6	60
<10		19.2	656	<0.5	7	<1	73	6	100
<10		10	1860	<0.5	5	<1	42	5	390
<10		7	832	<0.5	4	<1	58	7	270
<10		8.1	535	<0.5	4	<1	60	5	200
<10		23.9	812	0.5	10	<1	67	6	100
<10		13	4520	0.6	6	<1	62	4	220
<10		16.3	1860	<0.5	5	<1	65	5	160
<10		15.8	624	<0.5	10	<1	74	7	90
<10		6.5	94	<0.5	6	<1	134	10	100
<10		41.9	735	1.1	33	<1	525	34	30
<10		10.7	1130	0.6	11	<1	33	4	130
<10		5.5	681	<0.5	4	<1	74	5	70
<10		10.2	197	0.7	6	<1	264	16	<20
<10		4.3	1650	<0.5	2	<1	23	3	80
<10		11.5	234	<0.5	6	<1	174	13	<20
<10		9.5	2630	<0.5	3	<1	36	4	30
<10		71.8	7130	2.4	23	3	1310	106	30
<10		5.8	581	<0.5	3	<1	52	5	<20
<10		5.8	110	<0.5	4	<1	75	6	<20
<10		5.7	275	<0.5	3	<1	68	5	40
<10		8	1120	0.6	3	<1	77	6	30
<10		11.9	5320	<0.5	4	<1	24	3	30
<10		15	486	<0.5	7	<1	188	11	<20
<10		7.4	4440	<0.5	2	1	36	3	50
<10		13.4	1320	0.6	7	<1	26	3	70
<10		11.2	607	<0.5	7	<1	37	9	920
<10		36	3030	0.9	9	2	89	7	310
<10		12.3	489	<0.5	6	<1	53	7	150
<10		49.8	1400	0.6	25	1	307	21	40
<10		24.8	2470	0.5	7	2	123	10	70
<10		5.6	315	<0.5	5	<1	85	9	180
<10		5.4	196	<0.5	5	<1	43	7	160
<10		39.3	1190	0.7	14	2	120	9	20
<10		123	7310	1.3	15	6	93	8	60
<10		106	3570	1.6	17	3	296	22	40
<10		36.1	4090	0.9	10	2	75	6	230

<10	18.4	207	0.7	30	<1	130	10	<20	
<10	43.2	1570	0.6	10		1	125	9	30
<10	31.6	1210	1.5	17		1	121	12	100
<10	10	370	0.5	4	<1	72	6	30	
<10	9.4	666	0.5	6	<1	71	7	60	
<10	6.7	2480	<0.5	5	<1	39	4	70	
<10	7.1	533	0.5	3	<1	41	5	120	
<10	39.7	2340	1.1	8		1	120	10	60
<10	8.4	369	<0.5	4	<1	56	5	60	
<10	8.7	395	<0.5	4	<1	62	5	50	
<10	6.1	1210	0.6	3	<1	39	5	40	
<10	70.3	2520	0.8	19		2	495	33	50
<10	14.7	1710	<0.5	5	<1	56	6	60	
<10	21.7	3670	0.5	6	<1	61	5	380	
<10	3.6	186	<0.5	3	<1	44	6	<20	
<10	5.4	225	<0.5	3	<1	61	6	30	
<10	4.3	192	<0.5	2	<1	69	6	<20	
<10	7.8	333	<0.5	4	<1	56	6	170	
<10	5	295	<0.5	3	<1	55	6	90	
<10	2.7	461	<0.5	2	<1	56	5	40	
<10	5.7	534	0.7	2	<1			1	90
<10	19.8	13600	0.7	8		3	58	5	620
<10	136	4100	<0.5	23		1	274	23	170
<10	31.4	960	<0.5	9	<1	137	12	230	
<10	16.8	1700	0.8	7	<1	58	9	400	
<10	20	2160	0.7	5	<1	83	7	460	
<10	8.1	670	<0.5	3	<1	64	9	350	
<10	29.3	1870	<0.5	8	<1	85	8	120	
<10	10.8	4100	0.5	5	<1	64	6	340	
<10	16.2	5000	<0.5	4	<1	95	14	60	
<10	6.3	794	<0.5	4	<1	120	9	50	
<10	15.4	1050	0.6	6	<1	84	7	130	
<10	32.6	2270	0.7	9		1	73	7	880
<10	5.9	264	0.5	5	<1	83	8	90	
<10	32.9	697	<0.5	10	<1	142	11	40	
<10	5.3	724	<0.5	4	<1	98	8	50	
<10	14.7	1750	<0.5	5	<1	93	7	110	
<10	11.1	961	<0.5	6	<1	60	6	180	
<10	8.1	5420	<0.5	3	<1	49	5	470	
<10	5.8	4020	0.7	6	<1	8	3	40	
<10	13.2	825	<0.5	6	<1	93	11	80	
<10	10	418	<0.5	6	<1	101	9	50	
<10	45.6	1110	0.8	13	<1	117	10	220	
<10	12.6	1610	<0.5	5	<1	133	10	40	
<10	18.8	1170	<0.5	11	<1	168	15	110	
<10	13	1040	0.8	5	<1	109	9	100	
<10	85.5	4990	1.2	21		2	148	13	110
<10	11.9	548	<0.5	9	<1	184	14	160	
<10	12.1	1240	<0.5	6	<1	61	5	1240	
<10	16.5	861	<0.5	11	<1	89	8	150	
<10	16.2	174	<0.5	9	<1	257	19	50	
<10	106	6670	0.7	19		3	396	28	40
<10	14.8	2240	0.7	9	<1	198	16	230	
<10	18.5	654	<0.5	6	<1	26	4	20	
<10	21.3	913	<0.5	6	<1	123	12	30	
<10	30.6	2140	<0.5	10	<1	185	14	70	

<10	37	1080	0.6	15 <1		117	11	500
<10	4.6	613	1	24	2	88	8	50
<10	61.4	3860	1.2	16	3	139	11	180
<10	46	3480	1	16	1	109	11	70
<10	31.7	1330	0.9	10	1	137	10	90
<10	27.1	3800	1.1	15	2	98	9	200
<10	19.2	4	0.6	33 <1		302	17	70
<10	20.3	3790 <0.5		6 <1		33	4	40
<10	55.4	2610	0.8	17	2	218	17	70
<10	6.8	4280	0.6	4 <1		34	4	100
<10	19.5	644 <0.5		7 <1		62	5	180
<10	97.5	818	1.7	111	1	163	13	180
<10	27.3	754	0.7	9 <1		213	13	20
<10	26.7	1180 <0.5		10 <1		113	8	30
<10	17.9	2610	0.6	10 <1		43	5	110
<10	6.4	113 <0.5		30 <1		138	8	30
<10	12.5	2420 <0.5		6 <1		60	6	60
<10	11.3	1640	0.5	6 <1		96	7	100
<10	23	828	0.6	8 <1		63	7	70
<10	12.2	1890 <0.5		6 <1		70	6	110
<10	24.5	1130 <0.5		7 <1		66	6	40
<10	27.8	112	0.7	11 <1		263	16	40
<10	3.9	19 <0.5		9 <1		26	3 <20	
<10	8.4	154 <0.5		8 <1		176	11	40
<10	31.4	14000	0.9	10	3	28	3	220
<10	11.8	389	0.6	7 <1		104	7	30
<10	43.2	2000	0.8	14	1	120	10	90
<10	11.6	821 <0.5		5 <1		86	7	30
<10	32.5	3230	0.9	12	1	190	17	410
<10	10.2	6600 <0.5		4	1	24	3	260
<10	19.2	998 <0.5		9 <1		93	7	70
<10	36.6	3220	0.5	12	1	49	5	300
<10	36.5	7 <0.5		23 <1		416	24	90
<10	23.3	12400	0.9	7	2	38	4	200
<10	16.1	1520	0.6	7 <1		51	6	320
<10	17.3	664	0.5	14 <1		29	4	60
<10	27.4	2860	0.9	10 <1		56	5	130
<10	21.2	356	0.9	16 <1		94	6	190
<10	24.6	3920	0.9	9	1	54	5	580
<10	7.2	5600	0.7	3 <1		53	6	240
<10	24.4	3200 <0.5		8 <1		83	10	370
<10	48.7	2000	1.5	23	2	370	27	40
<10	92.3	3620	1.4	19	2	233	17	160
<10	25.5	9820	0.9	7	2	93	10	440
<10	9.6	3630	0.7	6 <1		62	8	50
<10	39.3	15700	1.3	16	3	122	13	1900
<10	33.8	687 <0.5		15 <1		168	14 <20	
<10	31.2	2220	1.8	9 <1		92	9	30
<10	5.3	1210 <0.5		4 <1		52	5	20
<10	23.3	1390	0.5	8 <1		82	8	50
<10	6.9	1260 <0.5		5 <1		56	8	110
<10	3.5	580	0.5	3 <1		13	3	40
<10	12.6	4700	0.5	12 <1		37	6	50
<10	8.6	222 <0.5		8 <1		40	6 <20	
<10	12	272 <0.5		6 <1		67	5 <20	
<10	17.6	1090 <0.5		6 <1		91	7	20

<10	6.8	569 <0.5		3 <1		24	5 <20
<10	3.1	22 <0.5		3 <1		55	4 <20
<10	16.8	1530	0.7	8 <1		67	8 70
<10	19	1200 <0.5		11 <1		71	8 50
<10	5.1	400 <0.5		4 <1		44	6 <20
<10	9.3	1390 <0.5		5 <1		17	2 50
<10	28	3150	0.6	5	2	22	3 480
<10	12.7	4060 <0.5		6 <1		29	3 100
<10	9.7	136 <0.5		9 <1		142	13 60
<10	20.5	754 <0.5		16 <1		309	22 50
<10	9.1	121 <0.5		4 <1		80	7 <20
<10	22.3	613 <0.5		16 <1		69	6 <20
<10	12.8	965 <0.5		4 <1		51	5 270
<10	6.7	84 <0.5		10 <1		18	3 <20
<10	29.7	1730	0.5	13 <1		78	7 20
<10	62.4	1230	1.3	35 <1		210	15 <20
<10	26.5	3290	0.9	6	1	28	4 290
<10	32.6	850	0.5	8 <1		72	6 60
<10	15.5	4770 <0.5		7 <1		82	7 70
<10	19.5	10000	0.6	17	2	128	11 100
<10	21.8	1580	0.8	11 <1		127	11 30
<10	10.8	360 <0.5		7 <1		70	6 50
<10	37.9	1600	0.7	16 <1		121	9 30
<10	19.9	265 <0.5		11 <1		431	30 <20
<10	24.7	586 <0.5		9 <1		151	11 <20
<10	15.9	1690 <0.5		8 <1		90	8 50
<10	18.1	4550 <0.5		6 <1		77	8 30
<10	5.8	769	0.9	2 <1		20	6 120
<10	32	2650	0.5	10 <1		78	11 40
<10	6.6	492 <0.5		4 <1		97	8 <20
<10	16.5	1790	0.7	6 <1		43	6 20
<10	18.2	712 <0.5		6 <1		80	7 50
<10	14.6	3170	0.5	6 <1		62	8 70
<10	16.4	594 <0.5		7 <1		92	9 50
<10	29.9	1880 <0.5		8 <1		105	9 30
<10	27.3	2350 <0.5		8	2	92	7 60
<10	47.6	1090	0.7	13	2	128	10 <20
<10	22.3	1790 <0.5		5 <1		26	4 160
<10	29.2	2610 <0.5		4	1	56	5 50
<10	9.1	97 <0.5		4 <1		115	9 30
<10	8.1	2590 <0.5		4 <1		17	2 390
<10	6	267 <0.5		3 <1		47	3 80
<10	6.1	179 <0.5		3 <1		57	4 <20
<10	14.2	476 <0.5		6 <1		64	6 40
<10	33.8	597 <0.5		7	1	110	8 120
<10	4.2	423 <0.5		2 <1		52	4 90
<10	45.7	5760 <0.5		22	2	278	21 260
<10	36.4	1010 <0.5		14 <1		141	11 160
<10	21.8	6780	0.5	10	2	112	10 110
<10	91.8	7870	0.8	18	2	184	14 40
<10	29.7	10600 <0.5		10	5	34	3 280
<10	23.7	1230	0.6	21 <1		100	10 280
<10	13.5	4710	0.6	7	2	63	8 110
<10	42.9	2300	0.5	12	2	88	8 90
<10	26.4	1280 <0.5		12	1	90	9 <20
<10	8.1	294 <0.5		4 <1		102	8 <20

<10	10.9	1860	<0.5		5	<1	15	2	<20	
<10	29	637		0.6	13	<1	327	22	<20	
<10	12.7	708	<0.5		4	<1	30	3	170	
<10	6.2	574	<0.5		5	<1	29	2	410	
<10	25.6	2240	<0.5		10	<1	55	6	50	
<10	32	2940		0.5	12		1	103	13	160
<10	76.9	10800	<0.5		17		9	96	9	60
<10	16.6	1170	<0.5		6	<1		57	5	120
<10	2.2	184		0.6	5		2	111	9	60
<10	31.2	140		0.9	131		1	659	46	50
<10	7.9	958	<0.5		4	<1		75	6	200
<10	41.5	220		1.2	46		1	822	49	80
<10	24.4	6080		0.8	10		1	105	7	110
<10	39.1	423		1.1	24	<1		275	18	50
<10	154	7580		0.9	21		3	135	12	310
<10	75.9	8270		1.3	17		14	201	14	150
<10	9.9	30	<0.5		13	<1		52	3	120
<10	66.6	1730		0.9	23		2	182	13	30
<10	22	8680	<0.5		6		2	54	5	70
<10	18.2	2240		1.1	6	<1		28	3	70
<10	17.6	233		0.5	5	<1		67	4	20
<10	11.3	6640		0.6	4		2	33	4	360
<10	9.8	4090	<0.5		4	<1		96	7	40
<10	26.8	6610		1.4	12		2	105	8	120
<10	8.4	709	<0.5		4	<1		69	5	50
<10	34.6	4440		0.7	11		1	74	7	70
<10	7.3	249	<0.5		4	<1		69	5	<20
<10	92.3	3650		0.9	24		3	164	14	50
<10	59.4	13300		0.9	13		4	146	10	80
<10	8.6	102	<0.5		7	<1		267	18	100
<10	71	1630	<0.5		13		2	206	16	40
<10	46.8	868	<0.5		8	<1		48	6	440
<10	36.2	184	<0.5		68	<1		173	11	40
<10	10.5	1940		0.5	5	<1		60	5	430
<10	23	173	<0.5		189	<1		138	9	40
<10	21.6	2340		0.8	8		1	44	3	50
<10	8.2	10	<0.5		21	<1		9	1	20
<10	7.2	646		0.7	4	<1		23	2	60
<10	15.5	696	<0.5		5	<1		81	8	60
<10	131	8810		1.2	17		4	112	9	170
<10	59.3	5700		0.6	15	<1		203	16	200
<10	15.2	8080	<0.5		5		2	43	5	130
<10	8.3	1220	<0.5		4	<1		107	9	400
<10	70.6	1380	<0.5		35	<1		451	29	<20
<10	25.5	895	<0.5		12	<1		161	10	60
<10	51.6	2890	<0.5		14		1	352	23	60
<10	8.4	478	<0.5		4	<1		87	7	110
<10	11.5	783	<0.5		4	<1		50	5	30
<10	14.5	479	<0.5		8	<1		82	7	30
<10	40.4	1160		0.6	11	<1		81	6	40
<10	51.9	2650	<0.5		10	<1		100	8	60
<10	19.2	854		3	7		8	98	8	80
<10	11.5	571		1.2	5		2	75	5	100
<10	6	99		0.8	3		1	92	7	<20
<10	4	2280		1	3	<1		30	4	<20
<10	21.2	483		0.6	5	<1		73	6	<20

Zr
MMI-M5
5
PPB
40
36
43
22
22
29
9
17
35
20
53
82
15
45
38
43
26
25
22
16
38
48
32
26
10
44
28
12
11
13
15
16
133
15
9
13
21
38
19
35
30
19
55
15
61
38
12
11
58
165
115
65

16
48
45
16
17
24
16
58
15
19
14
56
30
44
10
12
8
13
11
7
10
101
90
32
34
33
20
41
32
26
12
30
45
9
37
9
29
18
25
22
23
16
51
20
22
22
92
27
26
26
15
105
30
26
34
43

48
22
82
54
53
89
14
32
55
22
16
108
24
40
52
32
26
24
31
25
43
18
9
10
77
17
63
27
69
41
33
101
22
80
36
43
66
33
74
26
33
57
118
75
27
124
33
31
15
36
16
11
31
10
17
21

<5 15
45
33
11
29
33
54
16
31
12
38
30
17
54
58
40
34
39
72
51
15
57
20
21
32
37
14
38
10
16
25
29
23
24
38
42
33
37
14
18
13
12
23
25
9
43
25
53
96
38
46
30
56
34
13

23
27
21
15
30
45
87
21
6
37
18
25
46
33
207
165

<5

73
44
35
22
46
34
74
15
53
14
109
105
9
73
65
46
26
30
48

<5

18
20
121
85
41
20
62
21
64
16
21
28
51
55
27
22
11
19
32

Analyte Method Detection Units	UTM East	UTM North	Ag	AgRR	Al
			MMI-M5		MMI-M5
			PPB	1	1
					PPM
HM-07-1	416090	5272353	19		52
HM-07-2	416440	5272198	8		213
HM-07-3	416467	5272184	4		189
HM-07-4	416494	5272171	3		281
HM-07-5	416457	5272224	35		254
HM-07-7	416493	5272272	38		177
HM-07-8	416511	5272294	35		115
HM-07-9	416522	5272316	14		269
HM-07-10	416540	5272345	19		202
HM-07-11	416551	5272375	17		251
HM-07-12	416565	5272390	11		150
HM-07-13	416587	5272410	7		233
HM-07-14	417479	5272466	14		247
HM-07-15	416607	5272462	8		150
HM-07-16	416620	5272462	3		150
HM-07-17	416640	5272510	24		150
HM-07-18	416654	5272538	26		234
HM-07-19	416668	5272558	4		271
HM-07-20	416687	5272583	8		252
HM-07-21	416692	5272600	9		230
HM-07-22	416711	5272637	13		278
HM-07-23	416731	5272650	16		280
HM-07-24	416748	5272680	23		217
HM-07-25	416517	5272151	1		244
HM-07-26	416534	5272131	3		137
HM-07-27	416557	5272118	6		110
HM-07-28	416582	5272113	0.5		259
HM-07-29	416609	5272092	13		176
HM-07-30	416634	5272075	4		74
HM-07-31	416655	5272063	2		262
HM-07-32	416680	5272049	6		107
HM-07-33	416700	5272014	6		277
HM-07-34	416724	5272014	2		133
HM-07-35	416748	5271998	19		197
HM-07-36	416768	5271983	28		115
HM-07-37	416797	5271961	6		203
HM-07-38	416814	5271951	18		132
HM-07-39	416928	5271875	2		204
HM-07-40	416950	5271856	9		125
HM-07-41	416429	5272171	2		168
HM-07-42	416398	5272136	0.5		272
HM-07-43	416362	5272088	3		229
HM-07-44	416351	5272076	5		157
HM-07-45	416322	5272030	3		240
HM-07-46	416312	5272008	9		166
HM-07-47	416448	5272179	18		212
HM-07-48	416443	5272150	2		180
HM-07-49	416444	5272115	1		186
HM-07-50	416411	5272109	2		232
HM-07-51	416393	5272081	3		224
HM-07-52	416373	5272053	3		121
HM-07-53	416359	5272037	6		160

HM-07-54	416345	5272015	12	6	104
HM-07-55	416328	5271991	5	3	249
HM-07-56	416472	5272201	6	3	191
HM-07-57	416489	5272218	13	7	132
HM-07-58	416500	5272242	21	11	214
HM-07-59	416524	5272270	25	13	252
HM-07-60	416534	5272289	27	14	243
HM-07-61	416547	5272319	10	5	150
HM-07-62	416571	5272344	15	8	197
HM-07-63	416589	5272367	24	13	212
HM-07-64	416590	5272383	16	8	260
HM-07-65	416612	5272421	2	1	52
HM-07-66	416645	5272470	25	13	257
HM-07-67	416659	5272494	6	3	293
HM-07-68	416676	5272511	14	7	223
HM-07-69	416685	5272535	7	4	205
HM-07-70	416698	5272563	14	7	175
HM-07-71	416710	5272581	8	4	189
HM-07-72	416737	5272598	5	3	207
HM-07-73	416747	5272619	9	5	189
HM-07-74	416736	5272659	1	1	212
HM-07-75	416507	5272195	5	3	150
HM-07-76	416760	5272604	4	2	150
HM-07-77	416751	5272596	1	1	213
HM-07-78	416731	5272571	8	4	150
HM-07-79	416725	5272541	26	14	150
HM-07-80	416710	5272517	11	6	150
HM-07-81	416686	5272499	7	4	150
HM-07-82	416673	5272470	15	8	150
HM-07-83	416651	5272411	3	2	150
HM-07-84	416635	5272399	25	13	246
HM-07-85	416612	5272375	11	6	150
HM-07-86	416599	5272349	12	6	150
HM-07-87	416579	5272317	10	5	211
HM-07-88	416561	5272298	9	5	233
HM-07-89	416548	5272260	9	5	223
HM-07-90	416533	5272236	14	7	284
HM-07-91	416481	5272178	14	7	273
HM-07-92	416470	5272146	9	5	150
HM-07-93	416451	5272123	0.5	1	150
HM-07-94	416436	5272094	1	1	296
HM-07-95	416411	5272073	23	12	232
HM-07-96	416393	5272050	6	3	150
HM-07-97	416372	5272045	12	6	150
HM-07-98	416366	5272022	15	8	294
HM-07-99	416622	5272117	6	3	150
HM-07-100	416636	5272140	4	2	150
HM-07-101	416671	5272186	4	2	294
HM-07-102	416693	5272213	19	10	150
HM-07-103	416708	5272236	17	9	150
HM-07-104	416752	5272308	8	4	103
HM-07-105	416819	5272397	3	2	194
HM-07-106	416833	5272423	14	7	288
HM-07-107	416843	5272443	4	2	246
HM-07-108	416859	5272468	7	4	150
HM-07-109	416901	5272516	25	13	257

HM-07-110	416918	5272533	4	2	150
HM-07-111	416929	5272543	7	4	86
HM-07-112	416637	5272088	6	3	150
HM-07-113	416648	5272107	6	3	150
HM-07-114	416683	5272163	2	1	242
HM-07-115	416742	5272234	17	9	150
HM-07-116	416754	5272258	20	11	37
HM-07-117	416768	5272276	2	1	150
HM-07-118	416783	5272301	5	3	150
HM-07-119	416852	5272402	3	2	150
HM-07-120	416859	5272433	2	1	64
HM-07-121	416895	5272474	7	4	80
HM-07-122	416674	5272088	9	5	188
HM-07-123	416726	5272164	2	1	252
HM-07-124	416766	5272206	17	9	150
HM-07-125	416777	5272223	9	5	96
HM-07-126	416777	5272245	13	7	150
HM-07-127	416799	5272278	11	6	150
HM-07-128	416848	5272359	0.5	1	150
HM-07-129	416781	5272009	8	4	150
HM-07-130	416809	5272008	13	7	259
HM-07-131	416791	5272029	5	3	105
HM-07-132	416821	5272026	8	4	84
HM-07-133	416802	5272053	25	13	95
HM-07-134	416822	5272046	4	2	250
HM-07-135	416813	5272071	10	5	120
HM-07-136	416840	5272069	2	1	150
HM-07-137	416824	5272087	19	10	150
HM-07-138	416853	5272089	3	2	150
HM-07-139	416841	5272113	3	2	150
HM-07-140	416865	5272113	4	2	150
HM-07-141	416846	5272134	1	1	150
HM-07-142	416877	5272132	6	3	14
HM-07-143	416859	5272154	3	2	150
HM-07-144	416889	5272156	8	4	150
HM-07-145	416872	5272174	4	2	217
HM-07-146	416903	5272170	7	4	223
HM-07-147	416888	5272197	4	2	276
HM-07-148	416913	5272186	5	3	211
HM-07-149	416925	5272255	5	3	150
HM-07-150	416931	5272216	3	2	150
HM-07-151	416939	5272279	39	21	269
HM-07-152	416940	5272227	7	4	150
HM-07-153	416949	5272299	21	11	150
HM-07-154	416954	5272260	17	9	150
HM-07-155	416971	5272325	45	24	150
HM-07-156	416974	5272283	28	15	174
HM-07-157	416983	5272341	14	7	282
HM-07-158	416975	5272298	17	9	215
HM-07-159	416988	5272364	14	7	215
HM-07-160	416998	5272310	14	7	186
HM-07-161	417001	5272381	4	2	251
HM-07-162	417006	5272343	13	7	161
HM-07-163	417009	5272403	6	3	205
HM-07-164	417018	5272362	10	5	156
HM-07-165	417030	5272424	6	3	127

HM-07-166	417034	5272379	11	6	226
HM-07-167	416832	5271978	10	5	58
HM-07-168	417042	5272400	21	11	150
HM-07-169	416863	5272042	0.5	1	110
HM-07-170	417088	5272420	19	10	200
HM-07-171	416871	5272056	0.5	1	258
HM-07-172	417072	5272446	3	2	266
HM-07-173	416880	5272083	0.5	1	260
HM-07-174	416944	5271898	2	1	99
HM-07-175	416898	5272102	3	2	113
HM-07-176	416954	5271916	4	2	103
HM-07-177	416907	5272124	1	1	135
HM-07-178	416963	5271944	5	3	194
HM-07-179	416923	5272172	10	5	83
HM-07-180	416993	5272002	0.5	1	168
HM-07-181	416940	5272195	6	3	172
HM-07-182	417067	5272114	2	1	145
HM-07-183	416955	5272212	9	5	254
HM-07-184	417078	5272133	8	4	161
HM-07-185	416963	5272217	6	3	150
HM-07-186	417089	5272149	14	7	150
HM-07-187	416985	5272248	9	5	162
HM-07-188	417108	5272175	13	7	150
HM-07-189	416993	5272267	22	12	163
HM-07-190	417111	5272200	19	10	138
HM-07-191	417008	5272295	38	20	239
HM-07-192	417118	5272220	9	5	235
HM-07-193	417032	5272335	6	3	222
HM-07-194	417145	5272237	4	2	269
HM-07-195	417049	5272365	10	5	100
HM-07-196	417170	5272260	3	2	223
HM-07-197	417063	5272392	8	4	236
HM-07-198	417171	5272283	6	3	282
HM-07-199	417073	5272399	17	9	188
HM-07-200	417181	5272307	12	6	251
HM-07-201	417082	5272426	13	7	240
HM-07-202	417197	5272321	5	3	166
HM-07-203	417095	5272450	4	2	150
HM-07-204	417205	5272352	11	6	76
HM-07-205	416958	5271870	6	3	120
HM-07-206	417216	5272367	1	1	223
HM-07-207	416975	5271889	10	5	189
HM-07-208	417468	5272445	7	4	169
HM-07-209	416979	5271912	4	2	208
HM-07-210	417413	5272350	2	1	112
HM-07-211	416995	5271940	10	5	235
HM-07-212	417404	5272336	3	2	235
HM-07-213	417007	5271956	4	2	32
HM-07-214	417383	5272313	7	4	150
HM-07-215	417120	5272150	6	3	160
HM-07-216	417380	5272294	1	1	273
HM-07-217	417121	5272166	6	3	150
HM-07-218	417367	5272300	1	1	250
HM-07-219	417143	5272177	19	10	275
HM-07-220	417366	5272321	5	3	216
HM-07-221	417163	5272195	26	14	150

HM-07-222	417384	5272350	7	4	202
HM-07-223	417167	5272219	2	1	178
HM-07-224	417400	5272366	4	2	172
HM-07-225	417177	5272240	3	2	73
HM-07-226	417411	5272389	6	3	256
HM-07-227	417190	5272278	6	3	284
HM-07-228	417443	5272460	1	1	246
HM-07-229	417213	5272303	11	6	243
HM-07-230	417454	5272478	20	11	36
HM-07-231	417216	5272318	11	6	101
HM-07-232	417424	5272556	10	5	274
HM-07-233	417205	5272339	15	8	179
HM-07-234	417411	5272538	11	6	125
HM-07-235	417239	5272350	9	5	152
HM-07-236	417400	5272520	2	1	297
HM-07-237	417509	5272422	7	4	150
HM-07-238	417388	5272494	2	1	28
HM-07-239	417443	5272305	3	2	180
HM-07-240	417346	5272424	2	1	270
HM-07-241	417433	5272294	8	4	237
HM-07-242	417328	5272408	40	21	136
HM-07-243	417420	5272265	2	1	150
HM-07-244	417316	5272383	16	8	210
HM-07-245	417408	5272294	3	2	254
HM-07-246	417298	5272371	18	9	142
HM-07-247	417412	5272301	11	6	282
HM-07-248	417291	5272348	22	12	189
HM-07-249	417429	5272326	4	2	247
HM-07-250	417271	5272367	4	2	150
HM-07-251	417491	5272431	9	5	73
HM-07-252	417288	5272380	5	3	173
HM-07-253	417500	5272453	15	8	268
HM-07-254	417299	5272404	5	3	9
HM-07-255	417519	5272482	22	12	151
HM-07-256	417315	5272443	3	2	11
HM-07-257	417528	5272512	7	4	222
HM-07-258	417347	5272489	6	3	18
HM-07-259	417533	5272464	21	11	144
HM-07-260	417374	5272534	3	2	208
HM-07-261	417457	5272517	6	3	294
HM-07-262	417389	5272552	11	6	241
HM-07-263	417509	5272522	9	5	273
HM-07-264	417401	5272582	12	6	253
HM-07-265	417435	5272494	3	2	78
HM-07-266	417435	5272530	4	2	32
HM-07-267	417427	5272470	2	1	73
HM-07-268	417443	5272549	17	9	193
HM-07-269	417390	5272405	8	4	150
HM-07-271	417382	5272397	28	15	283
HM-07-273	417363	5272362	21	11	277
HM-07-275	417356	5272347	16	8	237
HM-07-277	417327	5272315	12	6	260
HM-07-279	417320	5272313	17	9	255
HM-07-281	417329	5272348	18	9	167
HM-07-285	417344	5272399	5	3	290
HM-07-287	417339	5272407	5	3	223

HM-06-1	416165	5272337	9	5	210
HM-06-2	416188	5272325	21	11	240
HM-06-3	416210	5272313	44	23	230
HM-06-4	416231	5272299	40	21	217
HM-06-5	416254	5272289	32	17	191
HM-06-6	416276	5272274	12	6	208
HM-06-7	416304	5272265	14	7	300
HM-06-8	416323	5272251	15	8	300
HM-06-9	416346	5272240	12	6	274
HM-06-10	416370	5272238	31	16	234
HM-06-11	416390	5272219	1	1	153
HM-06-12	416413	5272206	0.5	1	239
HM-06-13	416418	5272221	8	4	119
HM-06-14	416424	5272235	17	9	251
HM-06-15	416429	5272247	4	2	107
HM-06-16	416433	5272258	11	6	154
HM-06-17	416438	5272267	29	15	280
HM-06-18	416443	5272279	10	5	157
HM-06-19	416445	5272290	26	14	92
HM-06-20	416460	5272310	6	3	149
HM-06-21	416464	5272322	2	1	11
HM-06-22	416470	5272338	6	3	32
HM-06-23	416408	5272195	3	2	198
HM-06-24	416403	5272183	0.5	1	174
HM-06-25	416403	5272172	6	3	81
HM-06-27	416397	5272163	3	2	215
HM-06-28	416397	5272226	12	6	281
HM-06-29	416403	5272238	17	9	186
HM-06-30	416406	5272250	54	28	300
HM-06-31	416408	5272263	53	28	255
HM-06-32	416398	5272287	21	11	220
HM-06-33	416416	5272303	38	20	300
HM-06-34	416428	5272310	47	25	275
HM-06-35	416433	5272316	70	37	300
HM-06-36	416434	5272328	8	4	244
HM-06-37	416447	5272339	6	3	10
HM-06-38	416426	5272351	7	4	88
HM-06-39	416414	5272339	57	30	223
HM-06-40	416415	5272327	10	5	300
HM-06-41	416407	5272316	41	22	245
HM-06-42	416395	5272304	93	49	217
HM-06-43	416391	5272295	134	71	240
HM-06-44	416387	5272277	104	55	222
HM-06-45	416382	5272267	88	46	255
HM-06-46	416377	5272248	16	8	293
HM-06-47	416361	5272224	23	12	259
HM-06-48	416359	5272213	15	8	189
HM-06-49	416349	5272204	1	1	151
HM-06-50	416342	5272192	0.5	1	213
HM-06-51	416367	5272179	0.5	1	300
HM-06-52	416371	5272190	0.5	1	300
HM-06-53	416376	5272201	4	2	300
HM-06-54	416383	5272214	14	7	240
HM-06-55	416339	5272230	30	16	179
HM-06-56	416334	5272218	1	1	277
HM-06-57	416328	5272210	0.5	1	217

HM-06-58	416324	5272200	0.5	1	284
HM-06-59	416349	5272257	6	3	261
HM-06-60	416353	5272275	10	5	300
HM-06-62	416355	5272289	42	22	225
HM-06-63	416361	5272295	57	30	294
HM-06-64	416360	5272307	20	11	273
HM-06-65	416379	5272319	41	22	206
HM-06-66	416383	5272330	38	20	219
HM-06-67	416388	5272339	63	33	256
HM-06-68	416394	5272350	30	16	240
HM-06-69	416398	5272361	29	15	227
HM-06-70	416399	5272373	12	6	192
HM-06-71	416381	5272380	13	7	193
HM-06-72	416374	5272372	14	7	258
HM-06-73	416367	5272364	16	8	252
HM-06-74	416361	5272347	43	23	296
HM-06-75	416354	5272337	77	41	276
HM-06-76	416346	5272327	149	79	235
HM-06-77	416344	5272312	84	44	144
HM-06-78	416341	5272300	99	52	161
HM-06-79	416338	5272287	575	303	115
HM-06-80	416332	5272275	129	68	228
HM-06-81	416328	5272264	4	2	215
HM-06-82	416323	5272240	17	9	217
HM-06-83	416314	5272228	10	5	205
HM-06-84	416309	5272219	2	1	240
HM-06-85	416303	5272209	7	4	217
HM-06-86	416281	5272219	7	4	281
HM-06-87	416288	5272230	8	4	300
HM-06-88	416296	5272243	8	4	245
HM-06-89	416303	5272253	6	3	295
HM-06-90	416309	5272277	40	21	243
HM-06-91	416309	5272286	98	52	201
HM-06-92	416314	5272297	69	36	227
HM-06-93	416310	5272315	100	53	237
HM-06-94	416315	5272328	91	48	172
HM-06-95	416328	5272340	37	20	300
HM-06-96	416332	5272349	20	11	234
HM-06-97	416338	5272359	35	18	262
HM-06-98	416343	5272370	16	8	261
HM-06-99	416347	5272383	7	4	228
HM-06-100	416358	5272387	18	9	153
HM-06-101	416328	5272397	14	7	236
HM-06-102	416322	5272387	18	9	234
HM-06-103	416316	5272381	7	4	217
HM-06-104	416314	5272368	26	14	171
HM-06-105	416310	5272358	17	9	220
HM-06-106	416306	5272344	18	9	211
HM-06-107	416299	5272338	21	11	179
HM-06-108	416292	5272327	29	15	263
HM-06-109	416288	5272311	43	23	192
HM-06-110	416285	5272297	10	5	156
HM-06-111	416278	5272285	67	35	274
HM-06-112	416273	5272259	8	4	246
HM-06-113	416267	5272249	13	7	235
HM-06-114	416260	5272240	3	2	188

HM-06-115	416257	5272230	3	2	224
HM-06-116	416232	5272242	6	3	252
HM-06-117	416238	5272254	13	7	179
HM-06-118	416244	5272265	21	11	171
HM-06-119	416249	5272274	10	5	224
HM-06-120	416259	5272296	13	7	203
HM-06-122	416263	5272309	7	4	138
HM-06-123	416266	5272317	11	6	126
HM-06-124	416271	5272334	3	2	266
HM-06-125	416283	5272344	92	49	206
HM-06-126	416286	5272357	10	5	227
HM-06-127	416292	5272368	17	9	225
HM-06-128	416296	5272375	23	12	193
HM-06-129	416300	5272389	12	6	212
HM-06-130	416305	5272399	7	4	180
HM-06-131	416313	5272408	6	3	264
HM-06-132	416287	5272418	4	2	191
HM-06-133	416282	5272408	12	6	148
HM-06-134	416273	5272392	5	3	248
HM-06-135	416269	5272381	22	12	172
HM-06-136	416268	5272375	12	6	240
HM-06-137	416259	5272364	7	4	195
HM-06-138	416257	5272355	157	83	202
HM-06-139	416244	5272342	10	5	120
HM-06-140	416246	5272333	2	1	183
HM-06-141	416246	5272324	8	4	149
HM-06-142	416241	5272311	32	17	218
HM-06-143	416224	5272291	16	8	173
HM-06-144	416217	5272284	19	10	224
HM-06-145	416212	5272271	8	4	185
HM-06-146	416205	5272259	4	2	143
HM-06-147	416188	5272272	2	1	130
HM-06-148	416194	5272284	4	2	144
HM-06-149	416201	5272298	11	6	241
HM-06-150	416206	5272305	7	4	169
HM-06-151	416219	5272322	2	1	204
HM-06-152	416221	5272334	6	3	174
HM-06-153	416228	5272361	4	2	185
HM-06-154	416235	5272369	2	1	230
HM-06-155	416237	5272376	5	3	224
HM-06-156	416253	5272391	10	5	219
HM-06-157	416249	5272402	16	8	186
HM-06-158	416258	5272410	11	6	256
HM-06-159	416227	5272409	2	1	198
HM-06-160	416220	5272399	4	2	227
HM-06-162	416212	5272384	7	4	121
HM-06-163	416210	5272372	14	7	173
HM-06-164	416205	5272358	298	157	91
HM-06-165	416200	5272352	3	2	128
HM-06-166	416197	5272343	28	15	172
HM-06-167	416194	5272330	94	50	190
HM-06-168	416182	5272316	15	8	197
HM-06-169	416179	5272306	12	6	106
HM-06-170	416175	5272289	13	7	225
HM-06-171	416170	5272279	8	4	176
HM-06-172	416151	5272288	8	4	178

HM-06-173	416153	5272303	25	13	174
HM-06-174	416157	5272318	25	13	224
HM-06-175	416164	5272324	25	13	205
HM-06-176	416169	5272347	17	9	217
HM-06-177	416172	5272357	5	3	200
HM-06-178	416173	5272364	48	25	192
HM-06-179	416183	5272379	3	2	77
HM-06-180	416186	5272389	4	2	103
HM-06-181	416194	5272398	1	1	218
HM-06-182	416198	5272410	7	4	109
HM-06-183	416180	5272443	9	5	75
HM-06-184	416175	5272436	5	3	91
HM-06-185	416180	5272423	4	2	130
HM-06-186	416176	5272416	0.5	1	247
HM-06-187	416171	5272407	0.5	1	204
HM-06-188	416166	5272400	20	11	42
HM-06-189	416162	5272381	43	23	155
HM-06-190	416154	5272363	32	17	167
HM-06-191	416147	5272352	6	3	191
HM-06-192	416142	5272341	35	18	211
HM-06-193	416143	5272327	45	24	190
HM-06-194	416130	5272315	26	14	129
HM-06-195	416125	5272303	39	21	86
HM-06-196	416122	5272293	17	9	181

**25TH PERCENTILE
BACKGROUND**

**4
1.895604** **150
96.05747**

AIRR	As MMI-M5 10 PPB	AsRR	Au MMI-M5 0.1 PPB	AuRR	Ba MMI-M5 10 PPB	BaRR	Bi MMI-M5 1 PPB	BiRR	
	1	20	4	7.2	144	2540	13	10	20
	2	5	1	0.5	10	800	4	0.5	1
	2	5	1	0.3	6	710	4	0.5	1
	3	5	1	0.05	1	500	3	0.5	1
	3	5	1	0.1	2	270	1	0.5	1
	2	5	1	0.2	4	190	1	0.5	1
	1	5	1	0.5	10	330	2	0.5	1
	3	5	1	0.4	8	460	2	0.5	1
	2	5	1	0.2	4	670	4	0.5	1
	3	5	1	0.05	1	830	4	0.5	1
	2	30	6	0.05	1	870	5	1	2
	2	30	6	0.6	12	630	3	1	2
	3	5	1	0.05	1	460	2	0.5	1
	2	20	4	0.2	4	1240	7	0.5	1
	2	5	1	0.05	1	970	5	0.5	1
	2	5	1	0.1	2	360	2	0.5	1
	2	5	1	0.05	1	320	2	0.5	1
	3	5	1	0.05	1	520	3	0.5	1
	3	5	1	0.05	1	290	2	0.5	1
	2	5	1	0.05	1	320	2	0.5	1
	3	5	1	0.05	1	480	3	0.5	1
	3	5	1	0.05	1	560	3	0.5	1
	2	5	1	0.05	1	420	2	0.5	1
	3	5	1	0.2	4	160	1	0.5	1
	1	5	1	0.3	6	40	1	0.5	1
	1	5	1	0.3	6	1140	6	0.5	1
	3	5	1	0.2	4	370	2	0.5	1
	2	5	1	0.05	1	210	1	0.5	1
	1	5	1	0.1	2	70	1	0.5	1
	3	5	1	0.05	1	300	2	0.5	1
	1	5	1	0.4	8	60	1	0.5	1
	3	5	1	0.05	1	190	1	0.5	1
	1	20	4	0.4	8	6900	36	0.5	1
	2	5	1	0.05	1	600	3	0.5	1
	1	5	1	0.05	1	120	1	0.5	1
	2	5	1	0.05	1	450	2	0.5	1
	1	5	1	0.05	1	860	5	0.5	1
	2	5	1	0.05	1	410	2	0.5	1
	1	5	1	0.05	1	190	1	0.5	1
	2	5	1	0.1	2	290	2	0.5	1
	3	10	2	0.2	4	330	2	0.5	1
	2	5	1	0.1	2	440	2	0.5	1
	2	40	8	0.3	6	1570	8	2	4
	2	5	1	0.1	2	340	2	0.5	1
	2	10	2	0.1	2	470	2	2	4
	2	5	1	0.2	4	510	3	0.5	1
	2	5	1	0.4	8	40	1	0.5	1
	2	5	1	0.05	1	70	1	0.5	1
	2	5	1	0.2	4	620	3	0.5	1
	2	50	10	0.6	12	2580	14	2	4
	1	50	10	1	20	1680	9	1	2
	2	20	4	0.6	12	1820	10	2	4

1	5	1	3.4	68	570	3	0.5	1
3	5	1	0.3	6	640	3	0.5	1
2	20	4	0.8	16	1310	7	2	4
1	5	1	0.2	4	260	1	0.5	1
2	5	1	0.1	2	320	2	0.5	1
3	5	1	0.2	4	210	1	0.5	1
3	5	1	0.05	1	300	2	0.5	1
2	10	2	0.1	2	970	5	0.5	1
2	5	1	0.05	1	250	1	0.5	1
2	5	1	0.05	1	360	2	0.5	1
3	5	1	0.05	1	390	2	0.5	1
1	20	4	0.5	10	1190	6	2	4
3	5	1	0.05	1	650	3	0.5	1
3	5	1	0.05	1	690	4	1	2
2	5	1	0.05	1	170	1	0.5	1
2	5	1	0.05	1	150	1	0.5	1
2	5	1	0.05	1	50	1	0.5	1
2	5	1	0.05	1	250	1	0.5	1
2	5	1	0.05	1	440	2	0.5	1
2	5	1	0.05	1	150	1	0.5	1
2	5	1	0.2	4	590	3	0.5	1
2	10	2	0.5	10	640	3	3	6
2	30	6	0.2	4	750	4	5	10
2	10	2	0.1	2	300	2	0.5	1
2	10	2	0.05	1	510	3	0.5	1
2	5	1	0.05	1	330	2	0.5	1
2	5	1	0.05	1	450	2	0.5	1
2	5	1	0.05	1	870	5	0.5	1
2	30	6	0.05	1	1190	6	0.5	1
2	5	1	0.05	1	440	2	0.5	1
3	5	1	0.05	1	250	1	0.5	1
2	10	2	0.05	1	710	4	0.5	1
2	10	2	0.05	1	920	5	1	2
2	5	1	0.05	1	330	2	0.5	1
2	5	1	0.6	12	420	2	0.5	1
2	5	1	0.2	4	420	2	0.5	1
3	5	1	0.1	2	280	1	0.5	1
3	5	1	0.05	1	360	2	0.5	1
2	5	1	0.05	1	1000	5	0.5	1
2	10	2	0.2	4	430	2	0.5	1
3	5	1	0.05	1	130	1	0.5	1
2	5	1	0.1	2	110	1	0.5	1
2	10	2	0.2	4	680	4	0.5	1
2	5	1	0.1	2	480	3	0.5	1
3	10	2	0.1	2	200	1	0.5	1
2	5	1	0.2	4	270	1	0.5	1
2	10	2	0.2	4	1170	6	0.5	1
3	5	1	0.4	8	160	1	0.5	1
2	5	1	0.7	14	320	2	0.5	1
2	5	1	1.1	22	660	3	0.5	1
1	5	1	0.2	4	230	1	0.5	1
2	20	4	0.3	6	650	3	1	2
3	10	2	0.3	6	300	2	0.5	1
3	5	1	0.05	1	320	2	0.5	1
2	5	1	0.1	2	490	3	0.5	1
3	20	4	0.3	6	1850	10	1	2

2	10	2	1.9	38	840	4	0.5	1
1	20	4	1.4	28	560	3	0.5	1
2	20	4	0.2	4	910	5	1	2
2	10	2	0.2	4	670	4	0.5	1
3	10	2	0.3	6	790	4	0.5	1
2	30	6	2	40	910	5	2	4
1	5	1	1.2	24	1630	9	0.5	1
2	5	1	0.05	1	530	3	0.5	1
2	10	2	0.4	8	660	3	0.5	1
2	20	4	0.05	1	620	3	0.5	1
1	5	1	0.05	1	1300	7	0.5	1
1	60	12	1.3	26	1100	6	3	6
2	5	1	0.2	4	300	2	0.5	1
3	5	1	0.3	6	430	2	0.5	1
2	20	4	1.2	24	500	3	1	2
1	5	1	2.4	48	980	5	0.5	1
2	20	4	0.05	1	1270	7	0.5	1
2	5	1	0.05	1	290	2	0.5	1
2	10	2	0.2	4	540	3	0.5	1
2	5	1	0.05	1	310	2	0.5	1
3	5	1	0.05	1	440	2	0.5	1
1	5	1	0.4	8	170	1	0.5	1
1	5	1	0.1	2	100	1	0.5	1
1	5	1	0.2	4	810	4	0.5	1
3	100	20	0.05	1	990	5	5	10
1	5	1	0.2	4	200	1	0.5	1
2	30	6	0.1	2	550	3	0.5	1
2	5	1	0.1	2	370	2	0.5	1
2	20	4	0.1	2	600	3	1	2
2	10	2	0.2	4	370	2	0.5	1
2	5	1	0.2	4	390	2	0.5	1
2	30	6	0.4	8	570	3	2	4
1	5	1	1	20	2140	11	0.5	1
2	50	10	0.4	8	1070	6	2	4
2	20	4	1.5	30	300	2	0.5	1
2	20	4	6.7	134	300	2	0.5	1
2	20	4	0.4	8	770	4	2	4
3	5	1	1.4	28	280	1	0.5	1
2	20	4	0.3	6	1230	6	2	4
2	20	4	0.05	1	950	5	0.5	1
2	20	4	0.05	1	620	3	1	2
3	10	2	0.7	14	1460	8	0.5	1
2	20	4	0.5	10	3780	20	2	4
2	20	4	0.05	1	1680	9	2	4
2	5	1	0.05	1	890	5	0.5	1
2	80	16	0.05	1	2050	11	0.5	1
2	5	1	0.5	10	360	2	0.5	1
3	5	1	1.2	24	750	4	0.5	1
2	5	1	0.05	1	290	2	0.5	1
2	5	1	0.05	1	480	3	0.5	1
2	5	1	0.6	12	140	1	0.5	1
3	5	1	0.05	1	510	3	0.5	1
2	10	2	0.1	2	220	1	1	2
2	5	1	0.05	1	390	2	0.5	1
2	5	1	0.05	1	130	1	0.5	1
1	5	1	0.05	1	160	1	0.5	1

2	5	1	0.05	1	280	1	0.5	1
1	5	1	0.1	2	140	1	0.5	1
2	20	4	0.3	6	640	3	0.5	1
1	5	1	0.05	1	210	1	0.5	1
2	5	1	0.05	1	360	2	0.5	1
3	5	1	0.05	1	190	1	0.5	1
3	40	8	0.05	1	1070	6	2	4
3	5	1	0.1	2	220	1	0.5	1
1	5	1	0.05	1	90	1	0.5	1
1	5	1	0.3	6	260	1	0.5	1
1	5	1	0.05	1	90	1	0.5	1
1	5	1	0.3	6	230	1	0.5	1
2	5	1	0.05	1	600	3	0.5	1
1	5	1	9.1	182	50	1	1	2
2	20	4	0.1	2	1000	5	1	2
2	5	1	0.1	2	810	4	1	2
2	20	4	0.05	1	620	3	2	4
3	5	1	0.05	1	740	4	0.5	1
2	5	1	0.4	8	400	2	0.5	1
2	5	1	0.05	1	600	3	1	2
2	20	4	0.05	1	890	5	0.5	1
2	5	1	0.1	2	270	1	0.5	1
2	10	2	0.05	1	660	3	0.5	1
2	5	1	0.9	18	200	1	0.5	1
1	5	1	0.2	4	280	1	0.5	1
2	5	1	0.8	16	270	1	0.5	1
2	10	2	0.05	1	500	3	0.5	1
2	5	1	0.05	1	270	1	0.5	1
3	10	2	0.05	1	390	2	0.5	1
1	5	1	0.05	1	40	1	0.5	1
2	5	1	0.05	1	440	2	0.5	1
2	10	2	0.05	1	300	2	0.5	1
3	5	1	0.05	1	610	3	0.5	1
2	5	1	0.1	2	230	1	0.5	1
3	10	2	0.05	1	440	2	0.5	1
2	5	1	0.05	1	270	1	0.5	1
2	5	1	0.3	6	830	4	0.5	1
2	20	4	0.05	1	1210	6	0.5	1
1	20	4	0.05	1	1020	5	1	2
1	5	1	0.05	1	60	1	0.5	1
2	10	2	0.05	1	610	3	1	2
2	5	1	0.05	1	540	3	0.5	1
2	5	1	0.2	4	450	2	0.5	1
2	5	1	0.05	1	170	1	0.5	1
1	10	2	0.4	8	430	2	0.5	1
2	5	1	0.05	1	380	2	0.5	1
2	5	1	0.1	2	190	1	1	2
1	20	4	0.2	4	760	4	0.5	1
2	20	4	0.05	1	780	4	2	4
2	30	6	0.2	4	1540	8	2	4
3	20	4	0.05	1	660	3	4	8
2	10	2	0.05	1	630	3	0.5	1
3	5	1	0.05	1	380	2	0.5	1
3	10	2	0.2	4	540	3	0.5	1
2	5	1	0.1	2	100	1	0.5	1
2	5	1	0.05	1	260	1	0.5	1

2	5	1	0.05	1	600	3	0.5	1
2	5	1	0.05	1	910	5	0.5	1
2	5	1	0.05	1	720	4	0.5	1
1	5	1	0.05	1	640	3	1	2
3	10	2	0.1	2	580	3	0.5	1
3	10	2	0.05	1	630	3	0.5	1
3	20	4	0.05	1	2410	13	3	6
3	5	1	0.05	1	820	4	0.5	1
1	5	1	0.1	2	120	1	0.5	1
1	5	1	0.9	18	570	3	0.5	1
3	5	1	0.05	1	520	3	0.5	1
2	5	1	0.4	8	780	4	0.5	1
1	5	1	0.05	1	890	5	0.5	1
2	5	1	0.4	8	590	3	1	2
3	30	6	0.2	4	2580	14	3	6
2	20	4	0.9	18	1840	10	14	28
1	5	1	0.05	1	680	4	0.5	1
2	5	1	0.3	6	720	4	1	2
3	20	4	0.05	1	360	2	0.5	1
2	5	1	0.3	6	430	2	0.5	1
1	5	1	0.1	2	900	5	0.5	1
2	10	2	0.1	2	610	3	1	2
2	5	1	0.05	1	430	2	0.5	1
3	10	2	0.1	2	710	4	1	2
1	5	1	0.1	2	150	1	0.5	1
3	5	1	0.2	4	750	4	0.5	1
2	5	1	0.05	1	380	2	0.5	1
3	10	2	1.1	22	1210	6	1	2
2	40	8	0.3	6	1620	9	4	8
1	5	1	0.1	2	340	2	0.5	1
2	40	8	0.7	14	1650	9	10	20
3	10	2	0.9	18	650	3	0.5	1
1	5	1	0.3	6	3600	19	0.5	1
2	5	1	0.4	8	420	2	0.5	1
1	10	2	0.5	10	1690	9	0.5	1
2	10	2	0.1	2	680	4	0.5	1
1	5	1	0.3	6	960	5	0.5	1
1	5	1	0.5	10	570	3	0.5	1
2	5	1	0.05	1	520	3	0.5	1
3	50	10	0.7	14	1110	6	3	6
3	20	4	0.05	1	980	5	1	2
3	20	4	0.4	8	770	4	0.5	1
3	5	1	0.05	1	160	1	0.5	1
1	10	2	0.05	1	470	2	0.5	1
1	5	1	0.05	1	1070	6	0.5	1
1	10	2	0.1	2	1490	8	0.5	1
2	5	1	0.05	1	300	2	0.5	1
2	10	2	0.05	1	470	2	0.5	1
3	5	1	0.1	2	620	3	0.5	1
3	5	1	0.2	4	410	2	0.5	1
2	5	1	0.5	10	680	4	0.5	1
3	5	1	0.1	2	310	2	0.5	1
3	5	1	0.05	1	310	2	0.5	1
2	5	1	0.05	1	100	1	0.5	1
3	5	1	0.05	1	740	4	0.5	1
2	5	1	0.05	1	250	1	0.5	1

2	10	2	0.3	6	490	3	0.5	1
2	10	2	0.2	4	700	4	0.5	1
2	10	2	1.6	32	240	1	0.5	1
2	5	1	0.6	12	360	2	0.5	1
2	5	1	0.6	12	210	1	0.5	1
2	20	4	1.9	38	340	2	0.5	1
3	30	6	0.5	10	1840	10	2	4
3	5	1	0.1	2	400	2	0.5	1
3	5	1	0.05	1	650	3	0.5	1
2	5	1	0.05	1	710	4	0.5	1
2	30	6	1.1	22	1060	6	3	6
2	90	18	0.2	4	570	3	2	4
1	20	4	0.7	14	390	2	0.5	1
3	10	2	0.2	4	630	3	0.5	1
1	20	4	1.1	22	610	3	2	4
2	20	4	0.6	12	1110	6	2	4
3	30	6	1.6	32	610	3	2	4
2	20	4	0.5	10	830	4	0.5	1
1	10	2	1.7	34	660	3	0.5	1
2	20	4	0.5	10	1090	6	2	4
1	60	12	0.2	4	470	2	0.5	1
1	40	8	0.4	8	460	2	0.5	1
2	30	6	0.3	6	600	3	2	4
2	20	4	0.2	4	280	1	1	2
1	40	8	1	20	800	4	2	4
2	30	6	0.9	18	440	2	3	6
3	10	2	0.3	6	570	3	0.5	1
2	100	20	0.9	18	740	4	3	6
3	30	6	0.2	4	610	3	0.5	1
3	5	1	0.4	8	710	4	0.5	1
2	30	6	1.2	24	2440	13	2	4
3	30	6	0.2	4	1630	9	0.5	1
3	5	1	0.2	4	820	4	0.5	1
3	50	10	0.9	18	2310	12	2	4
3	20	4	0.3	6	720	4	0.5	1
1	20	4	0.4	8	3810	20	0.5	1
1	30	6	0.4	8	1080	6	2	4
2	5	1	0.4	8	650	3	0.5	1
3	30	6	0.2	4	840	4	1	2
3	5	1	0.05	1	680	4	0.5	1
2	5	1	0.2	4	430	2	0.5	1
2	5	1	1.2	24	370	2	0.5	1
2	5	1	1.3	26	550	3	0.5	1
3	5	1	0.3	6	1570	8	0.5	1
3	40	8	0.05	1	1540	8	2	4
3	5	1	0.2	4	410	2	0.5	1
2	5	1	0.1	2	650	3	0.5	1
2	20	4	0.3	6	420	2	0.5	1
2	20	4	0.05	1	400	2	0.5	1
3	20	4	0.1	2	460	2	0.5	1
3	5	1	0.05	1	310	2	0.5	1
3	20	4	0.3	6	440	2	0.5	1
2	20	4	0.2	4	630	3	0.5	1
2	5	1	0.2	4	400	2	0.5	1
3	40	8	0.2	4	320	2	1	2
2	5	1	0.1	2	250	1	2	4

3	20	4	0.2	4	330	2	0.5	1
3	10	2	0.05	1	440	2	0.5	1
3	10	2	0.2	4	670	4	0.5	1
2	100	20	0.6	12	1060	6	7	14
3	50	10	0.2	4	840	4	2	4
3	50	10	0.4	8	820	4	2	4
2	5	1	0.7	14	330	2	0.5	1
2	5	1	0.1	2	830	4	0.5	1
3	10	2	0.4	8	1020	5	0.5	1
2	5	1	0.2	4	650	3	0.5	1
2	5	1	0.1	2	680	4	0.5	1
2	5	1	0.1	2	390	2	0.5	1
2	5	1	0.2	4	550	3	0.5	1
3	5	1	0.1	2	640	3	0.5	1
3	5	1	0.05	1	550	3	0.5	1
3	5	1	0.1	2	350	2	0.5	1
3	5	1	0.3	6	570	3	0.5	1
2	5	1	0.4	8	430	2	0.5	1
1	5	1	0.2	4	210	1	0.5	1
2	5	1	0.8	16	200	1	0.5	1
1	5	1	14.1	282	120	1	0.5	1
2	40	8	10	200	380	2	2	4
2	5	1	0.05	1	600	3	0.5	1
2	5	1	0.05	1	300	2	0.5	1
2	5	1	0.05	1	500	3	0.5	1
2	5	1	0.2	4	200	1	0.5	1
2	5	1	0.2	4	180	1	0.5	1
3	10	2	0.05	1	560	3	0.5	1
3	20	4	0.2	4	640	3	0.5	1
3	5	1	0.2	4	170	1	0.5	1
3	5	1	0.4	8	250	1	0.5	1
3	20	4	0.9	18	260	1	0.5	1
2	5	1	1.6	32	140	1	0.5	1
2	5	1	1.2	24	340	2	1	2
2	20	4	4.2	84	290	2	0.5	1
2	5	1	1.1	22	110	1	0.5	1
3	5	1	0.2	4	590	3	0.5	1
2	5	1	0.05	1	530	3	0.5	1
3	5	1	0.1	2	470	2	0.5	1
3	5	1	0.05	1	550	3	0.5	1
2	5	1	0.2	4	880	5	0.5	1
2	5	1	0.2	4	210	1	0.5	1
2	5	1	0.05	1	460	2	0.5	1
2	5	1	0.05	1	210	1	0.5	1
2	5	1	0.05	1	470	2	0.5	1
2	5	1	0.05	1	180	1	0.5	1
2	5	1	0.05	1	450	2	0.5	1
2	5	1	0.7	14	700	4	0.5	1
2	5	1	0.4	8	370	2	0.5	1
3	5	1	3.9	78	400	2	0.5	1
2	5	1	17.5	350	150	1	0.5	1
2	10	2	5.5	110	260	1	0.5	1
3	10	2	0.7	14	930	5	0.5	1
3	5	1	0.3	6	610	3	0.5	1
2	10	2	2.2	44	330	2	0.5	1
2	50	10	1.1	22	1170	6	2	4

2	10	2	0.3	6	510	3	1	2
3	5	1	0.6	12	330	2	0.5	1
2	5	1	0.6	12	420	2	0.5	1
2	5	1	0.2	4	260	1	0.5	1
2	5	1	0.2	4	330	2	0.5	1
2	5	1	0.3	6	360	2	0.5	1
1	20	4	6.5	130	420	2	0.5	1
1	5	1	37.4	748	230	1	0.5	1
3	20	4	3.3	66	200	1	11	22
2	5	1	1	20	480	3	0.5	1
2	5	1	0.05	1	480	3	0.5	1
2	5	1	0.1	2	400	2	0.5	1
2	5	1	0.05	1	400	2	0.5	1
2	5	1	0.05	1	710	4	0.5	1
2	5	1	0.05	1	180	1	0.5	1
3	10	2	0.2	4	1000	5	0.5	1
2	5	1	0.2	4	270	1	0.5	1
2	5	1	0.2	4	300	2	0.5	1
3	5	1	0.05	1	650	3	0.5	1
2	5	1	0.05	1	340	2	0.5	1
2	5	1	1.5	30	800	4	0.5	1
2	5	1	1.5	30	510	3	1	2
2	10	2	9.1	182	190	1	2	4
1	50	10	3.7	74	410	2	21	42
2	10	2	1.4	28	340	2	9	18
2	5	1	1.3	26	500	3	0.5	1
2	5	1	0.8	16	610	3	0.5	1
2	5	1	0.3	6	170	1	0.5	1
2	5	1	0.2	4	790	4	0.5	1
2	5	1	0.2	4	310	2	0.5	1
1	5	1	0.4	8	110	1	0.5	1
1	5	1	0.9	18	250	1	0.5	1
1	5	1	0.4	8	190	1	0.5	1
3	5	1	0.2	4	400	2	0.5	1
2	5	1	1.5	30	620	3	0.5	1
2	5	1	0.5	10	600	3	2	4
2	5	1	2.6	52	160	1	0.5	1
2	20	4	0.8	16	220	1	12	24
2	5	1	0.5	10	390	2	3	6
2	10	2	2.4	48	230	1	7	14
2	5	1	1.4	28	480	3	0.5	1
2	5	1	1.2	24	700	4	0.5	1
3	5	1	0.7	14	690	4	0.5	1
2	30	6	0.5	10	960	5	3	6
2	20	4	0.2	4	990	5	2	4
1	10	2	5.1	102	840	4	1	2
2	20	4	4.9	98	590	3	1	2
1	5	1	64.3	1286	40	1	3	6
1	5	1	3.5	70	110	1	0.5	1
2	5	1	27.2	544	170	1	1	2
2	20	4	43.7	874	660	3	17	34
2	5	1	0.5	10	610	3	1	2
1	5	1	0.3	6	1330	7	0.5	1
2	5	1	0.3	6	220	1	0.5	1
2	5	1	1.5	30	200	1	0.5	1
2	5	1	0.4	8	200	1	0.5	1

2	5	1	0.2	4	190	1	0.5	1
2	5	1	0.5	10	1210	6	0.5	1
2	5	1	0.4	8	610	3	0.5	1
2	5	1	3.2	64	540	3	4	8
2	70	14	2.1	42	510	3	40	80
2	10	2	6.7	134	300	2	2	4
1	5	1	0.6	12	1060	6	0.5	1
1	5	1	0.6	12	110	1	0.5	1
2	50	10	0.05	1	720	4	2	4
1	5	1	0.4	8	260	1	0.5	1
1	5	1	3.2	64	830	4	1	2
1	5	1	0.4	8	860	5	0.5	1
1	5	1	0.7	14	410	2	0.5	1
3	5	1	0.1	2	320	2	0.5	1
2	5	1	0.05	1	310	2	0.5	1
1	5	1	2.8	56	120	1	0.5	1
2	270	54	2.2	44	780	4	77	154
2	5	1	0.7	14	230	1	0.5	1
2	5	1	0.2	4	250	1	0.5	1
2	10	2	2.2	44	430	2	2	4
2	5	1	1.3	26	230	1	0.5	1
1	5	1	1	20	1270	7	0.5	1
1	5	1	3.3	66	330	2	0.5	1
2	5	1	0.9	18	500	3	0.5	1
	5		0.05		300		0.5	
	5		0.05		189.0351		0.5	

Ca MMI-M5 10 PPM	CaRR	Cd MMI-M5 10 PPB	CdRR	Ce MMI-M5 5 PPB	CeRR	Co MMI-M5 5 PPB	CoRR	Cr MMI-M5 100 PPB	
170		34	5	2	1450	45	28	1	50
5		1	10	4	171	5	33	2	100
20		4	5	2	423	13	64	3	100
10		2	5	2	102	3	41	2	200
5		1	20	7	88	3	63	3	100
5		1	5	2	204	6	21	1	50
5		1	5	2	129	4	52	3	50
5		1	5	2	47	1	65	3	50
10		2	5	2	167	5	49	3	50
10		2	5	2	62	2	89	5	50
10		2	20	7	122	4	243	12	200
20		4	5	2	578	18	94	5	300
5		1	5	2	60	2	55	3	50
5		1	5	2	112	4	110	6	100
10		2	5	2	108	3	57	3	50
5		1	5	2	126	4	114	6	50
5		1	5	2	95	3	37	2	50
5		1	20	7	32	1	86	4	50
5		1	10	4	40	1	62	3	50
10		2	20	7	52	2	62	3	50
5		1	10	4	107	3	52	3	50
40		8	10	4	123	4	29	1	50
70		14	5	2	223	7	42	2	100
5		1	5	2	133	4	17	1	50
5		1	10	4	123	4	50	3	50
190		38	5	2	1030	32	65	3	50
20		4	5	2	52	2	25	1	50
5		1	5	2	82	3	46	2	50
5		1	5	2	1070	34	9	1	50
5		1	5	2	28	1	36	2	50
5		1	5	2	365	11	17	1	50
5		1	5	2	55	2	51	3	50
40		8	5	2	4480	140	92	5	50
5		1	5	2	56	2	49	3	50
5		1	5	2	79	2	18	1	50
10		2	5	2	80	3	38	2	50
50		10	5	2	157	5	29	1	50
5		1	5	2	76	2	24	1	100
50		10	5	2	436	14	18	1	50
5		1	5	2	122	4	10	1	50
5		1	5	2	80	3	12	1	50
5		1	10	4	26	1	134	7	50
130		26	5	2	366	11	99	5	200
5		1	5	2	66	2	59	3	50
130		26	10	4	1020	32	62	3	100
30		6	5	2	365	11	63	3	100
5		1	20	7	44	1	31	2	50
5		1	20	7	25	1	24	1	50
60		12	5	2	397	12	15	1	200
40		8	5	2	571	18	85	4	700
60		12	5	2	919	29	57	3	200
190		38	5	2	232	7	65	3	400

200	40	5	2	330	10	33	2	50
60	12	5	2	427	13	61	3	100
70	14	5	2	295	9	192	10	100
10	2	5	2	128	4	47	2	50
5	1	5	2	57	2	54	3	50
5	1	5	2	53	2	44	2	50
5	1	10	4	35	1	94	5	50
10	2	5	2	290	9	132	7	200
5	1	5	2	63	2	28	1	50
10	2	5	2	68	2	57	3	50
5	1	5	2	26	1	99	5	50
90	18	5	2	1360	43	80	4	100
5	1	10	4	113	4	67	3	50
10	2	10	4	133	4	111	6	50
5	1	5	2	20	1	39	2	50
5	1	10	4	57	2	44	2	50
5	1	5	2	33	1	38	2	50
5	1	5	2	40	1	42	2	50
5	1	10	4	45	1	51	3	50
5	1	5	2	44	1	17	1	50
20	4	5	2	19	1	221	11	50
20	4	10	4	146	5	48	2	200
70	14	10	4	1470	46	211	11	200
10	2	5	2	387	12	28	1	50
30	6	10	4	72	2	100	5	100
5	1	10	4	122	4	57	3	50
5	1	5	2	38	1	198	10	50
10	2	5	2	177	6	77	4	50
30	6	20	7	95	3	59	3	100
5	1	5	2	128	4	113	6	100
5	1	5	2	59	2	49	3	50
10	2	20	7	98	3	128	7	100
40	8	5	2	215	7	144	7	200
5	1	5	2	30	1	62	3	50
10	2	5	2	372	12	34	2	50
60	12	5	2	80	3	40	2	50
5	1	5	2	146	5	51	3	50
5	1	5	2	48	2	50	3	50
80	16	10	4	42	1	155	8	50
5	1	5	2	20	1	27	1	50
5	1	5	2	31	1	31	2	50
5	1	5	2	97	3	29	1	50
5	1	30	11	243	8	178	9	100
20	4	10	4	207	6	120	6	50
5	1	5	2	149	5	66	3	50
5	1	10	4	176	6	149	8	50
40	8	5	2	713	22	50	3	300
20	4	5	2	254	8	26	1	50
20	4	20	7	85	3	95	5	50
50	10	20	7	131	4	82	4	50
5	1	5	2	452	14	42	2	50
20	4	5	2	1800	56	56	3	200
5	1	5	2	269	8	61	3	50
5	1	5	2	62	2	40	2	50
5	1	5	2	208	7	46	2	50
40	8	5	2	783	25	58	3	100

20	4	20	7	249	8	45	2	50
390	78	10	4	144	5	76	4	50
40	8	5	2	692	22	49	3	400
20	4	5	2	348	11	190	10	200
130	26	5	2	632	20	44	2	100
110	22	5	2	262	8	156	8	100
370	74	5	2	646	20	12	1	50
20	4	5	2	138	4	22	1	200
10	2	5	2	555	17	44	2	200
20	4	5	2	40	1	45	2	50
330	66	5	2	307	10	35	2	50
300	60	20	7	1150	36	281	14	100
160	32	5	2	744	23	59	3	50
100	20	5	2	412	13	19	1	50
40	8	5	2	82	3	277	14	100
230	46	5	2	150	5	20	1	50
50	10	5	2	144	5	77	4	200
10	2	5	2	262	8	49	3	100
5	1	5	2	198	6	73	4	50
5	1	5	2	101	3	67	3	50
20	4	5	2	127	4	76	4	50
10	2	5	2	1390	44	30	2	50
5	1	5	2	33	1	65	3	50
60	12	5	2	194	6	18	1	50
60	12	5	2	180	6	198	10	400
70	14	5	2	221	7	22	1	50
60	12	5	2	429	13	469	24	200
5	1	5	2	157	5	65	3	50
60	12	10	4	371	12	262	13	100
10	2	5	2	37	1	27	1	50
30	6	5	2	357	11	46	2	50
50	10	5	2	215	7	151	8	200
330	66	5	2	878	28	33	2	50
30	6	5	2	143	4	83	4	300
10	2	5	2	109	3	33	2	50
5	1	5	2	75	2	25	1	50
200	40	5	2	398	12	110	6	200
50	10	5	2	157	5	73	4	50
180	36	5	2	172	5	80	4	200
30	6	5	2	47	1	88	4	50
10	2	20	7	110	3	83	4	100
40	8	5	2	895	28	19	1	50
100	20	5	2	903	28	90	5	300
20	4	40	15	132	4	237	12	200
10	2	5	2	44	1	148	8	50
90	18	30	11	245	8	272	14	600
20	4	5	2	288	9	13	1	50
20	4	5	2	151	5	51	3	300
5	1	5	2	44	1	27	1	50
5	1	5	2	77	2	61	3	50
5	1	5	2	30	1	22	1	50
5	1	5	2	25	1	34	2	50
5	1	10	4	36	1	53	3	50
5	1	5	2	42	1	48	2	50
10	2	10	4	117	4	24	1	50
10	2	5	2	217	7	46	2	50

5	1	5	2	27	1	76	4	50
20	4	5	2	58	2	15	1	50
5	1	5	2	97	3	78	4	200
5	1	5	2	114	4	70	4	50
5	1	5	2	30	1	60	3	50
5	1	5	2	38	1	13	1	50
20	4	20	7	70	2	66	3	100
5	1	5	2	62	2	17	1	50
5	1	5	2	252	8	19	1	50
20	4	5	2	1090	34	65	3	50
5	1	5	2	93	3	24	1	50
80	16	5	2	260	8	23	1	50
20	4	5	2	85	3	76	4	50
5	1	5	2	13	1	13	1	50
50	10	5	2	232	7	44	2	200
80	16	5	2	470	15	75	4	50
30	6	5	2	127	4	86	4	100
10	2	10	4	185	6	117	6	50
5	1	5	2	200	6	45	2	50
5	1	5	2	163	5	55	3	50
5	1	5	2	329	10	113	6	100
5	1	5	2	62	2	106	5	50
20	4	5	2	502	16	73	4	200
20	4	5	2	364	11	31	2	50
5	1	5	2	317	10	40	2	50
5	1	5	2	122	4	65	3	50
5	1	5	2	152	5	57	3	50
5	1	5	2	17	1	81	4	50
5	1	5	2	231	7	75	4	100
5	1	5	2	159	5	16	1	50
10	2	5	2	102	3	96	5	50
5	1	5	2	127	4	134	7	50
10	2	10	4	58	2	380	19	50
5	1	5	2	99	3	63	3	50
70	14	20	7	261	8	85	4	50
30	6	5	2	221	7	74	4	50
110	22	5	2	1090	34	17	1	50
5	1	5	2	104	3	123	6	100
230	46	10	4	305	10	61	3	100
5	1	5	2	146	5	37	2	50
30	6	10	4	22	1	63	3	50
30	6	5	2	56	2	73	4	50
10	2	5	2	80	3	57	3	50
5	1	5	2	77	2	27	1	50
200	40	5	2	678	21	62	3	50
30	6	5	2	62	2	72	4	50
10	2	5	2	402	13	40	2	50
170	34	5	2	181	6	57	3	50
10	2	5	2	335	11	84	4	100
20	4	5	2	876	27	64	3	200
5	1	10	4	150	5	76	4	50
5	1	20	7	185	6	139	7	100
5	1	5	2	100	3	36	2	50
10	2	5	2	310	10	73	4	200
5	1	5	2	154	5	22	1	50
5	1	5	2	99	3	44	2	50

10	2	5	2	61	2	33	2	50
100	20	5	2	682	21	21	1	50
10	2	5	2	65	2	126	6	50
380	76	20	7	123	4	64	3	100
20	4	5	2	188	6	76	4	100
10	2	10	4	109	3	159	8	50
5	1	5	2	582	18	94	5	300
60	12	20	7	89	3	45	2	50
10	2	6	2	193	6	25	1	50
210	42	3	1	2940	92	11	1	50
20	4	14	5	73	2	128	7	50
140	28	19	7	1460	46	13	1	50
20	4	5	2	466	15	39	2	100
200	40	11	4	1250	39	40	2	50
30	6	3	1	1070	34	109	6	400
5	1	3	1	1570	49	97	5	300
860	172	5	2	182	6	9	1	50
60	12	1	1	801	25	78	4	100
10	2	4	1	158	5	38	2	100
5	1	2	1	93	3	58	3	100
80	16	11	4	205	6	52	3	50
20	4	10	4	54	2	92	5	50
5	1	4	1	300	9	20	1	50
60	12	4	1	359	11	151	8	200
10	2	4	1	171	5	15	1	50
20	4	2	1	236	7	30	2	100
5	1	5	2	73	2	35	2	50
30	6	0.5	1	725	23	30	2	200
30	6	3	1	695	22	80	4	200
20	4	7	3	308	10	34	2	50
90	18	7	3	1510	47	170	9	300
5	1	17	6	294	9	507	26	100
220	44	2	1	686	22	33	2	50
40	8	3	1	168	5	36	2	50
290	58	5	2	632	20	16	1	50
120	24	2	1	154	5	22	1	100
680	136	10	4	7	1	8	1	50
40	8	4	1	40	1	127	6	50
20	4	10	4	136	4	320	16	50
50	10	3	1	781	24	104	5	400
70	14	3	1	667	21	135	7	200
50	10	6	2	98	3	669	34	300
5	1	7	3	95	3	59	3	50
230	46	4	1	2100	66	50	3	50
200	40	2	1	545	17	50	3	50
90	18	1	1	2490	78	58	3	100
20	4	10	4	102	3	55	3	50
5	1	6	2	130	4	76	4	50
5	1	12	4	164	5	77	4	50
20	4	12	4	259	8	87	4	50
30	6	6	2	555	17	83	4	100
5	1	9	3	170	5	48	2	50
5	1	6	2	187	6	122	6	50
5	1	6	2	122	4	31	2	50
5	1	2	1	31	1	44	2	50
5	1	6	2	204	6	46	2	50

10	2	5	2	14	1	42	2	50
5	1	5	2	41	1	42	2	50
5	1	5	2	86	3	62	3	50
5	1	5	2	67	2	65	3	50
5	1	5	2	179	6	56	3	50
5	1	5	2	180	6	56	3	50
20	4	5	2	443	14	85	4	200
5	1	5	2	133	4	69	4	50
5	1	10	4	41	1	65	3	50
5	1	10	4	38	1	56	3	50
20	4	20	7	42	1	46	2	100
5	1	5	2	53	2	17	1	300
130	26	5	2	77	2	102	5	50
20	4	10	4	89	3	100	5	100
100	20	5	2	80	3	655	33	100
130	26	5	2	408	13	37	2	200
5	1	5	2	504	16	136	7	200
160	32	20	7	167	5	388	20	100
270	54	20	7	660	21	109	6	50
170	34	10	4	1370	43	124	6	100
210	42	10	4	270	8	101	5	50
250	50	5	2	200	6	69	4	50
70	14	10	4	141	4	237	12	200
60	12	90	33	50	2	149	8	50
120	24	10	4	519	16	92	5	50
80	16	10	4	246	8	130	7	100
5	1	10	4	118	4	119	6	50
50	10	5	2	277	9	666	34	200
5	1	5	2	113	4	81	4	200
20	4	10	4	28	1	45	2	50
70	14	50	18	73	2	68	3	100
5	1	30	11	97	3	190	10	50
10	2	30	11	166	5	241	12	50
30	6	30	11	213	7	308	16	200
10	2	5	2	33	1	35	2	50
230	46	10	4	343	11	85	4	50
40	8	5	2	179	6	25	1	200
10	2	10	4	65	2	68	3	50
5	1	20	7	76	2	45	2	200
10	2	50	18	50	2	16	1	50
5	1	20	7	39	1	52	3	50
5	1	30	11	74	2	23	1	50
5	1	20	7	113	4	36	2	50
40	8	30	11	74	2	211	11	300
20	4	20	7	150	5	101	5	300
5	1	5	2	150	5	83	4	100
5	1	5	2	69	2	109	6	50
5	1	5	2	30	1	8	1	50
5	1	5	2	21	1	6	1	50
5	1	5	2	146	5	11	1	400
5	1	5	2	2.5	1	6	1	50
5	1	5	2	106	3	63	3	200
5	1	5	2	102	3	81	4	50
5	1	5	2	36	1	90	5	50
5	1	5	2	53	2	16	1	200
5	1	5	2	15	1	17	1	50

5	1	5	2	65	2	28	1	500
20	4	5	2	34	1	59	3	50
20	4	5	2	66	2	60	3	200
40	8	40	15	63	2	50	3	200
5	1	20	7	48	2	66	3	200
40	8	20	7	62	2	31	2	200
5	1	10	4	73	2	36	2	50
5	1	20	7	69	2	63	3	50
20	4	20	7	81	3	129	7	50
10	2	5	2	55	2	34	2	50
40	8	5	2	48	2	57	3	50
5	1	5	2	73	2	42	2	50
5	1	5	2	42	1	37	2	50
5	1	5	2	25	1	38	2	50
5	1	5	2	43	1	78	4	50
10	2	20	7	83	3	65	3	50
10	2	20	7	42	1	143	7	50
40	8	20	7	116	4	42	2	50
5	1	5	2	28	1	40	2	50
5	1	5	2	60	2	29	1	50
5	1	5	2	22	1	18	1	50
20	4	5	2	80	3	96	5	50
140	28	5	2	188	6	164	8	50
20	4	5	2	68	2	43	2	50
20	4	5	2	28	1	100	5	50
5	1	5	2	35	1	41	2	50
5	1	5	2	158	5	161	8	50
5	1	5	2	168	5	41	2	50
5	1	5	2	302	9	67	3	200
5	1	5	2	61	2	30	2	50
5	1	5	2	345	11	34	2	100
5	1	5	2	13	1	105	5	50
5	1	5	2	71	2	48	2	50
30	6	20	7	8	1	117	6	50
5	1	10	4	32	1	68	3	50
5	1	5	2	62	2	35	2	50
20	4	10	4	79	2	79	4	50
5	1	5	2	87	3	109	6	50
20	4	5	2	52	2	105	5	50
20	4	5	2	51	2	100	5	50
5	1	5	2	24	1	39	2	50
10	2	5	2	26	1	116	6	50
5	1	10	4	54	2	57	3	50
10	2	5	2	104	3	77	4	50
5	1	5	2	18	1	86	4	50
5	1	5	2	35	1	44	2	50
20	4	5	2	112	4	75	4	50
30	6	10	4	107	3	63	3	50
5	1	20	7	13	1	37	2	50
5	1	5	2	7	1	20	1	50
5	1	5	2	50	2	98	5	50
5	1	5	2	42	1	39	2	50
10	2	5	2	58	2	71	4	50
5	1	5	2	228	7	35	2	50
5	1	5	2	35	1	68	3	50
50	10	10	4	494	15	75	4	200

20	4	5	2	214	7	81	4	100
5	1	5	2	162	5	75	4	50
5	1	5	2	75	2	134	7	50
5	1	5	2	75	2	35	2	50
5	1	5	2	55	2	18	1	50
5	1	5	2	45	1	61	3	50
5	1	5	2	31	1	17	1	50
5	1	5	2	22	1	48	2	50
5	1	10	4	20	1	14	1	50
5	1	5	2	141	4	37	2	300
5	1	5	2	17	1	52	3	50
5	1	5	2	96	3	28	1	50
5	1	5	2	68	2	49	3	50
5	1	5	2	43	1	53	3	50
5	1	5	2	52	2	21	1	50
5	1	5	2	64	2	52	3	200
5	1	5	2	114	4	17	1	50
5	1	5	2	85	3	44	2	50
5	1	5	2	25	1	24	1	50
5	1	5	2	85	3	34	2	50
5	1	10	4	93	3	59	3	50
5	1	5	2	49	2	27	1	50
5	1	10	4	140	4	10	1	50
5	1	30	11	42	1	17	1	50
5	1	5	2	9	1	6	1	50
5	1	5	2	104	3	49	3	50
5	1	5	2	104	3	147	8	50
5	1	5	2	95	3	22	1	50
50	10	5	2	102	3	84	4	50
5	1	5	2	27	1	38	2	50
5	1	10	4	2.5	1	26	1	50
5	1	5	2	14	1	9	1	50
5	1	5	2	38	1	16	1	50
5	1	5	2	69	2	82	4	50
5	1	5	2	113	4	81	4	50
5	1	5	2	21	1	53	3	50
5	1	5	2	41	1	2.5	1	50
5	1	5	2	31	1	8	1	50
5	1	5	2	8	1	17	1	50
5	1	5	2	21	1	33	2	50
20	4	10	4	138	4	60	3	50
5	1	20	7	292	9	84	4	50
5	1	5	2	217	7	69	4	100
5	1	5	2	101	3	14	1	50
10	2	5	2	76	2	25	1	200
5	1	5	2	28	1	43	2	50
5	1	5	2	55	2	18	1	50
5	1	5	2	121	4	7	1	50
5	1	5	2	46	1	2.5	1	50
5	1	5	2	33	1	2.5	1	50
5	1	30	11	42	1	111	6	50
20	4	5	2	119	4	155	8	50
120	24	5	2	507	16	29	1	50
20	4	5	2	146	5	30	2	50
5	1	5	2	179	6	37	2	50
5	1	5	2	48	2	45	2	50

5	1	5	2	37	1	26	1	50
10	2	5	2	668	21	8	1	50
20	4	5	2	70	2	35	2	50
5	1	5	2	39	1	10	1	50
5	1	10	4	76	2	29	1	200
5	1	5	2	65	2	32	2	50
90	18	5	2	127	4	99	5	50
5	1	5	2	165	5	11	1	50
5	1	20	7	34	1	15	1	50
60	12	5	2	102	3	23	1	50
140	28	5	2	174	5	27	1	50
200	40	20	7	125	4	58	3	50
5	1	5	2	32	1	35	2	50
5	1	10	4	13	1	11	1	50
5	1	5	2	2.5	1	14	1	50
5	1	5	2	69	2	44	2	50
30	6	30	11	61	2	53	3	200
5	1	5	2	97	3	53	3	50
5	1	5	2	12	1	117	6	50
5	1	5	2	137	4	41	2	50
5	1	5	2	101	3	104	5	50
80	16	5	2	561	18	20	1	50
110	22	5	2	623	20	52	3	50
40	8	5	2	34	1	46	2	50
5		5		53		33		50
5		2.704545		31.83043		19.44397		50

CrRR	Cu MMI-M5 10 PPB	CuRR	Dy MMI-M5 1 PPB	DyRR	Er MMI-M5 0.5 PPB	ErRR	Eu MMI-M5 0.5 PPB	EuRR	
	1	6980	56	118	25	39.8	13	70	52
	2	560	4	26	6	15.2	5	7.9	6
	2	540	4	25	5	10.8	4	11.5	8
	4	310	2	7	2	4.3	1	2	1
	2	290	2	16	3	9.8	3	3.8	3
	1	400	3	29	6	16.3	5	10.3	8
	1	550	4	24	5	14	5	6.1	4
	1	100	1	9	2	6	2	2.2	2
	1	120	1	20	4	9.9	3	7.3	5
	1	260	2	10	2	6.1	2	2.1	2
	4	300	2	9	2	4.8	2	2.4	2
	6	740	6	42	9	20.3	7	18	13
	1	250	2	8	2	4.7	2	2.3	2
	2	400	3	8	2	4.4	1	2.7	2
	1	180	1	6	1	3.8	1	2.2	2
	1	280	2	14	3	7.2	2	4.7	3
	1	160	1	16	3	7.7	3	3.7	3
	1	130	1	8	2	5.5	2	1.3	1
	1	120	1	11	2	7.4	2	2.2	2
	1	190	2	11	2	6.7	2	2.4	2
	1	130	1	19	4	8.4	3	4.6	3
	1	240	2	12	3	6.1	2	3.9	3
	2	340	3	15	3	6.5	2	6.3	5
	1	290	2	16	3	8.8	3	3.9	3
	1	470	4	24	5	13	4	5.8	4
	1	1220	10	95	20	45.1	15	44.7	33
	1	300	2	7	2	4.8	2	1.5	1
	1	130	1	13	3	7	2	3.8	3
	1	270	2	47	10	22.4	7	23.6	17
	1	160	1	5	1	3.2	1	0.8	1
	1	220	2	36	8	16.4	5	15.9	12
	1	140	1	7	2	4.5	1	1.8	1
	1	370	3	255	55	132	44	96.2	71
	1	130	1	9	2	6	2	2.3	2
	1	120	1	14	3	7.3	2	4.3	3
	1	130	1	12	3	6.4	2	3.4	3
	1	150	1	16	3	7.2	2	7	5
	2	250	2	6	1	3.1	1	2.1	2
	1	240	2	36	8	15.9	5	15.9	12
	1	110	1	8	2	3.8	1	2.9	2
	1	160	1	7	2	3.2	1	2.2	2
	1	640	5	8	2	7.8	3	1	1
	4	390	3	19	4	8.7	3	8.4	6
	1	340	3	11	2	7.9	3	2.1	2
	2	1770	14	57	12	27.7	9	22.4	17
	2	400	3	25	5	12.9	4	9.8	7
	1	900	7	15	3	10.1	3	2.1	2
	1	220	2	8	2	6.8	2	1.1	1
	4	280	2	27	6	11.6	4	11.4	8
	14	420	3	23	5	9.9	3	10.4	8
	4	820	7	66	14	28.5	9	33.9	25
	8	560	4	16	3	7.6	3	7.3	5

1	570	5	25	5	11.9	4	12	9
2	310	2	29	6	12.4	4	13.2	10
2	1930	15	24	5	13	4	7.7	6
1	180	1	16	3	7.1	2	6.3	5
1	130	1	12	3	8.4	3	2.5	2
1	160	1	7	2	4.4	1	2.3	2
1	160	1	8	2	5.5	2	1.6	1
4	340	3	28	6	13	4	10	7
1	190	2	11	2	5.9	2	2.5	2
1	190	2	13	3	6.5	2	3.4	3
1	130	1	7	2	5.2	2	1.4	1
2	1370	11	89	19	42.5	14	49.2	36
1	220	2	11	2	6.6	2	3.5	3
1	270	2	13	3	6.8	2	4	3
1	120	1	7	2	6.3	2	1.1	1
1	120	1	10	2	6.6	2	1.9	1
1	50	1	11	2	7.2	2	1.9	1
1	80	1	11	2	6.9	2	2.2	2
1	80	1	10	2	6.9	2	2.1	2
1	40	1	9	2	6	2	2.2	2
1	320	3	1	1	1	1	0.25	1
4	670	5	13	3	6.1	2	5	4
4	390	3	56	12	27.4	9	28.3	21
1	200	2	31	7	15.3	5	12.8	9
2	270	2	13	3	8.6	3	3.1	2
1	320	3	18	4	9.6	3	4.5	3
1	150	1	11	2	9.5	3	1.7	1
1	240	2	19	4	10.7	4	5.1	4
2	300	2	14	3	7.4	2	4	3
2	220	2	17	4	14.5	5	3.1	2
1	150	1	21	5	12.4	4	4.3	3
2	140	1	18	4	9.8	3	4.2	3
4	180	1	16	3	8.1	3	5.6	4
1	140	1	16	3	10.2	3	2.3	2
1	450	4	30	6	14.8	5	12.6	9
1	260	2	18	4	10.5	3	4	3
1	160	1	21	5	9.7	3	7.2	5
1	110	1	13	3	7.1	2	2.4	2
1	290	2	10	2	6.1	2	2.1	2
1	310	2	2	1	1.5	1	0.25	1
1	350	3	17	4	13.3	4	2	1
1	370	3	23	5	11.9	4	5.4	4
2	650	5	28	6	13.6	4	7.6	6
1	360	3	26	6	13.3	4	7.7	6
1	450	4	32	7	18.7	6	7.4	5
1	400	3	22	5	11.4	4	6.8	5
6	370	3	39	8	16.4	5	16.4	12
1	430	3	33	7	17.5	6	11.6	9
1	930	7	13	3	6.9	2	3.3	2
1	440	4	18	4	10.7	4	4.4	3
1	310	2	56	12	25.2	8	26.7	20
4	400	3	101	22	39.8	13	52.8	39
1	220	2	35	8	20.5	7	13.4	10
1	240	2	6	1	3.9	1	1.8	1
1	200	2	29	6	14.5	5	9.4	7
2	190	2	38	8	18.8	6	16.9	12

1	1120	9	30	6	14.8	5	9.1	7
1	8320	67	16	3	8.5	3	5.1	4
8	650	5	37	8	15	5	17.7	13
4	750	6	26	6	13.9	5	9.1	7
2	480	4	33	7	13.6	4	15.3	11
2	1240	10	22	5	10.8	4	8.3	6
1	2540	20	71	15	26.2	9	40	29
4	270	2	8	2	4.3	1	2.8	2
4	520	4	52	11	22.5	7	23.3	17
1	140	1	7	2	4.5	1	2	1
1	110	1	13	3	6.1	2	6.8	5
2	4780	38	36	8	15.9	5	20.6	15
1	450	4	47	10	20.2	7	19.7	15
1	320	3	26	6	11.1	4	11.3	8
2	1140	9	11	2	6.1	2	2.9	2
1	1460	12	27	6	11.4	4	11.8	9
4	250	2	13	3	7.1	2	4.7	3
2	350	3	21	5	9.8	3	9.1	7
1	750	6	14	3	8.4	3	4.4	3
1	120	1	15	3	8.6	3	4	3
1	350	3	15	3	8	3	4.2	3
1	580	5	55	12	22.8	8	31.7	23
1	110	1	5	1	3.7	1	1.4	1
1	180	1	38	8	16.3	5	16.6	12
8	650	5	7	2	4.1	1	2.1	2
1	160	1	19	4	9.1	3	10.3	8
4	440	4	28	6	13.3	4	10.7	8
1	220	2	19	4	9.1	3	6.1	4
2	560	4	39	8	21.5	7	10.7	8
1	420	3	5	1	3.1	1	1.5	1
1	300	2	22	5	9.7	3	9.6	7
4	550	4	14	3	6.2	2	6.5	5
1	1280	10	90	19	36	12	48.6	36
6	900	7	9	2	4.3	1	2.9	2
1	1380	11	11	2	7.2	2	3.3	2
1	1610	13	7	2	4.3	1	2.3	2
4	390	3	14	3	6.3	2	6.4	5
1	630	5	22	5	9.6	3	7.3	5
4	440	4	13	3	5.9	2	5.7	4
1	130	1	10	2	6.6	2	2.5	2
2	90	1	17	4	11.2	4	4.2	3
1	880	7	89	19	36.8	12	42.9	32
6	1350	11	59	13	24.1	8	27.1	20
4	650	5	17	4	11.3	4	3.9	3
1	90	1	12	3	8.4	3	2.1	2
12	830	7	28	6	14.8	5	9.5	7
1	370	3	34	7	18.1	6	10.8	8
6	310	2	21	5	12	4	5.2	4
1	100	1	11	2	6.2	2	2.2	2
1	160	1	17	4	9.9	3	4.2	3
1	760	6	10	2	8.4	3	1.3	1
1	80	1	3	1	2.3	1	0.7	1
1	200	2	7	2	6.2	2	1.2	1
1	60	1	8	2	6	2	1.8	1
1	70	1	14	3	6.7	2	4.5	3
1	250	2	21	5	9.6	3	8.8	6

1	140	1	5	1	3.7	1	1	1
1	70	1	10	2	6	2	3	2
4	460	4	15	3	8.4	3	4	3
1	600	5	17	4	9.7	3	5.3	4
1	170	1	8	2	6.4	2	1.7	1
1	190	2	4	1	2.4	1	1.3	1
2	660	5	5	1	3.1	1	1.6	1
1	300	2	7	2	3.3	1	2.1	2
1	170	1	44	9	18	6	14.8	11
1	680	5	83	18	32.7	11	33.3	25
1	170	1	16	3	8.2	3	5	4
1	490	4	18	4	7.3	2	8.8	6
1	210	2	10	2	5.9	2	3.4	3
1	2950	24	4	1	3.3	1	0.8	1
4	1030	8	20	4	8.7	3	6.4	5
1	1910	15	52	11	21.9	7	21.4	16
2	560	4	7	2	4.2	1	2	1
1	220	2	17	4	8.2	3	4.9	4
1	250	2	19	4	8.9	3	7.6	6
1	120	1	28	6	14.5	5	6.8	5
2	900	7	31	7	13.6	4	13	10
1	100	1	15	3	8	3	3.6	3
4	410	3	31	7	12.8	4	14.1	10
1	1180	9	82	18	40.8	13	27.9	21
1	450	4	36	8	15.8	5	14	10
1	360	3	20	4	10.7	4	5.7	4
1	240	2	16	3	9	3	5.5	4
1	70	1	4	1	4.2	1	0.7	1
2	250	2	17	4	11.1	4	5.2	4
1	80	1	18	4	9.7	3	8.2	6
1	250	2	9	2	6.5	2	2.7	2
1	100	1	16	3	8.8	3	4.9	4
1	210	2	13	3	8.8	3	2.6	2
1	110	1	20	4	11.2	4	5.1	4
1	270	2	24	5	11.9	4	7	5
1	390	3	23	5	9.9	3	8.1	6
1	510	4	34	7	12.8	4	19.5	14
2	420	3	7	2	3.9	1	2.1	2
2	250	2	13	3	5.8	2	6	4
1	150	1	21	5	12.1	4	6.4	5
1	190	2	4	1	2.5	1	0.7	1
1	60	1	10	2	5	2	3.2	2
1	180	1	12	3	6	2	3.4	3
1	140	1	15	3	7.7	3	3.6	3
1	180	1	24	5	10.4	3	13.3	10
1	90	1	11	2	5.6	2	3.2	2
1	1420	11	63	14	29.6	10	22.9	17
1	400	3	31	7	14.5	5	16.5	12
2	330	3	24	5	13	4	8.4	6
4	530	4	48	10	19.7	7	24.1	18
1	170	1	8	2	3.7	1	3.8	3
2	230	2	22	5	11.8	4	6.8	5
1	450	4	14	3	8.9	3	3.1	2
4	250	2	22	5	10.5	3	8.1	6
1	170	1	21	5	10.8	4	6.5	5
1	150	1	19	4	10.6	4	5.1	4

1	220	2	4	1	2.1	1	1.4	1
1	360	3	63	14	29.2	10	28.3	21
1	240	2	7	2	4	1	2	1
2	150	1	6	1	3.2	1	2.4	2
2	400	3	13	3	7.2	2	5	4
1	210	2	21	5	14.3	5	4.1	3
6	980	8	29	6	11.6	4	14.2	10
1	140	1	13	3	6.5	2	3.7	3
1	200	2	16	3	10.2	3	6.1	4
1	2150	17	164	35	66	22	91	67
1	190	2	14	3	7.6	3	3.4	3
1	1710	14	152	33	71.2	24	46.7	34
2	220	2	24	5	9.7	3	11.1	8
1	790	6	58	12	24	8	26.2	19
8	780	6	35	8	14.1	5	21.5	16
6	840	7	46	10	19	6	29.9	22
1	490	4	8	2	3.9	1	4.7	3
2	1410	11	39	8	16.8	6	19.9	15
2	280	2	12	3	6.2	2	4.2	3
2	850	7	6	1	3.2	1	1.9	1
1	320	3	13	3	5.8	2	6	4
1	580	5	7	2	4.5	1	1.6	1
1	150	1	19	4	8.9	3	9.7	7
4	440	4	22	5	9.9	3	9.8	7
1	100	1	14	3	6.2	2	6.1	4
2	480	4	16	3	8.4	3	5.7	4
1	110	1	14	3	6.8	2	3.5	3
4	790	6	37	8	16.6	5	18.1	13
4	310	2	32	7	13.5	4	18.1	13
1	220	2	52	11	23.9	8	22.5	17
6	850	7	47	10	19.3	6	28.2	21
2	2520	20	13	3	5.9	2	4.7	3
1	1660	13	28	6	12.9	4	14.6	11
1	400	3	12	3	5.8	2	5.7	4
1	4330	35	20	4	9.9	3	11.8	9
2	370	3	9	2	4.2	1	4.2	3
1	2860	23	2	1	1.1	1	0.25	1
1	650	5	5	1	2.7	1	1.1	1
1	430	3	17	4	9.3	3	4.6	3
8	780	6	27	6	11.5	4	13.9	10
4	580	5	43	9	20.6	7	17	13
6	760	6	9	2	5	2	2.4	2
1	380	3	16	3	10.3	3	4.5	3
1	1450	12	87	19	38.2	13	40.5	30
1	680	5	30	6	12.9	4	17.1	13
2	530	4	72	15	29.8	10	39.1	29
1	110	1	15	3	8	3	5	4
1	220	2	10	2	5.4	2	3.3	2
1	160	1	15	3	8.4	3	4.7	3
1	300	2	20	4	7.9	3	6.9	5
2	240	2	24	5	10	3	10.9	8
1	430	3	20	4	10.5	3	6.4	5
1	340	3	14	3	7	2	5.4	4
1	90	1	16	3	8.9	3	4	3
1	130	1	6	1	3.9	1	1.5	1
1	150	1	14	3	7.5	2	5.1	4

1	200	2	2	1	1.7	1	0.6	1
1	250	2	10	2	6.2	2	2	1
1	820	7	15	3	9.8	3	3.8	3
1	220	2	15	3	8.6	3	3.9	3
1	300	2	22	5	12.4	4	6.1	4
1	520	4	32	7	17.6	6	9.7	7
4	620	5	30	6	16.2	5	11.7	9
1	150	1	14	3	6.4	2	4.7	3
1	130	1	8	2	4.8	2	2	1
1	130	1	9	2	6.4	2	2	1
2	250	2	3	1	2.2	1	1.2	1
6	440	4	5	1	2.5	1	1.7	1
1	1110	9	9	2	4.8	2	3	2
2	230	2	12	3	6.7	2	3.2	2
2	1050	8	7	2	3.8	1	2.2	2
4	710	6	18	4	8.3	3	8.4	6
4	2070	17	43	9	24	8	12.3	9
2	790	6	22	5	13.3	4	7.1	5
1	4990	40	76	16	41.7	14	24.3	18
2	1330	11	54	12	26.1	9	22	16
1	4310	34	19	4	8.9	3	7.5	6
1	4270	34	19	4	8.9	3	9	7
4	730	6	10	2	5	2	3.1	2
1	770	6	18	4	11.4	4	3.2	2
1	16600	133	100	22	67.7	22	21.2	16
2	3700	30	30	6	17.6	6	7.8	6
1	480	4	13	3	6.8	2	3.7	3
4	1010	8	16	3	8.4	3	5.8	4
4	330	3	9	2	4.4	1	3.1	2
1	300	2	5	1	3.2	1	1.3	1
2	240	2	7	2	3.4	1	2.2	2
1	220	2	12	3	7.9	3	3.6	3
1	330	3	18	4	8.2	3	5.5	4
4	400	3	10	2	4.8	2	4.4	3
1	280	2	2	1	1.7	1	0.9	1
1	7060	56	25	5	12.7	4	10.2	8
4	240	2	11	2	4.8	2	5.2	4
1	160	1	12	3	6.7	2	3.6	3
4	320	3	7	2	4.2	1	2.4	2
1	220	2	9	2	5.2	2	2.4	2
1	290	2	9	2	6.2	2	2.2	2
1	430	3	20	4	11.4	4	4.6	3
1	430	3	16	3	8.5	3	5.3	4
6	210	2	10	2	6.2	2	3	2
6	260	2	11	2	6.2	2	2.7	2
2	260	2	14	3	6.3	2	5.3	4
1	290	2	13	3	7.4	2	3.6	3
1	670	5	2	1	1.4	1	0.9	1
1	280	2	2	1	1	1	0.8	1
8	320	3	13	3	5.5	2	4.9	4
1	170	1	0.5	1	0.5	1	0.25	1
4	410	3	10	2	6.1	2	3.3	2
1	270	2	11	2	7.1	2	3.2	2
1	200	2	9	2	6.1	2	2	1
4	220	2	5	1	3	1	1.7	1
1	130	1	1	1	0.9	1	0.5	1

10	270	2	4	1	2.7	1	1.6	1
1	210	2	5	1	3.1	1	1.3	1
4	250	2	5	1	2.5	1	2.2	2
4	280	2	7	2	3.8	1	2.6	2
4	230	2	6	1	3.8	1	2	1
4	190	2	8	2	3.7	1	2.8	2
1	220	2	11	2	6.1	2	2.9	2
1	270	2	12	3	7.1	2	3.5	3
1	290	2	13	3	8.5	3	4.6	3
1	370	3	17	4	10.3	3	5.1	4
1	160	1	11	2	7	2	2.6	2
1	190	2	12	3	7.2	2	3.8	3
1	150	1	10	2	7	2	2.4	2
1	140	1	5	1	3.6	1	1.4	1
1	90	1	8	2	5.5	2	2.2	2
1	200	2	11	2	5.6	2	3.4	3
1	360	3	8	2	5	2	2	1
1	200	2	9	2	4.2	1	3.5	3
1	170	1	12	3	8	3	2.5	2
1	360	3	19	4	9.9	3	4.6	3
1	4650	37	12	3	7.9	3	2.7	2
1	1690	14	15	3	8.7	3	3.7	3
1	290	2	12	3	8	3	4.2	3
1	110	1	17	4	8.1	3	4.4	3
1	130	1	10	2	5.6	2	2	1
1	430	3	6	1	4.1	1	1.3	1
1	350	3	20	4	11.4	4	5.9	4
1	240	2	12	3	6.2	2	4	3
4	450	4	16	3	7.2	2	5.9	4
1	160	1	9	2	5.4	2	2.6	2
2	300	2	29	6	14.2	5	13	10
1	730	6	2	1	1.8	1	0.6	1
1	430	3	12	3	7.7	3	3.1	2
1	320	3	4	1	3.5	1	0.7	1
1	760	6	8	2	5.6	2	1.8	1
1	760	6	15	3	9.5	3	3.8	3
1	150	1	9	2	4.7	2	3.5	3
1	110	1	14	3	7.8	3	4.3	3
1	100	1	8	2	4.7	2	2.6	2
1	190	2	11	2	6.5	2	3	2
1	200	2	7	2	4.3	1	1.7	1
1	510	4	11	2	7.4	2	2.3	2
1	300	2	9	2	5.6	2	2.5	2
1	190	2	26	6	13.5	4	6.9	5
1	80	1	6	1	4	1	1.4	1
1	80	1	10	2	5.3	2	2.4	2
1	130	1	17	4	7.3	2	4.7	3
1	350	3	27	6	13.1	4	8.5	6
1	220	2	10	2	6.8	2	1.5	1
1	310	2	1	1	0.9	1	0.25	1
1	1440	12	12	3	6.6	2	2.5	2
1	1550	12	5	1	2.5	1	1.9	1
1	250	2	9	2	4.9	2	2.8	2
1	490	4	12	3	5.7	2	5.3	4
1	590	5	4	1	2.8	1	1.2	1
4	1150	9	26	6	12.3	4	10.3	8

2	450	4	17	4	11.3	4	5.4	4
1	620	5	12	3	6.5	2	4.2	3
1	310	2	13	3	7.6	3	2.8	2
1	240	2	19	4	11.3	4	4.2	3
1	140	1	10	2	6	2	2.4	2
1	150	1	12	3	7.7	3	2.2	2
1	2130	17	3	1	1.4	1	1.3	1
1	2980	24	3	1	1.3	1	1.1	1
1	160	1	2	1	1.5	1	0.5	1
6	350	3	15	3	6.7	2	6.1	4
1	90	1	4	1	3.7	1	0.8	1
1	60	1	11	2	5	2	3.8	3
1	130	1	13	3	7	2	3.4	3
1	110	1	7	2	4	1	1.9	1
1	130	1	13	3	6.5	2	3	2
4	90	1	7	2	4.7	2	2.5	2
1	420	3	12	3	6.3	2	3.6	3
1	190	2	14	3	7.1	2	4.8	4
1	100	1	4	1	2.6	1	1	1
1	100	1	16	3	7.4	2	4.4	3
1	600	5	13	3	6.4	2	4	3
1	900	7	5	1	2.9	1	1.6	1
1	1590	13	32	7	16.5	5	9.3	7
1	1620	13	3	1	1.6	1	1.3	1
1	780	6	0.5	1	0.25	1	0.25	1
1	650	5	4	1	2.2	1	2.2	2
1	350	3	15	3	7.7	3	3.9	3
1	140	1	19	4	10.2	3	5.4	4
1	130	1	11	2	5	2	3.9	3
1	270	2	5	1	4.1	1	1	1
1	220	2	4	1	4.3	1	0.25	1
1	660	5	1	1	0.7	1	0.25	1
1	580	5	3	1	1.9	1	1.2	1
1	260	2	17	4	10.6	4	3.1	2
1	1950	16	12	3	7.8	3	3.6	3
1	170	1	2	1	1.6	1	0.7	1
1	930	7	5	1	2.4	1	1.5	1
1	550	4	3	1	1.4	1	1.2	1
1	140	1	0.5	1	0.25	1	0.25	1
1	1580	13	5	1	3.7	1	1.2	1
1	420	3	15	3	6.2	2	5.6	4
1	530	4	37	8	17.8	6	11.7	9
2	570	5	15	3	8.5	3	4.7	3
1	240	2	13	3	4.9	2	5	4
4	250	2	7	2	3	1	2.6	2
1	1170	9	3	1	1.9	1	1.3	1
1	1180	9	5	1	2.1	1	2.1	2
1	1020	8	37	8	21	7	13.1	10
1	1670	13	5	1	2.8	1	1.7	1
1	3660	29	4	1	2.2	1	1.4	1
1	2200	18	5	1	3.9	1	1.3	1
1	1010	8	42	9	23.1	8	6.6	5
1	810	6	51	11	25.3	8	18.2	13
1	250	2	16	3	6.6	2	5.3	4
1	540	4	18	4	7.7	3	6.3	5
1	340	3	7	2	4.2	1	1.9	1

1	80	1	9	2	4.1	1	2.4	2
1	860	7	34	7	13.7	5	15.5	11
1	230	2	13	3	5.5	2	3.7	3
1	2000	16	4	1	2	1	1.4	1
4	1290	10	8	2	4.2	1	2.8	2
1	950	8	10	2	5.1	2	3.3	2
1	380	3	13	3	5.6	2	5.4	4
1	160	1	17	4	8.1	3	6.9	5
1	170	1	6	1	2.7	1	1.7	1
1	160	1	15	3	7	2	5.7	4
1	900	7	28	6	10.4	3	11.6	9
1	160	1	18	4	7.4	2	6.8	5
1	380	3	7	2	3.7	1	1.9	1
1	100	1	3	1	1.7	1	0.8	1
1	190	2	1	1	1.3	1	0.25	1
1	270	2	13	3	7.2	2	4.2	3
4	400	3	7	2	3.4	1	2.2	2
1	310	2	12	3	5.6	2	4.2	3
1	160	1	2	1	2.2	1	0.6	1
1	610	5	9	2	3.9	1	3.9	3
1	370	3	13	3	5.7	2	4.4	3
1	600	5	29	6	13.1	4	13.3	10
1	690	6	43	9	16.1	5	22.3	16
1	180	1	8	2	4.2	1	2	1
	180		8		4.875		2.2	
	125.5263		4.678571		3.045946		1.363636	

Fe MMI-M5	FeRR	Gd MMI-M5	GdRR	La MMI-M5	LaRR	Li MMI-M5	LiRR	Mg MMI-M5	
1		1		1		5		1	
PPM		PPB		PPB		PPB		PPM	
37		1	255	58	1140	79	2.5	1	25
67		3	28	6	68	5	2.5	1	0.5
55		2	41	9	171	12	2.5	1	1
149		6	8	2	54	4	2.5	1	1
45		2	15	3	39	3	2.5	1	1
66		3	37	8	96	7	2.5	1	0.5
24		1	22	5	46	3	2.5	1	0.5
62		2	7	2	20	1	2.5	1	0.5
23		1	25	6	74	5	2.5	1	0.5
58		2	8	2	24	2	2.5	1	1
104		4	9	2	35	2	5	2	2
223		9	68	15	253	18	5	2	2
57		2	8	2	32	2	2.5	1	0.5
113		5	9	2	40	3	6	2	0.5
157		6	8	2	58	4	16	6	4
61		2	18	4	103	7	7	3	2
21		1	14	3	35	2	2.5	1	0.5
79		3	5	1	19	1	2.5	1	1
57		2	8	2	16	1	2.5	1	1
77		3	9	2	21	1	2.5	1	2
23		1	17	4	41	3	2.5	1	0.5
77		3	14	3	55	4	8	3	3
70		3	22	5	110	8	2.5	1	6
62		2	15	3	58	4	2.5	1	0.5
14		1	23	5	45	3	2.5	1	0.5
53		2	181	41	807	56	2.5	1	12
168		7	6	1	27	2	2.5	1	2
41		2	13	3	38	3	2.5	1	0.5
17		1	88	20	415	29	2.5	1	0.5
128		5	3	1	15	1	2.5	1	1
10		1	53	12	192	13	2.5	1	0.5
73		3	7	2	24	2	2.5	1	1
77		3	390	88	2100	146	2.5	1	6
62		2	8	2	31	2	2.5	1	1
13		1	16	4	38	3	2.5	1	0.5
18		1	12	3	43	3	2.5	1	1
25		1	23	5	107	7	2.5	1	1
260		10	7	2	34	2	2.5	1	2
17		1	56	13	226	16	2.5	1	0.5
49		2	10	2	62	4	2.5	1	2
114		5	8	2	39	3	2.5	1	0.5
69		3	4	1	12	1	8	3	2
139		6	32	7	171	12	8	3	9
99		4	9	2	33	2	2.5	1	0.5
76		3	88	20	416	29	2.5	1	5
113		5	36	8	151	10	6	2	3
33		1	9	2	16	1	2.5	1	0.5
36		1	4	1	11	1	2.5	1	0.5
74		3	44	10	200	14	2.5	1	2
195		8	41	9	227	16	16	6	4
116		5	134	30	684	47	2.5	1	4
198		8	28	6	139	10	13	5	9

17	1	49	11	150	10	2.5	1	3
74	3	48	11	176	12	2.5	1	2
139	6	30	7	122	8	6	2	4
23	1	22	5	62	4	2.5	1	0.5
47	2	9	2	25	2	2.5	1	0.5
69	3	8	2	31	2	2.5	1	0.5
62	2	6	1	14	1	2.5	1	1
72	3	36	8	150	10	2.5	1	2
23	1	10	2	26	2	2.5	1	0.5
17	1	12	3	34	2	2.5	1	0.5
55	2	5	1	13	1	2.5	1	0.5
109	4	199	45	1090	76	2.5	1	12
85	3	12	3	54	4	6	2	2
111	4	14	3	60	4	6	2	2
30	1	4	1	10	1	2.5	1	0.5
38	2	8	2	22	2	2.5	1	0.5
28	1	7	2	12	1	2.5	1	0.5
39	2	8	2	16	1	2.5	1	0.5
38	2	8	2	21	1	2.5	1	1
38	2	8	2	21	1	2.5	1	0.5
198	8	1	1	10	1	55	22	28
132	5	18	4	89	6	27	11	8
100	4	99	22	585	41	25	10	10
81	3	43	10	120	8	2.5	1	1
73	3	10	2	31	2	8	3	9
54	2	17	4	45	3	2.5	1	3
66	3	6	1	19	1	7	3	3
80	3	19	4	80	6	2.5	1	3
139	6	14	3	59	4	10	4	7
164	7	12	3	64	4	5	2	3
40	2	16	4	30	2	2.5	1	1
60	2	15	3	48	3	6	2	2
107	4	20	5	80	6	2.5	1	4
44	2	9	2	13	1	2.5	1	3
66	3	44	10	134	9	2.5	1	1
98	4	16	4	30	2	2.5	1	9
49	2	25	6	88	6	2.5	1	2
37	1	9	2	21	1	2.5	1	2
119	5	7	2	22	2	7	3	11
196	8	2	1	10	1	8	3	5
70	3	9	2	13	1	2.5	1	0.5
28	1	19	4	35	2	2.5	1	0.5
34	1	27	6	82	6	2.5	1	2
71	3	28	6	87	6	2.5	1	2
65	3	30	7	58	4	2.5	1	1
40	2	24	5	70	5	2.5	1	1
138	6	55	12	220	15	6	2	3
72	3	42	9	105	7	2.5	1	3
68	3	12	3	35	2	2.5	1	3
85	3	16	4	47	3	9	4	7
11	1	91	21	363	25	2.5	1	0.5
100	4	185	42	1030	71	2.5	1	2
77	3	47	11	123	9	2.5	1	1
141	6	6	1	30	2	2.5	1	0.5
49	2	30	7	79	5	2.5	1	0.5
79	3	58	13	228	16	2.5	1	5

75	3	31	7	97	7	2.5	1	2
101	4	24	5	69	5	2.5	1	28
97	4	62	14	332	23	6	2	4
145	6	31	7	141	10	2.5	1	3
82	3	57	13	258	18	8	3	21
172	7	30	7	89	6	46	18	23
10	1	151	34	466	32	2.5	1	107
150	6	10	2	73	5	6	2	4
82	3	82	19	271	19	2.5	1	1
178	7	7	2	23	2	10	4	5
56	2	26	6	147	10	8	3	42
66	3	77	17	536	37	7	3	49
42	2	73	16	231	16	2.5	1	7
85	3	39	9	156	11	2.5	1	8
232	9	10	2	36	2	23	9	9
37	1	42	9	88	6	2.5	1	44
150	6	15	3	70	5	2.5	1	7
56	2	30	7	137	10	2.5	1	2
95	4	15	3	73	5	2.5	1	1
95	4	13	3	51	4	2.5	1	1
114	5	14	3	44	3	2.5	1	2
17	1	112	25	534	37	2.5	1	0.5
182	7	5	1	12	1	2.5	1	1
7	1	64	14	225	16	2.5	1	3
606	24	8	2	52	4	15	6	13
14	1	38	9	209	14	2.5	1	2
78	3	36	8	170	12	8	3	5
41	2	22	5	57	4	2.5	1	0.5
145	6	41	9	118	8	13	5	10
169	7	5	1	17	1	13	5	5
98	4	33	7	128	9	2.5	1	5
375	15	22	5	81	6	18	7	9
5	1	197	44	592	41	2.5	1	89
426	17	10	2	88	6	26	10	8
215	9	12	3	51	4	2.5	1	3
301	12	8	2	35	2	2.5	1	2
138	6	23	5	90	6	18	7	22
60	2	26	6	54	4	2.5	1	7
144	6	20	5	76	5	18	7	35
98	4	8	2	20	1	8	3	8
105	4	15	3	41	3	6	2	5
47	2	158	36	572	40	6	2	4
171	7	99	22	562	39	24	10	23
165	7	15	3	47	3	29	12	9
98	4	8	2	21	1	10	4	4
411	16	30	7	130	9	28	11	24
37	1	41	9	90	6	2.5	1	1
101	4	20	5	62	4	6	2	5
54	2	8	2	19	1	2.5	1	1
62	2	15	3	44	3	2.5	1	1
74	3	5	1	13	1	2.5	1	0.5
90	4	2	1	14	1	6	2	1
127	5	4	1	18	1	14	6	3
47	2	6	1	17	1	8	3	1
12	1	17	4	45	3	2.5	1	0.5
38	2	30	7	94	7	2.5	1	0.5

82	3	3	1	13	1	9	4	3
12	1	11	2	28	2	2.5	1	0.5
204	8	14	3	48	3	11	4	1
199	8	18	4	42	3	2.5	1	0.5
48	2	6	1	14	1	2.5	1	0.5
68	3	4	1	18	1	2.5	1	1
166	7	5	1	32	2	16	6	4
102	4	8	2	28	2	8	3	2
8	1	50	11	120	8	2.5	1	0.5
22	1	117	26	431	30	2.5	1	2
18	1	17	4	34	2	2.5	1	0.5
68	3	31	7	117	8	5	2	8
80	3	11	2	40	3	2.5	1	2
174	7	3	1	6	1	2.5	1	0.5
233	9	25	6	106	7	2.5	1	2
84	3	78	18	289	20	14	6	12
306	12	7	2	36	2	2.5	1	6
54	2	17	4	77	5	2.5	1	2
73	3	26	6	82	6	9	4	2
138	6	24	5	61	4	27	11	7
67	3	41	9	185	13	8	3	1
30	1	13	3	27	2	2.5	1	2
92	4	47	11	210	15	2.5	1	2
29	1	107	24	271	19	2.5	1	1
31	1	48	11	119	8	2.5	1	0.5
54	2	20	5	51	4	2.5	1	1
170	7	20	5	80	6	9	4	2
47	2	3	1	8	1	6	2	3
158	6	19	4	72	5	8	3	2
21	1	26	6	68	5	2.5	1	0.5
160	6	9	2	35	2	11	4	3
46	2	17	4	49	3	5	2	0.5
119	5	10	2	23	2	9	4	4
39	2	18	4	37	3	2.5	1	0.5
121	5	26	6	75	5	8	3	8
88	4	29	7	90	6	2.5	1	1
43	2	69	16	455	32	2.5	1	7
91	4	6	1	36	2	28	11	2
83	3	23	5	135	9	10	4	31
13	1	22	5	62	4	2.5	1	0.5
186	7	2	1	11	1	7	3	4
32	1	11	2	38	3	2.5	1	2
30	1	11	2	34	2	2.5	1	0.5
25	1	12	3	32	2	2.5	1	0.5
70	3	50	11	351	24	2.5	1	19
42	2	11	2	27	2	2.5	1	2
146	6	85	19	283	20	2.5	1	2
67	3	65	15	246	17	2.5	1	16
123	5	30	7	155	11	18	7	4
152	6	85	19	427	30	9	4	3
87	3	13	3	75	5	6	2	4
142	6	24	5	86	6	2.5	1	2
152	6	12	3	53	4	7	3	3
94	4	28	6	113	8	5	2	1
57	2	23	5	60	4	2.5	1	0.5
25	1	18	4	45	3	2.5	1	2

222	9	5	1	33	2	2.5	1	2
76	3	110	25	464	32	8	3	6
115	5	7	2	28	2	2.5	1	1
56	2	9	2	31	2	10	4	87
165	7	18	4	94	7	11	4	4
128	5	16	4	43	3	12	5	3
305	12	46	10	243	17	11	4	2
54	2	14	3	32	2	2.5	1	5
10	1	22	5	107	7	2.5	1	1
7	1	339	77	1520	105	2.5	1	6
74	3	13	3	41	3	6	2	3
35	1	191	43	565	39	2.5	1	13
68	3	40	9	224	16	7	3	3
24	1	100	23	437	30	2.5	1	9
328	13	71	16	530	37	18	7	6
153	6	99	22	620	43	31	12	4
14	1	18	4	104	7	2.5	1	50
79	3	71	16	295	20	2.5	1	2
178	7	15	3	80	6	6	2	3
193	8	8	2	42	3	6	2	2
19	1	20	5	87	6	2.5	1	6
121	5	6	1	25	2	7	3	7
65	3	31	7	153	11	2.5	1	1
140	6	36	8	162	11	31	12	11
20	1	20	5	65	5	2.5	1	0.5
140	6	21	5	84	6	12	5	3
21	1	13	3	33	2	2.5	1	0.5
134	5	66	15	323	22	8	3	2
228	9	62	14	470	33	24	10	6
12	1	76	17	236	16	2.5	1	2
177	7	100	23	594	41	13	5	10
91	4	17	4	60	4	2.5	1	1
24	1	63	14	370	26	9	4	25
82	3	19	4	76	5	2.5	1	2
14	1	50	11	320	22	13	5	21
110	4	15	3	71	5	9	4	4
9	1	3	1	3	1	2.5	1	36
248	10	4	1	21	1	2.5	1	2
113	5	17	4	47	3	2.5	1	2
331	13	46	10	298	21	6	2	5
370	15	66	15	300	21	17	7	5
191	8	9	2	32	2	6	2	10
74	3	17	4	49	3	2.5	1	0.5
123	5	165	37	964	67	2.5	1	12
40	2	66	15	293	20	2.5	1	10
86	3	149	34	1150	80	2.5	1	13
42	2	17	4	54	4	2.5	1	3
76	3	11	2	46	3	2.5	1	0.5
51	2	17	4	66	5	5	2	1
40	2	24	5	97	7	2.5	1	1
82	3	39	9	219	15	2.5	1	1
49	2	24	5	71	5	2.5	1	1
40	2	20	5	91	6	2.5	1	0.5
19	1	16	4	50	3	2.5	1	0.5
85	3	5	1	15	1	2.5	1	2
62	2	19	4	96	7	2.5	1	0.5

160	6	1	1	10	1	2.5	1	2
82	3	7	2	17	1	7	3	1
59	2	13	3	30	2	2.5	1	0.5
27	1	12	3	32	2	2.5	1	0.5
34	1	22	5	78	5	2.5	1	0.5
69	3	35	8	89	6	2.5	1	0.5
194	8	41	9	185	13	11	4	2
71	3	16	4	74	5	2.5	1	0.5
76	3	7	2	20	1	2.5	1	0.5
53	2	7	2	23	2	2.5	1	0.5
86	3	4	1	26	2	2.5	1	1
296	12	5	1	31	2	15	6	3
286	11	11	2	41	3	6	2	13
133	5	11	2	36	2	6	2	2
294	12	8	2	32	2	8	3	18
88	4	30	7	158	11	8	3	11
162	6	45	10	224	16	9	4	2
198	8	28	6	90	6	7	3	49
23	1	101	23	340	24	2.5	1	31
160	6	91	21	415	29	6	2	18
20	1	31	7	126	9	11	4	40
20	1	37	8	145	10	10	4	29
206	8	11	2	57	4	15	6	9
104	4	13	3	21	1	2.5	1	5
242	10	95	21	274	19	2.5	1	5
91	4	31	7	126	9	7	3	1
68	3	12	3	42	3	2.5	1	0.5
337	14	21	5	110	8	9	4	7
206	8	10	2	47	3	2.5	1	1
131	5	4	1	15	1	6	2	2
140	6	8	2	28	2	2.5	1	5
86	3	12	3	57	4	2.5	1	0.5
37	1	20	5	65	5	2.5	1	0.5
242	10	14	3	90	6	11	4	4
270	11	3	1	20	1	9	4	3
16	1	45	10	162	11	8	3	58
70	3	19	4	129	9	13	5	6
34	1	11	2	29	2	2.5	1	0.5
216	9	7	2	38	3	10	4	2
43	2	8	2	18	1	2.5	1	0.5
39	2	8	2	17	1	2.5	1	0.5
40	2	17	4	29	2	2.5	1	0.5
30	1	17	4	48	3	2.5	1	0.5
81	3	11	2	33	2	7	3	3
209	8	10	2	38	3	14	6	4
32	1	17	4	64	4	2.5	1	0.5
31	1	12	3	33	2	2.5	1	0.5
347	14	3	1	16	1	2.5	1	1
259	10	2	1	12	1	2.5	1	0.5
63	3	16	4	76	5	11	4	1
94	4	0.5	1	2	1	2.5	1	1
131	5	10	2	54	4	7	3	0.5
127	5	12	3	57	4	7	3	0.5
54	2	7	2	19	1	2.5	1	0.5
152	6	6	1	28	2	2.5	1	0.5
97	4	1	1	9	1	2.5	1	0.5

177	7	5	1	36	2	2.5	1	2
122	5	4	1	17	1	2.5	1	4
430	17	6	1	38	3	2.5	1	5
260	10	8	2	36	2	17	7	6
187	7	6	1	28	2	11	4	4
179	7	9	2	37	3	7	3	5
43	2	10	2	29	2	2.5	1	0.5
71	3	12	3	34	2	2.5	1	2
114	5	15	3	55	4	2.5	1	2
69	3	18	4	51	4	2.5	1	2
80	3	8	2	21	1	2.5	1	2
47	2	11	2	35	2	2.5	1	0.5
42	2	8	2	19	1	2.5	1	0.5
78	3	4	1	13	1	2.5	1	0.5
62	2	7	2	21	1	2.5	1	0.5
70	3	11	2	36	2	6	2	1
88	4	7	2	21	1	5	2	0.5
24	1	13	3	71	5	2.5	1	2
18	1	9	2	16	1	2.5	1	0.5
15	1	16	4	40	3	2.5	1	0.5
17	1	9	2	10	1	2.5	1	0.5
98	4	13	3	33	2	2.5	1	2
225	9	14	3	93	6	30	12	52
14	1	15	3	32	2	2.5	1	0.5
33	1	7	2	15	1	2.5	1	0.5
63	3	4	1	17	1	2.5	1	0.5
44	2	20	5	57	4	2.5	1	0.5
114	5	13	3	86	6	2.5	1	0.5
129	5	20	5	98	7	8	3	0.5
61	2	9	2	42	3	2.5	1	0.5
101	4	44	10	201	14	6	2	0.5
145	6	2	1	8	1	7	3	4
53	2	10	2	31	2	2.5	1	0.5
118	5	2	1	5	1	15	6	4
133	5	6	1	14	1	10	4	1
15	1	13	3	31	2	2.5	1	0.5
65	3	11	2	53	4	2.5	1	0.5
35	1	14	3	37	3	2.5	1	0.5
56	2	8	2	22	2	2.5	1	2
49	2	10	2	22	2	6	2	1
64	3	5	1	12	1	2.5	1	0.5
50	2	8	2	14	1	2.5	1	0.5
42	2	8	2	23	2	2.5	1	0.5
46	2	24	5	38	3	2.5	1	0.5
56	2	4	1	8	1	2.5	1	0.5
20	1	8	2	13	1	2.5	1	0.5
23	1	16	4	44	3	2.5	1	0.5
29	1	32	7	96	7	2.5	1	3
27	1	5	1	8	1	2.5	1	0.5
115	5	0.5	1	4	1	6	2	0.5
64	3	9	2	21	1	2.5	1	0.5
210	8	6	1	20	1	2.5	1	0.5
133	5	9	2	33	2	12	5	3
180	7	18	4	120	8	6	2	2
84	3	4	1	21	1	2.5	1	0.5
281	11	38	9	235	16	11	4	8

221	9	20	5	127	9	10	4	4
91	4	15	3	70	5	2.5	1	0.5
39	2	11	2	31	2	2.5	1	0.5
26	1	15	3	39	3	2.5	1	0.5
72	3	9	2	34	2	2.5	1	0.5
38	2	8	2	17	1	2.5	1	0.5
307	12	4	1	15	1	2.5	1	0.5
197	8	3	1	9	1	2.5	1	0.5
38	2	2	1	22	2	8	3	2
80	3	20	5	86	6	2.5	1	0.5
75	3	3	1	10	1	2.5	1	2
50	2	12	3	41	3	2.5	1	0.5
35	1	13	3	27	2	2.5	1	0.5
85	3	7	2	17	1	5	2	0.5
20	1	11	2	18	1	2.5	1	0.5
201	8	8	2	34	2	8	3	0.5
48	2	12	3	61	4	2.5	1	0.5
23	1	16	4	37	3	2.5	1	0.5
75	3	3	1	11	1	2.5	1	0.5
13	1	14	3	31	2	2.5	1	0.5
79	3	14	3	41	3	2.5	1	0.5
147	6	6	1	22	2	2.5	1	4
37	1	33	7	53	4	2.5	1	0.5
53	2	4	1	21	1	2.5	1	0.5
101	4	0.5	1	4	1	2.5	1	0.5
240	10	7	2	54	4	2.5	1	3
54	2	14	3	39	3	8	3	2
22	1	19	4	48	3	2.5	1	0.5
85	3	14	3	50	3	2.5	1	5
47	2	3	1	13	1	5	2	0.5
36	1	2	1	0.5	1	2.5	1	0.5
191	8	1	1	6	1	2.5	1	0.5
256	10	4	1	17	1	2.5	1	0.5
73	3	12	3	27	2	2.5	1	2
131	5	12	3	62	4	2.5	1	1
97	4	2	1	11	1	2.5	1	3
112	4	5	1	17	1	2.5	1	0.5
57	2	3	1	15	1	2.5	1	0.5
80	3	0.5	1	3	1	2.5	1	2
75	3	4	1	9	1	2.5	1	0.5
86	3	20	5	58	4	7	3	4
50	2	42	9	107	7	2.5	1	0.5
76	3	16	4	71	5	2.5	1	0.5
244	10	18	4	49	3	2.5	1	0.5
113	5	8	2	38	3	18	7	6
325	13	4	1	11	1	2.5	1	7
292	12	7	2	26	2	2.5	1	0.5
16	1	47	11	38	3	2.5	1	0.5
168	7	5	1	19	1	2.5	1	0.5
107	4	4	1	14	1	2.5	1	0.5
190	8	4	1	18	1	2.5	1	4
140	6	28	6	40	3	2.5	1	11
42	2	73	16	180	12	2.5	1	29
21	1	19	4	46	3	2.5	1	1
76	3	22	5	71	5	2.5	1	0.5
31	1	6	1	19	1	2.5	1	0.5

21	1	9	2	23	2	2.5	1	0.5
51	2	56	13	252	17	2.5	1	2
55	2	13	3	25	2	2.5	1	2
114	5	5	1	17	1	2.5	1	0.5
122	5	9	2	35	2	9	4	4
82	3	11	2	29	2	2.5	1	0.5
54	2	20	5	48	3	2.5	1	20
16	1	24	5	58	4	2.5	1	0.5
161	6	5	1	16	1	7	3	2
43	2	19	4	43	3	2.5	1	3
24	1	43	10	75	5	2.5	1	15
45	2	26	6	52	4	9	4	28
101	4	7	2	11	1	2.5	1	2
56	2	2	1	4	1	2.5	1	3
138	6	0.5	1	0.5	1	13	5	3
11	1	14	3	23	2	2.5	1	0.5
219	9	8	2	23	2	2.5	1	5
29	1	15	3	35	2	2.5	1	0.5
135	5	2	1	5	1	2.5	1	2
86	3	13	3	55	4	2.5	1	0.5
28	1	16	4	42	3	2.5	1	0.5
36	1	49	11	177	12	2.5	1	8
16	1	81	18	216	15	2.5	1	10
70	3	7	2	14	1	2.5	1	6
41		8		23.75		2.5		0.5
24.83621		4.4375		14.46364		2.5		0.5

MgRR	Mo MMI-M5	MoRR	Nb MMI-M5	NbRR	Nd MMI-M5	NdRR	Ni MMI-M5	NiRR
	5		0.5		1		5	
	PPB		PPB		PPB		PPB	
50	60	24	5.6	6	1360	78	38	1
1	5	2	4.1	4	121	7	69	1
2	2.5	1	4.1	4	230	13	200	4
2	2.5	1	6.4	7	42	2	126	2
2	2.5	1	2.9	3	59	3	139	3
1	7	3	3.3	4	184	11	49	1
1	2.5	1	0.25	1	87	5	127	3
1	2.5	1	2.8	3	28	2	135	3
1	2.5	1	2.5	3	108	6	113	2
2	2.5	1	2.4	3	34	2	210	4
4	9	4	4.3	5	40	2	292	6
4	9	4	13.4	14	380	22	127	3
1	2.5	1	1.7	2	36	2	107	2
1	2.5	1	5.3	6	44	3	169	3
8	2.5	1	11.9	13	52	3	84	2
4	2.5	1	12.5	13	88	5	92	2
1	2.5	1	2.2	2	54	3	146	3
2	2.5	1	5.6	6	18	1	136	3
2	2.5	1	3.1	3	28	2	90	2
4	2.5	1	2	2	35	2	147	3
1	7	3	3.5	4	58	3	127	3
6	5	2	10.3	11	67	4	137	3
12	2.5	1	4.4	5	116	7	151	3
1	2.5	1	3.2	3	68	4	55	1
1	2.5	1	0.25	1	88	5	59	1
24	2.5	1	3.3	4	1090	63	115	2
4	2.5	1	6	6	26	1	92	2
1	2.5	1	1.9	2	54	3	149	3
1	2.5	1	0.6	1	558	32	22	1
2	2.5	1	4.8	5	12	1	149	3
1	2.5	1	0.7	1	271	16	39	1
2	2.5	1	5.8	6	28	2	287	6
12	2.5	1	26.7	29	2170	124	46	1
2	2.5	1	2.2	2	34	2	126	2
1	2.5	1	0.25	1	64	4	62	1
2	2.5	1	1	1	53	3	116	2
2	2.5	1	3.2	3	112	6	33	1
4	8	3	15.2	16	34	2	44	1
1	2.5	1	1.4	2	293	17	52	1
4	9	4	11.7	13	48	3	17	1
1	6	2	5.8	6	38	2	56	1
4	2.5	1	2.5	3	14	1	92	2
18	10	4	11.4	12	196	11	169	3
1	5	2	1.8	2	36	2	111	2
10	17	7	9.3	10	514	29	108	2
6	6	2	7.5	8	201	12	102	2
1	2.5	1	1.2	1	28	2	53	1
1	2.5	1	0.9	1	14	1	39	1
4	6	2	4.8	5	243	14	68	1
8	10	4	29.9	32	241	14	160	3
8	13	5	14.8	16	870	50	72	1
18	9	4	13.8	15	167	10	212	4

6	2.5	1	1	1	241	14	65	1
4	2.5	1	6.4	7	257	15	148	3
8	10	4	5.4	6	147	8	170	3
1	2.5	1	1.3	1	96	6	35	1
1	5	2	2.1	2	37	2	201	4
1	6	2	5.8	6	34	2	119	2
2	2.5	1	2.1	2	21	1	123	2
4	5	2	8.2	9	178	10	149	3
1	2.5	1	1.2	1	40	2	99	2
1	2.5	1	1.4	2	49	3	101	2
1	2.5	1	3.4	4	16	1	169	3
24	10	4	11	12	1340	77	58	1
4	2.5	1	4.8	5	56	3	139	3
4	2.5	1	10.4	11	67	4	135	3
1	2.5	1	0.9	1	13	1	112	2
1	2.5	1	0.9	1	33	2	79	2
1	2.5	1	0.5	1	25	1	74	1
1	2.5	1	1.1	1	27	2	88	2
2	2.5	1	1	1	29	2	207	4
1	2.5	1	1.3	1	30	2	61	1
56	2.5	1	1.6	2	7	1	529	10
16	10	4	35	38	92	5	79	2
20	8	3	35.7	39	711	41	463	9
2	2.5	1	2.9	3	204	12	85	2
18	2.5	1	4.8	5	40	2	126	2
6	2.5	1	5	5	66	4	153	3
6	2.5	1	2.4	3	22	1	111	2
6	2.5	1	6.4	7	93	5	100	2
14	2.5	1	10.5	11	58	3	232	5
6	2.5	1	8.1	9	63	4	157	3
2	2.5	1	2	2	55	3	117	2
4	2.5	1	3.2	3	61	3	166	3
8	6	2	5.7	6	92	5	168	3
6	2.5	1	0.8	1	26	1	121	2
2	5	2	2.1	2	216	12	81	2
18	2.5	1	1.8	2	62	4	165	3
4	2.5	1	4.4	5	110	6	86	2
4	2.5	1	2.5	3	31	2	135	3
22	2.5	1	8.2	9	26	1	239	5
10	2.5	1	9.6	10	8	1	155	3
1	2.5	1	2.4	3	23	1	26	1
1	2.5	1	1.2	1	67	4	47	1
4	6	2	4.2	5	119	7	385	8
4	2.5	1	3.6	4	136	8	269	5
2	2.5	1	2.9	3	119	7	186	4
2	2.5	1	2.2	2	110	6	103	2
6	8	3	11.5	12	298	17	98	2
6	2.5	1	1.7	2	194	11	108	2
6	6	2	3.1	3	47	3	147	3
14	2.5	1	2.9	3	67	4	226	4
1	2.5	1	0.5	1	528	30	75	1
4	6	2	19.4	21	1260	72	51	1
2	2.5	1	5.1	6	226	13	77	2
1	2.5	1	1.7	2	32	2	81	2
1	2.5	1	2.7	3	131	8	69	1
10	5	2	6.2	7	321	18	157	3

4	2.5	1	3.3	4	139	8	100	2
56	8	3	0.7	1	110	6	361	7
8	9	4	10.7	12	369	21	95	2
6	8	3	7	8	162	9	153	3
42	2.5	1	4.4	5	327	19	87	2
46	39	16	11	12	121	7	228	5
214	2.5	1	0.25	1	784	45	114	2
8	2.5	1	12	13	61	3	77	2
2	6	2	6.2	7	439	25	90	2
10	2.5	1	7.9	9	25	1	99	2
84	2.5	1	2.1	2	178	10	127	3
98	91	36	6.1	7	609	35	630	12
14	2.5	1	2	2	367	21	148	3
16	2.5	1	3.5	4	203	12	68	1
18	15	6	7	8	43	2	155	3
88	2.5	1	0.5	1	146	8	133	3
14	2.5	1	5.8	6	77	4	244	5
4	2.5	1	3.4	4	156	9	118	2
2	2.5	1	2.5	3	80	5	100	2
2	2.5	1	4.3	5	59	3	156	3
4	2.5	1	3.2	3	53	3	120	2
1	5	2	0.25	1	757	43	36	1
2	18	7	0.25	1	16	1	58	1
6	7	3	0.25	1	324	19	20	1
26	16	6	32.1	35	42	2	193	4
4	2.5	1	1.1	1	243	14	33	1
10	6	2	6.9	7	199	11	204	4
1	2.5	1	2.3	2	94	5	54	1
20	6	2	8.4	9	180	10	152	3
10	2.5	1	13.1	14	20	1	117	2
10	2.5	1	2.6	3	173	10	83	2
18	8	3	8.7	9	105	6	183	4
178	2.5	1	0.25	1	1070	61	43	1
16	11	4	27	29	59	3	153	3
6	7	3	4.1	4	54	3	67	1
4	25	10	2	2	35	2	69	1
44	11	4	7.5	8	120	7	211	4
14	5	2	1.4	2	95	5	166	3
70	11	4	12	13	100	6	165	3
16	2.5	1	10.5	11	32	2	205	4
10	2.5	1	6.2	7	62	4	192	4
8	17	7	5.3	6	946	54	59	1
46	2.5	1	10.6	11	626	36	216	4
18	11	4	22.2	24	62	4	359	7
8	2.5	1	8.4	9	27	2	253	5
48	13	5	35.2	38	138	8	227	5
2	10	4	2.4	3	182	10	56	1
10	2.5	1	2.4	3	90	5	169	3
2	2.5	1	2.9	3	29	2	83	2
2	2.5	1	4	4	62	4	114	2
1	2.5	1	3.1	3	19	1	59	1
2	2.5	1	2.4	3	12	1	68	1
6	5	2	11.6	13	19	1	163	3
2	2.5	1	0.9	1	26	1	169	3
1	2.5	1	1	1	73	4	77	2
1	2.5	1	2.2	2	148	8	119	2

6	2.5	1	2	2	15	1	115	2
1	2.5	1	0.25	1	45	3	204	4
2	2.5	1	7.2	8	55	3	242	5
1	5	2	3	3	70	4	28	1
1	2.5	1	1.1	1	20	1	137	3
2	2.5	1	4.7	5	19	1	67	1
8	2.5	1	8	9	27	2	127	3
4	2.5	1	9	10	33	2	46	1
1	2.5	1	0.25	1	220	13	18	1
4	2.5	1	1.8	2	584	33	157	3
1	2.5	1	0.25	1	71	4	47	1
16	6	2	2.2	2	170	10	80	2
4	2.5	1	3	3	49	3	72	1
1	9	4	0.25	1	8	1	29	1
4	6	2	3.3	4	112	6	57	1
24	6	2	4.3	5	426	24	177	4
12	2.5	1	11.4	12	37	2	61	1
4	2.5	1	2.6	3	92	5	155	3
4	2.5	1	10.6	11	120	7	85	2
14	6	2	21.2	23	87	5	104	2
2	9	4	4.6	5	198	11	234	5
4	2.5	1	1	1	46	3	144	3
4	8	3	4.6	5	250	14	163	3
2	2.5	1	0.9	1	508	29	74	1
1	2.5	1	1.4	2	214	12	48	1
2	2.5	1	4	4	74	4	111	2
4	2.5	1	11	12	100	6	136	3
6	2.5	1	2.1	2	9	1	78	2
4	2.5	1	7.1	8	97	6	189	4
1	2.5	1	1.2	1	124	7	28	1
6	2.5	1	5	5	43	2	195	4
1	2.5	1	2.4	3	75	4	175	3
8	2.5	1	7.3	8	36	2	187	4
1	2.5	1	1.9	2	67	4	177	4
16	2.5	1	4.1	4	114	7	247	5
2	2.5	1	5.7	6	129	7	213	4
14	6	2	3.7	4	487	28	100	2
4	2.5	1	6.4	7	33	2	121	2
62	7	3	11.6	13	157	9	120	2
1	2.5	1	0.25	1	104	6	35	1
8	2.5	1	6.1	7	10	1	120	2
4	2.5	1	1.2	1	44	3	169	3
1	2.5	1	0.6	1	50	3	123	2
1	2.5	1	1.7	2	51	3	60	1
38	2.5	1	3.2	3	371	21	138	3
4	2.5	1	1.3	1	42	2	134	3
4	8	3	9.8	11	420	24	120	2
32	8	3	3	3	432	25	63	1
8	7	3	15.7	17	173	10	123	2
6	8	3	16.1	17	547	31	62	1
8	9	4	12.4	13	78	4	176	3
4	8	3	4.3	5	103	6	255	5
6	2.5	1	7.2	8	52	3	87	2
2	6	2	5.6	6	137	8	159	3
1	6	2	3.8	4	99	6	77	2
4	2.5	1	0.8	1	76	4	122	2

4	2.5	1	4.2	5	27	2	101	2
12	2.5	1	3	3	686	39	96	2
2	2.5	1	2.4	3	30	2	113	2
174	2.5	1	1.7	2	48	3	157	3
8	2.5	1	6.8	7	97	6	192	4
6	2.5	1	8	9	63	4	147	3
4	6	2	22.3	24	261	15	60	1
10	2.5	1	3.4	4	50	3	183	4
2	2.5	1	1.1	1	124	7	59	1
12	8	3	0.8	1	2040	117	144	3
6	2.5	1	3.2	3	53	3	240	5
26	6	2	1	1	914	52	438	9
6	9	4	14.1	15	227	13	62	1
18	10	4	2	2	580	33	257	5
12	8	3	28.6	31	513	29	169	3
8	15	6	18.1	20	726	42	158	3
100	2.5	1	0.25	1	119	7	103	2
4	8	3	6.5	7	396	23	113	2
6	10	4	17.3	19	73	4	128	3
4	8	3	5.7	6	38	2	100	2
12	6	2	0.7	1	97	6	111	2
14	7	3	15.5	17	25	1	122	2
2	9	4	10.7	12	160	9	53	1
22	13	5	18.7	20	202	12	204	4
1	6	2	2	2	98	6	53	1
6	10	4	12.5	13	101	6	151	3
1	6	2	0.8	1	50	3	115	2
4	12	5	13.3	14	399	23	94	2
12	17	7	27.7	30	452	26	210	4
4	2.5	1	0.25	1	366	21	50	1
20	10	4	3.3	4	668	38	247	5
2	11	4	3.2	3	70	4	178	4
50	19	8	0.9	1	423	24	187	4
4	8	3	5.2	6	93	5	55	1
42	63	25	1.4	2	374	21	256	5
8	8	3	8.3	9	80	5	92	2
72	2.5	1	0.8	1	7	1	112	2
4	9	4	2.2	2	19	1	276	5
4	2.5	1	2.3	2	75	4	145	3
10	18	7	30.1	33	272	16	114	2
10	10	4	15.6	17	337	19	114	2
20	9	4	6.8	7	35	2	360	7
1	2.5	1	3.4	4	71	4	74	1
24	8	3	6.2	7	1050	60	120	2
20	6	2	3.8	4	404	23	40	1
26	8	3	8.4	9	1070	61	27	1
6	2.5	1	1.9	2	70	4	97	2
1	6	2	2.7	3	51	3	156	3
2	8	3	1.9	2	82	5	320	6
2	7	3	3.7	4	117	7	144	3
2	7	3	7.7	8	233	13	173	3
2	9	4	5.1	6	122	7	212	4
1	6	2	2.7	3	115	7	144	3
1	2.5	1	0.9	1	71	4	88	2
4	2.5	1	6.7	7	19	1	80	2
1	2.5	1	2	2	102	6	107	2

4	12	5	4.6	5	7	1	143	3
2	17	7	8.1	9	24	1	235	5
1	24	10	3.7	4	47	3	121	2
1	10	4	1.9	2	46	3	155	3
1	11	4	1.6	2	88	5	90	2
1	16	6	3.5	4	148	8	89	2
4	9	4	12.5	13	231	13	133	3
1	8	3	8.7	9	76	4	140	3
1	7	3	7	8	26	1	259	5
1	7	3	2.9	3	26	1	184	4
2	11	4	11.3	12	20	1	61	1
6	14	6	40.3	44	24	1	87	2
26	14	6	5.3	6	47	3	194	4
4	7	3	5.6	6	41	2	268	5
36	18	7	6.7	7	36	2	282	6
22	8	3	9.5	10	171	10	198	4
4	12	5	8.2	9	245	14	100	2
98	8	3	2.1	2	127	7	421	8
62	11	4	0.25	1	446	26	291	6
36	10	4	3.9	4	501	29	241	5
80	807	323	3.3	4	161	9	881	17
58	81	32	1.5	2	195	11	311	6
18	17	7	16.8	18	56	3	173	3
10	7	3	2.2	2	33	2	252	5
10	21	8	3.5	4	365	21	293	6
2	9	4	2.5	3	131	8	212	4
1	7	3	3.4	4	54	3	294	6
14	40	16	10.8	12	115	7	218	4
2	18	7	14.6	16	44	3	148	3
4	7	3	2.7	3	15	1	116	2
10	49	20	7.1	8	31	2	254	5
1	8	3	4.7	5	54	3	259	5
1	9	4	2	2	81	5	276	5
8	40	16	26.7	29	78	4	166	3
6	16	6	9.8	11	14	1	106	2
116	340	136	3.9	4	227	13	598	12
12	29	12	23.6	25	121	7	123	2
1	10	4	1.1	1	42	2	176	3
4	14	6	15.2	16	37	2	92	2
1	9	4	3.4	4	28	2	195	4
1	8	3	1.7	2	26	1	110	2
1	18	7	1.5	2	58	3	208	4
1	15	6	1.5	2	69	4	161	3
6	13	5	7.9	9	42	2	421	8
8	20	8	20.3	22	39	2	218	4
1	8	3	4.4	5	73	4	85	2
1	5	2	1	1	50	3	414	8
2	6	2	3.8	4	13	1	63	1
1	6	2	7.8	8	10	1	54	1
2	14	6	20	22	73	4	51	1
2	2.5	1	3.4	4	2	1	43	1
1	9	4	11.5	12	52	3	101	2
1	8	3	7.4	8	51	3	170	3
1	6	2	2.6	3	24	1	170	3
1	8	3	16.7	18	25	1	96	2
1	6	2	3.7	4	6	1	49	1

4	8	3	7.3	8	27	2	172	3
8	7	3	5.1	6	15	1	101	2
10	27	11	21.3	23	30	2	154	3
12	167	67	41.6	45	34	2	124	2
8	74	30	27	29	25	1	180	4
10	36	14	22.3	24	36	2	288	6
1	9	4	2.3	2	41	2	136	3
4	6	2	3.1	3	50	3	270	5
4	10	4	4	4	71	4	219	4
4	11	4	5.1	6	82	5	145	3
4	6	2	2.9	3	30	2	213	4
1	2.5	1	1.4	2	45	3	190	4
1	2.5	1	1.3	1	28	2	106	2
1	5	2	2.6	3	17	1	177	4
1	5	2	1.8	2	25	1	199	4
2	8	3	7.8	8	44	3	137	3
1	7	3	3.4	4	24	1	201	4
4	12	5	2.5	3	63	4	93	2
1	7	3	0.25	1	27	2	92	2
1	10	4	0.5	1	57	3	89	2
1	23	9	0.25	1	23	1	51	1
4	54	22	2.2	2	46	3	165	3
104	2.5	1	5.9	6	82	5	182	4
1	6	2	1.3	1	51	3	138	3
1	6	2	1.9	2	21	1	164	3
1	6	2	1.5	2	17	1	63	1
1	7	3	3.7	4	86	5	115	2
1	6	2	6.4	7	71	4	143	3
1	10	4	15.2	16	98	6	116	2
1	5	2	4.3	5	37	2	89	2
1	12	5	14.2	15	238	14	56	1
8	21	8	10.9	12	7	1	108	2
1	13	5	2.1	2	42	2	126	2
8	17	7	8.5	9	6	1	130	3
2	40	16	9	10	19	1	164	3
1	11	4	1.4	2	47	3	56	1
1	9	4	9	10	48	3	98	2
1	7	3	2.6	3	53	3	91	2
4	6	2	2.8	3	31	2	164	3
2	2.5	1	1.4	2	34	2	272	5
1	2.5	1	2.4	3	15	1	166	3
1	2.5	1	0.6	1	23	1	223	4
1	2.5	1	1.5	2	32	2	105	2
1	2.5	1	2.1	2	86	5	247	5
1	5	2	1.5	2	13	1	260	5
1	6	2	0.6	1	27	2	151	3
1	7	3	1.9	2	63	4	122	2
6	13	5	1.6	2	147	8	173	3
1	7	3	0.8	1	13	1	110	2
1	14	6	4.3	5	3	1	43	1
1	21	8	1.7	2	26	1	54	1
1	47	19	2.3	2	22	1	103	2
6	22	9	9.1	10	34	2	171	3
4	10	4	7.9	9	116	7	124	2
1	5	2	3.2	3	16	1	85	2
16	9	4	8.8	10	231	13	327	6

8	10	4	10.7	12	119	7	174	3
1	9	4	6	6	69	4	127	3
1	6	2	1.6	2	37	2	154	3
1	5	2	1.1	1	57	3	97	2
1	7	3	3.2	3	31	2	72	1
1	7	3	1.4	2	23	1	101	2
1	56	22	3.5	4	13	1	130	3
1	42	17	1	1	9	1	154	3
4	61	24	3.3	4	6	1	55	1
1	43	17	9.9	11	82	5	83	2
4	2.5	1	2.9	3	8	1	79	2
1	8	3	6.1	7	47	3	110	2
1	2.5	1	1.6	2	43	2	203	4
1	2.5	1	2.9	3	23	1	175	3
1	2.5	1	0.8	1	34	2	87	2
1	9	4	16.8	18	33	2	138	3
1	2.5	1	2.4	3	54	3	36	1
1	2.5	1	1.2	1	60	3	88	2
1	2.5	1	5.3	6	10	1	117	2
1	5	2	0.7	1	53	3	97	2
1	22	9	3.4	4	45	3	116	2
8	15	6	5	5	22	1	114	2
1	83	33	3.6	4	98	6	24	1
1	213	85	3.1	3	18	1	30	1
1	71	28	2.2	2	2	1	26	1
6	51	20	2.9	3	43	2	125	2
4	14	6	1.7	2	52	3	279	6
1	7	3	1.3	1	70	4	57	1
10	8	3	6.7	7	55	3	154	3
1	2.5	1	1	1	11	1	62	1
1	2.5	1	1.1	1	2	1	35	1
1	6	2	1.4	2	5	1	41	1
1	6	2	2.1	2	16	1	81	2
4	10	4	7.1	8	40	2	184	4
2	26	10	2.1	2	57	3	212	4
6	15	6	6.9	7	7	1	66	1
1	21	8	2.6	3	18	1	24	1
1	168	67	12.5	13	13	1	22	1
4	18	7	1.8	2	2	1	37	1
1	101	40	7.6	8	9	1	55	1
8	16	6	7.7	8	70	4	111	2
1	8	3	3.1	3	173	10	129	3
1	2.5	1	3.7	4	76	4	84	2
1	5	2	1.4	2	49	3	38	1
12	28	11	37.6	41	34	2	97	2
14	18	7	3.2	3	13	1	172	3
1	24	10	6.9	7	24	1	65	1
1	116	46	0.25	1	157	9	13	1
1	89	36	1.4	2	21	1	19	1
1	47	19	1.2	1	15	1	21	1
8	37	15	7.7	8	17	1	139	3
22	24	10	7.4	8	68	4	195	4
58	19	8	2	2	302	17	147	3
2	6	2	1.2	1	76	4	147	3
1	10	4	2.8	3	87	5	55	1
1	8	3	0.9	1	23	1	73	1

1	8	3	0.8	1	31	2	128	3
4	18	7	5.2	6	297	17	64	1
4	12	5	1.8	2	43	2	136	3
1	55	22	4.8	5	16	1	32	1
8	182	73	28.8	31	37	2	82	2
1	48	19	5.1	6	37	2	26	1
40	11	4	1	1	72	4	157	3
1	2.5	1	0.25	1	102	6	27	1
4	8	3	8.3	9	15	1	56	1
6	2.5	1	1.4	2	61	3	54	1
30	8	3	0.25	1	108	6	297	6
56	5	2	1.2	1	78	4	137	3
4	2.5	1	0.7	1	16	1	144	3
6	2.5	1	2.2	2	6	1	49	1
6	2.5	1	1.9	2	1	1	47	1
1	10	4	0.25	1	51	3	90	2
10	77	31	15.9	17	30	2	133	3
1	19	8	1.3	1	60	3	51	1
4	6	2	3.3	4	4	1	90	2
1	56	22	9.8	11	62	4	44	1
1	17	7	1.1	1	59	3	93	2
16	32	13	3.6	4	249	14	58	1
20	13	5	0.6	1	394	23	58	1
12	8	3	2.8	3	20	1	99	2
	2.5		1.7		30		77.75	
	2.5		0.922727		17.46903		50.39316	

Pb MMI-M5	PbRR	Pd MMI-M5	PdRR	Pr MMI-M5	PrRR	Rb MMI-M5	RbRR	Sb MMI-M5
10		1		1		5		1
PPB		PPB		PPB		PPB		PPB
220	3	0.5	1	330	82	55	1	0.5
190	2	0.5	1	26	6	70	2	0.5
170	2	0.5	1	56	14	116	3	0.5
30	1	0.5	1	12	3	23	1	0.5
240	3	0.5	1	14	3	188	5	0.5
170	2	0.5	1	40	10	44	1	3
240	3	0.5	1	18	4	115	3	0.5
300	4	0.5	1	6	1	199	5	0.5
260	3	0.5	1	25	6	161	4	0.5
290	4	0.5	1	8	2	163	4	0.5
370	5	0.5	1	10	2	135	3	1
170	2	0.5	1	93	23	53	1	1
180	2	0.5	1	9	2	120	3	0.5
330	4	0.5	1	11	3	139	4	0.5
80	1	0.5	1	14	3	214	6	0.5
310	4	0.5	1	23	6	99	3	0.5
540	7	0.5	1	12	3	124	3	0.5
240	3	0.5	1	4	1	133	3	0.5
340	4	0.5	1	6	1	168	4	0.5
280	4	0.5	1	8	2	125	3	0.5
340	4	0.5	1	14	3	167	4	0.5
410	5	0.5	1	16	4	124	3	0.5
180	2	0.5	1	30	7	110	3	0.5
170	2	0.5	1	17	4	21	1	0.5
280	4	0.5	1	19	5	54	1	0.5
190	2	0.5	1	269	67	82	2	0.5
60	1	0.5	1	6	1	58	1	0.5
210	3	0.5	1	12	3	74	2	0.5
90	1	0.5	1	144	36	55	1	0.5
40	1	0.5	1	3	1	35	1	0.5
150	2	0.5	1	67	17	56	1	0.5
120	2	0.5	1	7	2	24	1	0.5
160	2	0.5	1	561	139	76	2	0.5
240	3	0.5	1	8	2	97	2	0.5
190	2	0.5	1	14	3	111	3	0.5
200	3	0.5	1	13	3	101	3	0.5
160	2	0.5	1	27	7	116	3	0.5
30	1	0.5	1	9	2	71	2	0.5
150	2	0.5	1	71	18	107	3	0.5
120	2	0.5	1	13	3	54	1	2
100	1	0.5	1	10	2	69	2	0.5
220	3	0.5	1	3	1	72	2	0.5
320	4	0.5	1	50	12	77	2	8
140	2	0.5	1	9	2	57	1	0.5
310	4	0.5	1	138	34	43	1	3
240	3	0.5	1	49	12	87	2	0.5
280	4	0.5	1	6	1	68	2	0.5
240	3	0.5	1	3	1	84	2	0.5
180	2	0.5	1	61	15	39	1	0.5
180	2	0.5	1	63	16	47	1	2
160	2	0.5	1	224	56	79	2	2
180	2	0.5	1	42	10	112	3	3

140	2	0.5	1	54	13	80	2	0.5
180	2	0.5	1	62	15	44	1	1
360	5	0.5	1	38	9	98	3	1
170	2	0.5	1	22	5	162	4	0.5
170	2	0.5	1	9	2	292	8	0.5
100	1	0.5	1	8	2	74	2	0.5
260	3	0.5	1	5	1	150	4	0.5
250	3	0.5	1	44	11	273	7	0.5
250	3	0.5	1	9	2	132	3	0.5
310	4	0.5	1	11	3	138	4	0.5
200	3	0.5	1	4	1	153	4	0.5
190	2	0.5	1	341	85	87	2	0.5
220	3	0.5	1	14	3	95	2	0.5
470	6	0.5	1	17	4	130	3	0.5
190	2	0.5	1	3	1	139	4	0.5
190	2	0.5	1	8	2	100	3	0.5
170	2	0.5	1	5	1	103	3	0.5
450	6	0.5	1	6	1	94	2	0.5
270	3	0.5	1	7	2	144	4	0.5
210	3	0.5	1	7	2	93	2	0.5
20	1	0.5	1	2	1	42	1	0.5
330	4	0.5	1	23	6	101	3	0.5
380	5	0.5	1	179	44	30	1	0.5
430	5	0.5	1	44	11	116	3	0.5
310	4	0.5	1	9	2	205	5	0.5
320	4	0.5	1	15	4	372	10	0.5
240	3	0.5	1	5	1	263	7	0.5
280	4	0.5	1	23	6	204	5	0.5
270	3	0.5	1	14	3	222	6	0.5
50	1	0.5	1	16	4	42	1	0.5
320	4	0.5	1	11	3	350	9	0.5
440	6	0.5	1	14	3	355	9	0.5
470	6	0.5	1	23	6	230	6	0.5
520	7	0.5	1	5	1	267	7	0.5
230	3	0.5	1	48	12	103	3	2
170	2	0.5	1	13	3	48	1	0.5
290	4	0.5	1	26	6	173	4	0.5
490	6	0.5	1	7	2	191	5	0.5
200	3	0.5	1	6	1	132	3	0.5
20	1	0.5	1	2	1	97	2	0.5
210	3	0.5	1	5	1	46	1	0.5
240	3	0.5	1	14	3	116	3	0.5
370	5	0.5	1	28	7	216	6	0.5
210	3	0.5	1	31	8	85	2	0.5
300	4	0.5	1	25	6	94	2	0.5
190	2	0.5	1	25	6	147	4	0.5
290	4	0.5	1	73	18	81	2	0.5
250	3	0.5	1	40	10	107	3	0.5
380	5	0.5	1	11	3	149	4	0.5
330	4	0.5	1	15	4	156	4	0.5
110	1	0.5	1	126	31	68	2	0.5
340	4	0.5	1	317	79	55	1	0.5
490	6	0.5	1	48	12	159	4	0.5
60	1	0.5	1	8	2	58	1	0.5
240	3	0.5	1	29	7	139	4	0.5
380	5	0.5	1	75	19	178	5	0.5

380	5	0.5	1	33	8	140	4	0.5
20	1	0.5	1	24	6	17	1	4
180	2	0.5	1	93	23	53	1	0.5
120	2	0.5	1	41	10	111	3	0.5
200	3	0.5	1	79	20	90	2	0.5
1520	19	0.5	1	28	7	68	2	1
130	2	0.5	1	168	42	28	1	0.5
30	1	0.5	1	17	4	46	1	0.5
250	3	0.5	1	100	25	58	1	0.5
140	2	0.5	1	6	1	91	2	0.5
160	2	0.5	1	43	11	33	1	0.5
500	6	0.5	1	155	38	59	2	5
200	3	0.5	1	85	21	50	1	0.5
140	2	0.5	1	49	12	25	1	0.5
480	6	0.5	1	10	2	72	2	0.5
90	1	0.5	1	31	8	32	1	0.5
90	1	0.5	1	19	5	115	3	0.5
140	2	0.5	1	38	9	174	4	0.5
420	5	0.5	1	20	5	64	2	0.5
250	3	0.5	1	14	3	81	2	0.5
250	3	0.5	1	12	3	120	3	1
350	4	0.5	1	181	45	41	1	0.5
60	1	0.5	1	4	1	178	5	0.5
220	3	0.5	1	74	18	144	4	0.5
230	3	0.5	1	11	3	100	3	4
200	3	0.5	1	57	14	135	3	0.5
350	4	0.5	1	48	12	105	3	0.5
250	3	0.5	1	21	5	62	2	0.5
430	5	0.5	1	40	10	109	3	0.5
170	2	0.5	1	5	1	28	1	0.5
220	3	0.5	1	41	10	66	2	0.5
170	2	0.5	1	25	6	56	1	1
60	1	0.5	1	215	53	11	1	0.5
80	1	0.5	1	16	4	104	3	1
120	2	0.5	1	13	3	79	2	0.5
120	2	0.5	1	9	2	102	3	1
150	2	0.5	1	29	7	159	4	0.5
230	3	0.5	1	20	5	47	1	0.5
260	3	0.5	1	24	6	119	3	0.5
280	4	0.5	1	7	2	297	8	0.5
430	5	0.5	1	14	3	205	5	0.5
170	2	0.5	1	220	55	130	3	0.5
510	6	0.5	1	159	39	188	5	0.5
580	7	0.5	1	14	3	248	6	0.5
310	4	0.5	1	6	1	323	8	0.5
680	9	0.5	1	33	8	236	6	2
220	3	0.5	1	38	9	149	4	0.5
150	2	0.5	1	21	5	141	4	0.5
280	4	0.5	1	7	2	57	1	0.5
340	4	0.5	1	14	3	112	3	0.5
250	3	0.5	1	4	1	158	4	0.5
30	1	0.5	1	3	1	173	4	0.5
420	5	0.5	1	5	1	350	9	0.5
210	3	0.5	1	6	1	259	7	0.5
250	3	0.5	1	16	4	174	4	0.5
290	4	0.5	1	33	8	59	2	0.5

40	1	0.5	1	3	1	132	3	0.5
250	3	0.5	1	9	2	159	4	0.5
390	5	0.5	1	13	3	256	7	0.5
90	1	0.5	1	16	4	63	2	0.5
240	3	0.5	1	4	1	106	3	0.5
70	1	0.5	1	5	1	92	2	0.5
280	4	0.5	1	7	2	90	2	0.5
140	2	0.5	1	8	2	52	1	0.5
130	2	0.5	1	52	13	213	5	0.5
230	3	0.5	1	140	35	37	1	0.5
210	3	0.5	1	15	4	58	1	0.5
80	1	0.5	1	40	10	23	1	0.5
180	2	0.5	1	11	3	146	4	0.5
260	3	0.5	1	2	1	43	1	0.5
140	2	0.5	1	28	7	57	1	0.5
380	5	0.5	1	102	25	76	2	0.5
80	1	0.5	1	9	2	97	2	1
470	6	0.5	1	22	5	205	5	0.5
190	2	0.5	1	27	7	104	3	0.5
340	4	0.5	1	20	5	142	4	0.5
340	4	0.5	1	48	12	142	4	0.5
380	5	0.5	1	10	2	196	5	0.5
250	3	0.5	1	60	15	149	4	2
200	3	0.5	1	108	27	49	1	0.5
160	2	0.5	1	45	11	113	3	0.5
270	3	0.5	1	17	4	128	3	0.5
250	3	0.5	1	24	6	70	2	0.5
110	1	0.5	1	2	1	305	8	0.5
200	3	0.5	1	23	6	47	1	0.5
260	3	0.5	1	26	6	110	3	0.5
100	1	0.5	1	10	2	36	1	0.5
260	3	0.5	1	17	4	120	3	0.5
270	3	0.5	1	8	2	92	2	0.5
290	4	0.5	1	14	3	92	2	0.5
260	3	0.5	1	26	6	50	1	0.5
310	4	0.5	1	29	7	134	3	0.5
100	1	0.5	1	127	32	122	3	3
220	3	0.5	1	9	2	57	1	0.5
230	3	0.5	1	38	9	52	1	1
200	3	0.5	1	23	6	96	2	0.5
140	2	0.5	1	3	1	110	3	0.5
260	3	0.5	1	10	2	110	3	0.5
290	4	0.5	1	11	3	143	4	0.5
250	3	0.5	1	11	3	66	2	0.5
50	1	0.5	1	94	23	15	1	0.5
180	2	0.5	1	9	2	156	4	0.5
170	2	0.5	1	96	24	49	1	0.5
90	1	0.5	1	96	24	59	2	0.5
190	2	0.5	1	44	11	74	2	1
280	4	0.5	1	133	33	66	2	0.5
310	4	0.5	1	19	5	13	1	2
450	6	0.5	1	25	6	175	5	1
80	1	0.5	1	13	3	73	2	0.5
190	2	0.5	1	32	8	103	3	1
720	9	0.5	1	22	5	119	3	0.5
260	3	0.5	1	16	4	156	4	0.5

10	1	0.5	1	7	2	48	1	0.5
190	2	0.5	1	164	41	37	1	0.5
260	3	0.5	1	7	2	161	4	0.5
230	3	0.5	1	11	3	27	1	0.5
70	1	0.5	1	25	6	41	1	0.5
450	6	0.5	1	14	3	161	4	0.5
250	3	0.5	1	66	16	86	2	0.5
390	5	0.5	1	11	3	175	5	0.5
110	1	0.5	1	32	8	102	3	0.5
120	2	0.5	1	516	128	86	2	0.5
190	2	0.5	1	13	3	119	3	0.5
250	3	0.5	1	215	53	86	2	0.5
100	1	0.5	1	61	15	132	3	0.5
170	2	0.5	1	148	37	73	2	0.5
200	3	1	2	141	35	107	3	1
370	5	0.5	1	195	48	90	2	0.5
30	1	0.5	1	29	7	2.5	1	0.5
190	2	0.5	1	101	25	55	1	0.5
70	1	0.5	1	20	5	65	2	0.5
30	1	0.5	1	10	2	147	4	0.5
200	3	0.5	1	23	6	222	6	0.5
100	1	0.5	1	6	1	111	3	0.5
180	2	0.5	1	41	10	164	4	0.5
290	4	0.5	1	51	13	93	2	0.5
130	2	0.5	1	23	6	195	5	0.5
120	2	0.5	1	26	6	60	2	0.5
180	2	0.5	1	12	3	201	5	0.5
140	2	0.5	1	105	26	50	1	0.5
250	3	0.5	1	125	31	118	3	2
220	3	0.5	1	88	22	137	4	0.5
350	4	0.5	1	178	44	46	1	2
170	2	0.5	1	18	4	64	2	2
40	1	0.5	1	105	26	71	2	0.5
140	2	0.5	1	23	6	106	3	0.5
60	1	0.5	1	94	23	76	2	0.5
150	2	0.5	1	21	5	83	2	0.5
80	1	0.5	1	1	1	2.5	1	2
40	1	0.5	1	5	1	181	5	0.5
130	2	0.5	1	18	4	42	1	0.5
160	2	2	4	75	19	111	3	2
80	1	0.5	1	87	22	82	2	0.5
50	1	0.5	1	9	2	51	1	0.5
200	3	0.5	1	16	4	152	4	0.5
100	1	0.5	1	284	70	39	1	0.5
80	1	0.5	1	97	24	53	1	0.5
80	1	0.5	1	294	73	49	1	0.5
200	3	0.5	1	17	4	196	5	0.5
120	2	0.5	1	13	3	110	3	0.5
230	3	0.5	1	21	5	141	4	0.5
340	4	0.5	1	30	7	328	8	0.5
190	2	0.5	1	63	16	120	3	0.5
160	2	0.5	1	28	7	133	3	0.5
180	2	0.5	1	28	7	145	4	0.5
140	2	0.5	1	17	4	142	4	0.5
80	1	0.5	1	4	1	144	4	0.5
170	2	0.5	1	26	6	28	1	0.5

20	1	0.5	1	2	1	101	3	0.5
260	3	0.5	1	6	1	146	4	1
320	4	0.5	1	11	3	71	2	3
310	4	0.5	1	11	3	85	2	0.5
150	2	0.5	1	23	6	159	4	0.5
200	3	0.5	1	34	8	95	2	1
270	3	0.5	1	59	15	60	2	2
140	2	0.5	1	20	5	50	1	1
300	4	0.5	1	7	2	62	2	1
240	3	0.5	1	7	2	181	5	1
450	6	0.5	1	6	1	104	3	2
80	1	0.5	1	7	2	119	3	2
40	1	0.5	1	12	3	128	3	2
130	2	0.5	1	11	3	104	3	2
50	1	0.5	1	10	2	79	2	4
580	7	0.5	1	46	11	67	2	5
460	6	0.5	1	65	16	45	1	22
200	3	0.5	1	31	8	13	1	11
1630	21	0.5	1	112	28	22	1	37
400	5	0.5	1	135	33	110	3	10
260	3	0.5	1	38	9	133	3	214
410	5	0.5	1	46	11	46	1	52
280	4	0.5	1	15	4	70	2	2
780	10	0.5	1	8	2	101	3	1
560	7	0.5	1	92	23	32	1	8
360	5	0.5	1	35	9	24	1	7
220	3	0.5	1	14	3	68	2	1
250	3	0.5	1	31	8	101	3	52
130	2	0.5	1	12	3	88	2	3
270	3	0.5	1	4	1	201	5	1
910	12	0.5	1	8	2	140	4	11
120	2	0.5	1	14	3	140	4	2
150	2	0.5	1	21	5	148	4	1
470	6	0.5	1	22	5	185	5	8
100	1	0.5	1	5	1	102	3	4
490	6	0.5	1	54	13	172	4	90
160	2	0.5	1	34	8	85	2	24
190	2	0.5	1	10	2	119	3	1
810	10	0.5	1	10	2	170	4	5
310	4	0.5	1	7	2	127	3	1
460	6	0.5	1	7	2	144	4	2
1260	16	0.5	1	13	3	116	3	2
780	10	0.5	1	16	4	137	4	3
440	6	0.5	1	10	2	97	2	1
790	10	0.5	1	10	2	158	4	3
240	3	0.5	1	18	4	131	3	1
260	3	0.5	1	12	3	108	3	0.5
20	1	0.5	1	4	1	87	2	1
20	1	0.5	1	3	1	87	2	1
220	3	0.5	1	19	5	98	3	2
5	1	0.5	1	0.5	1	71	2	0.5
100	1	0.5	1	14	3	30	1	3
230	3	0.5	1	14	3	67	2	1
230	3	0.5	1	6	1	148	4	0.5
50	1	0.5	1	7	2	59	2	1
100	1	0.5	1	2	1	73	2	0.5

30	1	0.5	1	8	2	56	1	1
100	1	0.5	1	4	1	52	1	0.5
70	1	0.5	1	8	2	62	2	3
1000	13	0.5	1	9	2	140	4	45
420	5	0.5	1	7	2	102	3	6
1410	18	0.5	1	9	2	118	3	11
480	6	0.5	1	10	2	124	3	2
270	3	0.5	1	12	3	198	5	1
240	3	0.5	1	18	4	107	3	4
250	3	0.5	1	19	5	73	2	10
180	2	0.5	1	7	2	158	4	0.5
170	2	0.5	1	11	3	123	3	0.5
230	3	0.5	1	7	2	106	3	0.5
120	2	0.5	1	4	1	119	3	0.5
190	2	0.5	1	6	1	187	5	1
300	4	0.5	1	11	3	140	4	1
250	3	0.5	1	6	1	153	4	1
480	6	0.5	1	17	4	181	5	1
610	8	0.5	1	6	1	104	3	0.5
890	11	0.5	1	14	3	145	4	1
14600	186	0.5	1	5	1	113	3	21
4480	57	0.5	1	11	3	63	2	29
200	3	0.5	1	24	6	25	1	1
250	3	0.5	1	12	3	134	3	1
330	4	0.5	1	5	1	199	5	0.5
80	1	0.5	1	5	1	78	2	1
200	3	0.5	1	22	5	111	3	1
90	1	0.5	1	20	5	84	2	1
150	2	0.5	1	28	7	88	2	2
100	1	0.5	1	10	2	51	1	1
160	2	0.5	1	63	16	44	1	2
30	1	0.5	1	2	1	44	1	1
350	4	0.5	1	11	3	139	4	1
1960	25	0.5	1	2	1	238	6	1
1500	19	0.5	1	5	1	143	4	2
640	8	0.5	1	11	3	123	3	7
210	3	0.5	1	12	3	170	4	2
190	2	0.5	1	13	3	67	2	1
190	2	0.5	1	8	2	119	3	1
180	2	0.5	1	8	2	110	3	1
130	2	0.5	1	4	1	116	3	0.5
120	2	0.5	1	5	1	45	1	0.5
120	2	0.5	1	8	2	56	1	0.5
170	2	0.5	1	19	5	125	3	0.5
190	2	0.5	1	3	1	105	3	0.5
180	2	0.5	1	6	1	64	2	0.5
250	3	0.5	1	15	4	68	2	0.5
340	4	0.5	1	34	8	158	4	4
1160	15	0.5	1	3	1	52	1	1
800	10	0.5	1	1	1	58	1	1
7140	91	0.5	1	7	2	116	3	2
200	3	0.5	1	6	1	75	2	4
210	3	0.5	1	9	2	95	2	1
60	1	0.5	1	29	7	37	1	1
60	1	0.5	1	5	1	35	1	1
400	5	0.5	1	62	15	83	2	2

90	1	0.5	1	33	8	28	1	2
120	2	0.5	1	19	5	75	2	0.5
210	3	0.5	1	10	2	82	2	0.5
230	3	0.5	1	14	3	67	2	0.5
140	2	0.5	1	9	2	85	2	0.5
230	3	0.5	1	6	1	87	2	0.5
450	6	0.5	1	4	1	59	2	3
660	8	0.5	1	3	1	97	2	2
560	7	0.5	1	2	1	27	1	60
1300	17	0.5	1	21	5	109	3	2
130	2	0.5	1	2	1	51	1	0.5
140	2	0.5	1	12	3	97	2	0.5
260	3	0.5	1	10	2	149	4	0.5
150	2	0.5	1	6	1	112	3	0.5
220	3	0.5	1	8	2	89	2	0.5
280	4	0.5	1	9	2	56	1	1
130	2	0.5	1	15	4	19	1	0.5
240	3	0.5	1	14	3	144	4	0.5
90	1	0.5	1	3	1	71	2	0.5
240	3	0.5	1	13	3	64	2	0.5
940	12	0.5	1	12	3	50	1	6
90	1	0.5	1	6	1	56	1	4
8430	107	0.5	1	22	5	122	3	38
1760	22	0.5	1	6	1	68	2	60
130	2	0.5	1	1	1	60	2	10
30	1	0.5	1	13	3	40	1	1
270	3	0.5	1	13	3	179	5	0.5
220	3	0.5	1	16	4	79	2	0.5
220	3	0.5	1	14	3	137	4	0.5
120	2	0.5	1	3	1	69	2	0.5
330	4	0.5	1	0.5	1	130	3	0.5
20	1	0.5	1	2	1	91	2	0.5
5	1	0.5	1	5	1	77	2	1
410	5	0.5	1	10	2	124	3	1
140	2	0.5	1	16	4	51	1	4
190	2	0.5	1	2	1	72	2	1
80	1	0.5	1	5	1	60	2	4
1420	18	0.5	1	4	1	36	1	69
90	1	0.5	1	0.5	1	44	1	4
4300	55	0.5	1	3	1	62	2	34
570	7	0.5	1	18	4	60	2	5
310	4	0.5	1	40	10	56	1	1
180	2	0.5	1	20	5	53	1	1
380	5	0.5	1	13	3	17	1	1
380	5	0.5	1	10	2	80	2	2
80	1	0.5	1	3	1	68	2	7
160	2	0.5	1	7	2	41	1	8
6540	83	0.5	1	29	7	101	3	5
50	1	0.5	1	6	1	110	3	14
930	12	0.5	1	4	1	95	2	13
1090	14	0.5	1	5	1	58	1	1
580	7	0.5	1	15	4	60	2	1
440	6	0.5	1	70	17	29	1	0.5
230	3	0.5	1	19	5	48	1	0.5
140	2	0.5	1	23	6	48	1	1
200	3	0.5	1	6	1	115	3	0.5

210	3	0.5	1	8	2	67	2	0.5
150	2	0.5	1	78	19	43	1	3
240	3	0.5	1	10	2	71	2	0.5
1540	20	0.5	1	5	1	82	2	4
490	6	0.5	1	10	2	44	1	3
860	11	0.5	1	9	2	41	1	14
260	3	0.5	1	18	4	70	2	1
200	3	0.5	1	25	6	31	1	0.5
360	5	0.5	1	4	1	54	1	0.5
210	3	0.5	1	14	3	33	1	0.5
400	5	0.5	1	25	6	7	1	0.5
320	4	0.5	1	18	4	20	1	0.5
90	1	0.5	1	4	1	36	1	0.5
420	5	0.5	1	2	1	8	1	0.5
110	1	0.5	1	0.5	1	116	3	0.5
260	3	0.5	1	11	3	50	1	0.5
910	12	0.5	1	8	2	11	1	92
390	5	0.5	1	14	3	49	1	1
110	1	0.5	1	2	1	13	1	0.5
360	5	0.5	1	16	4	95	2	4
180	2	0.5	1	14	3	124	3	0.5
170	2	0.5	1	63	16	71	2	1
90	1	0.5	1	91	23	24	1	0.5
230	3	0.5	1	5	1	46	1	0.5
140		0.5		7.75		57		0.5
79.25926		0.5		4.030928		38.88596		0.5

SbRR	Sc MMI-M5	ScRR	Sm MMI-M5	SmRR	Sn MMI-M5	SnRR	Sr MMI-M5	SrRR	
	5		1		1		10		
	PPB		PPB		PPB		PPB		
1	27		2	260	68	0.5	1	770	125
1	57		4	28	7	0.5	1	50	8
1	43		3	46	12	0.5	1	60	10
1	26		2	8	2	0.5	1	90	15
1	33		2	13	3	0.5	1	40	7
6	54		3	38	10	0.5	1	10	2
1	46		3	20	5	0.5	1	30	5
1	30		2	7	2	0.5	1	50	8
1	46		3	25	7	0.5	1	30	5
1	23		1	8	2	0.5	1	90	15
2	50		3	9	2	1	2	80	13
2	85		5	74	19	1	2	60	10
1	18		1	8	2	0.5	1	40	7
1	40		3	10	3	0.5	1	50	8
1	36		2	9	2	2	4	110	18
1	40		3	17	4	2	4	30	5
1	29		2	12	3	0.5	1	20	3
1	32		2	4	1	0.5	1	60	10
1	38		2	7	2	0.5	1	50	8
1	25		2	8	2	0.5	1	90	15
1	37		2	16	4	0.5	1	40	7
1	49		3	14	4	2	4	150	24
1	31		2	23	6	1	2	270	44
1	38		2	14	4	0.5	1	20	3
1	30		2	19	5	0.5	1	5	1
1	74		5	194	50	0.5	1	620	101
1	25		2	6	2	0.5	1	110	18
1	21		1	12	3	0.5	1	30	5
1	33		2	95	25	0.5	1	10	2
1	16		1	3	1	0.5	1	50	8
1	52		3	55	14	0.5	1	20	3
1	21		1	6	2	0.5	1	60	10
1	357		23	407	106	1	2	570	93
1	26		2	7	2	0.5	1	60	10
1	24		2	15	4	0.5	1	10	2
1	23		1	11	3	0.5	1	50	8
1	31		2	23	6	0.5	1	170	28
1	35		2	7	2	2	4	80	13
1	44		3	58	15	0.5	1	100	16
4	22		1	9	2	3	6	40	7
1	19		1	8	2	0.5	1	70	11
1	32		2	3	1	0.5	1	90	15
16	36		2	35	9	2	4	550	90
1	18		1	8	2	0.5	1	70	11
6	74		5	92	24	0.5	1	310	50
1	41		3	38	10	0.5	1	120	20
1	23		1	7	2	0.5	1	10	2
1	19		1	4	1	0.5	1	10	2
1	32		2	47	12	0.5	1	280	46
4	55		4	45	12	3	6	300	49
4	63		4	151	39	1	2	450	73
6	39		3	30	8	1	2	1040	169

1	21	1	50	13	0.5	1	750	122
2	30	2	53	14	0.5	1	390	63
2	48	3	30	8	0.5	1	230	37
1	21	1	22	6	0.5	1	20	3
1	22	1	8	2	0.5	1	30	5
1	25	2	8	2	0.5	1	40	7
1	21	1	5	1	0.5	1	40	7
1	51	3	36	9	0.5	1	70	11
1	22	1	9	2	0.5	1	10	2
1	24	2	11	3	0.5	1	60	10
1	22	1	4	1	0.5	1	40	7
1	56	4	222	58	1	2	390	63
1	35	2	12	3	0.5	1	110	18
1	41	3	14	4	2	4	80	13
1	22	1	3	1	0.5	1	20	3
1	26	2	7	2	0.5	1	10	2
1	27	2	6	2	0.5	1	5	1
1	26	2	7	2	0.5	1	20	3
1	24	2	7	2	0.5	1	40	7
1	21	1	6	2	0.5	1	20	3
1	12	1	1	1	0.5	1	230	37
1	64	4	18	5	8	16	90	15
1	56	4	124	32	3	6	250	41
1	58	4	46	12	0.5	1	5	1
1	45	3	10	3	0.5	1	190	31
1	46	3	16	4	0.5	1	5	1
1	42	3	5	1	0.5	1	5	1
1	39	3	19	5	0.5	1	80	13
1	42	3	13	3	2	4	200	33
1	44	3	13	3	1	2	50	8
1	35	2	13	3	0.5	1	5	1
1	44	3	14	4	0.5	1	50	8
1	48	3	20	5	0.5	1	60	10
1	30	2	7	2	0.5	1	5	1
4	53	3	47	12	0.5	1	5	1
1	15	1	14	4	0.5	1	220	36
1	32	2	25	7	0.5	1	5	1
1	25	2	8	2	0.5	1	5	1
1	38	2	7	2	2	4	550	90
1	18	1	2	1	2	4	60	10
1	39	3	6	2	0.5	1	5	1
1	38	2	17	4	0.5	1	5	1
1	41	3	27	7	0.5	1	30	5
1	33	2	27	7	0.5	1	130	21
1	45	3	28	7	0.5	1	5	1
1	42	3	23	6	0.5	1	5	1
1	58	4	62	16	0.5	1	50	8
1	36	2	41	11	0.5	1	20	3
1	31	2	11	3	0.5	1	50	8
1	32	2	15	4	0.5	1	340	55
1	58	4	104	27	0.5	1	5	1
1	90	6	224	58	2	4	90	15
1	75	5	48	12	0.5	1	5	1
1	35	2	7	2	0.5	1	5	1
1	63	4	31	8	0.5	1	5	1
1	58	4	64	17	0.5	1	60	10

1	63	4	33	9	0.5	1	30	5
8	29	2	24	6	0.5	1	500	81
1	74	5	71	18	1	2	40	7
1	49	3	34	9	0.5	1	50	8
1	44	3	63	16	0.5	1	170	28
2	61	4	27	7	2	4	260	42
1	12	1	166	43	0.5	1	920	150
1	37	2	11	3	1	2	80	13
1	75	5	93	24	0.5	1	10	2
1	32	2	6	2	1	2	160	26
1	14	1	30	8	0.5	1	820	133
10	57	4	95	25	0.5	1	670	109
1	41	3	77	20	0.5	1	360	59
1	34	2	41	11	0.5	1	140	23
1	47	3	10	3	1	2	110	18
1	13	1	36	9	0.5	1	810	132
1	31	2	16	4	0.5	1	340	55
1	45	3	32	8	0.5	1	5	1
1	33	2	16	4	0.5	1	40	7
1	38	2	13	3	0.5	1	20	3
2	33	2	13	3	0.5	1	40	7
1	31	2	131	34	0.5	1	5	1
1	34	2	4	1	0.5	1	5	1
1	34	2	66	17	0.5	1	110	18
8	52	3	8	2	8	16	320	52
1	29	2	42	11	0.5	1	70	11
1	57	4	40	10	1	2	100	16
1	39	3	21	5	0.5	1	5	1
1	66	4	39	10	2	4	140	23
1	27	2	5	1	3	6	40	7
1	32	2	36	9	0.5	1	30	5
2	43	3	24	6	2	4	120	20
1	76	5	213	55	0.5	1	2850	464
2	65	4	11	3	7	14	240	39
1	42	3	12	3	0.5	1	50	8
2	23	1	8	2	0.5	1	5	1
1	36	2	24	6	1	2	380	62
1	18	1	24	6	0.5	1	230	37
1	32	2	21	5	1	2	930	151
1	42	3	8	2	2	4	270	44
1	44	3	14	4	0.5	1	130	21
1	64	4	185	48	0.5	1	40	7
1	82	5	115	30	1	2	910	148
1	70	4	14	4	4	8	110	18
1	33	2	6	2	1	2	90	15
4	134	9	30	8	6	12	340	55
1	37	2	40	10	0.5	1	30	5
1	62	4	20	5	0.5	1	110	18
1	18	1	7	2	0.5	1	5	1
1	40	3	15	4	0.5	1	30	5
1	28	2	4	1	0.5	1	5	1
1	17	1	2	1	0.5	1	60	10
1	31	2	4	1	2	4	5	1
1	20	1	6	2	0.5	1	60	10
1	22	1	17	4	0.5	1	5	1
1	40	3	32	8	0.5	1	5	1

1	30	2	4	1	0.5	1	60	10
1	12	1	10	3	0.5	1	10	2
1	62	4	14	4	0.5	1	50	8
1	51	3	18	5	0.5	1	5	1
1	21	1	5	1	0.5	1	30	5
1	25	2	4	1	0.5	1	5	1
1	29	2	6	2	1	2	90	15
1	29	2	7	2	2	4	5	1
1	58	4	55	14	0.5	1	5	1
1	82	5	124	32	0.5	1	5	1
1	27	2	17	4	0.5	1	5	1
1	24	2	34	9	0.5	1	180	29
1	36	2	11	3	0.5	1	50	8
1	15	1	2	1	0.5	1	5	1
1	45	3	24	6	1	2	120	20
1	68	4	85	22	0.5	1	330	54
2	24	2	8	2	1	2	160	26
1	26	2	18	5	0.5	1	70	11
1	42	3	26	7	2	4	5	1
1	63	4	21	5	4	8	110	18
1	64	4	44	11	0.5	1	5	1
1	20	1	12	3	0.5	1	5	1
4	63	4	52	14	0.5	1	20	3
1	41	3	105	27	0.5	1	50	8
1	39	3	51	13	0.5	1	5	1
1	48	3	18	5	0.5	1	20	3
1	34	2	21	5	2	4	20	3
1	21	1	2	1	0.5	1	50	8
1	43	3	20	5	0.5	1	30	5
1	37	2	26	7	0.5	1	5	1
1	14	1	9	2	0.5	1	90	15
1	40	3	17	4	0.5	1	5	1
1	42	3	9	2	0.5	1	80	13
1	41	3	18	5	0.5	1	5	1
1	27	2	26	7	0.5	1	320	52
1	34	2	29	8	0.5	1	80	13
6	35	2	84	22	0.5	1	260	42
1	25	2	7	2	0.5	1	60	10
2	23	1	26	7	0.5	1	820	133
1	39	3	23	6	0.5	1	5	1
1	16	1	3	1	0.5	1	160	26
1	17	1	10	3	0.5	1	100	16
1	22	1	11	3	0.5	1	80	13
1	31	2	12	3	0.5	1	5	1
1	17	1	60	16	0.5	1	480	78
1	18	1	10	3	0.5	1	150	24
1	67	4	89	23	2	4	30	5
1	17	1	75	20	0.5	1	810	132
2	60	4	33	9	2	4	60	10
1	70	4	102	27	2	4	80	13
4	21	1	15	4	3	6	60	10
2	44	3	23	6	0.5	1	70	11
1	39	3	11	3	1	2	5	1
2	48	3	29	8	0.5	1	10	2
1	35	2	23	6	0.5	1	5	1
1	30	2	17	4	0.5	1	5	1

1	20	1	5	1	0.5	1	70	11
1	57	4	123	32	0.5	1	230	37
1	27	2	7	2	0.5	1	50	8
1	14	1	10	3	0.5	1	1720	280
1	28	2	19	5	0.5	1	140	23
1	53	3	14	4	0.5	1	70	11
1	75	5	53	14	2	4	30	5
1	21	1	12	3	0.5	1	270	44
1	23	1	23	6	0.5	1	30	5
1	89	6	404	105	0.5	1	320	52
1	29	2	12	3	0.5	1	140	23
1	100	6	180	47	0.5	1	590	96
1	41	3	43	11	2	4	90	15
1	48	3	110	29	0.5	1	410	67
2	88	6	89	23	3	6	220	36
1	94	6	123	32	3	6	70	11
1	2.5	1	20	5	0.5	1	1200	195
1	44	3	79	21	0.5	1	120	20
1	34	2	15	4	4	8	120	20
1	22	1	8	2	0.5	1	50	8
1	28	2	21	5	0.5	1	190	31
1	30	2	6	2	3	6	100	16
1	41	3	31	8	2	4	20	3
1	49	3	39	10	3	6	140	23
1	19	1	20	5	0.5	1	10	2
1	36	2	21	5	1	2	70	11
1	23	1	11	3	0.5	1	20	3
1	55	4	75	20	1	2	80	13
4	65	4	75	20	4	8	170	28
1	53	3	80	21	0.5	1	70	11
4	45	3	117	30	0.5	1	350	57
4	30	2	16	4	0.5	1	50	8
1	22	1	68	18	0.5	1	730	119
1	24	2	19	5	0.5	1	60	10
1	12	1	57	15	0.5	1	530	86
1	25	2	16	4	1	2	160	26
4	2.5	1	2	1	0.5	1	1440	234
1	24	2	4	1	0.5	1	140	23
1	24	2	17	4	0.5	1	130	21
4	50	3	51	13	3	6	180	29
1	69	4	67	17	2	4	430	70
1	36	2	8	2	0.5	1	310	50
1	35	2	15	4	0.5	1	40	7
1	50	3	180	47	0.5	1	340	55
1	16	1	73	19	0.5	1	830	135
1	57	4	172	45	0.5	1	1130	184
1	37	2	16	4	0.5	1	150	24
1	27	2	11	3	0.5	1	80	13
1	29	2	17	4	0.5	1	90	15
1	27	2	25	7	0.5	1	70	11
1	33	2	44	11	0.5	1	70	11
1	29	2	25	7	1	2	40	7
1	22	1	21	5	0.5	1	40	7
1	24	2	14	4	0.5	1	10	2
1	24	2	4	1	1	2	160	26
1	36	2	20	5	0.5	1	30	5

1	32	2	1	1	0.5	1	120	20
2	46	3	6	2	1	2	80	13
6	52	3	11	3	0.5	1	20	3
1	45	3	11	3	0.5	1	60	10
1	56	4	20	5	0.5	1	5	1
2	58	4	34	9	0.5	1	20	3
4	71	5	45	12	1	2	220	36
2	37	2	16	4	1	2	50	8
2	35	2	6	2	0.5	1	30	5
2	38	2	6	2	0.5	1	5	1
4	55	4	4	1	2	4	180	29
4	56	4	5	1	6	12	80	13
4	36	2	10	3	0.5	1	340	55
4	35	2	9	2	0.5	1	190	31
8	37	2	7	2	1	2	630	103
10	42	3	32	8	1	2	480	78
44	71	5	47	12	0.5	1	120	20
22	35	2	27	7	0.5	1	1050	171
74	81	5	95	25	0.5	1	1080	176
20	67	4	94	24	0.5	1	570	93
428	20	1	31	8	0.5	1	430	70
104	24	2	38	10	0.5	1	440	72
4	55	4	11	3	4	8	260	42
2	33	2	10	3	0.5	1	230	37
16	146	9	80	21	0.5	1	490	80
14	58	4	27	7	0.5	1	130	21
2	25	2	12	3	0.5	1	60	10
104	39	3	23	6	3	6	270	44
6	35	2	10	3	2	4	80	13
2	23	1	4	1	0.5	1	170	28
22	25	2	7	2	0.5	1	420	68
4	49	3	11	3	0.5	1	80	13
2	35	2	19	5	0.5	1	100	16
16	51	3	16	4	4	8	260	42
8	27	2	3	1	0.5	1	180	29
180	13	1	42	11	0.5	1	670	109
48	34	2	21	5	3	6	360	59
2	37	2	10	3	0.5	1	130	21
10	42	3	8	2	1	2	110	18
2	32	2	8	2	0.5	1	120	20
4	32	2	6	2	0.5	1	10	2
4	24	2	15	4	0.5	1	30	5
6	32	2	16	4	0.5	1	20	3
2	27	2	10	3	0.5	1	240	39
6	46	3	9	2	3	6	150	24
2	38	2	17	4	0.5	1	5	1
1	31	2	11	3	0.5	1	120	20
2	14	1	3	1	0.5	1	70	11
2	14	1	2	1	1	2	40	7
4	52	3	16	4	3	6	5	1
1	17	1	0.5	1	0.5	1	40	7
6	35	2	11	3	2	4	20	3
2	34	2	11	3	0.5	1	20	3
1	25	2	5	1	0.5	1	40	7
2	58	4	6	2	3	6	60	10
1	34	2	1	1	0.5	1	30	5

2	20	1	6	2	0.5	1	50	8
1	18	1	3	1	0.5	1	180	29
6	12	1	6	2	0.5	1	370	60
90	64	4	8	2	8	16	300	49
12	48	3	6	2	5	10	120	20
22	45	3	8	2	4	8	270	44
4	17	1	9	2	0.5	1	50	8
2	26	2	11	3	0.5	1	170	28
8	30	2	15	4	0.5	1	180	29
20	28	2	17	4	0.5	1	120	20
1	31	2	7	2	0.5	1	310	50
1	31	2	11	3	0.5	1	30	5
1	31	2	7	2	0.5	1	20	3
1	24	2	4	1	0.5	1	80	13
2	27	2	6	2	0.5	1	20	3
2	32	2	10	3	0.5	1	40	7
2	29	2	6	2	0.5	1	50	8
2	25	2	13	3	0.5	1	160	26
1	29	2	7	2	0.5	1	5	1
2	29	2	13	3	0.5	1	10	2
42	25	2	7	2	0.5	1	5	1
58	22	1	12	3	0.5	1	240	39
2	19	1	15	4	0.5	1	800	130
2	29	2	13	3	0.5	1	60	10
1	23	1	5	1	0.5	1	290	47
2	20	1	4	1	0.5	1	30	5
2	38	2	20	5	0.5	1	5	1
2	29	2	14	4	0.5	1	40	7
4	41	3	22	6	2	4	10	2
2	28	2	8	2	0.5	1	10	2
4	55	4	46	12	2	4	5	1
2	17	1	2	1	2	4	90	15
2	25	2	9	2	0.5	1	5	1
2	24	2	2	1	1	2	390	63
4	33	2	5	1	1	2	50	8
14	32	2	10	3	0.5	1	5	1
4	30	2	11	3	1	2	60	10
2	38	2	13	3	0.5	1	5	1
2	21	1	8	2	0.5	1	170	28
2	26	2	8	2	0.5	1	140	23
1	18	1	4	1	0.5	1	90	15
1	27	2	6	2	0.5	1	110	18
1	23	1	8	2	0.5	1	30	5
1	32	2	21	5	0.5	1	30	5
1	13	1	3	1	0.5	1	50	8
1	17	1	7	2	0.5	1	10	2
1	32	2	15	4	0.5	1	90	15
8	26	2	31	8	0.5	1	220	36
2	21	1	4	1	0.5	1	30	5
2	7	1	0.5	1	0.5	1	60	10
4	25	2	7	2	0.5	1	10	2
8	16	1	5	1	0.5	1	20	3
2	24	2	8	2	1	2	150	24
2	18	1	20	5	0.5	1	150	24
2	18	1	3	1	0.5	1	10	2
4	51	3	41	11	0.5	1	310	50

4	45	3	21	5	1	2	150	24
1	26	2	14	4	0.5	1	30	5
1	20	1	9	2	0.5	1	5	1
1	25	2	13	3	0.5	1	5	1
1	22	1	8	2	0.5	1	30	5
1	21	1	7	2	0.5	1	10	2
6	6	1	4	1	0.5	1	40	7
4	9	1	3	1	0.5	1	5	1
120	18	1	2	1	0.5	1	40	7
4	34	2	18	5	0.5	1	5	1
1	10	1	2	1	0.5	1	160	26
1	17	1	11	3	0.5	1	70	11
1	17	1	11	3	0.5	1	90	15
1	9	1	6	2	0.5	1	150	24
1	20	1	9	2	0.5	1	5	1
2	41	3	8	2	2	4	40	7
1	30	2	12	3	0.5	1	5	1
1	23	1	15	4	0.5	1	5	1
1	15	1	3	1	0.5	1	80	13
1	25	2	13	3	0.5	1	5	1
12	16	1	12	3	0.5	1	80	13
8	14	1	5	1	0.5	1	180	29
76	43	3	26	7	0.5	1	5	1
120	16	1	4	1	1	2	70	11
20	11	1	0.5	1	0.5	1	80	13
2	13	1	8	2	0.5	1	220	36
1	25	2	13	3	0.5	1	240	39
1	25	2	17	4	0.5	1	5	1
1	23	1	13	3	0.5	1	330	54
1	11	1	3	1	0.5	1	20	3
1	15	1	0.5	1	0.5	1	5	1
1	6	1	1	1	0.5	1	5	1
2	11	1	4	1	0.5	1	5	1
2	31	2	10	3	0.5	1	40	7
8	19	1	11	3	0.5	1	90	15
2	32	2	2	1	0.5	1	200	33
8	19	1	4	1	0.5	1	5	1
138	18	1	3	1	5	10	30	5
8	10	1	0.5	1	0.5	1	180	29
68	24	2	3	1	0.5	1	50	8
10	26	2	17	4	0.5	1	180	29
2	33	2	41	11	0.5	1	80	13
2	43	3	17	4	0.5	1	5	1
2	9	1	14	4	0.5	1	90	15
4	63	4	8	2	12	24	260	42
14	12	1	3	1	0.5	1	210	34
16	12	1	6	2	0.5	1	40	7
10	44	3	43	11	0.5	1	5	1
28	22	1	5	1	0.5	1	5	1
26	19	1	4	1	0.5	1	5	1
2	20	1	4	1	0.5	1	200	33
2	39	3	19	5	0.5	1	280	46
1	34	2	67	17	0.5	1	760	124
1	13	1	18	5	0.5	1	90	15
2	25	2	20	5	0.5	1	10	2
1	16	1	6	2	0.5	1	5	1

1	12	1	8	2	0.5	1	50	8
6	28	2	58	15	0.5	1	80	13
1	11	1	11	3	0.5	1	190	31
8	14	1	4	1	0.5	1	20	3
6	52	3	9	2	8	16	120	20
28	26	2	10	3	0.5	1	5	1
2	8	1	18	5	0.5	1	460	75
1	22	1	22	6	0.5	1	5	1
1	23	1	4	1	0.5	1	60	10
1	21	1	16	4	0.5	1	210	34
1	16	1	33	9	0.5	1	340	55
1	8	1	21	5	0.5	1	590	96
1	12	1	5	1	0.5	1	150	24
1	8	1	2	1	0.5	1	60	10
1	10	1	0.5	1	0.5	1	70	11
1	23	1	13	3	0.5	1	5	1
184	30	2	7	2	1	2	150	24
2	16	1	15	4	0.5	1	5	1
1	14	1	1	1	0.5	1	60	10
8	18	1	13	3	1	2	10	2
1	15	1	15	4	0.5	1	10	2
2	19	1	51	13	0.5	1	300	49
1	24	2	87	23	0.5	1	370	60
1	17	1	5	1	0.5	1	410	67
	22		7		0.5		20	
	15.59633		3.87		0.5		6.105769	

Ta MMI-M5	TaRR	Tb MMI-M5	TbRR	Te MMI-M5	TeRR	Th MMI-M5	ThRR	Ti MMI-M5
1		1		10		0.5		3
PPB		PPB		PPB		PPB		PPB
0.5	1	30	60	5	1	36.2	7	1670
0.5	1	5	10	5	1	41.6	8	1490
0.5	1	6	12	5	1	33.8	6	1640
0.5	1	1	2	5	1	14.2	3	1330
0.5	1	3	6	5	1	10.6	2	1130
0.5	1	5	10	5	1	16.4	3	1200
0.5	1	4	8	5	1	8.2	1	77
0.5	1	1	2	5	1	6.6	1	647
0.5	1	4	8	5	1	20.1	4	758
0.5	1	2	4	5	1	9.5	2	538
0.5	1	1	2	5	1	33.4	6	1910
0.5	1	9	18	5	1	55.8	10	5110
0.5	1	1	2	5	1	6.8	1	481
0.5	1	1	2	5	1	26.8	5	1820
0.5	1	1	2	5	1	18.2	3	3540
0.5	1	3	6	5	1	12.8	2	4390
0.5	1	3	6	5	1	19.2	3	656
0.5	1	1	2	5	1	10	2	1860
0.5	1	2	4	5	1	7	1	832
0.5	1	2	4	5	1	8.1	1	535
0.5	1	3	6	5	1	23.9	4	812
0.5	1	2	4	5	1	13	2	4520
0.5	1	3	6	5	1	16.3	3	1860
0.5	1	2	4	5	1	15.8	3	624
0.5	1	4	8	5	1	6.5	1	94
0.5	1	22	44	5	1	41.9	8	735
0.5	1	1	2	5	1	10.7	2	1130
0.5	1	2	4	5	1	5.5	1	681
0.5	1	11	22	5	1	10.2	2	197
0.5	1	0.5	1	5	1	4.3	1	1650
0.5	1	8	16	5	1	11.5	2	234
0.5	1	1	2	5	1	9.5	2	2630
2	4	53	106	5	1	71.8	13	7130
0.5	1	1	2	5	1	5.8	1	581
0.5	1	2	4	5	1	5.8	1	110
0.5	1	2	4	5	1	5.7	1	275
0.5	1	3	6	5	1	8	1	1120
0.5	1	1	2	5	1	11.9	2	5320
0.5	1	8	16	5	1	15	3	486
0.5	1	1	2	5	1	7.4	1	4440
0.5	1	1	2	5	1	13.4	2	1320
0.5	1	0.5	1	5	1	11.2	2	607
0.5	1	4	8	5	1	36	7	3030
0.5	1	2	4	5	1	12.3	2	489
0.5	1	12	24	5	1	49.8	9	1400
1	2	5	10	5	1	24.8	5	2470
0.5	1	2	4	5	1	5.6	1	315
0.5	1	0.5	1	5	1	5.4	1	196
0.5	1	6	12	5	1	39.3	7	1190
3	6	5	10	5	1	123	22	7310
1	2	16	32	5	1	106	19	3570
1	2	4	8	5	1	36.1	7	4090

0.5	1	6	12	5	1	18.4	3	207
0.5	1	6	12	5	1	43.2	8	1570
0.5	1	5	10	5	1	31.6	6	1210
0.5	1	3	6	5	1	10	2	370
0.5	1	2	4	5	1	9.4	2	666
0.5	1	1	2	5	1	6.7	1	2480
0.5	1	1	2	5	1	7.1	1	533
0.5	1	5	10	5	1	39.7	7	2340
0.5	1	2	4	5	1	8.4	2	369
0.5	1	2	4	5	1	8.7	2	395
0.5	1	1	2	5	1	6.1	1	1210
0.5	1	23	46	5	1	70.3	13	2520
0.5	1	2	4	5	1	14.7	3	1710
0.5	1	2	4	5	1	21.7	4	3670
0.5	1	0.5	1	5	1	3.6	1	186
0.5	1	1	2	5	1	5.4	1	225
0.5	1	1	2	5	1	4.3	1	192
0.5	1	2	4	5	1	7.8	1	333
0.5	1	1	2	5	1	5	1	295
0.5	1	1	2	5	1	2.7	1	461
0.5	1	0.5	1	5	1	5.7	1	534
3	6	3	6	5	1	19.8	4	13600
4	8	13	26	5	1	136	25	4100
0.5	1	6	12	5	1	31.4	6	960
0.5	1	2	4	5	1	16.8	3	1700
0.5	1	3	6	5	1	20	4	2160
0.5	1	1	2	5	1	8.1	1	670
0.5	1	3	6	5	1	29.3	5	1870
0.5	1	2	4	5	1	10.8	2	4100
0.5	1	2	4	5	1	16.2	3	5000
0.5	1	3	6	5	1	6.3	1	794
0.5	1	3	6	5	1	15.4	3	1050
0.5	1	3	6	5	1	32.6	6	2270
0.5	1	2	4	5	1	5.9	1	264
0.5	1	6	12	5	1	32.9	6	697
0.5	1	3	6	5	1	5.3	1	724
0.5	1	4	8	5	1	14.7	3	1750
0.5	1	2	4	5	1	11.1	2	961
0.5	1	1	2	5	1	8.1	1	5420
0.5	1	0.5	1	5	1	5.8	1	4020
0.5	1	2	4	5	1	13.2	2	825
0.5	1	4	8	5	1	10	2	418
0.5	1	5	10	5	1	45.6	8	1110
0.5	1	4	8	5	1	12.6	2	1610
0.5	1	5	10	5	1	18.8	3	1170
0.5	1	4	8	5	1	13	2	1040
0.5	1	8	16	5	1	85.5	16	4990
0.5	1	6	12	5	1	11.9	2	548
0.5	1	2	4	5	1	12.1	2	1240
0.5	1	3	6	5	1	16.5	3	861
0.5	1	12	24	5	1	16.2	3	174
2	4	24	48	5	1	106	19	6670
0.5	1	7	14	5	1	14.8	3	2240
0.5	1	0.5	1	5	1	18.5	3	654
0.5	1	5	10	5	1	21.3	4	913
0.5	1	8	16	5	1	30.6	6	2140

0.5	1	5	10	5	1	37	7	1080
0.5	1	3	6	5	1	4.6	1	613
0.5	1	8	16	5	1	61.4	11	3860
0.5	1	5	10	5	1	46	8	3480
0.5	1	7	14	5	1	31.7	6	1330
0.5	1	4	8	5	1	27.1	5	3800
0.5	1	17	34	5	1	19.2	3	4
0.5	1	2	4	5	1	20.3	4	3790
0.5	1	11	22	5	1	55.4	10	2610
0.5	1	1	2	5	1	6.8	1	4280
0.5	1	3	6	5	1	19.5	4	644
0.5	1	9	18	5	1	97.5	18	818
0.5	1	10	20	5	1	27.3	5	754
0.5	1	5	10	5	1	26.7	5	1180
0.5	1	2	4	5	1	17.9	3	2610
0.5	1	6	12	5	1	6.4	1	113
0.5	1	2	4	5	1	12.5	2	2420
0.5	1	4	8	5	1	11.3	2	1640
0.5	1	3	6	5	1	23	4	828
0.5	1	2	4	5	1	12.2	2	1890
0.5	1	2	4	5	1	24.5	4	1130
0.5	1	14	28	5	1	27.8	5	112
0.5	1	0.5	1	5	1	3.9	1	19
0.5	1	8	16	5	1	8.4	2	154
2	4	1	2	5	1	31.4	6	14000
0.5	1	4	8	5	1	11.8	2	389
0.5	1	5	10	5	1	43.2	8	2000
0.5	1	3	6	5	1	11.6	2	821
0.5	1	7	14	5	1	32.5	6	3230
1	2	0.5	1	5	1	10.2	2	6600
0.5	1	5	10	5	1	19.2	3	998
0.5	1	3	6	5	1	36.6	7	3220
0.5	1	22	44	5	1	36.5	7	7
2	4	2	4	5	1	23.3	4	12400
0.5	1	2	4	5	1	16.1	3	1520
0.5	1	1	2	5	1	17.3	3	664
0.5	1	3	6	5	1	27.4	5	2860
0.5	1	4	8	5	1	21.2	4	356
0.5	1	3	6	5	1	24.6	4	3920
0.5	1	2	4	5	1	7.2	1	5600
0.5	1	3	6	5	1	24.4	4	3200
0.5	1	20	40	5	1	48.7	9	2000
0.5	1	13	26	5	1	92.3	17	3620
2	4	3	6	5	1	25.5	5	9820
0.5	1	2	4	5	1	9.6	2	3630
3	6	5	10	5	1	39.3	7	15700
0.5	1	6	12	5	1	33.8	6	687
0.5	1	4	8	5	1	31.2	6	2220
0.5	1	2	4	5	1	5.3	1	1210
0.5	1	3	6	5	1	23.3	4	1390
0.5	1	1	2	5	1	6.9	1	1260
0.5	1	0.5	1	5	1	3.5	1	580
0.5	1	0.5	1	5	1	12.6	2	4700
0.5	1	1	2	5	1	8.6	2	222
0.5	1	3	6	5	1	12	2	272
0.5	1	4	8	5	1	17.6	3	1090

0.5	1	0.5	1	5	1	6.8	1	569
0.5	1	2	4	5	1	3.1	1	22
0.5	1	2	4	5	1	16.8	3	1530
0.5	1	3	6	5	1	19	3	1200
0.5	1	1	2	5	1	5.1	1	400
0.5	1	0.5	1	5	1	9.3	2	1390
0.5	1	0.5	1	5	1	28	5	3150
0.5	1	1	2	5	1	12.7	2	4060
0.5	1	9	18	5	1	9.7	2	136
0.5	1	17	34	5	1	20.5	4	754
0.5	1	3	6	5	1	9.1	2	121
0.5	1	4	8	5	1	22.3	4	613
0.5	1	2	4	5	1	12.8	2	965
0.5	1	0.5	1	5	1	6.7	1	84
0.5	1	4	8	5	1	29.7	5	1730
0.5	1	11	22	5	1	62.4	11	1230
0.5	1	1	2	5	1	26.5	5	3290
0.5	1	3	6	5	1	32.6	6	850
0.5	1	4	8	5	1	15.5	3	4770
2	4	4	8	5	1	19.5	4	10000
0.5	1	6	12	5	1	21.8	4	1580
0.5	1	2	4	5	1	10.8	2	360
0.5	1	7	14	5	1	37.9	7	1600
0.5	1	16	32	5	1	19.9	4	265
0.5	1	7	14	5	1	24.7	4	586
0.5	1	3	6	5	1	15.9	3	1690
0.5	1	3	6	5	1	18.1	3	4550
0.5	1	0.5	1	5	1	5.8	1	769
0.5	1	3	6	5	1	32	6	2650
0.5	1	3	6	5	1	6.6	1	492
0.5	1	2	4	5	1	16.5	3	1790
0.5	1	3	6	5	1	18.2	3	712
0.5	1	2	4	5	1	14.6	3	3170
0.5	1	3	6	5	1	16.4	3	594
0.5	1	4	8	5	1	29.9	5	1880
1	2	5	10	5	1	27.3	5	2350
0.5	1	9	18	5	1	47.6	9	1090
0.5	1	1	2	5	1	22.3	4	1790
0.5	1	3	6	5	1	29.2	5	2610
0.5	1	4	8	5	1	9.1	2	97
0.5	1	0.5	1	5	1	8.1	1	2590
0.5	1	2	4	5	1	6	1	267
0.5	1	2	4	5	1	6.1	1	179
0.5	1	2	4	5	1	14.2	3	476
0.5	1	6	12	5	1	33.8	6	597
0.5	1	2	4	5	1	4.2	1	423
0.5	1	12	24	5	1	45.7	8	5760
0.5	1	7	14	5	1	36.4	7	1010
1	2	5	10	5	1	21.8	4	6780
1	2	11	22	5	1	91.8	17	7870
0.5	1	2	4	5	1	29.7	5	10600
0.5	1	4	8	5	1	23.7	4	1230
0.5	1	2	4	5	1	13.5	2	4710
0.5	1	4	8	5	1	42.9	8	2300
0.5	1	4	8	5	1	26.4	5	1280
0.5	1	3	6	5	1	8.1	1	294

0.5	1	0.5	1	5	1	10.9	2	1860
0.5	1	14	28	5	1	29	5	637
0.5	1	1	2	5	1	12.7	2	708
0.5	1	1	2	5	1	6.2	1	574
0.5	1	3	6	5	1	25.6	5	2240
0.5	1	3	6	5	1	32	6	2940
2	4	6	12	5	1	76.9	14	10800
0.5	1	2	4	5	1	16.6	3	1170
0.5	1	3	6	5	1	2.2	1	184
0.5	1	43	86	5	1	31.2	6	140
0.5	1	2	4	5	1	7.9	1	958
0.5	1	30	60	5	1	41.5	8	220
1	2	6	12	5	1	24.4	4	6080
0.5	1	14	28	5	1	39.1	7	423
2	4	9	18	5	1	154	28	7580
1	2	13	26	5	1	75.9	14	8270
0.5	1	2	4	5	1	9.9	2	30
0.5	1	9	18	5	1	66.6	12	1730
1	2	2	4	5	1	22	4	8680
0.5	1	1	2	5	1	18.2	3	2240
0.5	1	3	6	5	1	17.6	3	233
1	2	1	2	5	1	11.3	2	6640
0.5	1	4	8	5	1	9.8	2	4090
1	2	5	10	5	1	26.8	5	6610
0.5	1	3	6	5	1	8.4	2	709
0.5	1	3	6	5	1	34.6	6	4440
0.5	1	2	4	5	1	7.3	1	249
0.5	1	9	18	5	1	92.3	17	3650
2	4	8	16	5	1	59.4	11	13300
0.5	1	11	22	5	1	8.6	2	102
0.5	1	13	26	5	1	71	13	1630
0.5	1	3	6	5	1	46.8	8	868
0.5	1	7	14	5	1	36.2	7	184
0.5	1	3	6	5	1	10.5	2	1940
0.5	1	6	12	5	1	23	4	173
0.5	1	2	4	5	1	21.6	4	2340
0.5	1	0.5	1	5	1	8.2	1	10
0.5	1	0.5	1	5	1	7.2	1	646
0.5	1	3	6	5	1	15.5	3	696
2	4	7	14	5	1	131	24	8810
1	2	10	20	5	1	59.3	11	5700
0.5	1	2	4	5	1	15.2	3	8080
0.5	1	3	6	5	1	8.3	2	1220
0.5	1	22	44	5	1	70.6	13	1380
0.5	1	8	16	5	1	25.5	5	895
0.5	1	19	38	5	1	51.6	9	2890
0.5	1	3	6	5	1	8.4	2	478
0.5	1	2	4	5	1	11.5	2	783
0.5	1	3	6	5	1	14.5	3	479
0.5	1	4	8	5	1	40.4	7	1160
0.5	1	6	12	5	1	51.9	9	2650
5	10	4	8	5	1	19.2	3	854
2	4	3	6	5	1	11.5	2	571
1	2	3	6	5	1	6	1	99
0.5	1	0.5	1	5	1	4	1	2280
0.5	1	3	6	5	1	21.2	4	483

3	6	0.5	1	5	1	3.9	1	1120
3	6	2	4	5	1	10	2	1950
2	4	2	4	5	1	11.6	2	1000
1	2	2	4	5	1	5.4	1	327
1	2	4	8	5	1	12.9	2	277
1	2	6	12	5	1	26.9	5	937
2	4	6	12	5	1	63.8	12	3430
1	2	3	6	5	1	17.3	3	3030
1	2	1	2	5	1	13.1	2	2200
0.5	1	1	2	5	1	6.5	1	547
1	2	0.5	1	5	1	29.6	5	2300
3	6	0.5	1	5	1	15.8	3	12500
0.5	1	2	4	5	1	11.2	2	1510
0.5	1	2	4	5	1	11.3	2	1730
0.5	1	1	2	5	1	21.6	4	1760
1	2	4	8	5	1	30.4	6	2440
1	2	8	16	5	1	89.1	16	1780
0.5	1	4	8	5	1	12.9	2	1520
0.5	1	15	30	5	1	20.3	4	25
0.5	1	12	24	5	1	42.3	8	1300
0.5	1	4	8	5	1	22.8	4	73
0.5	1	4	8	5	1	15	3	196
2	4	2	4	5	1	22.3	4	6240
0.5	1	3	6	5	1	10.4	2	600
0.5	1	17	34	5	1	32.2	6	343
0.5	1	5	10	5	1	28.4	5	532
0.5	1	2	4	5	1	14.9	3	716
0.5	1	3	6	5	1	28.7	5	4010
1	2	2	4	5	1	18.9	3	4200
0.5	1	0.5	1	5	1	5.2	1	441
0.5	1	1	2	5	1	20.4	4	2080
0.5	1	2	4	5	1	13.1	2	1390
0.5	1	3	6	5	1	23.4	4	424
2	4	2	4	5	1	26.2	5	9600
0.5	1	0.5	1	5	1	11.4	2	2820
0.5	1	6	12	5	1	31.5	6	59
2	4	3	6	5	1	27.5	5	9120
0.5	1	2	4	5	1	5.3	1	299
1	2	1	2	5	1	16.3	3	3560
0.5	1	2	4	5	1	10.1	2	1000
0.5	1	2	4	5	1	7.2	1	318
0.5	1	3	6	5	1	5.4	1	372
0.5	1	3	6	5	1	9.8	2	306
0.5	1	2	4	5	1	12	2	3320
2	4	2	4	5	1	29.6	5	6600
2	4	3	6	5	1	15.7	3	1380
0.5	1	2	4	5	1	7.3	1	138
0.5	1	0.5	1	5	1	7.5	1	799
0.5	1	0.5	1	5	1	6.6	1	1990
2	4	3	6	5	1	31.7	6	5600
0.5	1	0.5	1	5	1	5.1	1	761
1	2	2	4	5	1	15.5	3	4030
0.5	1	2	4	5	1	12.8	2	2280
0.5	1	1	2	5	1	5.1	1	712
1	2	1	2	5	1	10.3	2	5310
0.5	1	0.5	1	5	1	10	2	683

0.5	1	0.5	1	5	1	12	2	3620
0.5	1	0.5	1	5	1	10.1	2	1140
2	4	0.5	1	5	1	13.6	2	4710
3	6	1	2	5	1	19.4	4	12600
2	4	1	2	5	1	10.9	2	9660
2	4	2	4	5	1	10.9	2	7070
0.5	1	2	4	5	1	8.2	1	555
0.5	1	2	4	5	1	11	2	899
0.5	1	3	6	5	1	13.3	2	1090
0.5	1	3	6	5	1	9.7	2	1650
0.5	1	2	4	5	1	6.8	1	825
0.5	1	2	4	5	1	7.3	1	275
0.5	1	2	4	5	1	5.6	1	316
0.5	1	0.5	1	5	1	4.6	1	760
0.5	1	1	2	5	1	6.3	1	315
0.5	1	2	4	5	1	12.4	2	2660
0.5	1	1	2	5	1	9.5	2	778
0.5	1	2	4	5	1	15.9	3	698
0.5	1	2	4	5	1	3.1	1	87
0.5	1	3	6	5	1	4	1	125
0.5	1	2	4	5	1	3	1	76
0.5	1	3	6	5	1	11.2	2	502
0.5	1	2	4	5	1	46.5	8	918
0.5	1	3	6	5	1	9.3	2	292
0.5	1	1	2	5	1	5.5	1	466
0.5	1	0.5	1	5	1	7	1	299
0.5	1	4	8	5	1	14.6	3	1020
0.5	1	2	4	5	1	25.2	5	1640
1	2	3	6	5	1	44	8	5370
0.5	1	1	2	5	1	12	2	1480
1	2	6	12	5	1	14.5	3	5840
0.5	1	0.5	1	5	1	4.2	1	3960
0.5	1	2	4	5	1	8.6	2	631
0.5	1	0.5	1	5	1	5.6	1	2680
2	4	1	2	5	1	11.7	2	2610
0.5	1	2	4	5	1	5.6	1	278
1	2	2	4	5	1	10.4	2	3050
0.5	1	2	4	5	1	10.8	2	636
0.5	1	2	4	5	1	9.8	2	511
0.5	1	2	4	5	1	4.4	1	273
0.5	1	1	2	5	1	5	1	520
0.5	1	2	4	5	1	4.6	1	141
0.5	1	1	2	5	1	5.9	1	314
0.5	1	4	8	5	1	9	2	778
0.5	1	0.5	1	5	1	4.7	1	229
0.5	1	2	4	5	1	4.8	1	98
0.5	1	3	6	5	1	13.5	2	505
0.5	1	5	10	5	1	11	2	381
0.5	1	1	2	5	1	3.3	1	189
0.5	1	0.5	1	5	1	3.5	1	1150
0.5	1	2	4	5	1	12.6	2	248
0.5	1	0.5	1	5	1	10.9	2	443
0.5	1	2	4	5	1	8.6	2	2990
0.5	1	2	4	5	1	19	3	1560
0.5	1	0.5	1	5	1	6.4	1	796
0.5	1	6	12	5	1	49.7	9	1910

0.5	1	3	6	5	1	36.7	7	3360
2	4	3	6	5	1	20.5	4	641
0.5	1	2	4	5	1	11.1	2	323
0.5	1	3	6	5	1	5.3	1	209
0.5	1	2	4	5	1	10.8	2	765
0.5	1	2	4	5	1	6.3	1	285
0.5	1	0.5	1	5	1	9.9	2	470
0.5	1	0.5	1	5	1	9.8	2	193
0.5	1	0.5	1	5	1	5.9	1	724
0.5	1	3	6	5	1	10.8	2	3600
0.5	1	0.5	1	5	1	2.6	1	753
0.5	1	2	4	5	1	7.7	1	521
0.5	1	2	4	5	1	6.6	1	328
0.5	1	1	2	5	1	5.9	1	410
0.5	1	2	4	5	1	7.9	1	151
1	2	1	2	5	1	16.5	3	6060
0.5	1	2	4	5	1	10.4	2	545
0.5	1	2	4	5	1	7.2	1	380
0.5	1	0.5	1	5	1	4.3	1	1550
0.5	1	3	6	5	1	7.2	1	92
0.5	1	3	6	5	1	15.2	3	896
0.5	1	0.5	1	5	1	8.1	1	1250
0.5	1	6	12	5	1	11	2	1040
0.5	1	0.5	1	5	1	22.2	4	521
0.5	1	0.5	1	5	1	14.8	3	503
0.5	1	0.5	1	5	1	11.1	2	820
0.5	1	3	6	5	1	11.5	2	395
0.5	1	3	6	5	1	9	2	353
0.5	1	2	4	5	1	15.4	3	2280
0.5	1	0.5	1	5	1	4.9	1	139
0.5	1	0.5	1	5	1	3.7	1	359
0.5	1	0.5	1	5	1	7.1	1	329
0.5	1	0.5	1	5	1	6.3	1	560
0.5	1	2	4	5	1	9.9	2	2400
0.5	1	2	4	5	1	21.6	4	581
0.5	1	0.5	1	5	1	11.9	2	1920
0.5	1	0.5	1	5	1	9.6	2	443
0.5	1	0.5	1	5	1	13	2	4070
0.5	1	0.5	1	5	1	5.1	1	419
0.5	1	0.5	1	5	1	10.1	2	2210
0.5	1	3	6	5	1	17.3	3	2200
0.5	1	7	14	5	1	25.2	5	866
0.5	1	3	6	5	1	24.8	5	895
0.5	1	3	6	5	1	9.4	2	264
3	6	1	2	5	1	11.5	2	15200
1	2	0.5	1	5	1	9	2	592
1	2	1	2	5	1	11.7	2	961
0.5	1	7	14	5	1	3.2	1	69
0.5	1	0.5	1	5	1	11.8	2	278
0.5	1	0.5	1	5	1	9	2	184
0.5	1	0.5	1	5	1	9	2	1400
0.5	1	6	12	5	1	24.5	4	1860
0.5	1	11	22	5	1	40	7	432
0.5	1	3	6	5	1	9.3	2	185
0.5	1	4	8	5	1	16.7	3	652
0.5	1	1	2	5	1	8.7	2	176

0.5	1	2	4	5	1	4.3	1	202
0.5	1	8	16	5	1	28.8	5	1230
0.5	1	2	4	5	1	5.3	1	458
0.5	1	0.5	1	5	1	10.3	2	914
2	4	1	2	5	1	12.8	2	9480
0.5	1	2	4	5	1	11.4	2	1240
0.5	1	3	6	5	1	8.4	2	142
0.5	1	3	6	5	1	5.1	1	75
0.5	1	0.5	1	5	1	8.3	2	1430
0.5	1	3	6	5	1	8.5	2	229
0.5	1	6	12	5	1	8.1	1	62
0.5	1	4	8	5	1	4.9	1	195
0.5	1	1	2	5	1	6	1	78
0.5	1	0.5	1	5	1	2.7	1	365
0.5	1	0.5	1	5	1	4.4	1	237
0.5	1	2	4	5	1	2.2	1	17
0.5	1	1	2	5	1	21.6	4	2560
0.5	1	2	4	5	1	8.7	2	274
0.5	1	0.5	1	5	1	4.6	1	529
0.5	1	2	4	5	1	16.8	3	3180
0.5	1	2	4	5	1	11	2	266
0.5	1	7	14	5	1	30.3	6	724
0.5	1	10	20	5	1	20.8	4	140
0.5	1	1	2	5	1	6.3	1	802
0.5		1		5		8.1		423.75
0.5		0.5		5		5.523214		216.4783

TiRR	TI MMI-M5 0.5 PPB	TIRR	U MMI-M5 1 PPB	URR	W MMI-M5 1 PPB	WRR	Y MMI-M5 5 PPB	YRR	
	8	0.7	3	22	8	2	4	493	21
	7	0.25	1	9	3	0.5	1	127	5
	8	1.2	5	9	3	0.5	1	107	4
	6	0.5	2	5	2	0.5	1	32	1
	5	0.6	2	5	2	0.5	1	90	4
	6	0.25	1	8	3	0.5	1	149	6
	1	0.5	2	5	2	0.5	1	140	6
	3	0.25	1	4	2	0.5	1	50	2
	3	0.25	1	6	2	0.5	1	103	4
	2	0.25	1	5	2	0.5	1	57	2
	9	0.7	3	7	3	1	2	37	2
	23	0.6	2	12	5	2	4	189	8
	2	0.25	1	3	1	0.5	1	42	2
	8	0.8	3	6	2	0.5	1	32	1
	16	0.6	2	5	2	0.5	1	30	1
	20	0.5	2	4	2	0.5	1	76	3
	3	0.25	1	7	3	0.5	1	73	3
	9	0.25	1	5	2	0.5	1	42	2
	4	0.25	1	4	2	0.5	1	58	2
	2	0.25	1	4	2	0.5	1	60	3
	4	0.5	2	10	4	0.5	1	67	3
	21	0.6	2	6	2	0.5	1	62	3
	9	0.25	1	5	2	0.5	1	65	3
	3	0.25	1	10	4	0.5	1	74	3
	1	0.25	1	6	2	0.5	1	134	6
	3	1.1	4	33	13	0.5	1	525	22
	5	0.6	2	11	4	0.5	1	33	1
	3	0.25	1	4	2	0.5	1	74	3
	1	0.7	3	6	2	0.5	1	264	11
	8	0.25	1	2	1	0.5	1	23	1
	1	0.25	1	6	2	0.5	1	174	7
	12	0.25	1	3	1	0.5	1	36	2
	33	2.4	10	23	9	3	6	1310	55
	3	0.25	1	3	1	0.5	1	52	2
	1	0.25	1	4	2	0.5	1	75	3
	1	0.25	1	3	1	0.5	1	68	3
	5	0.6	2	3	1	0.5	1	77	3
	24	0.25	1	4	2	0.5	1	24	1
	2	0.25	1	7	3	0.5	1	188	8
	20	0.25	1	2	1	1	2	36	2
	6	0.6	2	7	3	0.5	1	26	1
	3	0.25	1	7	3	0.5	1	37	2
	14	0.9	4	9	3	2	4	89	4
	2	0.25	1	6	2	0.5	1	53	2
	6	0.6	2	25	10	1	2	307	13
	11	0.5	2	7	3	2	4	123	5
	1	0.25	1	5	2	0.5	1	85	4
	1	0.25	1	5	2	0.5	1	43	2
	5	0.7	3	14	5	2	4	120	5
	34	1.3	5	15	6	6	12	93	4
	16	1.6	6	17	6	3	6	296	12
	19	0.9	4	10	4	2	4	75	3

1	0.7	3	30	11	0.5	1	130	5
7	0.6	2	10	4	1	2	125	5
6	1.5	6	17	6	1	2	121	5
2	0.5	2	4	2	0.5	1	72	3
3	0.5	2	6	2	0.5	1	71	3
11	0.25	1	5	2	0.5	1	39	2
2	0.5	2	3	1	0.5	1	41	2
11	1.1	4	8	3	1	2	120	5
2	0.25	1	4	2	0.5	1	56	2
2	0.25	1	4	2	0.5	1	62	3
6	0.6	2	3	1	0.5	1	39	2
12	0.8	3	19	7	2	4	495	21
8	0.25	1	5	2	0.5	1	56	2
17	0.5	2	6	2	0.5	1	61	3
1	0.25	1	3	1	0.5	1	44	2
1	0.25	1	3	1	0.5	1	61	3
1	0.25	1	2	1	0.5	1	69	3
2	0.25	1	4	2	0.5	1	56	2
1	0.25	1	3	1	0.5	1	55	2
2	0.25	1	2	1	0.5	1	56	2
2	0.7	3	2	1	0.5	1	2.5	1
62	0.7	3	8	3	3	6	58	2
19	0.25	1	23	9	1	2	274	11
4	0.25	1	9	3	0.5	1	137	6
8	0.8	3	7	3	0.5	1	58	2
10	0.7	3	5	2	0.5	1	83	3
3	0.25	1	3	1	0.5	1	64	3
9	0.25	1	8	3	0.5	1	85	4
19	0.5	2	5	2	0.5	1	64	3
23	0.25	1	4	2	0.5	1	95	4
4	0.25	1	4	2	0.5	1	120	5
5	0.6	2	6	2	0.5	1	84	4
10	0.7	3	9	3	1	2	73	3
1	0.5	2	5	2	0.5	1	83	3
3	0.25	1	10	4	0.5	1	142	6
3	0.25	1	4	2	0.5	1	98	4
8	0.25	1	5	2	0.5	1	93	4
4	0.25	1	6	2	0.5	1	60	3
25	0.25	1	3	1	0.5	1	49	2
18	0.7	3	6	2	0.5	1	8	1
4	0.25	1	6	2	0.5	1	93	4
2	0.25	1	6	2	0.5	1	101	4
5	0.8	3	13	5	0.5	1	117	5
7	0.25	1	5	2	0.5	1	133	6
5	0.25	1	11	4	0.5	1	168	7
5	0.8	3	5	2	0.5	1	109	5
23	1.2	5	21	8	2	4	148	6
3	0.25	1	9	3	0.5	1	184	8
6	0.25	1	6	2	0.5	1	61	3
4	0.25	1	11	4	0.5	1	89	4
1	0.25	1	9	3	0.5	1	257	11
31	0.7	3	19	7	3	6	396	17
10	0.7	3	9	3	0.5	1	198	8
3	0.25	1	6	2	0.5	1	26	1
4	0.25	1	6	2	0.5	1	123	5
10	0.25	1	10	4	0.5	1	185	8

5	0.6	2	15	6	0.5	1	117	5
3	1	4	24	9	2	4	88	4
18	1.2	5	16	6	3	6	139	6
16	1	4	16	6	1	2	109	5
6	0.9	4	10	4	1	2	137	6
17	1.1	4	15	6	2	4	98	4
1	0.6	2	33	13	0.5	1	302	13
17	0.25	1	6	2	0.5	1	33	1
12	0.8	3	17	6	2	4	218	9
20	0.6	2	4	2	0.5	1	34	1
3	0.25	1	7	3	0.5	1	62	3
4	1.7	7	111	42	1	2	163	7
3	0.7	3	9	3	0.5	1	213	9
5	0.25	1	10	4	0.5	1	113	5
12	0.6	2	10	4	0.5	1	43	2
1	0.25	1	30	11	0.5	1	138	6
11	0.25	1	6	2	0.5	1	60	3
8	0.5	2	6	2	0.5	1	96	4
4	0.6	2	8	3	0.5	1	63	3
9	0.25	1	6	2	0.5	1	70	3
5	0.25	1	7	3	0.5	1	66	3
1	0.7	3	11	4	0.5	1	263	11
1	0.25	1	9	3	0.5	1	26	1
1	0.25	1	8	3	0.5	1	176	7
64	0.9	4	10	4	3	6	28	1
2	0.6	2	7	3	0.5	1	104	4
9	0.8	3	14	5	1	2	120	5
4	0.25	1	5	2	0.5	1	86	4
15	0.9	4	12	5	1	2	190	8
30	0.25	1	4	2	1	2	24	1
5	0.25	1	9	3	0.5	1	93	4
15	0.5	2	12	5	1	2	49	2
1	0.25	1	23	9	0.5	1	416	17
57	0.9	4	7	3	2	4	38	2
7	0.6	2	7	3	0.5	1	51	2
3	0.5	2	14	5	0.5	1	29	1
13	0.9	4	10	4	0.5	1	56	2
2	0.9	4	16	6	0.5	1	94	4
18	0.9	4	9	3	1	2	54	2
26	0.7	3	3	1	0.5	1	53	2
15	0.25	1	8	3	0.5	1	83	3
9	1.5	6	23	9	2	4	370	16
17	1.4	6	19	7	2	4	233	10
45	0.9	4	7	3	2	4	93	4
17	0.7	3	6	2	0.5	1	62	3
72	1.3	5	16	6	3	6	122	5
3	0.25	1	15	6	0.5	1	168	7
10	1.8	7	9	3	0.5	1	92	4
6	0.25	1	4	2	0.5	1	52	2
6	0.5	2	8	3	0.5	1	82	3
6	0.25	1	5	2	0.5	1	56	2
3	0.5	2	3	1	0.5	1	13	1
22	0.5	2	12	5	0.5	1	37	2
1	0.25	1	8	3	0.5	1	40	2
1	0.25	1	6	2	0.5	1	67	3
5	0.25	1	6	2	0.5	1	91	4

3	0.25	1	3	1	0.5	1	24	1
1	0.25	1	3	1	0.5	1	55	2
7	0.7	3	8	3	0.5	1	67	3
6	0.25	1	11	4	0.5	1	71	3
2	0.25	1	4	2	0.5	1	44	2
6	0.25	1	5	2	0.5	1	17	1
14	0.6	2	5	2	2	4	22	1
19	0.25	1	6	2	0.5	1	29	1
1	0.25	1	9	3	0.5	1	142	6
3	0.25	1	16	6	0.5	1	309	13
1	0.25	1	4	2	0.5	1	80	3
3	0.25	1	16	6	0.5	1	69	3
4	0.25	1	4	2	0.5	1	51	2
1	0.25	1	10	4	0.5	1	18	1
8	0.5	2	13	5	0.5	1	78	3
6	1.3	5	35	13	0.5	1	210	9
15	0.9	4	6	2	1	2	28	1
4	0.5	2	8	3	0.5	1	72	3
22	0.25	1	7	3	0.5	1	82	3
46	0.6	2	17	6	2	4	128	5
7	0.8	3	11	4	0.5	1	127	5
2	0.25	1	7	3	0.5	1	70	3
7	0.7	3	16	6	0.5	1	121	5
1	0.25	1	11	4	0.5	1	431	18
3	0.25	1	9	3	0.5	1	151	6
8	0.25	1	8	3	0.5	1	90	4
21	0.25	1	6	2	0.5	1	77	3
4	0.9	4	2	1	0.5	1	20	1
12	0.5	2	10	4	0.5	1	78	3
2	0.25	1	4	2	0.5	1	97	4
8	0.7	3	6	2	0.5	1	43	2
3	0.25	1	6	2	0.5	1	80	3
15	0.5	2	6	2	0.5	1	62	3
3	0.25	1	7	3	0.5	1	92	4
9	0.25	1	8	3	0.5	1	105	4
11	0.25	1	8	3	2	4	92	4
5	0.7	3	13	5	2	4	128	5
8	0.25	1	5	2	0.5	1	26	1
12	0.25	1	4	2	1	2	56	2
1	0.25	1	4	2	0.5	1	115	5
12	0.25	1	4	2	0.5	1	17	1
1	0.25	1	3	1	0.5	1	47	2
1	0.25	1	3	1	0.5	1	57	2
2	0.25	1	6	2	0.5	1	64	3
3	0.25	1	7	3	1	2	110	5
2	0.25	1	2	1	0.5	1	52	2
26	0.25	1	22	8	2	4	278	12
5	0.25	1	14	5	0.5	1	141	6
31	0.5	2	10	4	2	4	112	5
36	0.8	3	18	7	2	4	184	8
49	0.25	1	10	4	5	10	34	1
6	0.6	2	21	8	0.5	1	100	4
22	0.6	2	7	3	2	4	63	3
11	0.5	2	12	5	2	4	88	4
6	0.25	1	12	5	1	2	90	4
1	0.25	1	4	2	0.5	1	102	4

9	0.25	1	5	2	0.5	1	15	1
3	0.6	2	13	5	0.5	1	327	14
3	0.25	1	4	2	0.5	1	30	1
3	0.25	1	5	2	0.5	1	29	1
10	0.25	1	10	4	0.5	1	55	2
13	0.5	2	12	5	1	2	103	4
50	0.25	1	17	6	9	18	96	4
5	0.25	1	6	2	0.5	1	57	2
1	0.6	2	5	2	2	4	111	5
1	0.9	4	131	50	1	2	659	28
4	0.25	1	4	2	0.5	1	75	3
1	1.2	5	46	17	1	2	822	34
28	0.8	3	10	4	1	2	105	4
2	1.1	4	24	9	0.5	1	275	12
35	0.9	4	21	8	3	6	135	6
38	1.3	5	17	6	14	28	201	8
1	0.25	1	13	5	0.5	1	52	2
8	0.9	4	23	9	2	4	182	8
40	0.25	1	6	2	2	4	54	2
10	1.1	4	6	2	0.5	1	28	1
1	0.5	2	5	2	0.5	1	67	3
30	0.6	2	4	2	2	4	33	1
19	0.25	1	4	2	0.5	1	96	4
30	1.4	6	12	5	2	4	105	4
3	0.25	1	4	2	0.5	1	69	3
20	0.7	3	11	4	1	2	74	3
1	0.25	1	4	2	0.5	1	69	3
17	0.9	4	24	9	3	6	164	7
61	0.9	4	13	5	4	8	146	6
1	0.25	1	7	3	0.5	1	267	11
7	0.25	1	13	5	2	4	206	9
4	0.25	1	8	3	0.5	1	48	2
1	0.25	1	68	26	0.5	1	173	7
9	0.5	2	5	2	0.5	1	60	3
1	0.25	1	189	72	0.5	1	138	6
11	0.8	3	8	3	1	2	44	2
1	0.25	1	21	8	0.5	1	9	1
3	0.7	3	4	2	0.5	1	23	1
3	0.25	1	5	2	0.5	1	81	3
40	1.2	5	17	6	4	8	112	5
26	0.6	2	15	6	0.5	1	203	9
37	0.25	1	5	2	2	4	43	2
6	0.25	1	4	2	0.5	1	107	4
6	0.25	1	35	13	0.5	1	451	19
4	0.25	1	12	5	0.5	1	161	7
13	0.25	1	14	5	1	2	352	15
2	0.25	1	4	2	0.5	1	87	4
4	0.25	1	4	2	0.5	1	50	2
2	0.25	1	8	3	0.5	1	82	3
5	0.6	2	11	4	0.5	1	81	3
12	0.25	1	10	4	0.5	1	100	4
4	3	12	7	3	8	16	98	4
3	1.2	5	5	2	2	4	75	3
1	0.8	3	3	1	1	2	92	4
10	1	4	3	1	0.5	1	30	1
2	0.6	2	5	2	0.5	1	73	3

5	0.6	2	3	1	5	10	9	1
9	0.25	1	5	2	4	8	52	2
5	0.25	1	8	3	3	6	90	4
2	0.25	1	4	2	2	4	87	4
1	0.25	1	5	2	2	4	129	5
4	0.25	1	9	3	2	4	176	7
16	0.7	3	9	3	4	8	159	7
14	0.25	1	5	2	2	4	70	3
10	0.25	1	5	2	1	2	39	2
3	0.25	1	3	1	2	4	57	2
11	0.25	1	6	2	3	6	21	1
57	0.6	2	8	3	3	6	22	1
7	0.25	1	9	3	1	2	50	2
8	0.25	1	4	2	0.5	1	63	3
8	0.5	2	9	3	2	4	39	2
11	0.25	1	12	5	2	4	87	4
8	0.25	1	22	8	2	4	197	8
7	0.25	1	7	3	2	4	143	6
1	0.25	1	88	33	0.5	1	478	20
6	0.25	1	39	15	1	2	265	11
1	0.25	1	231	88	2	4	116	5
1	0.25	1	42	16	2	4	107	4
29	0.7	3	9	3	2	4	50	2
3	0.25	1	6	2	1	2	113	5
2	0.25	1	389	148	1	2	687	29
2	0.25	1	21	8	2	4	185	8
3	0.25	1	6	2	0.5	1	61	3
18	0.6	2	12	5	2	4	74	3
19	0.25	1	6	2	1	2	37	2
2	0.25	1	3	1	0.5	1	24	1
10	0.25	1	5	2	0.5	1	33	1
6	0.25	1	5	2	0.5	1	76	3
2	0.25	1	6	2	0.5	1	87	4
44	0.25	1	7	3	2	4	47	2
13	0.25	1	4	2	0.5	1	10	1
1	0.25	1	56	21	0.5	1	149	6
42	0.25	1	7	3	1	2	53	2
1	0.25	1	4	2	0.5	1	65	3
16	0.25	1	6	2	0.5	1	35	1
5	0.25	1	4	2	0.5	1	50	2
1	0.25	1	4	2	0.5	1	56	2
2	0.25	1	4	2	0.5	1	107	4
1	0.25	1	4	2	0.5	1	90	4
15	0.25	1	4	2	2	4	58	2
30	0.25	1	7	3	1	2	56	2
6	0.25	1	6	2	2	4	66	3
1	0.25	1	4	2	0.5	1	83	3
4	0.25	1	3	1	0.5	1	10	1
9	0.25	1	2	1	0.5	1	9	1
26	0.25	1	12	5	3	6	53	2
3	0.25	1	2	1	0.5	1	2.5	1
19	0.25	1	8	3	1	2	47	2
10	0.25	1	6	2	0.5	1	63	3
3	0.25	1	4	2	0.5	1	58	2
24	0.25	1	6	2	1	2	25	1
3	0.25	1	4	2	1	2	7	1

17	0.6	2	6	2	2	4	22	1
5	0.25	1	3	1	0.5	1	22	1
22	0.6	2	6	2	0.5	1	18	1
58	0.25	1	6	2	8	16	36	2
44	0.25	1	5	2	2	4	30	1
32	0.25	1	4	2	1	2	37	2
3	0.25	1	4	2	0.5	1	66	3
4	0.25	1	4	2	0.5	1	67	3
5	0.25	1	6	2	0.5	1	82	3
8	0.25	1	6	2	0.5	1	106	4
4	0.25	1	5	2	0.5	1	59	2
1	0.25	1	4	2	0.5	1	70	3
1	0.25	1	4	2	0.5	1	56	2
3	0.25	1	3	1	0.5	1	29	1
1	0.25	1	3	1	0.5	1	43	2
12	0.25	1	4	2	0.5	1	51	2
4	0.25	1	5	2	0.5	1	40	2
3	0.25	1	8	3	0.5	1	55	2
1	0.25	1	2	1	0.5	1	81	3
1	0.25	1	3	1	0.5	1	114	5
1	0.25	1	4	2	0.5	1	73	3
2	0.25	1	7	3	0.5	1	82	3
4	0.25	1	14	5	0.5	1	65	3
1	0.25	1	6	2	0.5	1	84	4
2	0.25	1	4	2	0.5	1	55	2
1	0.25	1	4	2	0.5	1	30	1
5	0.25	1	5	2	0.5	1	108	5
8	0.5	2	8	3	0.5	1	54	2
25	0.5	2	10	4	2	4	70	3
7	0.25	1	9	3	0.5	1	51	2
27	0.25	1	6	2	1	2	144	6
18	0.25	1	2	1	0.5	1	11	1
3	0.25	1	5	2	0.5	1	64	3
12	0.25	1	3	1	0.5	1	24	1
12	0.25	1	5	2	2	4	45	2
1	0.25	1	4	2	1	2	100	4
14	0.25	1	4	2	0.5	1	48	2
3	0.25	1	4	2	2	4	70	3
2	0.25	1	4	2	1	2	42	2
1	0.25	1	2	1	1	2	60	3
2	0.25	1	3	1	0.5	1	34	1
1	0.25	1	4	2	0.5	1	68	3
1	0.25	1	4	2	0.5	1	50	2
4	0.25	1	3	1	4	8	135	6
1	0.25	1	3	1	0.5	1	31	1
1	0.25	1	3	1	0.5	1	55	2
2	0.25	1	6	2	0.5	1	78	3
2	0.25	1	6	2	0.5	1	160	7
1	0.25	1	2	1	1	2	58	2
5	0.25	1	2	1	0.5	1	5	1
1	0.25	1	7	3	0.5	1	55	2
2	0.25	1	7	3	0.5	1	21	1
14	0.25	1	5	2	0.5	1	47	2
7	0.25	1	9	3	0.5	1	47	2
4	0.25	1	2	1	1	2	21	1
9	0.25	1	11	4	1	2	117	5

15	0.25	1	10	4	1	2	96	4
3	0.25	1	9	3	2	4	54	2
1	0.25	1	5	2	1	2	65	3
1	0.25	1	4	2	0.5	1	117	5
4	0.25	1	4	2	0.5	1	48	2
1	0.25	1	5	2	0.5	1	67	3
2	0.25	1	7	3	0.5	1	11	1
1	0.25	1	7	3	0.5	1	11	1
3	0.25	1	3	1	3	6	11	1
17	0.25	1	5	2	0.5	1	70	3
3	0.25	1	2	1	0.5	1	24	1
2	0.25	1	4	2	0.5	1	57	2
2	0.25	1	3	1	0.5	1	67	3
2	0.25	1	2	1	0.5	1	33	1
1	0.25	1	4	2	0.5	1	62	3
28	0.25	1	5	2	1	2	35	1
3	0.25	1	4	2	0.5	1	59	2
2	0.25	1	3	1	0.5	1	69	3
7	0.25	1	2	1	0.5	1	21	1
1	0.25	1	3	1	0.5	1	75	3
4	0.25	1	12	5	0.5	1	52	2
6	0.25	1	7	3	0.5	1	25	1
5	0.25	1	14	5	0.5	1	152	6
2	0.25	1	16	6	4	8	15	1
2	0.25	1	30	11	1	2	2.5	1
4	0.25	1	5	2	0.5	1	18	1
2	0.25	1	6	2	0.5	1	79	3
2	0.25	1	4	2	0.5	1	103	4
10	0.25	1	4	2	0.5	1	46	2
1	0.25	1	3	1	0.5	1	26	1
2	0.25	1	4	2	0.5	1	25	1
2	0.25	1	4	2	0.5	1	6	1
3	0.25	1	3	1	0.5	1	16	1
11	0.25	1	4	2	0.5	1	97	4
3	0.6	2	15	6	0.5	1	55	2
9	0.25	1	5	2	0.5	1	10	1
2	0.25	1	7	3	0.5	1	17	1
19	0.25	1	9	3	2	4	13	1
2	0.25	1	3	1	0.5	1	2.5	1
10	0.25	1	13	5	0.5	1	26	1
10	0.25	1	11	4	0.5	1	64	3
4	0.25	1	10	4	0.5	1	180	8
4	0.25	1	7	3	0.5	1	61	3
1	0.25	1	12	5	0.5	1	56	2
70	0.25	1	5	2	2	4	31	1
3	0.25	1	8	3	2	4	14	1
4	0.25	1	8	3	1	2	19	1
1	0.25	1	9	3	0.5	1	190	8
1	0.25	1	20	8	0.5	1	22	1
1	0.25	1	14	5	0.5	1	17	1
6	0.25	1	5	2	0.5	1	25	1
9	0.25	1	13	5	0.5	1	218	9
2	0.25	1	12	5	0.5	1	288	12
1	0.25	1	5	2	0.5	1	72	3
3	0.25	1	16	6	1	2	71	3
1	0.25	1	5	2	0.5	1	32	1

1	0.25	1	3	1	0.5	1	42	2
6	0.25	1	12	5	0.5	1	149	6
2	0.25	1	2	1	0.5	1	62	3
4	0.25	1	7	3	0.5	1	16	1
44	0.25	1	8	3	3	6	36	2
6	0.25	1	7	3	0.5	1	42	2
1	0.25	1	8	3	0.5	1	60	3
1	0.25	1	5	2	0.5	1	88	4
7	0.25	1	4	2	0.5	1	25	1
1	0.25	1	10	4	0.5	1	69	3
1	0.25	1	31	12	0.5	1	132	6
1	0.25	1	6	2	0.5	1	86	4
1	0.25	1	8	3	0.5	1	35	1
2	0.25	1	1	1	0.5	1	16	1
1	0.25	1	3	1	0.5	1	6	1
1	0.25	1	4	2	0.5	1	74	3
12	0.25	1	6	2	1	2	27	1
1	0.25	1	4	2	0.5	1	53	2
2	0.25	1	2	1	0.5	1	13	1
15	0.5	2	12	5	0.5	1	38	2
1	0.25	1	4	2	0.5	1	59	2
3	0.25	1	8	3	0.5	1	130	5
1	0.25	1	7	3	0.5	1	176	7
4	0.25	1	2	1	0.5	1	46	2
	0.25		4		0.5		42.75	
	0.25		2.640625		0.5		24.00893	

Yb MMI-M5	YbRR	Zn MMI-M5	ZnRR	Zr MMI-M5	ZrRR	
1		20		5		
PPB		PPB		PPB		
24		11	30	2	40	3
12		5	40	2	36	3
8		4	60	3	43	3
4		2	80	4	22	2
8		4	240	13	22	2
14		6	10	1	29	2
11		5	30	2	9	1
6		3	20	1	17	1
8		4	60	3	35	3
5		2	50	3	20	2
4		2	160	8	53	4
17		7	30	2	82	7
4		2	120	6	15	1
4		2	60	3	45	4
4		2	110	6	38	3
6		3	60	3	43	3
6		3	100	5	26	2
5		2	390	20	25	2
7		3	270	14	22	2
5		2	200	10	16	1
6		3	100	5	38	3
4		2	220	12	48	4
5		2	160	8	32	3
7		3	90	5	26	2
10		4	100	5	10	1
34		15	30	2	44	4
4		2	130	7	28	2
5		2	70	4	12	1
16		7	10	1	11	1
3		1	80	4	13	1
13		6	10	1	15	1
4		2	30	2	16	1
106		47	30	2	133	11
5		2	10	1	15	1
6		3	10	1	9	1
5		2	40	2	13	1
6		3	30	2	21	2
3		1	30	2	38	3
11		5	10	1	19	2
3		1	50	3	35	3
3		1	70	4	30	2
9		4	920	48	19	2
7		3	310	16	55	4
7		3	150	8	15	1
21		9	40	2	61	5
10		4	70	4	38	3
9		4	180	9	12	1
7		3	160	8	11	1
9		4	20	1	58	5
8		4	60	3	165	13
22		10	40	2	115	9
6		3	230	12	65	5

10	4	10	1	16	1
9	4	30	2	48	4
12	5	100	5	45	4
6	3	30	2	16	1
7	3	60	3	17	1
4	2	70	4	24	2
5	2	120	6	16	1
10	4	60	3	58	5
5	2	60	3	15	1
5	2	50	3	19	2
5	2	40	2	14	1
33	15	50	3	56	4
6	3	60	3	30	2
5	2	380	20	44	4
6	3	10	1	10	1
6	3	30	2	12	1
6	3	10	1	8	1
6	3	170	9	13	1
6	3	90	5	11	1
5	2	40	2	7	1
1	1	90	5	10	1
5	2	620	32	101	8
23	10	170	9	90	7
12	5	230	12	32	3
9	4	400	21	34	3
7	3	460	24	33	3
9	4	350	18	20	2
8	4	120	6	41	3
6	3	340	18	32	3
14	6	60	3	26	2
9	4	50	3	12	1
7	3	130	7	30	2
7	3	880	46	45	4
8	4	90	5	9	1
11	5	40	2	37	3
8	4	50	3	9	1
7	3	110	6	29	2
6	3	180	9	18	1
5	2	470	25	25	2
3	1	40	2	22	2
11	5	80	4	23	2
9	4	50	3	16	1
10	4	220	12	51	4
10	4	40	2	20	2
15	7	110	6	22	2
9	4	100	5	22	2
13	6	110	6	92	7
14	6	160	8	27	2
5	2	1240	65	26	2
8	4	150	8	26	2
19	8	50	3	15	1
28	12	40	2	105	8
16	7	230	12	30	2
4	2	20	1	26	2
12	5	30	2	34	3
14	6	70	4	43	3

11	5	500	26	48	4
8	4	50	3	22	2
11	5	180	9	82	7
11	5	70	4	54	4
10	4	90	5	53	4
9	4	200	10	89	7
17	7	70	4	14	1
4	2	40	2	32	3
17	7	70	4	55	4
4	2	100	5	22	2
5	2	180	9	16	1
13	6	180	9	108	9
13	6	20	1	24	2
8	4	30	2	40	3
5	2	110	6	52	4
8	4	30	2	32	3
6	3	60	3	26	2
7	3	100	5	24	2
7	3	70	4	31	2
6	3	110	6	25	2
6	3	40	2	43	3
16	7	40	2	18	1
3	1	10	1	9	1
11	5	40	2	10	1
3	1	220	12	77	6
7	3	30	2	17	1
10	4	90	5	63	5
7	3	30	2	27	2
17	7	410	21	69	6
3	1	260	14	41	3
7	3	70	4	33	3
5	2	300	16	101	8
24	11	90	5	22	2
4	2	200	10	80	6
6	3	320	17	36	3
4	2	60	3	43	3
5	2	130	7	66	5
6	3	190	10	33	3
5	2	580	30	74	6
6	3	240	13	26	2
10	4	370	19	33	3
27	12	40	2	57	5
17	7	160	8	118	9
10	4	440	23	75	6
8	4	50	3	27	2
13	6	1900	100	124	10
14	6	10	1	33	3
9	4	30	2	31	2
5	2	20	1	15	1
8	4	50	3	36	3
8	4	110	6	16	1
3	1	40	2	11	1
6	3	50	3	31	2
6	3	10	1	10	1
5	2	10	1	17	1
7	3	20	1	21	2

5	2	10	1	15	1
4	2	10	1	2.5	1
8	4	70	4	45	4
8	4	50	3	33	3
6	3	10	1	11	1
2	1	50	3	29	2
3	1	480	25	33	3
3	1	100	5	54	4
13	6	60	3	16	1
22	10	50	3	31	2
7	3	10	1	12	1
6	3	10	1	38	3
5	2	270	14	30	2
3	1	10	1	17	1
7	3	20	1	54	4
15	7	10	1	58	5
4	2	290	15	40	3
6	3	60	3	34	3
7	3	70	4	39	3
11	5	100	5	72	6
11	5	30	2	51	4
6	3	50	3	15	1
9	4	30	2	57	5
30	13	10	1	20	2
11	5	10	1	21	2
8	4	50	3	32	3
8	4	30	2	37	3
6	3	120	6	14	1
11	5	40	2	38	3
8	4	10	1	10	1
6	3	20	1	16	1
7	3	50	3	25	2
8	4	70	4	29	2
9	4	50	3	23	2
9	4	30	2	24	2
7	3	60	3	38	3
10	4	10	1	42	3
4	2	160	8	33	3
5	2	50	3	37	3
9	4	30	2	14	1
2	1	390	20	18	1
3	1	80	4	13	1
4	2	10	1	12	1
6	3	40	2	23	2
8	4	120	6	25	2
4	2	90	5	9	1
21	9	260	14	43	3
11	5	160	8	25	2
10	4	110	6	53	4
14	6	40	2	96	8
3	1	280	15	38	3
10	4	280	15	46	4
8	4	110	6	30	2
8	4	90	5	56	4
9	4	10	1	34	3
8	4	10	1	13	1

2	1	10	1	23	2
22	10	10	1	27	2
3	1	170	9	21	2
2	1	410	21	15	1
6	3	50	3	30	2
13	6	160	8	45	4
9	4	60	3	87	7
5	2	120	6	21	2
9	4	60	3	6	1
46	20	50	3	37	3
6	3	200	10	18	1
49	22	80	4	25	2
7	3	110	6	46	4
18	8	50	3	33	3
12	5	310	16	207	17
14	6	150	8	165	13
3	1	120	6	2.5	1
13	6	30	2	73	6
5	2	70	4	44	4
3	1	70	4	35	3
4	2	20	1	22	2
4	2	360	19	46	4
7	3	40	2	34	3
8	4	120	6	74	6
5	2	50	3	15	1
7	3	70	4	53	4
5	2	10	1	14	1
14	6	50	3	109	9
10	4	80	4	105	8
18	8	100	5	9	1
16	7	40	2	73	6
6	3	440	23	65	5
11	5	40	2	46	4
5	2	430	23	26	2
9	4	40	2	30	2
3	1	50	3	48	4
1	1	20	1	2.5	1
2	1	60	3	18	1
8	4	60	3	20	2
9	4	170	9	121	10
16	7	200	10	85	7
5	2	130	7	41	3
9	4	400	21	20	2
29	13	10	1	62	5
10	4	60	3	21	2
23	10	60	3	64	5
7	3	110	6	16	1
5	2	30	2	21	2
7	3	30	2	28	2
6	3	40	2	51	4
8	4	60	3	55	4
8	4	80	4	27	2
5	2	100	5	22	2
7	3	10	1	11	1
4	2	10	1	19	2
6	3	10	1	32	3

2	1	10	1	13	1
6	3	50	3	30	2
9	4	60	3	29	2
7	3	30	2	16	1
10	4	10	1	28	2
14	6	50	3	39	3
14	6	100	5	78	6
5	2	50	3	34	3
4	2	40	2	27	2
6	3	80	4	21	2
2	1	1320	69	113	9
2	1	170	9	79	6
5	2	190	10	39	3
5	2	140	7	26	2
3	1	270	14	31	2
6	3	100	5	46	4
19	8	310	16	79	6
12	5	1160	61	15	1
30	13	60	3	25	2
20	9	90	5	34	3
8	4	600	31	31	2
7	3	930	49	24	2
4	2	290	15	59	5
9	4	1260	66	16	1
58	26	80	4	109	9
17	7	90	5	174	14
5	2	350	18	27	2
8	4	140	7	54	4
4	2	310	16	65	5
3	1	280	15	16	1
3	1	6360	333	36	3
8	4	5550	291	34	3
6	3	4050	212	41	3
4	2	3430	180	71	6
2	1	460	24	28	2
11	5	500	26	49	4
4	2	400	21	154	12
5	2	500	26	15	1
4	2	1830	96	53	4
4	2	6120	321	30	2
6	3	1430	75	22	2
9	4	2500	131	17	1
7	3	2660	139	24	2
5	2	1320	69	28	2
5	2	950	50	69	6
5	2	70	4	41	3
6	3	100	5	17	1
1	1	20	1	22	2
1	1	50	3	27	2
4	2	140	7	106	8
0.5	1	10	1	19	2
6	3	300	16	47	4
6	3	50	3	40	3
5	2	50	3	16	1
3	1	140	7	48	4
1	1	80	4	41	3

3	1	80	4	28	2
3	1	70	4	20	2
2	1	120	6	49	4
4	2	1950	102	81	6
4	2	1670	87	56	4
3	1	1710	90	53	4
5	2	400	21	19	2
6	3	1800	94	21	2
7	3	1600	84	35	3
9	4	130	7	28	2
5	2	100	5	21	2
6	3	60	3	20	2
6	3	110	6	15	1
3	1	100	5	16	1
5	2	300	16	16	1
4	2	1180	62	42	3
5	2	3110	163	26	2
3	1	740	39	29	2
7	3	1800	94	12	1
7	3	70	4	13	1
7	3	240	13	11	1
6	3	80	4	25	2
8	4	60	3	20	2
6	3	130	7	22	2
5	2	170	9	15	1
4	2	140	7	17	1
10	4	100	5	31	2
6	3	20	1	35	3
6	3	40	2	77	6
4	2	20	1	24	2
11	5	30	2	49	4
2	1	70	4	25	2
6	3	30	2	22	2
3	1	2340	123	29	2
5	2	1200	63	46	4
8	4	740	39	15	1
4	2	300	16	41	3
7	3	280	15	27	2
4	2	170	9	23	2
5	2	890	47	12	1
4	2	10	1	15	1
6	3	30	2	10	1
5	2	120	6	16	1
9	4	40	2	17	1
4	2	290	15	13	1
4	2	40	2	7	1
5	2	440	23	24	2
10	4	690	36	20	2
6	3	390	20	11	1
0.5	1	350	18	17	1
5	2	980	51	35	3
2	1	10	1	36	3
4	2	50	3	34	3
4	2	70	4	41	3
3	1	140	7	18	1
9	4	410	21	54	4

10	4	110	6	47	4
5	2	120	6	41	3
6	3	160	8	19	2
9	4	10	1	14	1
5	2	70	4	23	2
7	3	80	4	15	1
1	1	90	5	32	3
1	1	110	6	29	2
1	1	690	36	45	4
5	2	190	10	58	5
3	1	390	20	10	1
4	2	70	4	26	2
4	2	170	9	16	1
3	1	60	3	12	1
5	2	20	1	16	1
4	2	160	8	54	4
5	2	90	5	24	2
5	2	110	6	15	1
2	1	70	4	17	1
6	3	90	5	15	1
5	2	530	28	39	3
3	1	90	5	21	2
12	5	420	22	32	3
1	1	540	28	40	3
0.5	1	70	4	15	1
2	1	60	3	19	2
6	3	70	4	23	2
8	4	30	2	16	1
4	2	80	4	34	3
4	2	70	4	10	1
4	2	230	12	8	1
0.5	1	40	2	19	2
2	1	10	1	20	2
9	4	190	10	26	2
7	3	30	2	21	2
2	1	480	25	24	2
2	1	100	5	24	2
1	1	330	17	35	3
0.5	1	150	8	17	1
3	1	290	15	32	3
4	2	340	18	60	5
13	6	340	18	32	3
8	4	340	18	48	4
4	2	20	1	87	7
3	1	460	24	77	6
2	1	70	4	33	3
2	1	60	3	52	4
17	7	180	9	7	1
2	1	40	2	23	2
2	1	50	3	28	2
3	1	650	34	26	2
15	7	80	4	28	2
17	7	30	2	23	2
5	2	20	1	18	1
6	3	30	2	47	4
3	1	60	3	17	1

3	1	10	1	10	1
10	4	10	1	42	3
4	2	40	2	11	1
2	1	100	5	34	3
3	1	500	26	68	5
4	2	220	12	33	3
4	2	470	25	14	1
6	3	70	4	9	1
2	1	420	22	40	3
5	2	30	2	22	2
7	3	30	2	54	4
5	2	130	7	14	1
3	1	10	1	21	2
1	1	520	27	11	1
2	1	260	14	13	1
5	2	50	3	2.5	1
2	1	1370	72	39	3
4	2	70	4	18	1
3	1	190	10	10	1
3	1	70	4	46	4
4	2	30	2	21	2
10	4	40	2	35	3
11	5	20	1	20	2
3	1	20	1	13	1
4		40		17	
2.283133		19.18367		12.46296	

ANALYTE METHOD DETECTION UNITS	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	1	10	0.1	10	1	10	10
PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB
HM-07-1	19	52	20	7.2	2540	10	170	<10
HM-07-2	8	213	<10	0.5	800	<1	<10	10
HM-07-3	4	189	<10	0.3	710	<1	20	<10
HM-07-4	3	281	<10	<0.1	500	<1	10	<10
HM-07-5	35	254	<10	0.1	270	<1	<10	20
HM-07-7	38	177	<10	0.2	190	<1	<10	<10
HM-07-8	35	115	<10	0.5	330	<1	<10	<10
HM-07-9	14	269	<10	0.4	460	<1	<10	<10
HM-07-10	19	202	<10	0.2	670	<1	10	<10
HM-07-11	17	251	<10	<0.1	830	<1	10	<10
HM-07-12	11	150	30	<0.1	870	1	10	20
HM-07-13	7	233	30	0.6	630	1	20	<10
HM-07-14	14	247	<10	<0.1	460	<1	<10	<10
HM-07-15	8	150	20	0.2	1240	<1	<10	<10
HM-07-16	3	150	<10	<0.1	970	<1	10	<10
HM-07-17	24	150	<10	0.1	360	<1	<10	<10
HM-07-18	26	234	<10	<0.1	320	<1	<10	<10
HM-07-19	4	271	<10	<0.1	520	<1	<10	20
HM-07-20	8	252	<10	<0.1	290	<1	<10	10
HM-07-21	9	230	<10	<0.1	320	<1	10	20
HM-07-22	13	278	<10	<0.1	480	<1	<10	10
HM-07-23	16	280	<10	<0.1	560	<1	40	10
HM-07-24	23	217	<10	<0.1	420	<1	70	<10
HM-07-25	1	244	<10	0.2	160	<1	<10	<10
HM-07-26	3	137	<10	0.3	40	<1	<10	10
HM-07-27	6	110	<10	0.3	1140	<1	190	<10
HM-07-28	<1	259	<10	0.2	370	<1	20	<10
HM-07-29	13	176	<10	<0.1	210	<1	<10	<10
HM-07-30	4	74	<10	0.1	70	<1	<10	<10
HM-07-31	2	262	<10	<0.1	300	<1	<10	<10
HM-07-32	6	107	<10	0.4	60	<1	<10	<10
HM-07-33	6	277	<10	<0.1	190	<1	<10	<10
HM-07-34	2	133	20	0.4	6900	<1	40	<10
HM-07-35	19	197	<10	<0.1	600	<1	<10	<10
HM-07-36	28	115	<10	<0.1	120	<1	<10	<10
HM-07-37	6	203	<10	<0.1	450	<1	10	<10
HM-07-38	18	132	<10	<0.1	860	<1	50	<10
HM-07-39	2	204	<10	<0.1	410	<1	<10	<10
HM-07-40	9	125	<10	<0.1	190	<1	50	<10
HM-07-41	2	168	<10	0.1	290	<1	<10	<10
HM-07-42	<1	272	10	0.2	330	<1	<10	<10
HM-07-43	3	229	<10	0.1	440	<1	<10	10
HM-07-44	5	157	40	0.3	1570	2	130	<10
HM-07-45	3	240	<10	0.1	340	<1	<10	<10
HM-07-46	9	166	10	0.1	470	2	130	10
HM-07-47	18	212	<10	0.2	510	<1	30	<10
HM-07-48	2	180	<10	0.4	40	<1	<10	20
HM-07-49	1	186	<10	<0.1	70	<1	<10	20

HM-07-50	2	232 <10		0.2	620 <1		60 <10	
HM-07-51	3	224	50	0.6	2580	2	40 <10	
HM-07-52	3	121	50	1	1680	1	60 <10	
HM-07-53	6	160	20	0.6	1820	2	190 <10	
HM-07-54	12	104 <10		3.4	570 <1		200 <10	
HM-07-55	5	249 <10		0.3	640 <1		60 <10	
HM-07-56	6	191	20	0.8	1310	2	70 <10	
HM-07-57	13	132 <10		0.2	260 <1		10 <10	
HM-07-58	21	214 <10		0.1	320 <1	<10	<10	
HM-07-59	25	252 <10		0.2	210 <1	<10	<10	
HM-07-60	27	243 <10	<0.1		300 <1	<10		10
HM-07-61	10	150	10	0.1	970 <1		10 <10	
HM-07-62	15	197 <10	<0.1		250 <1	<10	<10	
HM-07-63	24	212 <10	<0.1		360 <1		10 <10	
HM-07-64	16	260 <10	<0.1		390 <1	<10	<10	
HM-07-65	2	52	20	0.5	1190	2	90 <10	
HM-07-66	25	257 <10	<0.1		650 <1	<10		10
HM-07-67	6	293 <10	<0.1		690	1	10	10
HM-07-68	14	223 <10	<0.1		170 <1	<10	<10	
HM-07-69	7	205 <10	<0.1		150 <1	<10		10
HM-07-70	14	175 <10	<0.1		50 <1	<10	<10	
HM-07-71	8	189 <10	<0.1		250 <1	<10	<10	
HM-07-72	5	207 <10	<0.1		440 <1	<10		10
HM-07-73	9	189 <10	<0.1		150 <1	<10	<10	
HM-07-74	1	212 <10		0.2	590 <1		20 <10	
HM-07-75	5	150	10	0.5	640	3	20	10
HM-07-76	4	150	30	0.2	750	5	70	10
HM-07-77	1	213	10	0.1	300 <1		10 <10	
HM-07-78	8	150	10 <0.1		510 <1		30	10
HM-07-79	26	150 <10	<0.1		330 <1	<10		10
HM-07-80	11	150 <10	<0.1		450 <1	<10	<10	
HM-07-81	7	150 <10	<0.1		870 <1		10 <10	
HM-07-82	15	150	30 <0.1		1190 <1		30	20
HM-07-83	3	150 <10	<0.1		440 <1	<10	<10	
HM-07-84	25	246 <10	<0.1		250 <1	<10	<10	
HM-07-85	11	150	10 <0.1		710 <1		10	20
HM-07-86	12	150	10 <0.1		920	1	40 <10	
HM-07-87	10	211 <10	<0.1		330 <1	<10	<10	
HM-07-88	9	233 <10		0.6	420 <1		10 <10	
HM-07-89	9	223 <10		0.2	420 <1		60 <10	
HM-07-90	14	284 <10		0.1	280 <1	<10	<10	
HM-07-91	14	273 <10	<0.1		360 <1	<10	<10	
HM-07-92	9	150 <10	<0.1		1000 <1		80	10
HM-07-93	<1	150	10	0.2	430 <1	<10	<10	
HM-07-94	1	296 <10	<0.1		130 <1	<10	<10	
HM-07-95	23	232 <10		0.1	110 <1	<10	<10	
HM-07-96	6	150	10	0.2	680 <1	<10		30
HM-07-97	12	150 <10		0.1	480 <1		20	10
HM-07-98	15	294	10	0.1	200 <1	<10	<10	
HM-07-99	6	150 <10		0.2	270 <1	<10		10
HM-07-100	4	150	10	0.2	1170 <1		40 <10	
HM-07-101	4	294 <10		0.4	160 <1		20 <10	

HM-07-102	19	150 <10		0.7	320 <1		20	20
HM-07-103	17	150 <10		1.1	660 <1		50	20
HM-07-104	8	103 <10		0.2	230 <1	<10	<10	
HM-07-105	3	194	20	0.3	650	1	20 <10	
HM-07-106	14	288	10	0.3	300 <1	<10	<10	
HM-07-107	4	246 <10	<0.1		320 <1	<10	<10	
HM-07-108	7	150 <10		0.1	490 <1	<10	<10	
HM-07-109	25	257	20	0.3	1850	1	40 <10	
HM-07-110	4	150	10	1.9	840 <1		20	20
HM-07-111	7	86	20	1.4	560 <1		390	10
HM-07-112	6	150	20	0.2	910	1	40 <10	
HM-07-113	6	150	10	0.2	670 <1		20 <10	
HM-07-114	2	242	10	0.3	790 <1		130 <10	
HM-07-115	17	150	30	2	910	2	110 <10	
HM-07-116	20	37 <10		1.2	1630 <1		370 <10	
HM-07-117	2	150 <10	<0.1		530 <1		20 <10	
HM-07-118	5	150	10	0.4	660 <1		10 <10	
HM-07-119	3	150	20 <0.1		620 <1		20 <10	
HM-07-120	2	64 <10	<0.1		1300 <1		330 <10	
HM-07-121	7	80	60	1.3	1100	3	300	20
HM-07-122	9	188 <10		0.2	300 <1		160 <10	
HM-07-123	2	252 <10		0.3	430 <1		100 <10	
HM-07-124	17	150	20	1.2	500	1	40 <10	
HM-07-125	9	96 <10		2.4	980 <1		230 <10	
HM-07-126	13	150	20 <0.1		1270 <1		50 <10	
HM-07-127	11	150 <10	<0.1		290 <1		10 <10	
HM-07-128	<1	150	10	0.2	540 <1	<10	<10	
HM-07-129	8	150 <10	<0.1		310 <1	<10	<10	
HM-07-130	13	259 <10	<0.1		440 <1		20 <10	
HM-07-131	5	105 <10		0.4	170 <1		10 <10	
HM-07-132	8	84 <10		0.1	100 <1	<10	<10	
HM-07-133	25	95 <10		0.2	810 <1		60 <10	
HM-07-134	4	250	100 <0.1		990	5	60 <10	
HM-07-135	10	120 <10		0.2	200 <1		70 <10	
HM-07-136	2	150	30	0.1	550 <1		60 <10	
HM-07-137	19	150 <10		0.1	370 <1	<10	<10	
HM-07-138	3	150	20	0.1	600	1	60	10
HM-07-139	3	150	10	0.2	370 <1		10 <10	
HM-07-140	4	150 <10		0.2	390 <1		30 <10	
HM-07-141	1	150	30	0.4	570	2	50 <10	
HM-07-142	6	14 <10		1	2140 <1		330 <10	
HM-07-143	3	150	50	0.4	1070	2	30 <10	
HM-07-144	8	150	20	1.5	300 <1		10 <10	
HM-07-145	4	217	20	6.7	300 <1	<10	<10	
HM-07-146	7	223	20	0.4	770	2	200 <10	
HM-07-147	4	276 <10		1.4	280 <1		50 <10	
HM-07-148	5	211	20	0.3	1230	2	180 <10	
HM-07-149	5	150	20 <0.1		950 <1		30 <10	
HM-07-150	3	150	20 <0.1		620	1	10	20
HM-07-151	39	269	10	0.7	1460 <1		40 <10	
HM-07-152	7	150	20	0.5	3780	2	100 <10	
HM-07-153	21	150	20 <0.1		1680	2	20	40

HM-07-154		17	150 <10	<0.1		890 <1		10 <10	
HM-07-155		45	150	80 <0.1		2050 <1		90	30
HM-07-156		28	174 <10		0.5	360 <1		20 <10	
HM-07-157		14	282 <10		1.2	750 <1		20 <10	
HM-07-158		17	215 <10	<0.1		290 <1	<10	<10	
HM-07-159		14	215 <10	<0.1		480 <1	<10	<10	
HM-07-160		14	186 <10		0.6	140 <1	<10	<10	
HM-07-161		4	251 <10	<0.1		510 <1	<10	<10	
HM-07-162		13	161	10	0.1	220	1 <10		10
HM-07-163		6	205 <10	<0.1		390 <1	<10	<10	
HM-07-164		10	156 <10	<0.1		130 <1		10	10
HM-07-165		6	127 <10	<0.1		160 <1		10 <10	
HM-07-166		11	226 <10	<0.1		280 <1	<10	<10	
HM-07-167		10	58 <10		0.1	140 <1		20 <10	
HM-07-168		21	150	20	0.3	640 <1	<10	<10	
HM-07-169	<1		110 <10	<0.1		210 <1	<10	<10	
HM-07-170		19	200 <10	<0.1		360 <1	<10	<10	
HM-07-171	<1		258 <10	<0.1		190 <1	<10	<10	
HM-07-172		3	266	40 <0.1		1070	2	20	20
HM-07-173	<1		260 <10		0.1	220 <1	<10	<10	
HM-07-174		2	99 <10	<0.1		90 <1	<10	<10	
HM-07-175		3	113 <10		0.3	260 <1		20 <10	
HM-07-176		4	103 <10	<0.1		90 <1	<10	<10	
HM-07-177		1	135 <10		0.3	230 <1		80 <10	
HM-07-178		5	194 <10	<0.1		600 <1		20 <10	
HM-07-179		10	83 <10		9.1	50	1 <10	<10	
HM-07-180	<1		168	20	0.1	1000	1	50 <10	
HM-07-181		6	172 <10		0.1	810	1	80 <10	
HM-07-182		2	145	20 <0.1		620	2	30 <10	
HM-07-183		9	254 <10	<0.1		740 <1		10	10
HM-07-184		8	161 <10		0.4	400 <1	<10	<10	
HM-07-185		6	150 <10	<0.1		600	1 <10	<10	
HM-07-186		14	150	20 <0.1		890 <1	<10	<10	
HM-07-187		9	162 <10		0.1	270 <1	<10	<10	
HM-07-188		13	150	10 <0.1		660 <1		20 <10	
HM-07-189		22	163 <10		0.9	200 <1		20 <10	
HM-07-190		19	138 <10		0.2	280 <1	<10	<10	
HM-07-191		38	239 <10		0.8	270 <1	<10	<10	
HM-07-192		9	235	10 <0.1		500 <1	<10	<10	
HM-07-193		6	222 <10	<0.1		270 <1	<10	<10	
HM-07-194		4	269	10 <0.1		390 <1	<10	<10	
HM-07-195		10	100 <10	<0.1		40 <1	<10	<10	
HM-07-196		3	223 <10	<0.1		440 <1		10 <10	
HM-07-197		8	236	10 <0.1		300 <1	<10	<10	
HM-07-198		6	282 <10	<0.1		610 <1		10	10
HM-07-199		17	188 <10		0.1	230 <1	<10	<10	
HM-07-200		12	251	10 <0.1		440 <1		70	20
HM-07-201		13	240 <10	<0.1		270 <1		30 <10	
HM-07-202		5	166 <10		0.3	830 <1		110 <10	
HM-07-203		4	150	20 <0.1		1210 <1	<10	<10	
HM-07-204		11	76	20 <0.1		1020	1	230	10
HM-07-205		6	120 <10	<0.1		60 <1	<10	<10	

HM-07-206	1	223	10 <0.1		610	1	30	10
HM-07-207	10	189 <10	<0.1		540 <1		30 <10	
HM-07-208	7	169 <10		0.2	450 <1		10 <10	
HM-07-209	4	208 <10	<0.1		170 <1	<10	<10	
HM-07-210	2	112	10	0.4	430 <1		200 <10	
HM-07-211	10	235 <10	<0.1		380 <1		30 <10	
HM-07-212	3	235 <10		0.1	190	1	10 <10	
HM-07-213	4	32	20	0.2	760 <1		170 <10	
HM-07-214	7	150	20 <0.1		780	2	10 <10	
HM-07-215	6	160	30	0.2	1540	2	20 <10	
HM-07-216	1	273	20 <0.1		660	4 <10		10
HM-07-217	6	150	10 <0.1		630 <1	<10		20
HM-07-218	1	250 <10	<0.1		380 <1	<10	<10	
HM-07-219	19	275	10	0.2	540 <1		10 <10	
HM-07-220	5	216 <10		0.1	100 <1	<10	<10	
HM-07-221	26	150 <10	<0.1		260 <1	<10	<10	
HM-07-222	7	202 <10	<0.1		600 <1		10 <10	
HM-07-223	2	178 <10	<0.1		910 <1		100 <10	
HM-07-224	4	172 <10	<0.1		720 <1		10 <10	
HM-07-225	3	73 <10	<0.1		640	1	380	20
HM-07-226	6	256	10	0.1	580 <1		20 <10	
HM-07-227	6	284	10 <0.1		630 <1		10	10
HM-07-228	1	246	20 <0.1		2410	3 <10	<10	
HM-07-229	11	243 <10	<0.1		820 <1		60	20
HM-07-230	20	36 <10		0.1	120 <1		10	6
HM-07-231	11	101 <10		0.9	570 <1		210	3
HM-07-232	10	274 <10	<0.1		520 <1		20	14
HM-07-233	15	179 <10		0.4	780 <1		140	19
HM-07-234	11	125 <10	<0.1		890 <1		20	5
HM-07-235	9	152 <10		0.4	590	1	200	11
HM-07-236	2	297	30	0.2	2580	3	30	3
HM-07-237	7	150	20	0.9	1840	14 <10		3
HM-07-238	2	28 <10	<0.1		680 <1		860	5
HM-07-239	3	180 <10		0.3	720	1	60	1
HM-07-240	2	270	20 <0.1		360 <1		10	4
HM-07-241	8	237 <10		0.3	430 <1	<10		2
HM-07-242	40	136 <10		0.1	900 <1		80	11
HM-07-243	2	150	10	0.1	610	1	20	10
HM-07-244	16	210 <10	<0.1		430 <1	<10		4
HM-07-245	3	254	10	0.1	710	1	60	4
HM-07-246	18	142 <10		0.1	150 <1		10	4
HM-07-247	11	282 <10		0.2	750 <1		20	2
HM-07-248	22	189 <10	<0.1		380 <1	<10		5
HM-07-249	4	247	10	1.1	1210	1	30 <1	
HM-07-250	4	150	40	0.3	1620	4	30	3
HM-07-251	9	73 <10		0.1	340 <1		20	7
HM-07-252	5	173	40	0.7	1650	10	90	7
HM-07-253	15	268	10	0.9	650 <1	<10		17
HM-07-254	5	9 <10		0.3	3600 <1		220	2
HM-07-255	22	151 <10		0.4	420 <1		40	3
HM-07-256	3	11	10	0.5	1690 <1		290	5
HM-07-257	7	222	10	0.1	680 <1		120	2

HM-07-258		6	18 <10		0.3	960 <1		680	10
HM-07-259		21	144 <10		0.5	570 <1		40	4
HM-07-260		3	208 <10	<0.1		520 <1		20	10
HM-07-261		6	294	50	0.7	1110	3	50	3
HM-07-262		11	241	20 <0.1		980	1	70	3
HM-07-263		9	273	20	0.4	770 <1		50	6
HM-07-264		12	253 <10	<0.1		160 <1	<10		7
HM-07-265		3	78	10 <0.1		470 <1		230	4
HM-07-266		4	32 <10	<0.1		1070 <1		200	2
HM-07-267		2	73	10	0.1	1490 <1		90	1
HM-07-268		17	193 <10	<0.1		300 <1		20	10
HM-07-269		8	150	10 <0.1		470 <1	<10		6
HM-07-271		28	283 <10		0.1	620 <1	<10		12
HM-07-273		21	277 <10		0.2	410 <1		20	12
HM-07-275		16	237 <10		0.5	680 <1		30	6
HM-07-277		12	260 <10		0.1	310 <1	<10		9
HM-07-279		17	255 <10	<0.1		310 <1	<10		6
HM-07-281		18	167 <10	<0.1		100 <1	<10		6
HM-07-285		5	290 <10	<0.1		740 <1	<10		2
HM-07-287		5	223 <10	<0.1		250 <1	<10		6
HM-06-1		9	210	10	0.3	490 <1		10 <10	
HM-06-2		21	240	10	0.2	700 <1	<10	<10	
HM-06-3		44	230	10	1.6	240 <1	<10	<10	
HM-06-4		40	217 <10		0.6	360 <1	<10	<10	
HM-06-5		32	191 <10		0.6	210 <1	<10	<10	
HM-06-6		12	208	20	1.9	340 <1	<10	<10	
HM-06-7		14	300	30	0.5	1840	2	20 <10	
HM-06-8		15	300 <10		0.1	400 <1	<10	<10	
HM-06-9		12	274 <10	<0.1		650 <1	<10		10
HM-06-10		31	234 <10	<0.1		710 <1	<10		10
HM-06-11		1	153	30	1.1	1060	3	20	20
HM-06-12	<1		239	90	0.2	570	2 <10	<10	
HM-06-13		8	119	20	0.7	390 <1		130 <10	
HM-06-14		17	251	10	0.2	630 <1		20	10
HM-06-15		4	107	20	1.1	610	2	100 <10	
HM-06-16		11	154	20	0.6	1110	2	130 <10	
HM-06-17		29	280	30	1.6	610	2 <10	<10	
HM-06-18		10	157	20	0.5	830 <1		160	20
HM-06-19		26	92	10	1.7	660 <1		270	20
HM-06-20		6	149	20	0.5	1090	2	170	10
HM-06-21		2	11	60	0.2	470 <1		210	10
HM-06-22		6	32	40	0.4	460 <1		250 <10	
HM-06-23		3	198	30	0.3	600	2	70	10
HM-06-24	<1		174	20	0.2	280	1	60	90
HM-06-25		6	81	40	1	800	2	120	10
HM-06-26		11	114	20	0.7	840	3	130	30
HM-06-27		3	215	30	0.9	440	3	80	10
HM-06-28		12	281	10	0.3	570 <1	<10		10
HM-06-29		17	186	100	0.9	740	3	50 <10	
HM-06-30		54	300	30	0.2	610 <1	<10	<10	
HM-06-31		53	255 <10		0.4	710 <1		20	10
HM-06-32		21	220	30	1.2	2440	2	70	50

HM-06-33		38	300	30	0.2	1630 <1	<10		30
HM-06-34		47	275 <10		0.2	820 <1		10	30
HM-06-35		70	300	50	0.9	2310	2	30	30
HM-06-36		8	244	20	0.3	720 <1		10 <10	
HM-06-37		6	10	20	0.4	3810 <1		230	10
HM-06-38		7	88	30	0.4	1080	2	40 <10	
HM-06-39		57	223 <10		0.4	650 <1		10	10
HM-06-40		10	300	30	0.2	840	1 <10		20
HM-06-41		41	245 <10	<0.1		680 <1		10	50
HM-06-42		93	217 <10		0.2	430 <1	<10		20
HM-06-43		134	240 <10		1.2	370 <1	<10		30
HM-06-44		104	222 <10		1.3	550 <1	<10		20
HM-06-45		88	255 <10		0.3	1570 <1		40	30
HM-06-46		16	293	40 <0.1		1540	2	20	20
HM-06-47		23	259 <10		0.2	410 <1	<10	<10	
HM-06-48		15	189 <10		0.1	650 <1	<10	<10	
HM-06-49		1	151	20	0.3	420 <1	<10	<10	
HM-06-50	<1		213	20 <0.1		400 <1	<10	<10	
HM-06-51	<1		300	20	0.1	460 <1	<10	<10	
HM-06-52	<1		300 <10	<0.1		310 <1	<10	<10	
HM-06-53		4	300	20	0.3	440 <1	<10	<10	
HM-06-54		14	240	20	0.2	630 <1	<10	<10	
HM-06-55		30	179 <10		0.2	400 <1	<10	<10	
HM-06-56		1	277	40	0.2	320	1 <10	<10	
HM-06-57	<1		217 <10		0.1	250	2 <10	<10	
HM-06-58	<1		284	20	0.2	330 <1	<10	<10	
HM-06-59		6	261	10 <0.1		440 <1		20 <10	
HM-06-60		10	300	10	0.2	670 <1		20 <10	
HM-06-61		2	214	10	0.1	270 <1		10 <10	
HM-06-62		42	225	100	0.6	1060	7	40	40
HM-06-63		57	294	50	0.2	840	2 <10		20
HM-06-64		20	273	50	0.4	820	2	40	20
HM-06-65		41	206 <10		0.7	330 <1	<10		10
HM-06-66		38	219 <10		0.1	830 <1	<10		20
HM-06-67		63	256	10	0.4	1020 <1		20	20
HM-06-68		30	240 <10		0.2	650 <1		10 <10	
HM-06-69		29	227 <10		0.1	680 <1		40 <10	
HM-06-70		12	192 <10		0.1	390 <1	<10	<10	
HM-06-71		13	193 <10		0.2	550 <1	<10	<10	
HM-06-72		14	258 <10		0.1	640 <1	<10	<10	
HM-06-73		16	252 <10	<0.1		550 <1	<10	<10	
HM-06-74		43	296 <10		0.1	350 <1		10	20
HM-06-75		77	276 <10		0.3	570 <1		10	20
HM-06-76		149	235 <10		0.4	430 <1		40	20
HM-06-77		84	144 <10		0.2	210 <1	<10	<10	
HM-06-78		99	161 <10		0.8	200 <1	<10	<10	
HM-06-79		575	115 <10		14.1	120 <1	<10	<10	
HM-06-80		129	228	40	10	380	2	20 <10	
HM-06-81		4	215 <10	<0.1		600 <1		140 <10	
HM-06-82		17	217 <10	<0.1		300 <1		20 <10	
HM-06-83		10	205 <10	<0.1		500 <1		20 <10	
HM-06-84		2	240 <10		0.2	200 <1	<10	<10	

HM-06-85	7	217 <10		0.2	180 <1	<10	<10	
HM-06-86	7	281	10 <0.1		560 <1	<10	<10	
HM-06-87	8	300	20	0.2	640 <1	<10	<10	
HM-06-88	8	245 <10		0.2	170 <1	<10	<10	
HM-06-89	6	295 <10		0.4	250 <1	<10	<10	
HM-06-90	40	243	20	0.9	260 <1	<10	<10	
HM-06-91	98	201 <10		1.6	140 <1	<10	<10	
HM-06-92	69	227 <10		1.2	340	1	30	20
HM-06-93	100	237	20	4.2	290 <1	<10		10
HM-06-94	91	172 <10		1.1	110 <1	<10	<10	
HM-06-95	37	300 <10		0.2	590 <1		20	10
HM-06-96	20	234 <10	<0.1		530 <1	<10	<10	
HM-06-97	35	262 <10		0.1	470 <1		20 <10	
HM-06-98	16	261 <10	<0.1		550 <1		20 <10	
HM-06-99	7	228 <10		0.2	880 <1	<10	<10	
HM-06-100	18	153 <10		0.2	210 <1		10 <10	
HM-06-101	14	236 <10	<0.1		460 <1	<10		10
HM-06-102	18	234 <10	<0.1		210 <1		10 <10	
HM-06-103	7	217 <10	<0.1		470 <1	<10	<10	
HM-06-104	26	171 <10	<0.1		180 <1	<10	<10	
HM-06-105	17	220 <10	<0.1		450 <1		20 <10	
HM-06-106	18	211 <10		0.7	700 <1		30	10
HM-06-107	21	179 <10		0.4	370 <1	<10		20
HM-06-108	29	263 <10		3.9	400 <1	<10	<10	
HM-06-109	43	192 <10		17.5	150 <1	<10	<10	
HM-06-110	10	156	10	5.5	260 <1	<10	<10	
HM-06-111	67	274	10	0.7	930 <1		10 <10	
HM-06-112	8	246 <10		0.3	610 <1	<10	<10	
HM-06-113	13	235	10	2.2	330 <1	<10	<10	
HM-06-114	3	188	50	1.1	1170	2	50	10
HM-06-115	3	224	10	0.3	510	1	20 <10	
HM-06-116	6	252 <10		0.6	330 <1	<10	<10	
HM-06-117	13	179 <10		0.6	420 <1	<10	<10	
HM-06-118	21	171 <10		0.2	260 <1	<10	<10	
HM-06-119	10	224 <10		0.2	330 <1	<10	<10	
HM-06-120	13	203 <10		0.3	360 <1	<10	<10	
HM-06-121	12	200 <10		0.2	350 <1	<10	<10	
HM-06-122	7	138	20	6.5	420 <1	<10	<10	
HM-06-123	11	126 <10		37.4	230 <1	<10	<10	
HM-06-124	3	266	20	3.3	200	11	<10	10
HM-06-125	92	206 <10		1	480 <1	<10	<10	
HM-06-126	10	227 <10	<0.1		480 <1	<10	<10	
HM-06-127	17	225 <10		0.1	400 <1	<10	<10	
HM-06-128	23	193 <10	<0.1		400 <1	<10	<10	
HM-06-129	12	212 <10	<0.1		710 <1	<10	<10	
HM-06-130	7	180 <10	<0.1		180 <1	<10	<10	
HM-06-131	6	264	10	0.2	1000 <1	<10	<10	
HM-06-132	4	191 <10		0.2	270 <1	<10	<10	
HM-06-133	12	148 <10		0.2	300 <1	<10	<10	
HM-06-134	5	248 <10	<0.1		650 <1	<10	<10	
HM-06-135	22	172 <10	<0.1		340 <1	<10	<10	
HM-06-136	12	240 <10		1.5	800 <1	<10		10

HM-06-137	7	195 <10		1.5	510	1 <10	<10	
HM-06-138	157	202	10	9.1	190	2 <10		10
HM-06-139	10	120	50	3.7	410	21 <10		30
HM-06-140	2	183	10	1.4	340	9 <10	<10	
HM-06-141	8	149 <10		1.3	500 <1	<10	<10	
HM-06-142	32	218 <10		0.8	610 <1	<10	<10	
HM-06-143	16	173 <10		0.3	170 <1	<10	<10	
HM-06-144	19	224 <10		0.2	790 <1		50 <10	
HM-06-145	8	185 <10		0.2	310 <1	<10	<10	
HM-06-146	4	143 <10		0.4	110 <1	<10		10
HM-06-147	2	130 <10		0.9	250 <1	<10	<10	
HM-06-148	4	144 <10		0.4	190 <1	<10	<10	
HM-06-149	11	241 <10		0.2	400 <1	<10	<10	
HM-06-150	7	169 <10		1.5	620 <1	<10	<10	
HM-06-151	2	204 <10		0.5	600	2 <10	<10	
HM-06-152	6	174 <10		2.6	160 <1	<10	<10	
HM-06-153	4	185	20	0.8	220	12 <10	<10	
HM-06-154	2	230 <10		0.5	390	3 <10	<10	
HM-06-155	5	224	10	2.4	230	7 <10	<10	
HM-06-156	10	219 <10		1.4	480 <1		20	10
HM-06-157	16	186 <10		1.2	700 <1	<10		20
HM-06-158	11	256 <10		0.7	690 <1	<10	<10	
HM-06-159	2	198	30	0.5	960	3 <10	<10	
HM-06-160	4	227	20	0.2	990	2	10 <10	
HM-06-161	5	204	20	1	900	2	10	10
HM-06-162	7	121	10	5.1	840	1 <10	<10	
HM-06-163	14	173	20	4.9	590	1 <10	<10	
HM-06-164	298	91 <10		64.3	40	3 <10	<10	
HM-06-165	3	128 <10		3.5	110 <1	<10	<10	
HM-06-166	28	172 <10		27.2	170	1 <10	<10	
HM-06-167	94	190	20	43.7	660	17 <10		30
HM-06-168	15	197 <10		0.5	610	1	20 <10	
HM-06-169	12	106 <10		0.3	1330 <1		120 <10	
HM-06-170	13	225 <10		0.3	220 <1		20 <10	
HM-06-171	8	176 <10		1.5	200 <1	<10	<10	
HM-06-172	8	178 <10		0.4	200 <1	<10	<10	
HM-06-173	25	174 <10		0.2	190 <1	<10	<10	
HM-06-174	25	224 <10		0.5	1210 <1		10 <10	
HM-06-175	25	205 <10		0.4	610 <1		20 <10	
HM-06-176	17	217 <10		3.2	540	4 <10	<10	
HM-06-177	5	200	70	2.1	510	40 <10		10
HM-06-178	48	192	10	6.7	300	2 <10	<10	
HM-06-179	3	77 <10		0.6	1060 <1		90 <10	
HM-06-180	4	103 <10		0.6	110 <1	<10	<10	
HM-06-181	1	218	50 <0.1		720	2 <10		20
HM-06-182	7	109 <10		0.4	260 <1		60 <10	
HM-06-183	9	75 <10		3.2	830	1	140 <10	
HM-06-184	5	91 <10		0.4	860 <1		200	20
HM-06-185	4	130 <10		0.7	410 <1	<10	<10	
HM-06-186	<1	247 <10		0.1	320 <1	<10		10
HM-06-187	<1	204 <10	<0.1		310 <1	<10	<10	
HM-06-188	20	42 <10		2.8	120 <1	<10	<10	

HM-06-189	43	155	270	2.2	780	77	30	30
HM-06-190	32	167 <10		0.7	230 <1	<10	<10	
HM-06-191	6	191 <10		0.2	250 <1	<10	<10	
HM-06-192	35	211	10	2.2	430	2 <10	<10	
HM-06-193	45	190 <10		1.3	230 <1	<10	<10	
HM-06-194	26	129 <10		1	1270 <1		80 <10	
HM-06-195	39	86 <10		3.3	330 <1		110 <10	
HM-06-196	17	181 <10		0.9	500 <1		40 <10	

Ce	Co	Cr	Cu	Dy	Er	Eu	Fe	Gd	La
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
5	5	100	10	1	0.5	0.5	1	1	1
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB
1450	28	<100	6980	118	39.8	70	37	255	1140
171	33	100	560	26	15.2	7.9	67	28	68
423	64	100	540	25	10.8	11.5	55	41	171
102	41	200	310	7	4.3	2	149	8	54
88	63	100	290	16	9.8	3.8	45	15	39
204	21	<100	400	29	16.3	10.3	66	37	96
129	52	<100	550	24	14	6.1	24	22	46
47	65	<100	100	9	6	2.2	62	7	20
167	49	<100	120	20	9.9	7.3	23	25	74
62	89	<100	260	10	6.1	2.1	58	8	24
122	243	200	300	9	4.8	2.4	104	9	35
578	94	300	740	42	20.3	18	223	68	253
60	55	<100	250	8	4.7	2.3	57	8	32
112	110	100	400	8	4.4	2.7	113	9	40
108	57	<100	180	6	3.8	2.2	157	8	58
126	114	<100	280	14	7.2	4.7	61	18	103
95	37	<100	160	16	7.7	3.7	21	14	35
32	86	<100	130	8	5.5	1.3	79	5	19
40	62	<100	120	11	7.4	2.2	57	8	16
52	62	<100	190	11	6.7	2.4	77	9	21
107	52	<100	130	19	8.4	4.6	23	17	41
123	29	<100	240	12	6.1	3.9	77	14	55
223	42	100	340	15	6.5	6.3	70	22	110
133	17	<100	290	16	8.8	3.9	62	15	58
123	50	<100	470	24	13	5.8	14	23	45
1030	65	<100	1220	95	45.1	44.7	53	181	807
52	25	<100	300	7	4.8	1.5	168	6	27
82	46	<100	130	13	7	3.8	41	13	38
1070	9	<100	270	47	22.4	23.6	17	88	415
28	36	<100	160	5	3.2	0.8	128	3	15
365	17	<100	220	36	16.4	15.9	10	53	192
55	51	<100	140	7	4.5	1.8	73	7	24
4480	92	<100	370	255	132	96.2	77	390	2100
56	49	<100	130	9	6	2.3	62	8	31
79	18	<100	120	14	7.3	4.3	13	16	38
80	38	<100	130	12	6.4	3.4	18	12	43
157	29	<100	150	16	7.2	7	25	23	107
76	24	100	250	6	3.1	2.1	260	7	34
436	18	<100	240	36	15.9	15.9	17	56	226
122	10	<100	110	8	3.8	2.9	49	10	62
80	12	<100	160	7	3.2	2.2	114	8	39
26	134	<100	640	8	7.8	1	69	4	12
366	99	200	390	19	8.7	8.4	139	32	171
66	59	<100	340	11	7.9	2.1	99	9	33
1020	62	100	1770	57	27.7	22.4	76	88	416
365	63	100	400	25	12.9	9.8	113	36	151
44	31	<100	900	15	10.1	2.1	33	9	16
25	24	<100	220	8	6.8	1.1	36	4	11

397	15	200	280	27	11.6	11.4	74	44	200
571	85	700	420	23	9.9	10.4	195	41	227
919	57	200	820	66	28.5	33.9	116	134	684
232	65	400	560	16	7.6	7.3	198	28	139
330	33 <100		570	25	11.9	12	17	49	150
427	61	100	310	29	12.4	13.2	74	48	176
295	192	100	1930	24	13	7.7	139	30	122
128	47 <100		180	16	7.1	6.3	23	22	62
57	54 <100		130	12	8.4	2.5	47	9	25
53	44 <100		160	7	4.4	2.3	69	8	31
35	94 <100		160	8	5.5	1.6	62	6	14
290	132	200	340	28	13	10	72	36	150
63	28 <100		190	11	5.9	2.5	23	10	26
68	57 <100		190	13	6.5	3.4	17	12	34
26	99 <100		130	7	5.2	1.4	55	5	13
1360	80	100	1370	89	42.5	49.2	109	199	1090
113	67 <100		220	11	6.6	3.5	85	12	54
133	111 <100		270	13	6.8	4	111	14	60
20	39 <100		120	7	6.3	1.1	30	4	10
57	44 <100		120	10	6.6	1.9	38	8	22
33	38 <100		50	11	7.2	1.9	28	7	12
40	42 <100		80	11	6.9	2.2	39	8	16
45	51 <100		80	10	6.9	2.1	38	8	21
44	17 <100		40	9	6	2.2	38	8	21
19	221 <100		320	1	1 <0.5		198	1	10
146	48	200	670	13	6.1	5	132	18	89
1470	211	200	390	56	27.4	28.3	100	99	585
387	28 <100		200	31	15.3	12.8	81	43	120
72	100	100	270	13	8.6	3.1	73	10	31
122	57 <100		320	18	9.6	4.5	54	17	45
38	198 <100		150	11	9.5	1.7	66	6	19
177	77 <100		240	19	10.7	5.1	80	19	80
95	59	100	300	14	7.4	4	139	14	59
128	113	100	220	17	14.5	3.1	164	12	64
59	49 <100		150	21	12.4	4.3	40	16	30
98	128	100	140	18	9.8	4.2	60	15	48
215	144	200	180	16	8.1	5.6	107	20	80
30	62 <100		140	16	10.2	2.3	44	9	13
372	34 <100		450	30	14.8	12.6	66	44	134
80	40 <100		260	18	10.5	4	98	16	30
146	51 <100		160	21	9.7	7.2	49	25	88
48	50 <100		110	13	7.1	2.4	37	9	21
42	155 <100		290	10	6.1	2.1	119	7	22
20	27 <100		310	2	1.5 <0.5		196	2	10
31	31 <100		350	17	13.3	2	70	9	13
97	29 <100		370	23	11.9	5.4	28	19	35
243	178	100	650	28	13.6	7.6	34	27	82
207	120 <100		360	26	13.3	7.7	71	28	87
149	66 <100		450	32	18.7	7.4	65	30	58
176	149 <100		400	22	11.4	6.8	40	24	70
713	50	300	370	39	16.4	16.4	138	55	220
254	26 <100		430	33	17.5	11.6	72	42	105

85	95 <100		930	13	6.9	3.3	68	12	35
131	82 <100		440	18	10.7	4.4	85	16	47
452	42 <100		310	56	25.2	26.7	11	91	363
1800	56	200	400	101	39.8	52.8	100	185	1030
269	61 <100		220	35	20.5	13.4	77	47	123
62	40 <100		240	6	3.9	1.8	141	6	30
208	46 <100		200	29	14.5	9.4	49	30	79
783	58	100	190	38	18.8	16.9	79	58	228
249	45 <100		1120	30	14.8	9.1	75	31	97
144	76 <100		8320	16	8.5	5.1	101	24	69
692	49	400	650	37	15	17.7	97	62	332
348	190	200	750	26	13.9	9.1	145	31	141
632	44	100	480	33	13.6	15.3	82	57	258
262	156	100	1240	22	10.8	8.3	172	30	89
646	12 <100		2540	71	26.2	40	10	151	466
138	22	200	270	8	4.3	2.8	150	10	73
555	44	200	520	52	22.5	23.3	82	82	271
40	45 <100		140	7	4.5	2	178	7	23
307	35 <100		110	13	6.1	6.8	56	26	147
1150	281	100	4780	36	15.9	20.6	66	77	536
744	59 <100		450	47	20.2	19.7	42	73	231
412	19 <100		320	26	11.1	11.3	85	39	156
82	277	100	1140	11	6.1	2.9	232	10	36
150	20 <100		1460	27	11.4	11.8	37	42	88
144	77	200	250	13	7.1	4.7	150	15	70
262	49	100	350	21	9.8	9.1	56	30	137
198	73 <100		750	14	8.4	4.4	95	15	73
101	67 <100		120	15	8.6	4	95	13	51
127	76 <100		350	15	8	4.2	114	14	44
1390	30 <100		580	55	22.8	31.7	17	112	534
33	65 <100		110	5	3.7	1.4	182	5	12
194	18 <100		180	38	16.3	16.6	7	64	225
180	198	400	650	7	4.1	2.1	606	8	52
221	22 <100		160	19	9.1	10.3	14	38	209
429	469	200	440	28	13.3	10.7	78	36	170
157	65 <100		220	19	9.1	6.1	41	22	57
371	262	100	560	39	21.5	10.7	145	41	118
37	27 <100		420	5	3.1	1.5	169	5	17
357	46 <100		300	22	9.7	9.6	98	33	128
215	151	200	550	14	6.2	6.5	375	22	81
878	33 <100		1280	90	36	48.6	5	197	592
143	83	300	900	9	4.3	2.9	426	10	88
109	33 <100		1380	11	7.2	3.3	215	12	51
75	25 <100		1610	7	4.3	2.3	301	8	35
398	110	200	390	14	6.3	6.4	138	23	90
157	73 <100		630	22	9.6	7.3	60	26	54
172	80	200	440	13	5.9	5.7	144	20	76
47	88 <100		130	10	6.6	2.5	98	8	20
110	83	100	90	17	11.2	4.2	105	15	41
895	19 <100		880	89	36.8	42.9	47	158	572
903	90	300	1350	59	24.1	27.1	171	99	562
132	237	200	650	17	11.3	3.9	165	15	47

44	148 <100		90	12	8.4	2.1	98	8	21
245	272	600	830	28	14.8	9.5	411	30	130
288	13 <100		370	34	18.1	10.8	37	41	90
151	51	300	310	21	12	5.2	101	20	62
44	27 <100		100	11	6.2	2.2	54	8	19
77	61 <100		160	17	9.9	4.2	62	15	44
30	22 <100		760	10	8.4	1.3	74	5	13
25	34 <100		80	3	2.3	0.7	90	2	14
36	53 <100		200	7	6.2	1.2	127	4	18
42	48 <100		60	8	6	1.8	47	6	17
117	24 <100		70	14	6.7	4.5	12	17	45
217	46 <100		250	21	9.6	8.8	38	30	94
27	76 <100		140	5	3.7	1	82	3	13
58	15 <100		70	10	6	3	12	11	28
97	78	200	460	15	8.4	4	204	14	48
114	70 <100		600	17	9.7	5.3	199	18	42
30	60 <100		170	8	6.4	1.7	48	6	14
38	13 <100		190	4	2.4	1.3	68	4	18
70	66	100	660	5	3.1	1.6	166	5	32
62	17 <100		300	7	3.3	2.1	102	8	28
252	19 <100		170	44	18	14.8	8	50	120
1090	65 <100		680	83	32.7	33.3	22	117	431
93	24 <100		170	16	8.2	5	18	17	34
260	23 <100		490	18	7.3	8.8	68	31	117
85	76 <100		210	10	5.9	3.4	80	11	40
13	13 <100		2950	4	3.3	0.8	174	3	6
232	44	200	1030	20	8.7	6.4	233	25	106
470	75 <100		1910	52	21.9	21.4	84	78	289
127	86	100	560	7	4.2	2	306	7	36
185	117 <100		220	17	8.2	4.9	54	17	77
200	45 <100		250	19	8.9	7.6	73	26	82
163	55 <100		120	28	14.5	6.8	138	24	61
329	113	100	900	31	13.6	13	67	41	185
62	106 <100		100	15	8	3.6	30	13	27
502	73	200	410	31	12.8	14.1	92	47	210
364	31 <100		1180	82	40.8	27.9	29	107	271
317	40 <100		450	36	15.8	14	31	48	119
122	65 <100		360	20	10.7	5.7	54	20	51
152	57 <100		240	16	9	5.5	170	20	80
17	81 <100		70	4	4.2	0.7	47	3	8
231	75	100	250	17	11.1	5.2	158	19	72
159	16 <100		80	18	9.7	8.2	21	26	68
102	96 <100		250	9	6.5	2.7	160	9	35
127	134 <100		100	16	8.8	4.9	46	17	49
58	380 <100		210	13	8.8	2.6	119	10	23
99	63 <100		110	20	11.2	5.1	39	18	37
261	85 <100		270	24	11.9	7	121	26	75
221	74 <100		390	23	9.9	8.1	88	29	90
1090	17 <100		510	34	12.8	19.5	43	69	455
104	123	100	420	7	3.9	2.1	91	6	36
305	61	100	250	13	5.8	6	83	23	135
146	37 <100		150	21	12.1	6.4	13	22	62

22	63 <100		190	4	2.5	0.7	186	2	11
56	73 <100		60	10	5	3.2	32	11	38
80	57 <100		180	12	6	3.4	30	11	34
77	27 <100		140	15	7.7	3.6	25	12	32
678	62 <100		180	24	10.4	13.3	70	50	351
62	72 <100		90	11	5.6	3.2	42	11	27
402	40 <100		1420	63	29.6	22.9	146	85	283
181	57 <100		400	31	14.5	16.5	67	65	246
335	84	100	330	24	13	8.4	123	30	155
876	64	200	530	48	19.7	24.1	152	85	427
150	76 <100		170	8	3.7	3.8	87	13	75
185	139	100	230	22	11.8	6.8	142	24	86
100	36 <100		450	14	8.9	3.1	152	12	53
310	73	200	250	22	10.5	8.1	94	28	113
154	22 <100		170	21	10.8	6.5	57	23	60
99	44 <100		150	19	10.6	5.1	25	18	45
61	33 <100		220	4	2.1	1.4	222	5	33
682	21 <100		360	63	29.2	28.3	76	110	464
65	126 <100		240	7	4	2	115	7	28
123	64	100	150	6	3.2	2.4	56	9	31
188	76	100	400	13	7.2	5	165	18	94
109	159 <100		210	21	14.3	4.1	128	16	43
582	94	300	980	29	11.6	14.2	305	46	243
89	45 <100		140	13	6.5	3.7	54	14	32
193	25 <100		200	16	10.2	6.1	10	22	107
2940	11 <100		2150	164	66	91	7	339	1520
73	128 <100		190	14	7.6	3.4	74	13	41
1460	13 <100		1710	152	71.2	46.7	35	191	565
466	39	100	220	24	9.7	11.1	68	40	224
1250	40 <100		790	58	24	26.2	24	100	437
1070	109	400	780	35	14.1	21.5	328	71	530
1570	97	300	840	46	19	29.9	153	99	620
182	9 <100		490	8	3.9	4.7	14	18	104
801	78	100	1410	39	16.8	19.9	79	71	295
158	38	100	280	12	6.2	4.2	178	15	80
93	58	100	850	6	3.2	1.9	193	8	42
205	52 <100		320	13	5.8	6	19	20	87
54	92 <100		580	7	4.5	1.6	121	6	25
300	20 <100		150	19	8.9	9.7	65	31	153
359	151	200	440	22	9.9	9.8	140	36	162
171	15 <100		100	14	6.2	6.1	20	20	65
236	30	100	480	16	8.4	5.7	140	21	84
73	35 <100		110	14	6.8	3.5	21	13	33
725	30	200	790	37	16.6	18.1	134	66	323
695	80	200	310	32	13.5	18.1	228	62	470
308	34 <100		220	52	23.9	22.5	12	76	236
1510	170	300	850	47	19.3	28.2	177	100	594
294	507	100	2520	13	5.9	4.7	91	17	60
686	33 <100		1660	28	12.9	14.6	24	63	370
168	36 <100		400	12	5.8	5.7	82	19	76
632	16 <100		4330	20	9.9	11.8	14	50	320
154	22	100	370	9	4.2	4.2	110	15	71

7	8 <100		2860	2	1.1	<0.5	9	3	3
40	127 <100		650	5	2.7	1.1	248	4	21
136	320 <100		430	17	9.3	4.6	113	17	47
781	104	400	780	27	11.5	13.9	331	46	298
667	135	200	580	43	20.6	17	370	66	300
98	669	300	760	9	5	2.4	191	9	32
95	59 <100		380	16	10.3	4.5	74	17	49
2100	50 <100		1450	87	38.2	40.5	123	165	964
545	50 <100		680	30	12.9	17.1	40	66	293
2490	58	100	530	72	29.8	39.1	86	149	1150
102	55 <100		110	15	8	5	42	17	54
130	76 <100		220	10	5.4	3.3	76	11	46
164	77 <100		160	15	8.4	4.7	51	17	66
259	87 <100		300	20	7.9	6.9	40	24	97
555	83	100	240	24	10	10.9	82	39	219
170	48 <100		430	20	10.5	6.4	49	24	71
187	122 <100		340	14	7	5.4	40	20	91
122	31 <100		90	16	8.9	4	19	16	50
31	44 <100		130	6	3.9	1.5	85	5	15
204	46 <100		150	14	7.5	5.1	62	19	96
14	42 <100		200	2	1.7	0.6	160	1	10
41	42 <100		250	10	6.2	2	82	7	17
86	62 <100		820	15	9.8	3.8	59	13	30
67	65 <100		220	15	8.6	3.9	27	12	32
179	56 <100		300	22	12.4	6.1	34	22	78
180	56 <100		520	32	17.6	9.7	69	35	89
443	85	200	620	30	16.2	11.7	194	41	185
133	69 <100		150	14	6.4	4.7	71	16	74
41	65 <100		130	8	4.8	2	76	7	20
38	56 <100		130	9	6.4	2	53	7	23
42	46	100	250	3	2.2	1.2	86	4	26
53	17	300	440	5	2.5	1.7	296	5	31
77	102 <100		1110	9	4.8	3	286	11	41
89	100	100	230	12	6.7	3.2	133	11	36
80	655	100	1050	7	3.8	2.2	294	8	32
408	37	200	710	18	8.3	8.4	88	30	158
504	136	200	2070	43	24	12.3	162	45	224
167	388	100	790	22	13.3	7.1	198	28	90
660	109 <100		4990	76	41.7	24.3	23	101	340
1370	124	100	1330	54	26.1	22	160	91	415
270	101 <100		4310	19	8.9	7.5	20	31	126
200	69 <100		4270	19	8.9	9	20	37	145
141	237	200	730	10	5	3.1	206	11	57
50	149 <100		770	18	11.4	3.2	104	13	21
519	92 <100		16600	100	67.7	21.2	242	95	274
438	82 <100		11900	151	104	25.7	174	120	232
246	130	100	3700	30	17.6	7.8	91	31	126
118	119 <100		480	13	6.8	3.7	68	12	42
277	666	200	1010	16	8.4	5.8	337	21	110
113	81	200	330	9	4.4	3.1	206	10	47
28	45 <100		300	5	3.2	1.3	131	4	15
73	68	100	240	7	3.4	2.2	140	8	28

	97	190 <100	220	12	7.9	3.6	86	12	57
	166	241 <100	330	18	8.2	5.5	37	20	65
	213	308 200	400	10	4.8	4.4	242	14	90
	33	35 <100	280	2	1.7	0.9	270	3	20
	343	85 <100	7060	25	12.7	10.2	16	45	162
	179	25 200	240	11	4.8	5.2	70	19	129
	65	68 <100	160	12	6.7	3.6	34	11	29
	76	45 200	320	7	4.2	2.4	216	7	38
	50	16 <100	220	9	5.2	2.4	43	8	18
	39	52 <100	290	9	6.2	2.2	39	8	17
	74	23 <100	430	20	11.4	4.6	40	17	29
	113	36 <100	430	16	8.5	5.3	30	17	48
	74	211 300	210	10	6.2	3	81	11	33
	150	101 300	260	11	6.2	2.7	209	10	38
	150	83 100	260	14	6.3	5.3	32	17	64
	69	109 <100	290	13	7.4	3.6	31	12	33
	30	8 <100	670	2	1.4	0.9	347	3	16
	21	6 <100	280	2	1	0.8	259	2	12
	146	11 400	320	13	5.5	4.9	63	16	76
<5		6 <100	170 <1		0.5 <0.5		94 <1		2
	106	63 200	410	10	6.1	3.3	131	10	54
	102	81 <100	270	11	7.1	3.2	127	12	57
	36	90 <100	200	9	6.1	2	54	7	19
	53	16 200	220	5	3	1.7	152	6	28
	15	17 <100	130	1	0.9	0.5	97	1	9
	65	28 500	270	4	2.7	1.6	177	5	36
	34	59 <100	210	5	3.1	1.3	122	4	17
	66	60 200	250	5	2.5	2.2	430	6	38
	27	32 <100	40 <1		0.6	0.6	194	1	7
	63	50 200	280	7	3.8	2.6	260	8	36
	48	66 200	230	6	3.8	2	187	6	28
	62	31 200	190	8	3.7	2.8	179	9	37
	73	36 <100	220	11	6.1	2.9	43	10	29
	69	63 <100	270	12	7.1	3.5	71	12	34
	81	129 <100	290	13	8.5	4.6	114	15	55
	55	34 <100	370	17	10.3	5.1	69	18	51
	48	57 <100	160	11	7	2.6	80	8	21
	73	42 <100	190	12	7.2	3.8	47	11	35
	42	37 <100	150	10	7	2.4	42	8	19
	25	38 <100	140	5	3.6	1.4	78	4	13
	43	78 <100	90	8	5.5	2.2	62	7	21
	83	65 <100	200	11	5.6	3.4	70	11	36
	42	143 <100	360	8	5	2	88	7	21
	116	42 <100	200	9	4.2	3.5	24	13	71
	28	40 <100	170	12	8	2.5	18	9	16
	60	29 <100	360	19	9.9	4.6	15	16	40
	22	18 <100	4650	12	7.9	2.7	17	9	10
	80	96 <100	1690	15	8.7	3.7	98	13	33
	188	164 <100	290	12	8	4.2	225	14	93
	68	43 <100	110	17	8.1	4.4	14	15	32
	28	100 <100	130	10	5.6	2	33	7	15
	35	41 <100	430	6	4.1	1.3	63	4	17

158	161 <100		350	20	11.4	5.9	44	20	57
168	41 <100		240	12	6.2	4	114	13	86
302	67	200	450	16	7.2	5.9	129	20	98
61	30 <100		160	9	5.4	2.6	61	9	42
345	34	100	300	29	14.2	13	101	44	201
13	105 <100		730	2	1.8	0.6	145	2	8
71	48 <100		430	12	7.7	3.1	53	10	31
8	117 <100		320	4	3.5	0.7	118	2	5
32	68 <100		760	8	5.6	1.8	133	6	14
62	35 <100		760	15	9.5	3.8	15	13	31
79	79 <100		150	9	4.7	3.5	65	11	53
87	109 <100		110	14	7.8	4.3	35	14	37
52	105 <100		100	8	4.7	2.6	56	8	22
51	100 <100		190	11	6.5	3	49	10	22
24	39 <100		200	7	4.3	1.7	64	5	12
26	116 <100		510	11	7.4	2.3	50	8	14
54	57 <100		300	9	5.6	2.5	42	8	23
104	77 <100		190	26	13.5	6.9	46	24	38
18	86 <100		80	6	4	1.4	56	4	8
35	44 <100		80	10	5.3	2.4	20	8	13
112	75 <100		130	17	7.3	4.7	23	16	44
107	63 <100		350	27	13.1	8.5	29	32	96
13	37 <100		220	10	6.8	1.5	27	5	8
7	20 <100		310	1	0.9 <0.5		115 <1		4
50	98 <100		1440	12	6.6	2.5	64	9	21
42	39 <100		1550	5	2.5	1.9	210	6	20
58	71 <100		250	9	4.9	2.8	133	9	33
228	35 <100		490	12	5.7	5.3	180	18	120
35	68 <100		590	4	2.8	1.2	84	4	21
494	75	200	1150	26	12.3	10.3	281	38	235
214	81	100	450	17	11.3	5.4	221	20	127
162	75 <100		620	12	6.5	4.2	91	15	70
75	134 <100		310	13	7.6	2.8	39	11	31
75	35 <100		240	19	11.3	4.2	26	15	39
55	18 <100		140	10	6	2.4	72	9	34
45	61 <100		150	12	7.7	2.2	38	8	17
44	56 <100		150	13	8	2.3	37	8	17
31	17 <100		2130	3	1.4	1.3	307	4	15
22	48 <100		2980	3	1.3	1.1	197	3	9
20	14 <100		160	2	1.5	0.5	38	2	22
141	37	300	350	15	6.7	6.1	80	20	86
17	52 <100		90	4	3.7	0.8	75	3	10
96	28 <100		60	11	5	3.8	50	12	41
68	49 <100		130	13	7	3.4	35	13	27
43	53 <100		110	7	4	1.9	85	7	17
52	21 <100		130	13	6.5	3	20	11	18
64	52	200	90	7	4.7	2.5	201	8	34
114	17 <100		420	12	6.3	3.6	48	12	61
85	44 <100		190	14	7.1	4.8	23	16	37
25	24 <100		100	4	2.6	1	75	3	11
85	34 <100		100	16	7.4	4.4	13	14	31
93	59 <100		600	13	6.4	4	79	14	41

	49	27 <100	900	5	2.9	1.6	147	6	22	
	140	10 <100	1590	32	16.5	9.3	37	33	53	
	42	17 <100	1620	3	1.6	1.3	53	4	21	
	9	6 <100	780 <1	<0.5	<0.5		101 <1		4	
	104	49 <100	650	4	2.2	2.2	240	7	54	
	104	147 <100	350	15	7.7	3.9	54	14	39	
	95	22 <100	140	19	10.2	5.4	22	19	48	
	102	84 <100	130	11	5	3.9	85	14	50	
	27	38 <100	270	5	4.1	1	47	3	13	
<5		26 <100	220	4	4.3 <0.5		36	2 <1		
	14	9 <100	660	1	0.7 <0.5		191	1	6	
	38	16 <100	580	3	1.9	1.2	256	4	17	
	69	82 <100	260	17	10.6	3.1	73	12	27	
	113	81 <100	1950	12	7.8	3.6	131	12	62	
	21	53 <100	170	2	1.6	0.7	97	2	11	
	41 <5	<100	930	5	2.4	1.5	112	5	17	
	31	8 <100	550	3	1.4	1.2	57	3	15	
	8	17 <100	140 <1	<0.5	<0.5		80 <1		3	
	21	33 <100	1580	5	3.7	1.2	75	4	9	
	138	60 <100	420	15	6.2	5.6	86	20	58	
	292	84 <100	530	37	17.8	11.7	50	42	107	
	217	69	100	570	15	8.5	4.7	76	16	71
	101	14 <100	240	13	4.9	5	244	18	49	
	76	25	200	250	7	3	2.6	113	8	38
	63	25	100	310	6	3	2.2	120	7	31
	28	43 <100	1170	3	1.9	1.3	325	4	11	
	55	18 <100	1180	5	2.1	2.1	292	7	26	
	121	7 <100	1020	37	21	13.1	16	47	38	
	46 <5	<100	1670	5	2.8	1.7	168	5	19	
	33 <5	<100	3660	4	2.2	1.4	107	4	14	
	42	111 <100	2200	5	3.9	1.3	190	4	18	
	119	155 <100	1010	42	23.1	6.6	140	28	40	
	507	29 <100	810	51	25.3	18.2	42	73	180	
	146	30 <100	250	16	6.6	5.3	21	19	46	
	179	37 <100	540	18	7.7	6.3	76	22	71	
	48	45 <100	340	7	4.2	1.9	31	6	19	
	37	26 <100	80	9	4.1	2.4	21	9	23	
	668	8 <100	860	34	13.7	15.5	51	56	252	
	70	35 <100	230	13	5.5	3.7	55	13	25	
	39	10 <100	2000	4	2	1.4	114	5	17	
	76	29	200	1290	8	4.2	2.8	122	9	35
	65	32 <100	950	10	5.1	3.3	82	11	29	
	127	99 <100	380	13	5.6	5.4	54	20	48	
	165	11 <100	160	17	8.1	6.9	16	24	58	
	34	15 <100	170	6	2.7	1.7	161	5	16	
	102	23 <100	160	15	7	5.7	43	19	43	
	174	27 <100	900	28	10.4	11.6	24	43	75	
	125	58 <100	160	18	7.4	6.8	45	26	52	
	32	35 <100	380	7	3.7	1.9	101	7	11	
	13	11 <100	100	3	1.7	0.8	56	2	4	
<5		14 <100	190	1	1.3 <0.5		138 <1	<1		
	69	44 <100	270	13	7.2	4.2	11	14	23	

61	53	200	400	7	3.4	2.2	219	8	23
97	53 <100		310	12	5.6	4.2	29	15	35
12	117 <100		160	2	2.2	0.6	135	2	5
137	41 <100		610	9	3.9	3.9	86	13	55
101	104 <100		370	13	5.7	4.4	28	16	42
561	20 <100		600	29	13.1	13.3	36	49	177
623	52 <100		690	43	16.1	22.3	16	81	216
34	46 <100		180	8	4.2	2	70	7	14

Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
	5	1	5	0.5	1	5	10	1	1	
PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<5		25	60	5.6	1360	38	220	<1	330	55
<5	<1		5	4.1	121	69	190	<1	26	70
<5		1 <5		4.1	230	200	170	<1	56	116
<5		1 <5		6.4	42	126	30	<1	12	23
<5		1 <5		2.9	59	139	240	<1	14	188
<5	<1		7	3.3	184	49	170	<1	40	44
<5	<1	<5	<0.5		87	127	240	<1	18	115
<5	<1	<5		2.8	28	135	300	<1	6	199
<5	<1	<5		2.5	108	113	260	<1	25	161
<5		1 <5		2.4	34	210	290	<1	8	163
	5	2	9	4.3	40	292	370	<1	10	135
	5	2	9	13.4	380	127	170	<1	93	53
<5	<1	<5		1.7	36	107	180	<1	9	120
	6 <1	<5		5.3	44	169	330	<1	11	139
	16	4 <5		11.9	52	84	80	<1	14	214
	7	2 <5		12.5	88	92	310	<1	23	99
<5	<1	<5		2.2	54	146	540	<1	12	124
<5		1 <5		5.6	18	136	240	<1	4	133
<5		1 <5		3.1	28	90	340	<1	6	168
<5		2 <5		2	35	147	280	<1	8	125
<5	<1		7	3.5	58	127	340	<1	14	167
	8	3	5	10.3	67	137	410	<1	16	124
<5		6 <5		4.4	116	151	180	<1	30	110
<5	<1	<5		3.2	68	55	170	<1	17	21
<5	<1	<5	<0.5		88	59	280	<1	19	54
<5		12 <5		3.3	1090	115	190	<1	269	82
<5		2 <5		6	26	92	60	<1	6	58
<5	<1	<5		1.9	54	149	210	<1	12	74
<5	<1	<5		0.6	558	22	90	<1	144	55
<5		1 <5		4.8	12	149	40	<1	3	35
<5	<1	<5		0.7	271	39	150	<1	67	56
<5		1 <5		5.8	28	287	120	<1	7	24
<5		6 <5		26.7	2170	46	160	<1	561	76
<5		1 <5		2.2	34	126	240	<1	8	97
<5	<1	<5	<0.5		64	62	190	<1	14	111
<5		1 <5		1	53	116	200	<1	13	101
<5		1 <5		3.2	112	33	160	<1	27	116
<5		2	8	15.2	34	44	30	<1	9	71
<5	<1	<5		1.4	293	52	150	<1	71	107
<5		2	9	11.7	48	17	120	<1	13	54
<5	<1		6	5.8	38	56	100	<1	10	69
	8	2 <5		2.5	14	92	220	<1	3	72
	8	9	10	11.4	196	169	320	<1	50	77
<5	<1		5	1.8	36	111	140	<1	9	57
<5		5	17	9.3	514	108	310	<1	138	43
	6	3	6	7.5	201	102	240	<1	49	87
<5	<1	<5		1.2	28	53	280	<1	6	68
<5	<1	<5		0.9	14	39	240	<1	3	84

<5		2	6	4.8	243	68	180 <1	61	39
	16	4	10	29.9	241	160	180 <1	63	47
<5		4	13	14.8	870	72	160 <1	224	79
	13	9	9	13.8	167	212	180 <1	42	112
<5		3 <5		1	241	65	140 <1	54	80
<5		2 <5		6.4	257	148	180 <1	62	44
	6	4	10	5.4	147	170	360 <1	38	98
<5	<1	<5		1.3	96	35	170 <1	22	162
<5	<1		5	2.1	37	201	170 <1	9	292
<5	<1		6	5.8	34	119	100 <1	8	74
<5		1 <5		2.1	21	123	260 <1	5	150
<5		2	5	8.2	178	149	250 <1	44	273
<5	<1	<5		1.2	40	99	250 <1	9	132
<5	<1	<5		1.4	49	101	310 <1	11	138
<5	<1	<5		3.4	16	169	200 <1	4	153
<5		12	10	11	1340	58	190 <1	341	87
	6	2 <5		4.8	56	139	220 <1	14	95
	6	2 <5		10.4	67	135	470 <1	17	130
<5	<1	<5		0.9	13	112	190 <1	3	139
<5	<1	<5		0.9	33	79	190 <1	8	100
<5	<1	<5		0.5	25	74	170 <1	5	103
<5	<1	<5		1.1	27	88	450 <1	6	94
<5		1 <5		1	29	207	270 <1	7	144
<5	<1	<5		1.3	30	61	210 <1	7	93
	55	28 <5		1.6	7	529	20 <1	2	42
	27	8	10	35	92	79	330 <1	23	101
	25	10	8	35.7	711	463	380 <1	179	30
<5		1 <5		2.9	204	85	430 <1	44	116
	8	9 <5		4.8	40	126	310 <1	9	205
<5		3 <5		5	66	153	320 <1	15	372
	7	3 <5		2.4	22	111	240 <1	5	263
<5		3 <5		6.4	93	100	280 <1	23	204
	10	7 <5		10.5	58	232	270 <1	14	222
	5	3 <5		8.1	63	157	50 <1	16	42
<5		1 <5		2	55	117	320 <1	11	350
	6	2 <5		3.2	61	166	440 <1	14	355
<5		4	6	5.7	92	168	470 <1	23	230
<5		3 <5		0.8	26	121	520 <1	5	267
<5		1	5	2.1	216	81	230 <1	48	103
<5		9 <5		1.8	62	165	170 <1	13	48
<5		2 <5		4.4	110	86	290 <1	26	173
<5		2 <5		2.5	31	135	490 <1	7	191
	7	11 <5		8.2	26	239	200 <1	6	132
	8	5 <5		9.6	8	155	20 <1	2	97
<5	<1	<5		2.4	23	26	210 <1	5	46
<5	<1	<5		1.2	67	47	240 <1	14	116
<5		2	6	4.2	119	385	370 <1	28	216
<5		2 <5		3.6	136	269	210 <1	31	85
<5		1 <5		2.9	119	186	300 <1	25	94
<5		1 <5		2.2	110	103	190 <1	25	147
	6	3	8	11.5	298	98	290 <1	73	81
<5		3 <5		1.7	194	108	250 <1	40	107

<5		3	6	3.1	47	147	380	<1	11	149
	9	7	<5	2.9	67	226	330	<1	15	156
<5	<1	<5		0.5	528	75	110	<1	126	68
<5		2	6	19.4	1260	51	340	<1	317	55
<5		1	<5	5.1	226	77	490	<1	48	159
<5	<1	<5		1.7	32	81	60	<1	8	58
<5	<1	<5		2.7	131	69	240	<1	29	139
<5		5	5	6.2	321	157	380	<1	75	178
<5		2	<5	3.3	139	100	380	<1	33	140
<5		28	8	0.7	110	361	20	<1	24	17
	6	4	9	10.7	369	95	180	<1	93	53
<5		3	8	7	162	153	120	<1	41	111
	8	21	<5	4.4	327	87	200	<1	79	90
	46	23	39	11	121	228	1520	<1	28	68
<5		107	<5	<0.5	784	114	130	<1	168	28
	6	4	<5	12	61	77	30	<1	17	46
<5		1	6	6.2	439	90	250	<1	100	58
	10	5	<5	7.9	25	99	140	<1	6	91
	8	42	<5	2.1	178	127	160	<1	43	33
	7	49	91	6.1	609	630	500	<1	155	59
<5		7	<5	2	367	148	200	<1	85	50
<5		8	<5	3.5	203	68	140	<1	49	25
	23	9	15	7	43	155	480	<1	10	72
<5		44	<5	0.5	146	133	90	<1	31	32
<5		7	<5	5.8	77	244	90	<1	19	115
<5		2	<5	3.4	156	118	140	<1	38	174
<5		1	<5	2.5	80	100	420	<1	20	64
<5		1	<5	4.3	59	156	250	<1	14	81
<5		2	<5	3.2	53	120	250	<1	12	120
<5	<1		5	<0.5	757	36	350	<1	181	41
<5		1	18	<0.5	16	58	60	<1	4	178
<5		3	7	<0.5	324	20	220	<1	74	144
	15	13	16	32.1	42	193	230	<1	11	100
<5		2	<5	1.1	243	33	200	<1	57	135
	8	5	6	6.9	199	204	350	<1	48	105
<5	<1	<5		2.3	94	54	250	<1	21	62
	13	10	6	8.4	180	152	430	<1	40	109
	13	5	<5	13.1	20	117	170	<1	5	28
<5		5	<5	2.6	173	83	220	<1	41	66
	18	9	8	8.7	105	183	170	<1	25	56
<5		89	<5	<0.5	1070	43	60	<1	215	11
	26	8	11	27	59	153	80	<1	16	104
<5		3	7	4.1	54	67	120	<1	13	79
<5		2	25	2	35	69	120	<1	9	102
	18	22	11	7.5	120	211	150	<1	29	159
<5		7	5	1.4	95	166	230	<1	20	47
	18	35	11	12	100	165	260	<1	24	119
	8	8	<5	10.5	32	205	280	<1	7	297
	6	5	<5	6.2	62	192	430	<1	14	205
	6	4	17	5.3	946	59	170	<1	220	130
	24	23	<5	10.6	626	216	510	<1	159	188
	29	9	11	22.2	62	359	580	<1	14	248

	10	4 <5		8.4	27	253	310 <1	6	323
	28	24	13	35.2	138	227	680 <1	33	236
<5		1	10	2.4	182	56	220 <1	38	149
	6	5 <5		2.4	90	169	150 <1	21	141
<5		1 <5		2.9	29	83	280 <1	7	57
<5		1 <5		4	62	114	340 <1	14	112
<5	<1	<5		3.1	19	59	250 <1	4	158
	6	1 <5		2.4	12	68	30 <1	3	173
	14	3	5	11.6	19	163	420 <1	5	350
	8	1 <5		0.9	26	169	210 <1	6	259
<5	<1	<5		1	73	77	250 <1	16	174
<5	<1	<5		2.2	148	119	290 <1	33	59
	9	3 <5		2	15	115	40 <1	3	132
<5	<1	<5	<0.5		45	204	250 <1	9	159
	11	1 <5		7.2	55	242	390 <1	13	256
<5	<1		5	3	70	28	90 <1	16	63
<5	<1	<5		1.1	20	137	240 <1	4	106
<5		1 <5		4.7	19	67	70 <1	5	92
	16	4 <5		8	27	127	280 <1	7	90
	8	2 <5		9	33	46	140 <1	8	52
<5	<1	<5	<0.5		220	18	130 <1	52	213
<5		2 <5		1.8	584	157	230 <1	140	37
<5	<1	<5	<0.5		71	47	210 <1	15	58
	5	8	6	2.2	170	80	80 <1	40	23
<5		2 <5		3	49	72	180 <1	11	146
<5	<1		9 <0.5		8	29	260 <1	2	43
<5		2	6	3.3	112	57	140 <1	28	57
	14	12	6	4.3	426	177	380 <1	102	76
<5		6 <5		11.4	37	61	80 <1	9	97
<5		2 <5		2.6	92	155	470 <1	22	205
	9	2 <5		10.6	120	85	190 <1	27	104
	27	7	6	21.2	87	104	340 <1	20	142
	8	1	9	4.6	198	234	340 <1	48	142
<5		2 <5		1	46	144	380 <1	10	196
<5		2	8	4.6	250	163	250 <1	60	149
<5		1 <5		0.9	508	74	200 <1	108	49
<5	<1	<5		1.4	214	48	160 <1	45	113
<5		1 <5		4	74	111	270 <1	17	128
	9	2 <5		11	100	136	250 <1	24	70
	6	3 <5		2.1	9	78	110 <1	2	305
	8	2 <5		7.1	97	189	200 <1	23	47
<5	<1	<5		1.2	124	28	260 <1	26	110
	11	3 <5		5	43	195	100 <1	10	36
	5 <1	<5		2.4	75	175	260 <1	17	120
	9	4 <5		7.3	36	187	270 <1	8	92
<5	<1	<5		1.9	67	177	290 <1	14	92
	8	8 <5		4.1	114	247	260 <1	26	50
<5		1 <5		5.7	129	213	310 <1	29	134
<5		7	6	3.7	487	100	100 <1	127	122
	28	2 <5		6.4	33	121	220 <1	9	57
	10	31	7	11.6	157	120	230 <1	38	52
<5	<1	<5	<0.5		104	35	200 <1	23	96

	7	4 <5		6.1	10	120	140 <1		3	110
<5		2 <5		1.2	44	169	260 <1		10	110
<5	<1	<5		0.6	50	123	290 <1		11	143
<5	<1	<5		1.7	51	60	250 <1		11	66
<5		19 <5		3.2	371	138	50 <1		94	15
<5		2 <5		1.3	42	134	180 <1		9	156
<5		2	8	9.8	420	120	170 <1		96	49
<5		16	8	3	432	63	90 <1		96	59
	18	4	7	15.7	173	123	190 <1		44	74
	9	3	8	16.1	547	62	280 <1		133	66
	6	4	9	12.4	78	176	310 <1		19	13
<5		2	8	4.3	103	255	450 <1		25	175
	7	3 <5		7.2	52	87	80 <1		13	73
	5	1	6	5.6	137	159	190 <1		32	103
<5	<1		6	3.8	99	77	720 <1		22	119
<5		2 <5		0.8	76	122	260 <1		16	156
<5		2 <5		4.2	27	101	10 <1		7	48
	8	6 <5		3	686	96	190 <1		164	37
<5		1 <5		2.4	30	113	260 <1		7	161
	10	87 <5		1.7	48	157	230 <1		11	27
	11	4 <5		6.8	97	192	70 <1		25	41
	12	3 <5		8	63	147	450 <1		14	161
	11	2	6	22.3	261	60	250 <1		66	86
<5		5 <5		3.4	50	183	390 <1		11	175
<5		1 <5		1.1	124	59	110 <1		32	102
<5		6	8	0.8	2040	144	120 <1		516	86
	6	3 <5		3.2	53	240	190 <1		13	119
<5		13	6	1	914	438	250 <1		215	86
	7	3	9	14.1	227	62	100 <1		61	132
<5		9	10	2	580	257	170 <1		148	73
	18	6	8	28.6	513	169	200	1	141	107
	31	4	15	18.1	726	158	370 <1		195	90
<5		50 <5	<0.5		119	103	30 <1		29	<5
<5		2	8	6.5	396	113	190 <1		101	55
	6	3	10	17.3	73	128	70 <1		20	65
	6	2	8	5.7	38	100	30 <1		10	147
<5		6	6	0.7	97	111	200 <1		23	222
	7	7	7	15.5	25	122	100 <1		6	111
<5		1	9	10.7	160	53	180 <1		41	164
	31	11	13	18.7	202	204	290 <1		51	93
<5	<1		6	2	98	53	130 <1		23	195
	12	3	10	12.5	101	151	120 <1		26	60
<5	<1		6	0.8	50	115	180 <1		12	201
	8	2	12	13.3	399	94	140 <1		105	50
	24	6	17	27.7	452	210	250 <1		125	118
<5		2 <5	<0.5		366	50	220 <1		88	137
	13	10	10	3.3	668	247	350 <1		178	46
<5		1	11	3.2	70	178	170 <1		18	64
	9	25	19	0.9	423	187	40 <1		105	71
<5		2	8	5.2	93	55	140 <1		23	106
	13	21	63	1.4	374	256	60 <1		94	76
	9	4	8	8.3	80	92	150 <1		21	83

<5		36 <5		0.8	7	112	80 <1		1 <5	
<5		2	9	2.2	19	276	40 <1		5	181
<5		2 <5		2.3	75	145	130 <1		18	42
	6	5	18	30.1	272	114	160	2	75	111
	17	5	10	15.6	337	114	80 <1		87	82
	6	10	9	6.8	35	360	50 <1		9	51
<5	<1	<5		3.4	71	74	200 <1		16	152
<5		12	8	6.2	1050	120	100 <1		284	39
<5		10	6	3.8	404	40	80 <1		97	53
<5		13	8	8.4	1070	27	80 <1		294	49
<5		3 <5		1.9	70	97	200 <1		17	196
<5	<1		6	2.7	51	156	120 <1		13	110
	5	1	8	1.9	82	320	230 <1		21	141
<5		1	7	3.7	117	144	340 <1		30	328
<5		1	7	7.7	233	173	190 <1		63	120
<5		1	9	5.1	122	212	160 <1		28	133
<5	<1		6	2.7	115	144	180 <1		28	145
<5	<1	<5		0.9	71	88	140 <1		17	142
<5		2 <5		6.7	19	80	80 <1		4	144
<5	<1	<5		2	102	107	170 <1		26	28
<5		2	12	4.6	7	143	20 <1		2	101
	7	1	17	8.1	24	235	260 <1		6	146
<5	<1		24	3.7	47	121	320 <1		11	71
<5	<1		10	1.9	46	155	310 <1		11	85
<5	<1		11	1.6	88	90	150 <1		23	159
<5	<1		16	3.5	148	89	200 <1		34	95
	11	2	9	12.5	231	133	270 <1		59	60
<5	<1		8	8.7	76	140	140 <1		20	50
<5	<1		7	7	26	259	300 <1		7	62
<5	<1		7	2.9	26	184	240 <1		7	181
<5		1	11	11.3	20	61	450 <1		6	104
	15	3	14	40.3	24	87	80 <1		7	119
	6	13	14	5.3	47	194	40 <1		12	128
	6	2	7	5.6	41	268	130 <1		11	104
	8	18	18	6.7	36	282	50 <1		10	79
	8	11	8	9.5	171	198	580 <1		46	67
	9	2	12	8.2	245	100	460 <1		65	45
	7	49	8	2.1	127	421	200 <1		31	13
<5		31	11 <0.5		446	291	1630 <1		112	22
	6	18	10	3.9	501	241	400 <1		135	110
	11	40	807	3.3	161	881	260 <1		38	133
	10	29	81	1.5	195	311	410 <1		46	46
	15	9	17	16.8	56	173	280 <1		15	70
<5		5	7	2.2	33	252	780 <1		8	101
<5		5	21	3.5	365	293	560 <1		92	32
<5		5	11	2.6	360	308	790 <1		88	29
	7	1	9	2.5	131	212	360 <1		35	24
<5	<1		7	3.4	54	294	220 <1		14	68
	9	7	40	10.8	115	218	250 <1		31	101
<5		1	18	14.6	44	148	130 <1		12	88
	6	2	7	2.7	15	116	270 <1		4	201
<5		5	49	7.1	31	254	910 <1		8	140

<5	<1		8	4.7	54	259	120	<1	14	140	
<5	<1		9	2	81	276	150	<1	21	148	
	11	4	40	26.7	78	166	470	<1	22	185	
	9	3	16	9.8	14	106	100	<1	5	102	
	8	58	340	3.9	227	598	490	<1	54	172	
	13	6	29	23.6	121	123	160	<1	34	85	
<5	<1		10	1.1	42	176	190	<1	10	119	
	10	2	14	15.2	37	92	810	<1	10	170	
<5	<1		9	3.4	28	195	310	<1	7	127	
<5	<1		8	1.7	26	110	460	<1	7	144	
<5	<1		18	1.5	58	208	1260	<1	13	116	
<5	<1		15	1.5	69	161	780	<1	16	137	
	7	3	13	7.9	42	421	440	<1	10	97	
	14	4	20	20.3	39	218	790	<1	10	158	
<5	<1		8	4.4	73	85	240	<1	18	131	
<5	<1		5	1	50	414	260	<1	12	108	
<5		1	6	3.8	13	63	20	<1	4	87	
<5	<1		6	7.8	10	54	20	<1	3	87	
	11	1	14	20	73	51	220	<1	19	98	
<5		1	<5	3.4	2	43	<10	<1	<1	71	
	7	<1		9	11.5	52	101	100	<1	14	30
	7	<1		8	7.4	51	170	230	<1	14	67
<5	<1		6	2.6	24	170	230	<1	6	148	
<5	<1		8	16.7	25	96	50	<1	7	59	
<5	<1		6	3.7	6	49	100	<1	2	73	
<5		2	8	7.3	27	172	30	<1	8	56	
<5		4	7	5.1	15	101	100	<1	4	52	
<5		5	27	21.3	30	154	70	<1	8	62	
<5		4	10	5.6	6	52	10	<1	2	41	
	17	6	167	41.6	34	124	1000	<1	9	140	
	11	4	74	27	25	180	420	<1	7	102	
	7	5	36	22.3	36	288	1410	<1	9	118	
<5	<1		9	2.3	41	136	480	<1	10	124	
<5		2	6	3.1	50	270	270	<1	12	198	
<5		2	10	4	71	219	240	<1	18	107	
<5		2	11	5.1	82	145	250	<1	19	73	
<5		2	6	2.9	30	213	180	<1	7	158	
<5	<1	<5		1.4	45	190	170	<1	11	123	
<5	<1	<5		1.3	28	106	230	<1	7	106	
<5	<1		5	2.6	17	177	120	<1	4	119	
<5	<1		5	1.8	25	199	190	<1	6	187	
	6	1	8	7.8	44	137	300	<1	11	140	
	5	<1	7	3.4	24	201	250	<1	6	153	
<5		2	12	2.5	63	93	480	<1	17	181	
<5	<1		7	<0.5	27	92	610	<1	6	104	
<5	<1		10	0.5	57	89	890	<1	14	145	
<5	<1		23	<0.5	23	51	14600	<1	5	113	
<5		2	54	2.2	46	165	4480	<1	11	63	
	30	52	<5	5.9	82	182	200	<1	24	25	
<5	<1		6	1.3	51	138	250	<1	12	134	
<5	<1		6	1.9	21	164	330	<1	5	199	
<5	<1		6	1.5	17	63	80	<1	5	78	

<5	<1		7	3.7	86	115	200	<1	22	111
<5	<1		6	6.4	71	143	90	<1	20	84
	8	<1	10	15.2	98	116	150	<1	28	88
<5	<1		5	4.3	37	89	100	<1	10	51
	6	<1	12	14.2	238	56	160	<1	63	44
	7	4	21	10.9	7	108	30	<1	2	44
<5	<1		13	2.1	42	126	350	<1	11	139
	15	4	17	8.5	6	130	1960	<1	2	238
	10	1	40	9	19	164	1500	<1	5	143
<5	<1		11	1.4	47	56	640	<1	11	123
<5	<1		9	9	48	98	210	<1	12	170
<5	<1		7	2.6	53	91	190	<1	13	67
<5		2	6	2.8	31	164	190	<1	8	119
	6	1	<5	1.4	34	272	180	<1	8	110
<5	<1	<5		2.4	15	166	130	<1	4	116
<5	<1	<5		0.6	23	223	120	<1	5	45
<5	<1	<5		1.5	32	105	120	<1	8	56
<5	<1	<5		2.1	86	247	170	<1	19	125
<5	<1		5	1.5	13	260	190	<1	3	105
<5	<1		6	0.6	27	151	180	<1	6	64
<5	<1		7	1.9	63	122	250	<1	15	68
<5		3	13	1.6	147	173	340	<1	34	158
<5	<1		7	0.8	13	110	1160	<1	3	52
	6	<1	14	4.3	3	43	800	<1	1	58
<5	<1		21	1.7	26	54	7140	<1	7	116
<5	<1		47	2.3	22	103	200	<1	6	75
	12	3	22	9.1	34	171	210	<1	9	95
	6	2	10	7.9	116	124	60	<1	29	37
<5	<1		5	3.2	16	85	60	<1	5	35
	11	8	9	8.8	231	327	400	<1	62	83
	10	4	10	10.7	119	174	90	<1	33	28
<5	<1		9	6	69	127	120	<1	19	75
<5	<1		6	1.6	37	154	210	<1	10	82
<5	<1		5	1.1	57	97	230	<1	14	67
<5	<1		7	3.2	31	72	140	<1	9	85
<5	<1		7	1.4	23	101	230	<1	6	87
<5	<1		7	1.3	25	98	210	<1	6	86
<5	<1		56	3.5	13	130	450	<1	4	59
<5	<1		42	1	9	154	660	<1	3	97
	8	2	61	3.3	6	55	560	<1	2	27
<5	<1		43	9.9	82	83	1300	<1	21	109
<5		2	<5	2.9	8	79	130	<1	2	51
<5	<1		8	6.1	47	110	140	<1	12	97
<5	<1	<5		1.6	43	203	260	<1	10	149
	5	<1	<5	2.9	23	175	150	<1	6	112
<5	<1	<5		0.8	34	87	220	<1	8	89
	8	<1	9	16.8	33	138	280	<1	9	56
<5	<1	<5		2.4	54	36	130	<1	15	19
<5	<1	<5		1.2	60	88	240	<1	14	144
<5	<1	<5		5.3	10	117	90	<1	3	71
<5	<1		5	0.7	53	97	240	<1	13	64
<5	<1		22	3.4	45	116	940	<1	12	50

<5		4	15	5	22	114	90 <1		6	56
<5	<1		83	3.6	98	24	8430 <1		22	122
<5	<1		213	3.1	18	30	1760 <1		6	68
<5	<1		71	2.2	2	26	130 <1		1	60
<5		3	51	2.9	43	125	30 <1		13	40
	8	2	14	1.7	52	279	270 <1		13	179
<5	<1		7	1.3	70	57	220 <1		16	79
<5		5	8	6.7	55	154	220 <1		14	137
	5 <1	<5		1	11	62	120 <1		3	69
<5	<1	<5		1.1	2	35	330 <1	<1		130
<5	<1		6	1.4	5	41	20 <1		2	91
<5	<1		6	2.1	16	81 <10	<1		5	77
<5		2	10	7.1	40	184	410 <1		10	124
<5		1	26	2.1	57	212	140 <1		16	51
<5		3	15	6.9	7	66	190 <1		2	72
<5	<1		21	2.6	18	24	80 <1		5	60
<5	<1		168	12.5	13	22	1420 <1		4	36
<5		2	18	1.8	2	37	90 <1	<1		44
<5	<1		101	7.6	9	55	4300 <1		3	62
	7	4	16	7.7	70	111	570 <1		18	60
<5	<1		8	3.1	173	129	310 <1		40	56
<5	<1	<5		3.7	76	84	180 <1		20	53
<5	<1		5	1.4	49	38	380 <1		13	17
	18	6	28	37.6	34	97	380 <1		10	80
	17	6	28	38	31	100	330	1	8	77
<5		7	18	3.2	13	172	80 <1		3	68
<5	<1		24	6.9	24	65	160 <1		7	41
<5	<1		116 <0.5		157	13	6540 <1		29	101
<5	<1		89	1.4	21	19	50 <1		6	110
<5	<1		47	1.2	15	21	930 <1		4	95
<5		4	37	7.7	17	139	1090 <1		5	58
<5		11	24	7.4	68	195	580 <1		15	60
<5		29	19	2	302	147	440 <1		70	29
<5		1	6	1.2	76	147	230 <1		19	48
<5	<1		10	2.8	87	55	140 <1		23	48
<5	<1		8	0.9	23	73	200 <1		6	115
<5	<1		8	0.8	31	128	210 <1		8	67
<5		2	18	5.2	297	64	150 <1		78	43
<5		2	12	1.8	43	136	240 <1		10	71
<5	<1		55	4.8	16	32	1540 <1		5	82
	9	4	182	28.8	37	82	490 <1		10	44
<5	<1		48	5.1	37	26	860 <1		9	41
<5		20	11	1	72	157	260 <1		18	70
<5	<1	<5	<0.5		102	27	200 <1		25	31
	7	2	8	8.3	15	56	360 <1		4	54
<5		3 <5		1.4	61	54	210 <1		14	33
<5		15	8 <0.5		108	297	400 <1		25	7
	9	28	5	1.2	78	137	320 <1		18	20
<5		2 <5		0.7	16	144	90 <1		4	36
<5		3 <5		2.2	6	49	420 <1		2	8
	13	3 <5		1.9	1	47	110 <1	<1		116
<5	<1		10 <0.5		51	90	260 <1		11	50

<5		5	77	15.9	30	133	910 <1	8	11
<5	<1		19	1.3	60	51	390 <1	14	49
<5		2	6	3.3	4	90	110 <1	2	13
<5	<1		56	9.8	62	44	360 <1	16	95
<5	<1		17	1.1	59	93	180 <1	14	124
<5		8	32	3.6	249	58	170 <1	63	71
<5		10	13	0.6	394	58	90 <1	91	24
<5		6	8	2.8	20	99	230 <1	5	46

Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
1	5	1	1	10	1	1	10	0.5	3
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<1		27	260 <1		770 <1		30 <10	36.2	1670
<1		57	28 <1		50 <1		5 <10	41.6	1490
<1		43	46 <1		60 <1		6 <10	33.8	1640
<1		26	8 <1		90 <1		1 <10	14.2	1330
<1		33	13 <1		40 <1		3 <10	10.6	1130
	3	54	38 <1		10 <1		5 <10	16.4	1200
<1		46	20 <1		30 <1		4 <10	8.2	77
<1		30	7 <1		50 <1		1 <10	6.6	647
<1		46	25 <1		30 <1		4 <10	20.1	758
<1		23	8 <1		90 <1		2 <10	9.5	538
	1	50	9	1	80 <1		1 <10	33.4	1910
	1	85	74	1	60 <1		9 <10	55.8	5110
<1		18	8 <1		40 <1		1 <10	6.8	481
<1		40	10 <1		50 <1		1 <10	26.8	1820
<1		36	9	2	110 <1		1 <10	18.2	3540
<1		40	17	2	30 <1		3 <10	12.8	4390
<1		29	12 <1		20 <1		3 <10	19.2	656
<1		32	4 <1		60 <1		1 <10	10	1860
<1		38	7 <1		50 <1		2 <10	7	832
<1		25	8 <1		90 <1		2 <10	8.1	535
<1		37	16 <1		40 <1		3 <10	23.9	812
<1		49	14	2	150 <1		2 <10	13	4520
<1		31	23	1	270 <1		3 <10	16.3	1860
<1		38	14 <1		20 <1		2 <10	15.8	624
<1		30	19 <1	<10	<1		4 <10	6.5	94
<1		74	194 <1		620 <1		22 <10	41.9	735
<1		25	6 <1		110 <1		1 <10	10.7	1130
<1		21	12 <1		30 <1		2 <10	5.5	681
<1		33	95 <1		10 <1		11 <10	10.2	197
<1		16	3 <1		50 <1	<1	<10	4.3	1650
<1		52	55 <1		20 <1		8 <10	11.5	234
<1		21	6 <1		60 <1		1 <10	9.5	2630
<1		357	407	1	570	2	53 <10	71.8	7130
<1		26	7 <1		60 <1		1 <10	5.8	581
<1		24	15 <1		10 <1		2 <10	5.8	110
<1		23	11 <1		50 <1		2 <10	5.7	275
<1		31	23 <1		170 <1		3 <10	8	1120
<1		35	7	2	80 <1		1 <10	11.9	5320
<1		44	58 <1		100 <1		8 <10	15	486
	2	22	9	3	40 <1		1 <10	7.4	4440
<1		19	8 <1		70 <1		1 <10	13.4	1320
<1		32	3 <1		90 <1	<1	<10	11.2	607
	8	36	35	2	550 <1		4 <10	36	3030
<1		18	8 <1		70 <1		2 <10	12.3	489
	3	74	92 <1		310 <1		12 <10	49.8	1400
<1		41	38 <1		120	1	5 <10	24.8	2470
<1		23	7 <1		10 <1		2 <10	5.6	315
<1		19	4 <1		10 <1	<1	<10	5.4	196

<1		32	47 <1		280 <1		6 <10	39.3	1190
	2	55	45	3	300	3	5 <10	123	7310
	2	63	151	1	450	1	16 <10	106	3570
	3	39	30	1	1040	1	4 <10	36.1	4090
<1		21	50 <1		750 <1		6 <10	18.4	207
	1	30	53 <1		390 <1		6 <10	43.2	1570
	1	48	30 <1		230 <1		5 <10	31.6	1210
<1		21	22 <1		20 <1		3 <10	10	370
<1		22	8 <1		30 <1		2 <10	9.4	666
<1		25	8 <1		40 <1		1 <10	6.7	2480
<1		21	5 <1		40 <1		1 <10	7.1	533
<1		51	36 <1		70 <1		5 <10	39.7	2340
<1		22	9 <1		10 <1		2 <10	8.4	369
<1		24	11 <1		60 <1		2 <10	8.7	395
<1		22	4 <1		40 <1		1 <10	6.1	1210
<1		56	222	1	390 <1		23 <10	70.3	2520
<1		35	12 <1		110 <1		2 <10	14.7	1710
<1		41	14	2	80 <1		2 <10	21.7	3670
<1		22	3 <1		20 <1	<1	<10	3.6	186
<1		26	7 <1		10 <1		1 <10	5.4	225
<1		27	6 <1	<10	<1		1 <10	4.3	192
<1		26	7 <1		20 <1		2 <10	7.8	333
<1		24	7 <1		40 <1		1 <10	5	295
<1		21	6 <1		20 <1		1 <10	2.7	461
<1		12	1 <1		230 <1	<1	<10	5.7	534
<1		64	18	8	90	3	3 <10	19.8	13600
<1		56	124	3	250	4	13 <10	136	4100
<1		58	46 <1	<10	<1		6 <10	31.4	960
<1		45	10 <1		190 <1		2 <10	16.8	1700
<1		46	16 <1	<10	<1		3 <10	20	2160
<1		42	5 <1	<10	<1		1 <10	8.1	670
<1		39	19 <1		80 <1		3 <10	29.3	1870
<1		42	13	2	200 <1		2 <10	10.8	4100
<1		44	13	1	50 <1		2 <10	16.2	5000
<1		35	13 <1	<10	<1		3 <10	6.3	794
<1		44	14 <1		50 <1		3 <10	15.4	1050
<1		48	20 <1		60 <1		3 <10	32.6	2270
<1		30	7 <1	<10	<1		2 <10	5.9	264
	2	53	47 <1	<10	<1		6 <10	32.9	697
<1		15	14 <1		220 <1		3 <10	5.3	724
<1		32	25 <1	<10	<1		4 <10	14.7	1750
<1		25	8 <1	<10	<1		2 <10	11.1	961
<1		38	7	2	550 <1		1 <10	8.1	5420
<1		18	2	2	60 <1	<1	<10	5.8	4020
<1		39	6 <1	<10	<1		2 <10	13.2	825
<1		38	17 <1	<10	<1		4 <10	10	418
<1		41	27 <1		30 <1		5 <10	45.6	1110
<1		33	27 <1		130 <1		4 <10	12.6	1610
<1		45	28 <1	<10	<1		5 <10	18.8	1170
<1		42	23 <1	<10	<1		4 <10	13	1040
<1		58	62 <1		50 <1		8 <10	85.5	4990
<1		36	41 <1		20 <1		6 <10	11.9	548

<1		31	11 <1		50 <1		2 <10	12.1	1240
<1		32	15 <1		340 <1		3 <10	16.5	861
<1		58	104 <1	<10	<1		12 <10	16.2	174
<1		90	224	2	90	2	24 <10	106	6670
<1		75	48 <1	<10	<1		7 <10	14.8	2240
<1		35	7 <1	<10	<1	<1	<10	18.5	654
<1		63	31 <1	<10	<1		5 <10	21.3	913
<1		58	64 <1		60 <1		8 <10	30.6	2140
<1		63	33 <1		30 <1		5 <10	37	1080
	4	29	24 <1		500 <1		3 <10	4.6	613
<1		74	71	1	40 <1		8 <10	61.4	3860
<1		49	34 <1		50 <1		5 <10	46	3480
<1		44	63 <1		170 <1		7 <10	31.7	1330
	1	61	27	2	260 <1		4 <10	27.1	3800
<1		12	166 <1		920 <1		17 <10	19.2	4
<1		37	11	1	80 <1		2 <10	20.3	3790
<1		75	93 <1		10 <1		11 <10	55.4	2610
<1		32	6	1	160 <1		1 <10	6.8	4280
<1		14	30 <1		820 <1		3 <10	19.5	644
	5	57	95 <1		670 <1		9 <10	97.5	818
<1		41	77 <1		360 <1		10 <10	27.3	754
<1		34	41 <1		140 <1		5 <10	26.7	1180
<1		47	10	1	110 <1		2 <10	17.9	2610
<1		13	36 <1		810 <1		6 <10	6.4	113
<1		31	16 <1		340 <1		2 <10	12.5	2420
<1		45	32 <1	<10	<1		4 <10	11.3	1640
<1		33	16 <1		40 <1		3 <10	23	828
<1		38	13 <1		20 <1		2 <10	12.2	1890
	1	33	13 <1		40 <1		2 <10	24.5	1130
<1		31	131 <1	<10	<1		14 <10	27.8	112
<1		34	4 <1	<10	<1	<1	<10	3.9	19
<1		34	66 <1		110 <1		8 <10	8.4	154
	4	52	8	8	320	2	1 <10	31.4	14000
<1		29	42 <1		70 <1		4 <10	11.8	389
<1		57	40	1	100 <1		5 <10	43.2	2000
<1		39	21 <1	<10	<1		3 <10	11.6	821
<1		66	39	2	140 <1		7 <10	32.5	3230
<1		27	5	3	40	1 <1	<10	10.2	6600
<1		32	36 <1		30 <1		5 <10	19.2	998
	1	43	24	2	120 <1		3 <10	36.6	3220
<1		76	213 <1		2850 <1		22 <10	36.5	7
	1	65	11	7	240	2	2 <10	23.3	12400
<1		42	12 <1		50 <1		2 <10	16.1	1520
	1	23	8 <1	<10	<1		1 <10	17.3	664
<1		36	24	1	380 <1		3 <10	27.4	2860
<1		18	24 <1		230 <1		4 <10	21.2	356
<1		32	21	1	930 <1		3 <10	24.6	3920
<1		42	8	2	270 <1		2 <10	7.2	5600
<1		44	14 <1		130 <1		3 <10	24.4	3200
<1		64	185 <1		40 <1		20 <10	48.7	2000
<1		82	115	1	910 <1		13 <10	92.3	3620
<1		70	14	4	110	2	3 <10	25.5	9820

<1		33	6	1	90 <1		2 <10	9.6	3630
<1	2	134	30	6	340	3	5 <10	39.3	15700
<1		37	40 <1		30 <1		6 <10	33.8	687
<1		62	20 <1		110 <1		4 <10	31.2	2220
<1		18	7 <1	<10	<1		2 <10	5.3	1210
<1		40	15 <1		30 <1		3 <10	23.3	1390
<1		28	4 <1	<10	<1		1 <10	6.9	1260
<1		17	2 <1		60 <1	<1	<10	3.5	580
<1		31	4	2 <10	<1	<1	<10	12.6	4700
<1		20	6 <1		60 <1		1 <10	8.6	222
<1		22	17 <1	<10	<1		3 <10	12	272
<1		40	32 <1	<10	<1		4 <10	17.6	1090
<1		30	4 <1		60 <1	<1	<10	6.8	569
<1		12	10 <1		10 <1		2 <10	3.1	22
<1		62	14 <1		50 <1		2 <10	16.8	1530
<1		51	18 <1	<10	<1		3 <10	19	1200
<1		21	5 <1		30 <1		1 <10	5.1	400
<1		25	4 <1	<10	<1	<1	<10	9.3	1390
<1		29	6	1	90 <1	<1	<10	28	3150
<1		29	7	2 <10	<1		1 <10	12.7	4060
<1		58	55 <1	<10	<1		9 <10	9.7	136
<1		82	124 <1	<10	<1		17 <10	20.5	754
<1		27	17 <1	<10	<1		3 <10	9.1	121
<1		24	34 <1		180 <1		4 <10	22.3	613
<1		36	11 <1		50 <1		2 <10	12.8	965
<1		15	2 <1	<10	<1	<1	<10	6.7	84
<1		45	24	1	120 <1		4 <10	29.7	1730
<1		68	85 <1		330 <1		11 <10	62.4	1230
<1	1	24	8	1	160 <1		1 <10	26.5	3290
<1		26	18 <1		70 <1		3 <10	32.6	850
<1		42	26	2 <10	<1		4 <10	15.5	4770
<1		63	21	4	110	2	4 <10	19.5	10000
<1		64	44 <1	<10	<1		6 <10	21.8	1580
<1		20	12 <1	<10	<1		2 <10	10.8	360
<1	2	63	52 <1		20 <1		7 <10	37.9	1600
<1		41	105 <1		50 <1		16 <10	19.9	265
<1		39	51 <1	<10	<1		7 <10	24.7	586
<1		48	18 <1		20 <1		3 <10	15.9	1690
<1		34	21	2	20 <1		3 <10	18.1	4550
<1		21	2 <1		50 <1	<1	<10	5.8	769
<1		43	20 <1		30 <1		3 <10	32	2650
<1		37	26 <1	<10	<1		3 <10	6.6	492
<1		14	9 <1		90 <1		2 <10	16.5	1790
<1		40	17 <1	<10	<1		3 <10	18.2	712
<1		42	9 <1		80 <1		2 <10	14.6	3170
<1		41	18 <1	<10	<1		3 <10	16.4	594
<1		27	26 <1		320 <1		4 <10	29.9	1880
<1		34	29 <1		80	1	5 <10	27.3	2350
<1	3	35	84 <1		260 <1		9 <10	47.6	1090
<1		25	7 <1		60 <1		1 <10	22.3	1790
<1	1	23	26 <1		820 <1		3 <10	29.2	2610
<1		39	23 <1	<10	<1		4 <10	9.1	97

<1		16	3 <1		160 <1	<1	<10	8.1	2590
<1		17	10 <1		100 <1		2 <10	6	267
<1		22	11 <1		80 <1		2 <10	6.1	179
<1		31	12 <1	<10	<1		2 <10	14.2	476
<1		17	60 <1		480 <1		6 <10	33.8	597
<1		18	10 <1		150 <1		2 <10	4.2	423
<1		67	89	2	30 <1		12 <10	45.7	5760
<1		17	75 <1		810 <1		7 <10	36.4	1010
	1	60	33	2	60	1	5 <10	21.8	6780
<1		70	102	2	80	1	11 <10	91.8	7870
	2	21	15	3	60 <1		2 <10	29.7	10600
	1	44	23 <1		70 <1		4 <10	23.7	1230
<1		39	11	1 <10	<1		2 <10	13.5	4710
	1	48	29 <1		10 <1		4 <10	42.9	2300
<1		35	23 <1	<10	<1		4 <10	26.4	1280
<1		30	17 <1	<10	<1		3 <10	8.1	294
<1		20	5 <1		70 <1	<1	<10	10.9	1860
<1		57	123 <1		230 <1		14 <10	29	637
<1		27	7 <1		50 <1		1 <10	12.7	708
<1		14	10 <1		1720 <1		1 <10	6.2	574
<1		28	19 <1		140 <1		3 <10	25.6	2240
<1		53	14 <1		70 <1		3 <10	32	2940
<1		75	53	2	30	2	6 <10	76.9	10800
<1		21	12 <1		270 <1		2 <10	16.6	1170
<1		23	23 <1		30 <1		3 <10	2.2	184
<1		89	404 <1		320 <1		43 <10	31.2	140
<1		29	12 <1		140 <1		2 <10	7.9	958
<1		100	180 <1		590 <1		30 <10	41.5	220
<1		41	43	2	90	1	6 <10	24.4	6080
<1		48	110 <1		410 <1		14 <10	39.1	423
	1	88	89	3	220	2	9 <10	154	7580
<1		94	123	3	70	1	13 <10	75.9	8270
<1	<5		20 <1		1200 <1		2 <10	9.9	30
<1		44	79 <1		120 <1		9 <10	66.6	1730
<1		34	15	4	120	1	2 <10	22	8680
<1		22	8 <1		50 <1		1 <10	18.2	2240
<1		28	21 <1		190 <1		3 <10	17.6	233
<1		30	6	3	100	1	1 <10	11.3	6640
<1		41	31	2	20 <1		4 <10	9.8	4090
<1		49	39	3	140	1	5 <10	26.8	6610
<1		19	20 <1		10 <1		3 <10	8.4	709
<1		36	21	1	70 <1		3 <10	34.6	4440
<1		23	11 <1		20 <1		2 <10	7.3	249
<1		55	75	1	80 <1		9 <10	92.3	3650
	2	65	75	4	170	2	8 <10	59.4	13300
<1		53	80 <1		70 <1		11 <10	8.6	102
	2	45	117 <1		350 <1		13 <10	71	1630
	2	30	16 <1		50 <1		3 <10	46.8	868
<1		22	68 <1		730 <1		7 <10	36.2	184
<1		24	19 <1		60 <1		3 <10	10.5	1940
<1		12	57 <1		530 <1		6 <10	23	173
<1		25	16	1	160 <1		2 <10	21.6	2340

	2 <5		2 <1		1440 <1	<1	<10	8.2	10
<1		24	4 <1		140 <1	<1	<10	7.2	646
<1		24	17 <1		130 <1		3 <10	15.5	696
	2	50	51	3	180	2	7 <10	131	8810
<1		69	67	2	430	1	10 <10	59.3	5700
<1		36	8 <1		310 <1		2 <10	15.2	8080
<1		35	15 <1		40 <1		3 <10	8.3	1220
<1		50	180 <1		340 <1		22 <10	70.6	1380
<1		16	73 <1		830 <1		8 <10	25.5	895
<1		57	172 <1		1130 <1		19 <10	51.6	2890
<1		37	16 <1		150 <1		3 <10	8.4	478
<1		27	11 <1		80 <1		2 <10	11.5	783
<1		29	17 <1		90 <1		3 <10	14.5	479
<1		27	25 <1		70 <1		4 <10	40.4	1160
<1		33	44 <1		70 <1		6 <10	51.9	2650
<1		29	25	1	40	5	4 <10	19.2	854
<1		22	21 <1		40	2	3 <10	11.5	571
<1		24	14 <1		10	1	3 <10	6	99
<1		24	4	1	160 <1	<1	<10	4	2280
<1		36	20 <1		30 <1		3 <10	21.2	483
<1		32	1 <1		120	3 <1	<10	3.9	1120
	1	46	6	1	80	3	2 <10	10	1950
	3	52	11 <1		20	2	2 <10	11.6	1000
<1		45	11 <1		60	1	2 <10	5.4	327
<1		56	20 <1	<10		1	4 <10	12.9	277
	1	58	34 <1		20	1	6 <10	26.9	937
	2	71	45	1	220	2	6 <10	63.8	3430
	1	37	16	1	50	1	3 <10	17.3	3030
	1	35	6 <1		30	1	1 <10	13.1	2200
	1	38	6 <1	<10	<1		1 <10	6.5	547
	2	55	4	2	180	1 <1	<10	29.6	2300
	2	56	5	6	80	3 <1	<10	15.8	12500
	2	36	10 <1		340 <1		2 <10	11.2	1510
	2	35	9 <1		190 <1		2 <10	11.3	1730
	4	37	7	1	630 <1		1 <10	21.6	1760
	5	42	32	1	480	1	4 <10	30.4	2440
	22	71	47 <1		120	1	8 <10	89.1	1780
	11	35	27 <1		1050 <1		4 <10	12.9	1520
	37	81	95 <1		1080 <1		15 <10	20.3	25
	10	67	94 <1		570 <1		12 <10	42.3	1300
	214	20	31 <1		430 <1		4 <10	22.8	73
	52	24	38 <1		440 <1		4 <10	15	196
	2	55	11	4	260	2	2 <10	22.3	6240
	1	33	10 <1		230 <1		3 <10	10.4	600
	8	146	80 <1		490 <1		17 <10	32.2	343
	5	173	92 <1		500 <1		24 <10	40.3	286
	7	58	27 <1		130 <1		5 <10	28.4	532
	1	25	12 <1		60 <1		2 <10	14.9	716
	52	39	23	3	270 <1		3 <10	28.7	4010
	3	35	10	2	80	1	2 <10	18.9	4200
	1	23	4 <1		170 <1	<1	<10	5.2	441
	11	25	7 <1		420 <1		1 <10	20.4	2080

	2	49	11 <1		80 <1		2 <10	13.1	1390
	1	35	19 <1		100 <1		3 <10	23.4	424
	8	51	16	4	260	2	2 <10	26.2	9600
	4	27	3 <1		180 <1	<1	<10	11.4	2820
	90	13	42 <1		670 <1		6 <10	31.5	59
	24	34	21	3	360	2	3 <10	27.5	9120
	1	37	10 <1		130 <1		2 <10	5.3	299
	5	42	8	1	110	1	1 <10	16.3	3560
	1	32	8 <1		120 <1		2 <10	10.1	1000
	2	32	6 <1		10 <1		2 <10	7.2	318
	2	24	15 <1		30 <1		3 <10	5.4	372
	3	32	16 <1		20 <1		3 <10	9.8	306
	1	27	10 <1		240 <1		2 <10	12	3320
	3	46	9	3	150	2	2 <10	29.6	6600
	1	38	17 <1	<10		2	3 <10	15.7	1380
<1		31	11 <1		120 <1		2 <10	7.3	138
	1	14	3 <1		70 <1	<1	<10	7.5	799
	1	14	2	1	40 <1	<1	<10	6.6	1990
	2	52	16	3 <10		2	3 <10	31.7	5600
<1		17 <1	<1		40 <1	<1	<10	5.1	761
	3	35	11	2	20	1	2 <10	15.5	4030
	1	34	11 <1		20 <1		2 <10	12.8	2280
<1		25	5 <1		40 <1		1 <10	5.1	712
	1	58	6	3	60	1	1 <10	10.3	5310
<1		34	1 <1		30 <1	<1	<10	10	683
	1	20	6 <1		50 <1	<1	<10	12	3620
<1		18	3 <1		180 <1	<1	<10	10.1	1140
	3	12	6 <1		370	2 <1	<10	13.6	4710
	2	11	1 <1		220 <1	<1	<10	3.3	1470
	45	64	8	8	300	3	1 <10	19.4	12600
	6	48	6	5	120	2	1 <10	10.9	9660
	11	45	8	4	270	2	2 <10	10.9	7070
	2	17	9 <1		50 <1		2 <10	8.2	555
	1	26	11 <1		170 <1		2 <10	11	899
	4	30	15 <1		180 <1		3 <10	13.3	1090
	10	28	17 <1		120 <1		3 <10	9.7	1650
<1		31	7 <1		310 <1		2 <10	6.8	825
<1		31	11 <1		30 <1		2 <10	7.3	275
<1		31	7 <1		20 <1		2 <10	5.6	316
<1		24	4 <1		80 <1	<1	<10	4.6	760
	1	27	6 <1		20 <1		1 <10	6.3	315
	1	32	10 <1		40 <1		2 <10	12.4	2660
	1	29	6 <1		50 <1		1 <10	9.5	778
	1	25	13 <1		160 <1		2 <10	15.9	698
<1		29	7 <1	<10	<1		2 <10	3.1	87
	1	29	13 <1		10 <1		3 <10	4	125
	21	25	7 <1	<10	<1		2 <10	3	76
	29	22	12 <1		240 <1		3 <10	11.2	502
	1	19	15 <1		800 <1		2 <10	46.5	918
	1	29	13 <1		60 <1		3 <10	9.3	292
<1		23	5 <1		290 <1		1 <10	5.5	466
	1	20	4 <1		30 <1	<1	<10	7	299

	1	38	20 <1	<10	<1		4 <10	14.6	1020
	1	29	14 <1		40 <1		2 <10	25.2	1640
	2	41	22	2	10	1	3 <10	44	5370
	1	28	8 <1		10 <1		1 <10	12	1480
	2	55	46	2 <10		1	6 <10	14.5	5840
	1	17	2	2	90 <1	<1	<10	4.2	3960
	1	25	9 <1	<10	<1		2 <10	8.6	631
	1	24	2	1	390 <1	<1	<10	5.6	2680
	2	33	5	1	50	2	1 <10	11.7	2610
	7	32	10 <1	<10	<1		2 <10	5.6	278
	2	30	11	1	60	1	2 <10	10.4	3050
	1	38	13 <1	<10	<1		2 <10	10.8	636
	1	21	8 <1		170 <1		2 <10	9.8	511
	1	26	8 <1		140 <1		2 <10	4.4	273
<1		18	4 <1		90 <1		1 <10	5	520
<1		27	6 <1		110 <1		2 <10	4.6	141
<1		23	8 <1		30 <1		1 <10	5.9	314
<1		32	21 <1		30 <1		4 <10	9	778
<1		13	3 <1		50 <1	<1	<10	4.7	229
<1		17	7 <1		10 <1		2 <10	4.8	98
<1		32	15 <1		90 <1		3 <10	13.5	505
	4	26	31 <1		220 <1		5 <10	11	381
	1	21	4 <1		30 <1		1 <10	3.3	189
	1	7 <1	<1		60 <1	<1	<10	3.5	1150
	2	25	7 <1		10 <1		2 <10	12.6	248
	4	16	5 <1		20 <1	<1	<10	10.9	443
	1	24	8	1	150 <1		2 <10	8.6	2990
	1	18	20 <1		150 <1		2 <10	19	1560
	1	18	3 <1		10 <1	<1	<10	6.4	796
	2	51	41 <1		310 <1		6 <10	49.7	1910
	2	45	21	1	150 <1		3 <10	36.7	3360
<1		26	14 <1		30	2	3 <10	20.5	641
<1		20	9 <1	<10	<1		2 <10	11.1	323
<1		25	13 <1	<10	<1		3 <10	5.3	209
<1		22	8 <1		30 <1		2 <10	10.8	765
<1		21	7 <1		10 <1		2 <10	6.3	285
<1		19	7 <1		10 <1		2 <10	5.9	302
	3	6	4 <1		40 <1	<1	<10	9.9	470
	2	9	3 <1	<10	<1	<1	<10	9.8	193
	60	18	2 <1		40 <1	<1	<10	5.9	724
	2	34	18 <1	<10	<1		3 <10	10.8	3600
<1		10	2 <1		160 <1	<1	<10	2.6	753
<1		17	11 <1		70 <1		2 <10	7.7	521
<1		17	11 <1		90 <1		2 <10	6.6	328
<1		9	6 <1		150 <1		1 <10	5.9	410
<1		20	9 <1	<10	<1		2 <10	7.9	151
	1	41	8	2	40	1	1 <10	16.5	6060
<1		30	12 <1	<10	<1		2 <10	10.4	545
<1		23	15 <1	<10	<1		2 <10	7.2	380
<1		15	3 <1		80 <1	<1	<10	4.3	1550
<1		25	13 <1	<10	<1		3 <10	7.2	92
	6	16	12 <1		80 <1		3 <10	15.2	896

	4	14	5 <1		180 <1	<1	<10	8.1	1250
	38	43	26 <1	<10	<1		6 <10	11	1040
	60	16	4	1	70 <1	<1	<10	22.2	521
	10	11 <1	<1		80 <1	<1	<10	14.8	503
	1	13	8 <1		220 <1	<1	<10	11.1	820
<1		25	13 <1		240 <1		3 <10	11.5	395
<1		25	17 <1	<10	<1		3 <10	9	353
<1		23	13 <1		330 <1		2 <10	15.4	2280
<1		11	3 <1		20 <1	<1	<10	4.9	139
<1		15 <1	<1	<10	<1	<1	<10	3.7	359
<1		6	1 <1	<10	<1	<1	<10	7.1	329
	1	11	4 <1	<10	<1	<1	<10	6.3	560
	1	31	10 <1		40 <1		2 <10	9.9	2400
	4	19	11 <1		90 <1		2 <10	21.6	581
	1	32	2 <1		200 <1	<1	<10	11.9	1920
	4	19	4 <1	<10	<1	<1	<10	9.6	443
	69	18	3	5	30 <1	<1	<10	13	4070
	4	10 <1	<1		180 <1	<1	<10	5.1	419
	34	24	3 <1		50 <1	<1	<10	10.1	2210
	5	26	17 <1		180 <1		3 <10	17.3	2200
	1	33	41 <1		80 <1		7 <10	25.2	866
	1	43	17 <1	<10	<1		3 <10	24.8	895
	1	9	14 <1		90 <1		3 <10	9.4	264
	2	63	8	12	260	3	1 <10	11.5	15200
	2	56	7	11	260	3	1 <10	11.4	14100
	7	12	3 <1		210	1 <1	<10	9	592
	8	12	6 <1		40	1	1 <10	11.7	961
	5	44	43 <1	<10	<1		7 <10	3.2	69
	14	22	5 <1	<10	<1	<1	<10	11.8	278
	13	19	4 <1	<10	<1	<1	<10	9	184
	1	20	4 <1		200 <1	<1	<10	9	1400
	1	39	19 <1		280 <1		6 <10	24.5	1860
<1		34	67 <1		760 <1		11 <10	40	432
<1		13	18 <1		90 <1		3 <10	9.3	185
	1	25	20 <1		10 <1		4 <10	16.7	652
<1		16	6 <1	<10	<1		1 <10	8.7	176
<1		12	8 <1		50 <1		2 <10	4.3	202
	3	28	58 <1		80 <1		8 <10	28.8	1230
<1		11	11 <1		190 <1		2 <10	5.3	458
	4	14	4 <1		20 <1	<1	<10	10.3	914
	3	52	9	8	120	2	1 <10	12.8	9480
	14	26	10 <1	<10	<1		2 <10	11.4	1240
	1	8	18 <1		460 <1		3 <10	8.4	142
<1		22	22 <1	<10	<1		3 <10	5.1	75
<1		23	4 <1		60 <1	<1	<10	8.3	1430
<1		21	16 <1		210 <1		3 <10	8.5	229
<1		16	33 <1		340 <1		6 <10	8.1	62
<1		8	21 <1		590 <1		4 <10	4.9	195
<1		12	5 <1		150 <1		1 <10	6	78
<1		8	2 <1		60 <1	<1	<10	2.7	365
<1		10 <1	<1		70 <1	<1	<10	4.4	237
<1		23	13 <1	<10	<1		2 <10	2.2	17

	92	30	7	1	150 <1		1 <10	21.6	2560
	1	16	15 <1	<10	<1		2 <10	8.7	274
<1		14	1 <1		60 <1	<1	<10	4.6	529
	4	18	13	1	10 <1		2 <10	16.8	3180
<1		15	15 <1		10 <1		2 <10	11	266
	1	19	51 <1		300 <1		7 <10	30.3	724
<1		24	87 <1		370 <1		10 <10	20.8	140
<1		17	5 <1		410 <1		1 <10	6.3	802

Tl	U	W	Y	Yb	Zn	Zr	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
0.5	1	1	5	1	20	5	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	
	0.7	22	2	493	24	30	40
<0.5		9 <1		127	12	40	36
	1.2	9 <1		107	8	60	43
	0.5	5 <1		32	4	80	22
	0.6	5 <1		90	8	240	22
<0.5		8 <1		149	14 <20		29
	0.5	5 <1		140	11	30	9
<0.5		4 <1		50	6	20	17
<0.5		6 <1		103	8	60	35
<0.5		5 <1		57	5	50	20
	0.7	7	1	37	4	160	53
	0.6	12	2	189	17	30	82
<0.5		3 <1		42	4	120	15
	0.8	6 <1		32	4	60	45
	0.6	5 <1		30	4	110	38
	0.5	4 <1		76	6	60	43
<0.5		7 <1		73	6	100	26
<0.5		5 <1		42	5	390	25
<0.5		4 <1		58	7	270	22
<0.5		4 <1		60	5	200	16
	0.5	10 <1		67	6	100	38
	0.6	6 <1		62	4	220	48
<0.5		5 <1		65	5	160	32
<0.5		10 <1		74	7	90	26
<0.5		6 <1		134	10	100	10
	1.1	33 <1		525	34	30	44
	0.6	11 <1		33	4	130	28
<0.5		4 <1		74	5	70	12
	0.7	6 <1		264	16 <20		11
<0.5		2 <1		23	3	80	13
<0.5		6 <1		174	13 <20		15
<0.5		3 <1		36	4	30	16
	2.4	23	3	1310	106	30	133
<0.5		3 <1		52	5 <20		15
<0.5		4 <1		75	6 <20		9
<0.5		3 <1		68	5	40	13
	0.6	3 <1		77	6	30	21
<0.5		4 <1		24	3	30	38
<0.5		7 <1		188	11 <20		19
<0.5		2	1	36	3	50	35
	0.6	7 <1		26	3	70	30
<0.5		7 <1		37	9	920	19
	0.9	9	2	89	7	310	55
<0.5		6 <1		53	7	150	15
	0.6	25	1	307	21	40	61
	0.5	7	2	123	10	70	38
<0.5		5 <1		85	9	180	12
<0.5		5 <1		43	7	160	11

	0.7	14	2	120	9	20	58
	1.3	15	6	93	8	60	165
	1.6	17	3	296	22	40	115
	0.9	10	2	75	6	230	65
	0.7	30 <1		130	10 <20		16
	0.6	10	1	125	9	30	48
	1.5	17	1	121	12	100	45
	0.5	4 <1		72	6	30	16
	0.5	6 <1		71	7	60	17
<0.5		5 <1		39	4	70	24
	0.5	3 <1		41	5	120	16
	1.1	8	1	120	10	60	58
<0.5		4 <1		56	5	60	15
<0.5		4 <1		62	5	50	19
	0.6	3 <1		39	5	40	14
	0.8	19	2	495	33	50	56
<0.5		5 <1		56	6	60	30
	0.5	6 <1		61	5	380	44
<0.5		3 <1		44	6 <20		10
<0.5		3 <1		61	6	30	12
<0.5		2 <1		69	6 <20		8
<0.5		4 <1		56	6	170	13
<0.5		3 <1		55	6	90	11
<0.5		2 <1		56	5	40	7
	0.7	2 <1	<5		1	90	10
	0.7	8	3	58	5	620	101
<0.5		23	1	274	23	170	90
<0.5		9 <1		137	12	230	32
	0.8	7 <1		58	9	400	34
	0.7	5 <1		83	7	460	33
<0.5		3 <1		64	9	350	20
<0.5		8 <1		85	8	120	41
	0.5	5 <1		64	6	340	32
<0.5		4 <1		95	14	60	26
<0.5		4 <1		120	9	50	12
	0.6	6 <1		84	7	130	30
	0.7	9	1	73	7	880	45
	0.5	5 <1		83	8	90	9
<0.5		10 <1		142	11	40	37
<0.5		4 <1		98	8	50	9
<0.5		5 <1		93	7	110	29
<0.5		6 <1		60	6	180	18
<0.5		3 <1		49	5	470	25
	0.7	6 <1		8	3	40	22
<0.5		6 <1		93	11	80	23
<0.5		6 <1		101	9	50	16
	0.8	13 <1		117	10	220	51
<0.5		5 <1		133	10	40	20
<0.5		11 <1		168	15	110	22
	0.8	5 <1		109	9	100	22
	1.2	21	2	148	13	110	92
<0.5		9 <1		184	14	160	27

<0.5	6 <1		61	5	1240	26	
<0.5	11 <1		89	8	150	26	
<0.5	9 <1		257	19	50	15	
	0.7	19	3	396	28	40	105
	0.7	9 <1		198	16	230	30
<0.5	6 <1		26	4	20	26	
<0.5	6 <1		123	12	30	34	
<0.5	10 <1		185	14	70	43	
	0.6	15 <1		117	11	500	48
	1	24	2	88	8	50	22
	1.2	16	3	139	11	180	82
	1	16	1	109	11	70	54
	0.9	10	1	137	10	90	53
	1.1	15	2	98	9	200	89
	0.6	33 <1		302	17	70	14
<0.5	6 <1		33	4	40	32	
	0.8	17	2	218	17	70	55
	0.6	4 <1		34	4	100	22
<0.5	7 <1		62	5	180	16	
	1.7	111	1	163	13	180	108
	0.7	9 <1		213	13	20	24
<0.5	10 <1		113	8	30	40	
	0.6	10 <1		43	5	110	52
<0.5	30 <1		138	8	30	32	
<0.5	6 <1		60	6	60	26	
	0.5	6 <1		96	7	100	24
	0.6	8 <1		63	7	70	31
<0.5	6 <1		70	6	110	25	
<0.5	7 <1		66	6	40	43	
	0.7	11 <1		263	16	40	18
<0.5	9 <1		26	3 <20		9	
<0.5	8 <1		176	11	40	10	
	0.9	10	3	28	3	220	77
	0.6	7 <1		104	7	30	17
	0.8	14	1	120	10	90	63
<0.5	5 <1		86	7	30	27	
	0.9	12	1	190	17	410	69
<0.5	4	1	24	3	260	41	
<0.5	9 <1		93	7	70	33	
	0.5	12	1	49	5	300	101
<0.5	23 <1		416	24	90	22	
	0.9	7	2	38	4	200	80
	0.6	7 <1		51	6	320	36
	0.5	14 <1		29	4	60	43
	0.9	10 <1		56	5	130	66
	0.9	16 <1		94	6	190	33
	0.9	9	1	54	5	580	74
	0.7	3 <1		53	6	240	26
<0.5	8 <1		83	10	370	33	
	1.5	23	2	370	27	40	57
	1.4	19	2	233	17	160	118
	0.9	7	2	93	10	440	75

	0.7	6 <1		62	8	50	27
	1.3	16	3	122	13	1900	124
<0.5		15 <1		168	14 <20		33
	1.8	9 <1		92	9	30	31
<0.5		4 <1		52	5	20	15
	0.5	8 <1		82	8	50	36
<0.5		5 <1		56	8	110	16
	0.5	3 <1		13	3	40	11
	0.5	12 <1		37	6	50	31
<0.5		8 <1		40	6 <20		10
<0.5		6 <1		67	5 <20		17
<0.5		6 <1		91	7	20	21
<0.5		3 <1		24	5 <20		15
<0.5		3 <1		55	4 <20	<5	
	0.7	8 <1		67	8	70	45
<0.5		11 <1		71	8	50	33
<0.5		4 <1		44	6 <20		11
<0.5		5 <1		17	2	50	29
	0.6	5	2	22	3	480	33
<0.5		6 <1		29	3	100	54
<0.5		9 <1		142	13	60	16
<0.5		16 <1		309	22	50	31
<0.5		4 <1		80	7 <20		12
<0.5		16 <1		69	6 <20		38
<0.5		4 <1		51	5	270	30
<0.5		10 <1		18	3 <20		17
	0.5	13 <1		78	7	20	54
	1.3	35 <1		210	15 <20		58
	0.9	6	1	28	4	290	40
	0.5	8 <1		72	6	60	34
<0.5		7 <1		82	7	70	39
	0.6	17	2	128	11	100	72
	0.8	11 <1		127	11	30	51
<0.5		7 <1		70	6	50	15
	0.7	16 <1		121	9	30	57
<0.5		11 <1		431	30 <20		20
<0.5		9 <1		151	11 <20		21
<0.5		8 <1		90	8	50	32
<0.5		6 <1		77	8	30	37
	0.9	2 <1		20	6	120	14
	0.5	10 <1		78	11	40	38
<0.5		4 <1		97	8 <20		10
	0.7	6 <1		43	6	20	16
<0.5		6 <1		80	7	50	25
	0.5	6 <1		62	8	70	29
<0.5		7 <1		92	9	50	23
<0.5		8 <1		105	9	30	24
<0.5		8	2	92	7	60	38
	0.7	13	2	128	10 <20		42
<0.5		5 <1		26	4	160	33
<0.5		4	1	56	5	50	37
<0.5		4 <1		115	9	30	14

<0.5	4 <1		17	2	390	18
<0.5	3 <1		47	3	80	13
<0.5	3 <1		57	4 <20		12
<0.5	6 <1		64	6	40	23
<0.5	7	1	110	8	120	25
<0.5	2 <1		52	4	90	9
<0.5	22	2	278	21	260	43
<0.5	14 <1		141	11	160	25
	0.5	2	112	10	110	53
	0.8	2	184	14	40	96
<0.5	10	5	34	3	280	38
	0.6	21 <1	100	10	280	46
	0.6	7	63	8	110	30
	0.5	12	88	8	90	56
<0.5	12	1	90	9 <20		34
<0.5	4 <1		102	8 <20		13
<0.5	5 <1		15	2 <20		23
	0.6	13 <1	327	22 <20		27
<0.5	4 <1		30	3	170	21
<0.5	5 <1		29	2	410	15
<0.5	10 <1		55	6	50	30
	0.5	12	103	13	160	45
<0.5	17	9	96	9	60	87
<0.5	6 <1		57	5	120	21
	0.6	5	111	9	60	6
	0.9	131	659	46	50	37
<0.5	4 <1		75	6	200	18
	1.2	46	822	49	80	25
	0.8	10	105	7	110	46
	1.1	24 <1	275	18	50	33
	0.9	21	135	12	310	207
	1.3	17	201	14	150	165
<0.5	13 <1		52	3	120 <5	
	0.9	23	182	13	30	73
<0.5	6	2	54	5	70	44
	1.1	6 <1	28	3	70	35
	0.5	5 <1	67	4	20	22
	0.6	4	33	4	360	46
<0.5	4 <1	2	96	7	40	34
	1.4	12	105	8	120	74
<0.5	4 <1	2	69	5	50	15
	0.7	11	74	7	70	53
<0.5	4 <1	1	69	5 <20		14
	0.9	24	164	14	50	109
	0.9	13	146	10	80	105
<0.5	7 <1		267	18	100	9
<0.5	13	2	206	16	40	73
<0.5	8 <1		48	6	440	65
<0.5	68 <1		173	11	40	46
	0.5	5 <1	60	5	430	26
<0.5	189 <1		138	9	40	30
	0.8	8	44	3	50	48

<0.5		21 <1		9	1	20 <5	
	0.7	4 <1		23	2	60	18
<0.5		5 <1		81	8	60	20
	1.2	17	4	112	9	170	121
	0.6	15 <1		203	16	200	85
<0.5		5	2	43	5	130	41
<0.5		4 <1		107	9	400	20
<0.5		35 <1		451	29 <20		62
<0.5		12 <1		161	10	60	21
<0.5		14	1	352	23	60	64
<0.5		4 <1		87	7	110	16
<0.5		4 <1		50	5	30	21
<0.5		8 <1		82	7	30	28
	0.6	11 <1		81	6	40	51
<0.5		10 <1		100	8	60	55
	3	7	8	98	8	80	27
	1.2	5	2	75	5	100	22
	0.8	3	1	92	7 <20		11
	1	3 <1		30	4 <20		19
	0.6	5 <1		73	6 <20		32
	0.6	3	5	9	2 <20		13
<0.5		5	4	52	6	50	30
<0.5		8	3	90	9	60	29
<0.5		4	2	87	7	30	16
<0.5		5	2	129	10 <20		28
<0.5		9	2	176	14	50	39
	0.7	9	4	159	14	100	78
<0.5		5	2	70	5	50	34
<0.5		5	1	39	4	40	27
<0.5		3	2	57	6	80	21
<0.5		6	3	21	2	1320	113
	0.6	8	3	22	2	170	79
<0.5		9	1	50	5	190	39
<0.5		4 <1		63	5	140	26
	0.5	9	2	39	3	270	31
<0.5		12	2	87	6	100	46
<0.5		22	2	197	19	310	79
<0.5		7	2	143	12	1160	15
<0.5		88 <1		478	30	60	25
<0.5		39	1	265	20	90	34
<0.5		231	2	116	8	600	31
<0.5		42	2	107	7	930	24
	0.7	9	2	50	4	290	59
<0.5		6	1	113	9	1260	16
<0.5		389	1	687	58	80	109
<0.5		447	1	1110	85	160	103
<0.5		21	2	185	17	90	174
<0.5		6 <1		61	5	350	27
	0.6	12	2	74	8	140	54
<0.5		6	1	37	4	310	65
<0.5		3 <1		24	3	280	16
<0.5		5 <1		33	3	6360	36

<0.5	5 <1		76	8	5550	34
<0.5	6 <1		87	6	4050	41
<0.5	7	2	47	4	3430	71
<0.5	4 <1		10	2	460	28
<0.5	56 <1		149	11	500	49
<0.5	7	1	53	4	400	154
<0.5	4 <1		65	5	500	15
<0.5	6 <1		35	4	1830	53
<0.5	4 <1		50	4	6120	30
<0.5	4 <1		56	6	1430	22
<0.5	4 <1		107	9	2500	17
<0.5	4 <1		90	7	2660	24
<0.5	4	2	58	5	1320	28
<0.5	7	1	56	5	950	69
<0.5	6	2	66	5	70	41
<0.5	4 <1		83	6	100	17
<0.5	3 <1		10	1	20	22
<0.5	2 <1		9	1	50	27
<0.5	12	3	53	4	140	106
<0.5	2 <1	<5	<1	<20		19
<0.5	8	1	47	6	300	47
<0.5	6 <1		63	6	50	40
<0.5	4 <1		58	5	50	16
<0.5	6	1	25	3	140	48
<0.5	4	1	7	1	80	41
0.6	6	2	22	3	80	28
<0.5	3 <1		22	3	70	20
0.6	6 <1		18	2	120	49
<0.5	2 <1	<5	<1	<20		14
<0.5	6	8	36	4	1950	81
<0.5	5	2	30	4	1670	56
<0.5	4	1	37	3	1710	53
<0.5	4 <1		66	5	400	19
<0.5	4 <1		67	6	1800	21
<0.5	6 <1		82	7	1600	35
<0.5	6 <1		106	9	130	28
<0.5	5 <1		59	5	100	21
<0.5	4 <1		70	6	60	20
<0.5	4 <1		56	6	110	15
<0.5	3 <1		29	3	100	16
<0.5	3 <1		43	5	300	16
<0.5	4 <1		51	4	1180	42
<0.5	5 <1		40	5	3110	26
<0.5	8 <1		55	3	740	29
<0.5	2 <1		81	7	1800	12
<0.5	3 <1		114	7	70	13
<0.5	4 <1		73	7	240	11
<0.5	7 <1		82	6	80	25
<0.5	14 <1		65	8	60	20
<0.5	6 <1		84	6	130	22
<0.5	4 <1		55	5	170	15
<0.5	4 <1		30	4	140	17

<0.5		5 <1		108	10	100	31
	0.5	8 <1		54	6	20	35
	0.5	10	2	70	6	40	77
<0.5		9 <1		51	4	20	24
<0.5		6	1	144	11	30	49
<0.5		2 <1		11	2	70	25
<0.5		5 <1		64	6	30	22
<0.5		3 <1		24	3	2340	29
<0.5		5	2	45	5	1200	46
<0.5		4	1	100	8	740	15
<0.5		4 <1		48	4	300	41
<0.5		4	2	70	7	280	27
<0.5		4	1	42	4	170	23
<0.5		2	1	60	5	890	12
<0.5		3 <1		34	4 <20		15
<0.5		4 <1		68	6	30	10
<0.5		4 <1		50	5	120	16
<0.5		3	4	135	9	40	17
<0.5		3 <1		31	4	290	13
<0.5		3 <1		55	4	40	7
<0.5		6 <1		78	5	440	24
<0.5		6 <1		160	10	690	20
<0.5		2	1	58	6	390	11
<0.5		2 <1		5 <1		350	17
<0.5		7 <1		55	5	980	35
<0.5		7 <1		21	2 <20		36
<0.5		5 <1		47	4	50	34
<0.5		9 <1		47	4	70	41
<0.5		2	1	21	3	140	18
<0.5		11	1	117	9	410	54
<0.5		10	1	96	10	110	47
<0.5		9	2	54	5	120	41
<0.5		5	1	65	6	160	19
<0.5		4 <1		117	9 <20		14
<0.5		4 <1		48	5	70	23
<0.5		5 <1		67	7	80	15
<0.5		5 <1		69	7	60	14
<0.5		7 <1		11	1	90	32
<0.5		7 <1		11	1	110	29
<0.5		3	3	11	1	690	45
<0.5		5 <1		70	5	190	58
<0.5		2 <1		24	3	390	10
<0.5		4 <1		57	4	70	26
<0.5		3 <1		67	4	170	16
<0.5		2 <1		33	3	60	12
<0.5		4 <1		62	5	20	16
<0.5		5	1	35	4	160	54
<0.5		4 <1		59	5	90	24
<0.5		3 <1		69	5	110	15
<0.5		2 <1		21	2	70	17
<0.5		3 <1		75	6	90	15
<0.5		12 <1		52	5	530	39

<0.5	7 <1		25	3	90	21
<0.5	14 <1		152	12	420	32
<0.5	16	4	15	1	540	40
<0.5	30	1 <5	<1		70	15
<0.5	5 <1		18	2	60	19
<0.5	6 <1		79	6	70	23
<0.5	4 <1		103	8	30	16
<0.5	4 <1		46	4	80	34
<0.5	3 <1		26	4	70	10
<0.5	4 <1		25	4	230	8
<0.5	4 <1		6 <1		40	19
<0.5	3 <1		16	2 <20		20
<0.5	4 <1		97	9	190	26
0.6	15 <1		55	7	30	21
<0.5	5 <1		10	2	480	24
<0.5	7 <1		17	2	100	24
<0.5	9	2	13	1	330	35
<0.5	3 <1	<5	<1		150	17
<0.5	13 <1		26	3	290	32
<0.5	11 <1		64	4	340	60
<0.5	10 <1		180	13	340	32
<0.5	7 <1		61	8	340	48
<0.5	12 <1		56	4	20	87
<0.5	5	2	31	3	460	77
<0.5	6	2	28	3	540	76
<0.5	8	2	14	2	70	33
<0.5	8	1	19	2	60	52
<0.5	9 <1		190	17	180	7
<0.5	20 <1		22	2	40	23
<0.5	14 <1		17	2	50	28
<0.5	5 <1		25	3	650	26
<0.5	13 <1		218	15	80	28
<0.5	12 <1		288	17	30	23
<0.5	5 <1		72	5	20	18
<0.5	16	1	71	6	30	47
<0.5	5 <1		32	3	60	17
<0.5	3 <1		42	3 <20		10
<0.5	12 <1		149	10 <20		42
<0.5	2 <1		62	4	40	11
<0.5	7 <1		16	2	100	34
<0.5	8	3	36	3	500	68
<0.5	7 <1		42	4	220	33
<0.5	8 <1		60	4	470	14
<0.5	5 <1		88	6	70	9
<0.5	4 <1		25	2	420	40
<0.5	10 <1		69	5	30	22
<0.5	31 <1		132	7	30	54
<0.5	6 <1		86	5	130	14
<0.5	8 <1		35	3 <20		21
<0.5	1 <1		16	1	520	11
<0.5	3 <1		6	2	260	13
<0.5	4 <1		74	5	50 <5	

<0.5	6	1	27	2	1370	39
<0.5	4 <1		53	4	70	18
<0.5	2 <1		13	3	190	10
0.5	12 <1		38	3	70	46
<0.5	4 <1		59	4	30	21
<0.5	8 <1		130	10	40	35
<0.5	7 <1		176	11	20	20
<0.5	2 <1		46	3	20	13

Analytical Duplicates

ANALYTE METHOD DETECTION UNITS	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	MMI-M5 1 PPB	MMI-M5 1 PPM	MMI-M5 1 PPB	MMI-M5 10 PPB	MMI-M5 0.1 PPB	MMI-M5 10 PPB	MMI-M5 1 PPM	MMI-M5 10 PPB
HM-07-1	19	52	20	7.2	2540	10	170	<10
DUP-HM-07-1	16	49	20	8.4	2320	10	150	<10
HM-07-13	7	233	30	0.6	630	1	20	<10
DUP-HM-07-13	6	215	20	0.5	690	1	20	<10
HM-07-25	1	244	<10	0.2	160	<1	<10	<10
DUP-HM-07-25	1	251	<10	0.3	220	<1	<10	<10
HM-07-37	6	203	<10	<0.1	450	<1	10	<10
DUP-HM-07-37	6	198	<10	<0.1	410	<1	20	<10
HM-07-49	1	186	<10	<0.1	70	<1	<10	20
DUP-HM-07-49	1	188	<10	<0.1	80	<1	<10	20
HM-07-60 Dup	26	241	<10	<0.1	330	<1	<10	10
DUP-HM-07-60 Dup	26	242	<10	<0.1	300	<1	<10	10
HM-07-72	5	207	<10	<0.1	440	<1	<10	10
DUP-HM-07-72	5	208	<10	<0.1	410	<1	<10	10
HM-07-230	20	36	<10	0.1	120	<1	10	6
DUP-HM-07-230	18	31	<10	<0.1	100	<1	<10	6
HM-07-242	40	136	<10	0.1	900	<1	80	11
DUP-HM-07-242	36	137	<10	0.4	810	<1	70	12
HM-07-254	5	9	<10	0.3	3600	<1	220	2
DUP-HM-07-254	5	11	<10	0.3	3770	<1	180	2
HM-07-266	4	32	<10	<0.1	1070	<1	200	2
DUP-HM-07-266	5	33	<10	0.1	1370	<1	170	<1
HM-07-156	28	174	<10	0.5	360	<1	20	<10
DUP-HM-07-156	24	172	<10	0.5	390	<1	20	<10
HM-07-168	21	>300		20	0.3	640	<1	<10
DUP-HM-07-168	21	>300		20	0.3	700	<1	<10
HM-07-180	<1	168	20	0.1	1000		1	50
DUP-HM-07-180	<1	120	<10	0.3	840	<1		60
HM-07-191	38	239	<10	0.8	270	<1	<10	<10
DUP-HM-07-191	40	240	<10	0.9	270	<1	<10	<10

HM-07-203	4	>300	20	<0.1	1210	<1	<10	<10	
DUP-HM-07-203	4	>300	20	0.1	1280	<1	<10	<10	
HM-07-214	7	>300	20	<0.1	780	2	10	<10	
DUP-HM-07-214	7	>300	10	<0.1	670	2	<10	<10	
HM-07-226	6	256	10	0.1	580	<1	20	<10	
DUP-HM-07-226	6	259	10	<0.1	540	<1	20	<10	
HM-07-76	4	>300	30	0.2	750	5	70	10	
DUP-HM-07-76	5	>300	30	<0.1	720	5	90	10	
HM-07-88	9	233	<10	0.6	420	<1	10	<10	
DUP-HM-07-88	12	>300	10	0.7	500	<1	20	<10	
HM-07-99	6	>300	<10	0.2	270	<1	<10	10	
DUP-HM-07-99	7	>300	<10	0.3	330	<1	<10	10	
HM-07-111	7	86	20	1.4	560	<1	390	10	
DUP-HM-07-111	9	81	20	1.4	400	<1	310	10	
HM-07-122	9	188	<10	0.2	300	<1	160	<10	
DUP-HM-07-122	6	160	<10	0.1	180	<1	160	<10	
HM-07-134	4	250	100	<0.1	990	5	60	<10	
DUP-HM-07-134	5	274	70	<0.1	810	4	50	<10	
HM-07-146	7	223	20	0.4	770	2	200	<10	
DUP-HM-07-146	6	182	20	0.3	610	2	170	<10	

Field Duplicates

ANALYTE METHOD DETECTION UNITS	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	1	10	0.1	10	1	10	10
	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB
HM-07-240	2	270	20	<0.1	360	<1	10	4
HM-07-240-DUP	3	286	<10	0.4	370	<1	<10	3
HM-07-210	2	112	10	0.4	430	<1	200	<10
HM-07-210 Dup	7	142	10	0.6	880	2	150	<10
HM-07-180	<1	168	20	0.1	1000	1	50	<10
HM-07-180 Dup	<1	170	<10	0.1	650	<1	60	<10
HM-07-120	2	64	<10	<0.1	1300	<1	330	<10
HM-07-120 Dup	3	66	<10	0.1	1360	<1	430	<10
HM-07-60	27	243	<10	<0.1	300	<1	<10	10
HM-07-60 Dup	26	241	<10	<0.1	330	<1	<10	10

HM-07-90	14	284	<10	0.1	280	<1	<10	<10
HM-07-90 Dup	14	287	<10	<0.1	280	<1	<10	<10

Replicate Analyses of MMI Standard MMISRM14

ANALYTE METHOD DETECTION UNITS	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 10 PPB	Ca MMI-M5 1 PPM	Cd MMI-M5 10 PPB
MMISRM14	18	47	10	41.5	100	<1	250	<10
MMISRM14	18	44	10	43.1	90	<1	250	<10
MMISRM14	19	55	10	41.7	120	<1	270	9
MMISRM14	17	38	10	38.3	110	<1	230	8
MMISRM14	17	38	10	43.8	60	<1	230	<10
MMISRM14	17	39	10	43.4	70	<1	230	<10
MMISRM14	21	49	10	46.3	110	<1	280	<10
MMISRM14	21	52	10	45.2	60	<1	280	<10

Recommended Analyses of MMI Standard MMISRM14

ANALYTE METHOD DETECTION UNITS	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 10 PPB	Ca MMI-M5 1 PPM	Cd MMI-M5 10 PPB
MMISRM14	19	36	13	44.1	60	<1	273	8

Replicate Analyses of Analytical Blanks

ANALYTE METHOD DETECTION UNITS	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 10 PPB	Ca MMI-M5 1 PPM	Cd MMI-M5 10 PPB
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10

Ce MMI-M5 PPB	Co MMI-M5 5 PPB	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 PPB	Er MMI-M5 1 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 0.5 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB
1450	28	<100	6980	118	39.8	70	37	255	1140
1260	23	<100	6450	104	36.2	61.6	36	225	985
578	94	300	740	42	20.3	18	223	68	253
604	86	300	690	41	19.2	18.5	198	67	263
133	17	<100	290	16	8.8	3.9	62	15	58
156	18	<100	300	17	8.9	4.6	58	17	66
80	38	<100	130	12	6.4	3.4	18	12	43
71	39	<100	130	12	6.2	3.1	21	11	39
25	24	<100	220	8	6.8	1.1	36	4	11
30	23	<100	230	10	7.8	1.5	32	6	12
35	91	<100	170	9	6	1.7	56	6	14
35	85	<100	160	8	5.6	1.5	60	6	15
45	51	<100	80	10	6.9	2.1	38	8	21
37	54	<100	80	9	6.3	1.7	41	7	17
193	25	<100	200	16	10.2	6.1	10	22	107
130	17	<100	130	11	7.6	3.6	6	13	77
205	52	<100	320	13	5.8	6	19	20	87
182	57	<100	280	12	5.5	5.1	20	18	79
686	33	<100	1660	28	12.9	14.6	24	63	370
723	28	<100	1520	29	13.5	15.3	24	68	383
545	50	<100	680	30	12.9	17.1	40	66	293
512	40	<100	780	33	13.6	17.8	28	71	303
288	13	<100	370	34	18.1	10.8	37	41	90
296	13	<100	350	37	19.4	11.6	37	44	95
97	78	200	460	15	8.4	4	204	14	48
100	72	200	420	14	8.1	3.8	199	13	49
232	44	200	1030	20	8.7	6.4	233	25	106
327	26	<100	760	23	9.3	9.7	200	37	138
122	65	<100	360	20	10.7	5.7	54	20	51
107	82	<100	390	20	11.2	5.2	48	17	45

104	123	100	420	7	3.9	2.1	91	6	36
97	108 <100		430	6	3.3	1.8	94	6	33
335	84	100	330	24	13	8.4	123	30	155
334	72	100	310	24	12.9	8.8	115	31	150
188	76	100	400	13	7.2	5	165	18	94
182	71	100	370	14	7.6	5.3	165	18	90
1470	211	200	390	56	27.4	28.3	100	99	585
1700	281	200	440	66	33.4	33.4	100	117	663
372	34 <100		450	30	14.8	12.6	66	44	134
385	46	200	600	34	17.6	13.1	90	45	143
176	149 <100		400	22	11.4	6.8	40	24	70
219	159	100	450	26	13.1	8.8	46	30	86
144	76 <100		8320	16	8.5	5.1	101	24	69
121	83 <100		7450	15	8.2	4.5	86	22	57
744	59 <100		450	47	20.2	19.7	42	73	231
765	44 <100		410	50	21.6	21	39	76	237
180	198	400	650	7	4.1	2.1	606	8	52
207	172	300	490	8	4.2	2.5	486	9	56
398	110	200	390	14	6.3	6.4	138	23	90
336	92	100	340	12	5.5	5.4	115	19	72

Ce	Co	Cr	Cu	Dy	Er	Eu	Fe	Gd	La
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
5	5	100	10	1	0.5	0.5	1	1	1
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB
158	38	100	280	12	6.2	4.2	178	15	80
306	44 <100		320	27	12.5	8.9	63	33	128
678	62 <100		180	24	10.4	13.3	70	50	351
1210	73	200	2260	43	17.6	23.3	71	87	615
232	44	200	1030	20	8.7	6.4	233	25	106
111	46 <100		830	12	6.2	3.8	225	14	50
307	35 <100		110	13	6.1	6.8	56	26	147
236	33 <100		110	11	5.1	5.8	51	23	116
35	94 <100		160	8	5.5	1.6	62	6	14
35	91 <100		170	9	6	1.7	56	6	14

Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
5	1	5	0.5	1	5	10	1	1	5	
PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<5		25	60	5.6	1360	38	220	<1	330	55
<5		24	58	5.5	1200	33	200	<1	297	50
	5	2	9	13.4	380	127	170	<1	93	53
	5	2	9	11.9	390	116	170	<1	95	51
<5	<1	<5		3.2	68	55	170	<1	17	21
<5	<1	<5		2.9	81	70	170	<1	20	19
<5		1	<5	1	53	116	200	<1	13	101
<5		1	<5	1	48	122	230	<1	11	101
<5	<1	<5		0.9	14	39	240	<1	3	84
<5	<1	<5		0.8	19	39	270	<1	4	87
<5		2	<5	1.9	22	131	290	<1	5	149
<5		1	<5	2.1	21	124	300	<1	5	143
<5		1	<5	1	29	207	270	<1	7	144
<5		1	<5	1	24	179	230	<1	6	144
<5		1	<5	1.1	124	59	110	<1	32	<1
<5	<1	<5	<0.5		74	45	100	<1	19	<1
<5		6	6	0.7	97	111	200	<1	23	<1
<5		5	6	0.8	87	123	180	<1	21	<1
	9	25	19	0.9	423	187	40	<1	105	<1
	7	22	17	1.1	469	151	40	<1	112	<1
<5		10	6	3.8	404	40	80	<1	97	<1
<5		8	5	3.3	429	32	50	<1	100	<1
<5		1	10	2.4	182	56	220	<1	38	149
<5		1	10	2.4	195	49	240	<1	40	144
	11	1	<5	7.2	55	242	390	<1	13	256
	12	1	<5	7.1	54	220	450	<1	13	270
<5		2	6	3.3	112	57	140	<1	28	57
<5		2	<5	2.5	177	36	110	<1	42	50
<5		1	<5	4	74	111	270	<1	17	128
<5		2	<5	3.9	65	133	270	<1	15	139

28	2 <5		6.4	33	121	220 <1	9	57
33	2 <5		6.2	29	118	190 <1	8	51
18	4	7	15.7	173	123	190 <1	44	74
13	3	7	11.7	178	113	190 <1	43	62
11	4 <5		6.8	97	192	70 <1	25	41
11	3 <5		6.8	101	182	60 <1	25	42
25	10	8	35.7	711	463	380 <1	179	30
33	14	8	33	839	602	440 <1	209	31
<5	1	5	2.1	216	81	230 <1	48	103
<5	2	6	2.9	222	111	280 <1	50	124
<5	1 <5		2.2	110	103	190 <1	25	147
<5	2 <5		3.1	140	108	190 <1	31	148
<5	28	8	0.7	110	361	20 <1	24	17
<5	22	9	0.6	92	339	20 <1	20	15
<5	7 <5		2	367	148	200 <1	85	50
<5	6 <5		1.8	388	143	140 <1	89	45
15	13	16	32.1	42	193	230 <1	11	100
13	9	14	26.7	49	157	270 <1	12	83
18	22	11	7.5	120	211	150 <1	29	159
14	19	10	6.3	103	178	120 <1	24	131

Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
5	1	5	0.5	1	5	10	1	1	5
PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<5	6	3	10	17.3	73	128	70 <1	20	65
<5		2	5	5.4	175	139	150 <1	44	56
<5		19 <5		3.2	371	138	50 <1	94	15
<5	7	13	6	10	656	209	210 <1	170	39
<5		2	6	3.3	112	57	140 <1	28	57
<5		3	6	5.2	56	65	110 <1	14	68
	8	42 <5		2.1	178	127	160 <1	43	33
	6	54 <5		2	148	144	100 <1	35	32
<5		1 <5		2.1	21	123	260 <1	5	150
<5		2 <5		1.9	22	131	290 <1	5	149

<5	2 <5	4.4	110	86	290 <1	26	173
<5	1 <5	4.2	123	76	270 <1	28	173

Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	Sb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	5	0.5	1	5	10	1	1	5
PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
	32	34 <0.5		16	271	120	41	3	265 <1
	33	34 <0.5		14	280	120	42	3	256 <1
	37	40 <0.5		21	344	140	47	5	301 <1
	34	37 <0.5		13	271	110	45	3	275 <1
	39	34 <0.5		13	300	120	44	2	277 <1
	39	33 <0.5		13	295	120	43	2	273 <1
	47	33 <0.5		13	282	110	46	2	283 <1
	48	33 <0.5		13	281	110	46	2	278 <1

Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	Sb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	5	0.5	1	5	10	1	1	5
PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
	36	37 <0.5		10	289	100	46	2	283 <1

Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	5	1	5	0.5	1	5	10	1	1
PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<1
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<1
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5

Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
1	5	1	1	10	1	1	10	0.5	3	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<1		27	260 <1		770 <1		30 <10		36.2	1670
<1		23	228 <1		710 <1		26 <10		35.6	1810
	1	85	74	1	60 <1		9 <10		55.8	5110
	1	76	74	1	70 <1		9 <10		52.3	4360
<1		38	14 <1		20 <1		2 <10		15.8	624
<1		37	17 <1		20 <1		3 <10		15.8	542
<1		23	11 <1		50 <1		2 <10		5.7	275
<1		23	10 <1		60 <1		2 <10		5.5	283
<1		19	4 <1		10 <1	<1	<10		5.4	196
<1		20	5 <1		10 <1		1 <10		5.4	194
<1		20	5 <1		40 <1		1 <10		7.2	481
<1		21	5 <1		30 <1		1 <10		7.1	514
<1		24	7 <1		40 <1		1 <10		5	295
<1		20	6 <1		40 <1		1 <10		4.3	282
	102 <1		23	23 <1		30 <1		3 <10		2.2
	101 <1		17	12 <1		20 <1		2 <10	<0.5	
	222 <1		28	21 <1		190 <1		3 <10		17.6
	210 <1		27	18 <1		150 <1		2 <10		16.2
	71 <1		22	68 <1		730 <1		7 <10		36.2
	76 <1		21	74 <1		680 <1		8 <10		37.2
	53 <1		16	73 <1		830 <1		8 <10		25.5
	49 <1		17	79 <1		870 <1		8 <10		25.5
<1		37	40 <1		30 <1		6 <10		33.8	687
<1		38	43 <1		30 <1		7 <10		34.2	724
<1		62	14 <1		50 <1		2 <10		16.8	1530
	1	63	13 <1		50 <1		2 <10		16.9	1550
<1		45	24	1	120 <1		4 <10		29.7	1730
<1		36	37 <1		110 <1		5 <10		22.6	1250
<1		48	18 <1		20 <1		3 <10		15.9	1690
<1		47	16 <1		30 <1		3 <10		15.9	1650

<1		25	7 <1		60 <1		1 <10	22.3	1790
<1		23	6 <1		60 <1		1 <10	21.9	1790
	1	60	33	2	60	1	5 <10	21.8	6780
	1	51	34	2	40 <1		5 <10	18.8	4880
<1		28	19 <1		140 <1		3 <10	25.6	2240
<1		29	20 <1		100 <1		3 <10	24.9	2300
<1		56	124	3	250	4	13 <10	136	4100
<1		62	146	3	250	3	15 <10	146	4030
	2	53	47 <1	<10	<1		6 <10	32.9	697
	2	70	48 <1		10 <1		7 <10	40	986
<1		42	23 <1	<10	<1		4 <10	13	1040
<1		53	31 <1	<10	<1		5 <10	16.2	1460
	4	29	24 <1		500 <1		3 <10	4.6	613
	4	27	20 <1		390 <1		3 <10	4.4	584
<1		41	77 <1		360 <1		10 <10	27.3	754
<1		35	80 <1		320 <1		10 <10	22.7	699
	4	52	8	8	320	2	1 <10	31.4	14000
	4	46	9	6	240	2	1 <10	33.6	11000
<1		36	24	1	380 <1		3 <10	27.4	2860
<1		27	21 <1		320 <1		3 <10	22.6	2340

Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
1	5	1	1	10	1	1	10	0.5	3
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<1		34	15	4	120	1	2 <10	22	8680
<1		25	33	1	90 <1		5 <10	16.8	2070
<1		17	60 <1		480 <1		6 <10	33.8	597
	1	49	108 <1		340 <1		11 <10	123	1490
<1		45	24	1	120 <1		4 <10	29.7	1730
<1		33	13 <1		170 <1		2 <10	16.8	1860
<1		14	30 <1		820 <1		3 <10	19.5	644
<1		12	26 <1		1040 <1		3 <10	21.8	552
<1		21	5 <1		40 <1		1 <10	7.1	533
<1		20	5 <1		40 <1		1 <10	7.2	481

<1	32	25 <1	<10	<1	4 <10	14.7	1750
<1	34	27 <1	<10	<1	4 <10	14.1	1630

Sc MMI-M5	Sm MMI-M5	Sn MMI-M5	Sr MMI-M5	Ta MMI-M5	Tb MMI-M5	Te MMI-M5	Th MMI-M5	Ti MMI-M5	Tl MMI-M5
5	1	1	10	1	1	10	0.5	3	0.5
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
8	4 <1		510 <1	<1	<10		19.5	51 <0.5	
7	4 <1		480 <1	<1	<10		20.1 <3	<0.5	
8	5 <1		580 <1	<1	<10		20.6 <3	<0.5	
8	3 <1		550 <1	<1	<10		16.5 <3		0.6
5	4 <1		510 <1	<1	<10		19.8 <3	<0.5	
6	4 <1		490 <1	<1	<10		20	5 <0.5	
5	4 <1		530 <1	<1	<10		18.4 <3	<0.5	
6	3 <1		520 <1	<1	<10		18.8 <3	<0.5	

Sc MMI-M5	Sm MMI-M5	Sn MMI-M5	Sr MMI-M5	Ta MMI-M5	Tb MMI-M5	Te MMI-M5	Th MMI-M5	Ti MMI-M5	Tl MMI-M5
5	1	1	10	1	1	10	0.5	3	0.5
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5	3 <1		518 <1	<1	<10		16.2 <3	<0.5	

Sb MMI-M5	Sc MMI-M5	Sm MMI-M5	Sn MMI-M5	Sr MMI-M5	Ta MMI-M5	Tb MMI-M5	Te MMI-M5	Th MMI-M5	Ti MMI-M5
1	5	1	1	10	1	1	10	0.5	3
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<5	<1	<5	<1	<1	<10	<1	<1	<10	<3
<5	<1	<5	<1	<1	<10	<1	<1	<10	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3

Tl	U	W	Y	Yb	Zn	Zr		
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
0.5	1	1	5	1	20	5		
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
	0.7	22	2	493	24	30	40	
	0.7	22	2	437	22	40	42	
	0.6	12	2	189	17	30	82	
	0.6	12	2	180	15	30	74	
<0.5		10 <1		74	7	90	26	
	0.5	10 <1		76	7	80	24	
<0.5		3 <1		68	5	40	13	
<0.5		3 <1		65	5	60	12	
<0.5		5 <1		43	7	160	11	
<0.5		5 <1		51	7	160	12	
	0.5	3 <1		44	6	110	16	
<0.5		3 <1		42	5	90	15	
<0.5		3 <1		55	6	90	11	
<0.5		2 <1		50	5	90	10	
	184	0.6	5	2	111	9	60	6
	112 <0.5		1 <1		85	7	60 <5	
	233	0.5	5 <1		67	4	20	22
	217	0.8	5 <1		61	4	50	22
	184 <0.5		68 <1		173	11	40	46
	208	0.7	65 <1		166	11	50	47
	895 <0.5		12 <1		161	10	60	21
	753	0.7	14 <1		155	10	30	20
<0.5		15 <1		168	14 <20		33	
<0.5		15 <1		182	16 <20		33	
	0.7	8 <1		67	8	70	45	
	0.6	9 <1		62	7	50	46	
	0.5	13 <1		78	7	20	54	
	0.5	13 <1		88	7 <20		38	
<0.5		8 <1		90	8	50	32	
<0.5		8 <1		92	9	60	31	

<0.5		5 <1		26	4	160	33
<0.5		4 <1		22	3	150	32
	0.5	10	2	112	10	110	53
<0.5		9	1	113	10	80	42
<0.5		10 <1		55	6	50	30
<0.5		10 <1		58	7	50	29
<0.5		23	1	274	23	170	90
	0.6	27	1	326	28	160	92
<0.5		10 <1		142	11	40	37
	0.6	11 <1		161	14	30	46
	0.8	5 <1		109	9	100	22
	0.9	7 <1		122	10	90	29
	1	24	2	88	8	50	22
	1	24	1	80	8	50	22
	0.7	9 <1		213	13	20	24
	0.6	9 <1		228	14	20	20
	0.9	10	3	28	3	220	77
	0.8	11	3	30	4	180	80
	0.9	10 <1		56	5	130	66
	0.8	8 <1		47	4	130	54

Tl	U	W	Y	Yb	Zn	Zr	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
0.5	1	1	5	1	20	5	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<0.5		6	2	54	5	70	44
	0.8	5 <1		126	8	30	23
<0.5		7	1	110	8	120	25
	0.8	32	2	171	13	250	104
	0.5	13 <1		78	7	20	54
<0.5		10 <1		50	5 <20		39
<0.5		7 <1		62	5	180	16
<0.5		7 <1		55	4	150	13
	0.5	3 <1		41	5	120	16
	0.5	3 <1		44	6	110	16

Analytical Duplicates

ANALYTE METHOD DETECTION UNITS	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	MMI-M5 1 PPB	MMI-M5 1 PPM	MMI-M5 1 PPB	MMI-M5 10 PPB	MMI-M5 0.1 PPB	MMI-M5 10 PPB	MMI-M5 1 PPM	MMI-M5 10 PPB
HM-07-1	19	52	20	7.2	2540	10	170	<10
DUP-HM-07-1	16	49	20	8.4	2320	10	150	<10
HM-07-13	7	233	30	0.6	630	1	20	<10
DUP-HM-07-13	6	215	20	0.5	690	1	20	<10
HM-07-25	1	244	<10	0.2	160	<1	<10	<10
DUP-HM-07-25	1	251	<10	0.3	220	<1	<10	<10
HM-07-37	6	203	<10	<0.1	450	<1	10	<10
DUP-HM-07-37	6	198	<10	<0.1	410	<1	20	<10
HM-07-49	1	186	<10	<0.1	70	<1	<10	20
DUP-HM-07-49	1	188	<10	<0.1	80	<1	<10	20
HM-07-60 Dup	26	241	<10	<0.1	330	<1	<10	10
DUP-HM-07-60 Dup	26	242	<10	<0.1	300	<1	<10	10
HM-07-72	5	207	<10	<0.1	440	<1	<10	10
DUP-HM-07-72	5	208	<10	<0.1	410	<1	<10	10
HM-07-230	20	36	<10	0.1	120	<1	10	6
DUP-HM-07-230	18	31	<10	<0.1	100	<1	<10	6
HM-07-242	40	136	<10	0.1	900	<1	80	11
DUP-HM-07-242	36	137	<10	0.4	810	<1	70	12
HM-07-254	5	9	<10	0.3	3600	<1	220	2
DUP-HM-07-254	5	11	<10	0.3	3770	<1	180	2
HM-07-266	4	32	<10	<0.1	1070	<1	200	2
DUP-HM-07-266	5	33	<10	0.1	1370	<1	170	<1
HM-07-156	28	174	<10	0.5	360	<1	20	<10
DUP-HM-07-156	24	172	<10	0.5	390	<1	20	<10
HM-07-168	21	>300		20	0.3	640	<10	<10
DUP-HM-07-168	21	>300		20	0.3	700	<10	<10
HM-07-180	<1	168	20	0.1	1000		1	50
DUP-HM-07-180	<1	120	<10	0.3	840	<1		60
HM-07-191	38	239	<10	0.8	270	<1	<10	<10
DUP-HM-07-191	40	240	<10	0.9	270	<1	<10	<10

HM-07-203	4	>300	20	<0.1	1210	<1	<10	<10
DUP-HM-07-203	4	>300	20	0.1	1280	<1	<10	<10
HM-07-214	7	>300	20	<0.1	780	2	10	<10
DUP-HM-07-214	7	>300	10	<0.1	670	2	<10	<10
HM-07-226	6	256	10	0.1	580	<1	20	<10
DUP-HM-07-226	6	259	10	<0.1	540	<1	20	<10
HM-07-76	4	>300	30	0.2	750	5	70	10
DUP-HM-07-76	5	>300	30	<0.1	720	5	90	10
HM-07-88	9	233	<10	0.6	420	<1	10	<10
DUP-HM-07-88	12	>300	10	0.7	500	<1	20	<10
HM-07-99	6	>300	<10	0.2	270	<1	<10	10
DUP-HM-07-99	7	>300	<10	0.3	330	<1	<10	10
HM-07-111	7	86	20	1.4	560	<1	390	10
DUP-HM-07-111	9	81	20	1.4	400	<1	310	10
HM-07-122	9	188	<10	0.2	300	<1	160	<10
DUP-HM-07-122	6	160	<10	0.1	180	<1	160	<10
HM-07-134	4	250	100	<0.1	990	5	60	<10
DUP-HM-07-134	5	274	70	<0.1	810	4	50	<10
HM-07-146	7	223	20	0.4	770	2	200	<10
DUP-HM-07-146	6	182	20	0.3	610	2	170	<10

Field Duplicates

ANALYTE METHOD DETECTION UNITS	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	1	10	0.1	10	1	10	10
	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB
HM-07-240	2	270	20	<0.1	360	<1	10	4
HM-07-240-DUP	3	286	<10	0.4	370	<1	<10	3
HM-07-210	2	112	10	0.4	430	<1	200	<10
HM-07-210 Dup	7	142	10	0.6	880	2	150	<10
HM-07-180	<1	168	20	0.1	1000	1	50	<10
HM-07-180 Dup	<1	170	<10	0.1	650	<1	60	<10
HM-07-120	2	64	<10	<0.1	1300	<1	330	<10
HM-07-120 Dup	3	66	<10	0.1	1360	<1	430	<10
HM-07-60	27	243	<10	<0.1	300	<1	<10	10
HM-07-60 Dup	26	241	<10	<0.1	330	<1	<10	10

HM-07-90	14	284	<10		0.1	280	<1	<10	<10
HM-07-90 Dup	14	287	<10	<0.1		280	<1	<10	<10

Replicate Analyses of MMI Standard MMISRM14

ANALYTE METHOD DETECTION UNITS	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 10 PPB	Ca MMI-M5 1 PPM	Cd MMI-M5 10 PPB
MMISRM14	18	47	10	41.5	100	<1	250	<10
MMISRM14	18	44	10	43.1	90	<1	250	<10
MMISRM14	19	55	10	41.7	120	<1	270	9
MMISRM14	17	38	10	38.3	110	<1	230	8
MMISRM14	17	38	10	43.8	60	<1	230	<10
MMISRM14	17	39	10	43.4	70	<1	230	<10
MMISRM14	21	49	10	46.3	110	<1	280	<10
MMISRM14	21	52	10	45.2	60	<1	280	<10

Recommended Analyses of MMI Standard MMISRM14

ANALYTE METHOD DETECTION UNITS	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 10 PPB	Ca MMI-M5 1 PPM	Cd MMI-M5 10 PPB
MMISRM14	19	36	13	44.1	60	<1	273	8

Replicate Analyses of Analytical Blanks

ANALYTE METHOD DETECTION UNITS	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 10 PPB	Ca MMI-M5 1 PPM	Cd MMI-M5 10 PPB
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10
BLANK	<1	<1	<10	<0.1	<10	<1	<10	<10

Ce MMI-M5 PPB	Co MMI-M5 5 PPB	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 PPB	Er MMI-M5 1 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 0.5 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB
1450	28	<100	6980	118	39.8	70	37	255	1140
1260	23	<100	6450	104	36.2	61.6	36	225	985
578	94	300	740	42	20.3	18	223	68	253
604	86	300	690	41	19.2	18.5	198	67	263
133	17	<100	290	16	8.8	3.9	62	15	58
156	18	<100	300	17	8.9	4.6	58	17	66
80	38	<100	130	12	6.4	3.4	18	12	43
71	39	<100	130	12	6.2	3.1	21	11	39
25	24	<100	220	8	6.8	1.1	36	4	11
30	23	<100	230	10	7.8	1.5	32	6	12
35	91	<100	170	9	6	1.7	56	6	14
35	85	<100	160	8	5.6	1.5	60	6	15
45	51	<100	80	10	6.9	2.1	38	8	21
37	54	<100	80	9	6.3	1.7	41	7	17
193	25	<100	200	16	10.2	6.1	10	22	107
130	17	<100	130	11	7.6	3.6	6	13	77
205	52	<100	320	13	5.8	6	19	20	87
182	57	<100	280	12	5.5	5.1	20	18	79
686	33	<100	1660	28	12.9	14.6	24	63	370
723	28	<100	1520	29	13.5	15.3	24	68	383
545	50	<100	680	30	12.9	17.1	40	66	293
512	40	<100	780	33	13.6	17.8	28	71	303
288	13	<100	370	34	18.1	10.8	37	41	90
296	13	<100	350	37	19.4	11.6	37	44	95
97	78	200	460	15	8.4	4	204	14	48
100	72	200	420	14	8.1	3.8	199	13	49
232	44	200	1030	20	8.7	6.4	233	25	106
327	26	<100	760	23	9.3	9.7	200	37	138
122	65	<100	360	20	10.7	5.7	54	20	51
107	82	<100	390	20	11.2	5.2	48	17	45

104	123	100	420	7	3.9	2.1	91	6	36
97	108 <100		430	6	3.3	1.8	94	6	33
335	84	100	330	24	13	8.4	123	30	155
334	72	100	310	24	12.9	8.8	115	31	150
188	76	100	400	13	7.2	5	165	18	94
182	71	100	370	14	7.6	5.3	165	18	90
1470	211	200	390	56	27.4	28.3	100	99	585
1700	281	200	440	66	33.4	33.4	100	117	663
372	34 <100		450	30	14.8	12.6	66	44	134
385	46	200	600	34	17.6	13.1	90	45	143
176	149 <100		400	22	11.4	6.8	40	24	70
219	159	100	450	26	13.1	8.8	46	30	86
144	76 <100		8320	16	8.5	5.1	101	24	69
121	83 <100		7450	15	8.2	4.5	86	22	57
744	59 <100		450	47	20.2	19.7	42	73	231
765	44 <100		410	50	21.6	21	39	76	237
180	198	400	650	7	4.1	2.1	606	8	52
207	172	300	490	8	4.2	2.5	486	9	56
398	110	200	390	14	6.3	6.4	138	23	90
336	92	100	340	12	5.5	5.4	115	19	72

Ce	Co	Cr	Cu	Dy	Er	Eu	Fe	Gd	La
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
5	5	100	10	1	0.5	0.5	1	1	1
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB
158	38	100	280	12	6.2	4.2	178	15	80
306	44 <100		320	27	12.5	8.9	63	33	128
678	62 <100		180	24	10.4	13.3	70	50	351
1210	73	200	2260	43	17.6	23.3	71	87	615
232	44	200	1030	20	8.7	6.4	233	25	106
111	46 <100		830	12	6.2	3.8	225	14	50
307	35 <100		110	13	6.1	6.8	56	26	147
236	33 <100		110	11	5.1	5.8	51	23	116
35	94 <100		160	8	5.5	1.6	62	6	14
35	91 <100		170	9	6	1.7	56	6	14

Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
5	1	5	0.5	1	5	10	1	1	5	
PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<5		25	60	5.6	1360	38	220	<1	330	55
<5		24	58	5.5	1200	33	200	<1	297	50
	5	2	9	13.4	380	127	170	<1	93	53
	5	2	9	11.9	390	116	170	<1	95	51
<5	<1	<5		3.2	68	55	170	<1	17	21
<5	<1	<5		2.9	81	70	170	<1	20	19
<5		1	<5	1	53	116	200	<1	13	101
<5		1	<5	1	48	122	230	<1	11	101
<5	<1	<5		0.9	14	39	240	<1	3	84
<5	<1	<5		0.8	19	39	270	<1	4	87
<5		2	<5	1.9	22	131	290	<1	5	149
<5		1	<5	2.1	21	124	300	<1	5	143
<5		1	<5	1	29	207	270	<1	7	144
<5		1	<5	1	24	179	230	<1	6	144
<5		1	<5	1.1	124	59	110	<1	32	<1
<5	<1	<5	<0.5		74	45	100	<1	19	<1
<5		6	6	0.7	97	111	200	<1	23	<1
<5		5	6	0.8	87	123	180	<1	21	<1
	9	25	19	0.9	423	187	40	<1	105	<1
	7	22	17	1.1	469	151	40	<1	112	<1
<5		10	6	3.8	404	40	80	<1	97	<1
<5		8	5	3.3	429	32	50	<1	100	<1
<5		1	10	2.4	182	56	220	<1	38	149
<5		1	10	2.4	195	49	240	<1	40	144
	11	1	<5	7.2	55	242	390	<1	13	256
	12	1	<5	7.1	54	220	450	<1	13	270
<5		2	6	3.3	112	57	140	<1	28	57
<5		2	<5	2.5	177	36	110	<1	42	50
<5		1	<5	4	74	111	270	<1	17	128
<5		2	<5	3.9	65	133	270	<1	15	139

28	2 <5		6.4	33	121	220 <1	9	57
33	2 <5		6.2	29	118	190 <1	8	51
18	4	7	15.7	173	123	190 <1	44	74
13	3	7	11.7	178	113	190 <1	43	62
11	4 <5		6.8	97	192	70 <1	25	41
11	3 <5		6.8	101	182	60 <1	25	42
25	10	8	35.7	711	463	380 <1	179	30
33	14	8	33	839	602	440 <1	209	31
<5	1	5	2.1	216	81	230 <1	48	103
<5	2	6	2.9	222	111	280 <1	50	124
<5	1 <5		2.2	110	103	190 <1	25	147
<5	2 <5		3.1	140	108	190 <1	31	148
<5	28	8	0.7	110	361	20 <1	24	17
<5	22	9	0.6	92	339	20 <1	20	15
<5	7 <5		2	367	148	200 <1	85	50
<5	6 <5		1.8	388	143	140 <1	89	45
15	13	16	32.1	42	193	230 <1	11	100
13	9	14	26.7	49	157	270 <1	12	83
18	22	11	7.5	120	211	150 <1	29	159
14	19	10	6.3	103	178	120 <1	24	131

Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
5	1	5	0.5	1	5	10	1	1	5
PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<5	6	3	10	17.3	73	128	70 <1	20	65
<5		2	5	5.4	175	139	150 <1	44	56
<5		19 <5		3.2	371	138	50 <1	94	15
<5	7	13	6	10	656	209	210 <1	170	39
<5		2	6	3.3	112	57	140 <1	28	57
<5		3	6	5.2	56	65	110 <1	14	68
	8	42 <5		2.1	178	127	160 <1	43	33
	6	54 <5		2	148	144	100 <1	35	32
<5		1 <5		2.1	21	123	260 <1	5	150
<5		2 <5		1.9	22	131	290 <1	5	149

<5	2 <5	4.4	110	86	290 <1	26	173
<5	1 <5	4.2	123	76	270 <1	28	173

Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	Sb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	5	0.5	1	5	10	1	1	5
PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
	32	34 <0.5		16	271	120	41	3	265 <1
	33	34 <0.5		14	280	120	42	3	256 <1
	37	40 <0.5		21	344	140	47	5	301 <1
	34	37 <0.5		13	271	110	45	3	275 <1
	39	34 <0.5		13	300	120	44	2	277 <1
	39	33 <0.5		13	295	120	43	2	273 <1
	47	33 <0.5		13	282	110	46	2	283 <1
	48	33 <0.5		13	281	110	46	2	278 <1

Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	Sb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	5	0.5	1	5	10	1	1	5
PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
	36	37 <0.5		10	289	100	46	2	283 <1

Li	Mg	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	5	1	5	0.5	1	5	10	1	1
PPB	PPM	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<1
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<1
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5
<5	<1	<5	<0.5	<1	<5	<10	<1	<1	<5

Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
1	5	1	1	10	1	1	10	0.5	3	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<1		27	260 <1		770 <1		30 <10		36.2	1670
<1		23	228 <1		710 <1		26 <10		35.6	1810
	1	85	74	1	60 <1		9 <10		55.8	5110
	1	76	74	1	70 <1		9 <10		52.3	4360
<1		38	14 <1		20 <1		2 <10		15.8	624
<1		37	17 <1		20 <1		3 <10		15.8	542
<1		23	11 <1		50 <1		2 <10		5.7	275
<1		23	10 <1		60 <1		2 <10		5.5	283
<1		19	4 <1		10 <1	<1	<10		5.4	196
<1		20	5 <1		10 <1		1 <10		5.4	194
<1		20	5 <1		40 <1		1 <10		7.2	481
<1		21	5 <1		30 <1		1 <10		7.1	514
<1		24	7 <1		40 <1		1 <10		5	295
<1		20	6 <1		40 <1		1 <10		4.3	282
	102 <1		23	23 <1		30 <1		3 <10		2.2
	101 <1		17	12 <1		20 <1		2 <10	<0.5	
	222 <1		28	21 <1		190 <1		3 <10		17.6
	210 <1		27	18 <1		150 <1		2 <10		16.2
	71 <1		22	68 <1		730 <1		7 <10		36.2
	76 <1		21	74 <1		680 <1		8 <10		37.2
	53 <1		16	73 <1		830 <1		8 <10		25.5
	49 <1		17	79 <1		870 <1		8 <10		25.5
<1		37	40 <1		30 <1		6 <10		33.8	687
<1		38	43 <1		30 <1		7 <10		34.2	724
<1		62	14 <1		50 <1		2 <10		16.8	1530
	1	63	13 <1		50 <1		2 <10		16.9	1550
<1		45	24	1	120 <1		4 <10		29.7	1730
<1		36	37 <1		110 <1		5 <10		22.6	1250
<1		48	18 <1		20 <1		3 <10		15.9	1690
<1		47	16 <1		30 <1		3 <10		15.9	1650

<1		25	7 <1		60 <1		1 <10	22.3	1790
<1		23	6 <1		60 <1		1 <10	21.9	1790
	1	60	33	2	60	1	5 <10	21.8	6780
	1	51	34	2	40 <1		5 <10	18.8	4880
<1		28	19 <1		140 <1		3 <10	25.6	2240
<1		29	20 <1		100 <1		3 <10	24.9	2300
<1		56	124	3	250	4	13 <10	136	4100
<1		62	146	3	250	3	15 <10	146	4030
	2	53	47 <1	<10	<1		6 <10	32.9	697
	2	70	48 <1		10 <1		7 <10	40	986
<1		42	23 <1	<10	<1		4 <10	13	1040
<1		53	31 <1	<10	<1		5 <10	16.2	1460
	4	29	24 <1		500 <1		3 <10	4.6	613
	4	27	20 <1		390 <1		3 <10	4.4	584
<1		41	77 <1		360 <1		10 <10	27.3	754
<1		35	80 <1		320 <1		10 <10	22.7	699
	4	52	8	8	320	2	1 <10	31.4	14000
	4	46	9	6	240	2	1 <10	33.6	11000
<1		36	24	1	380 <1		3 <10	27.4	2860
<1		27	21 <1		320 <1		3 <10	22.6	2340

Sb	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
	1	5	1	1	10	1	1	10	0.5
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<1		34	15	4	120	1	2 <10	22	8680
<1		25	33	1	90 <1		5 <10	16.8	2070
<1		17	60 <1		480 <1		6 <10	33.8	597
	1	49	108 <1		340 <1		11 <10	123	1490
<1		45	24	1	120 <1		4 <10	29.7	1730
<1		33	13 <1		170 <1		2 <10	16.8	1860
<1		14	30 <1		820 <1		3 <10	19.5	644
<1		12	26 <1		1040 <1		3 <10	21.8	552
<1		21	5 <1		40 <1		1 <10	7.1	533
<1		20	5 <1		40 <1		1 <10	7.2	481

<1	32	25 <1	<10	<1	4 <10	14.7	1750
<1	34	27 <1	<10	<1	4 <10	14.1	1630

Sc MMI-M5	Sm MMI-M5	Sn MMI-M5	Sr MMI-M5	Ta MMI-M5	Tb MMI-M5	Te MMI-M5	Th MMI-M5	Ti MMI-M5	Tl MMI-M5
5	1	1	10	1	1	10	0.5	3	0.5
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
8	4 <1		510 <1	<1	<10		19.5	51 <0.5	
7	4 <1		480 <1	<1	<10		20.1 <3	<0.5	
8	5 <1		580 <1	<1	<10		20.6 <3	<0.5	
8	3 <1		550 <1	<1	<10		16.5 <3		0.6
5	4 <1		510 <1	<1	<10		19.8 <3	<0.5	
6	4 <1		490 <1	<1	<10		20	5 <0.5	
5	4 <1		530 <1	<1	<10		18.4 <3	<0.5	
6	3 <1		520 <1	<1	<10		18.8 <3	<0.5	

Sc MMI-M5	Sm MMI-M5	Sn MMI-M5	Sr MMI-M5	Ta MMI-M5	Tb MMI-M5	Te MMI-M5	Th MMI-M5	Ti MMI-M5	Tl MMI-M5
5	1	1	10	1	1	10	0.5	3	0.5
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
5	3 <1		518 <1	<1	<10		16.2 <3	<0.5	

Sb MMI-M5	Sc MMI-M5	Sm MMI-M5	Sn MMI-M5	Sr MMI-M5	Ta MMI-M5	Tb MMI-M5	Te MMI-M5	Th MMI-M5	Ti MMI-M5
1	5	1	1	10	1	1	10	0.5	3
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<5	<1	<5	<1	<1	<10	<1	<1	<10	<3
<5	<1	<5	<1	<1	<10	<1	<1	<10	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3
<1	<5	<1	<1	<10	<1	<1	<10	<0.5	<3

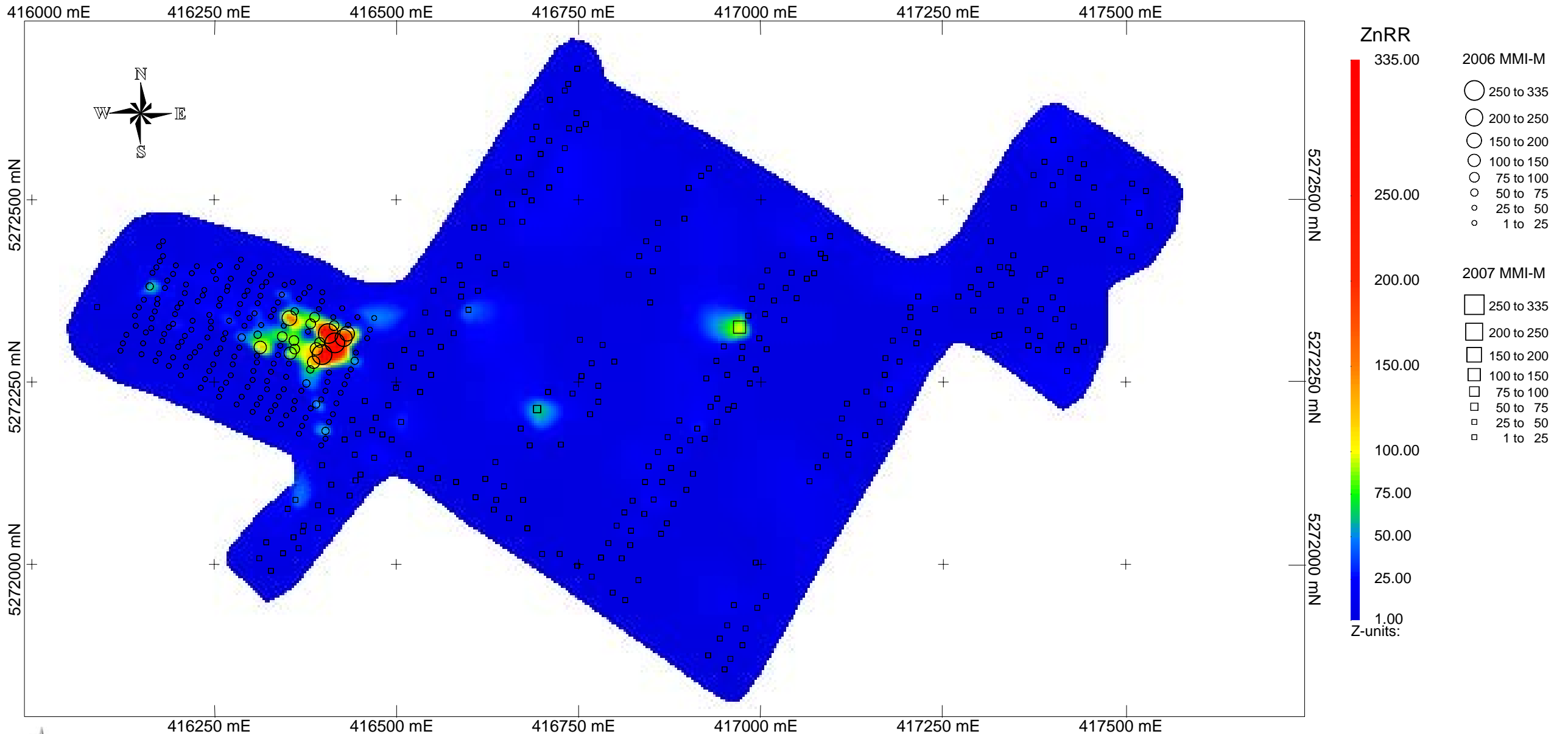
Tl	U	W	Y	Yb	Zn	Zr		
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
0.5	1	1	5	1	20	5		
PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	
	0.7	22	2	493	24	30	40	
	0.7	22	2	437	22	40	42	
	0.6	12	2	189	17	30	82	
	0.6	12	2	180	15	30	74	
<0.5		10 <1		74	7	90	26	
	0.5	10 <1		76	7	80	24	
<0.5		3 <1		68	5	40	13	
<0.5		3 <1		65	5	60	12	
<0.5		5 <1		43	7	160	11	
<0.5		5 <1		51	7	160	12	
	0.5	3 <1		44	6	110	16	
<0.5		3 <1		42	5	90	15	
<0.5		3 <1		55	6	90	11	
<0.5		2 <1		50	5	90	10	
	184	0.6	5	2	111	9	60	6
	112 <0.5		1 <1		85	7	60 <5	
	233	0.5	5 <1		67	4	20	22
	217	0.8	5 <1		61	4	50	22
	184 <0.5		68 <1		173	11	40	46
	208	0.7	65 <1		166	11	50	47
	895 <0.5		12 <1		161	10	60	21
	753	0.7	14 <1		155	10	30	20
<0.5		15 <1		168	14 <20		33	
<0.5		15 <1		182	16 <20		33	
	0.7	8 <1		67	8	70	45	
	0.6	9 <1		62	7	50	46	
	0.5	13 <1		78	7	20	54	
	0.5	13 <1		88	7 <20		38	
<0.5		8 <1		90	8	50	32	
<0.5		8 <1		92	9	60	31	

<0.5		5 <1		26	4	160	33
<0.5		4 <1		22	3	150	32
	0.5	10	2	112	10	110	53
<0.5		9	1	113	10	80	42
<0.5		10 <1		55	6	50	30
<0.5		10 <1		58	7	50	29
<0.5		23	1	274	23	170	90
	0.6	27	1	326	28	160	92
<0.5		10 <1		142	11	40	37
	0.6	11 <1		161	14	30	46
	0.8	5 <1		109	9	100	22
	0.9	7 <1		122	10	90	29
	1	24	2	88	8	50	22
	1	24	1	80	8	50	22
	0.7	9 <1		213	13	20	24
	0.6	9 <1		228	14	20	20
	0.9	10	3	28	3	220	77
	0.8	11	3	30	4	180	80
	0.9	10 <1		56	5	130	66
	0.8	8 <1		47	4	130	54

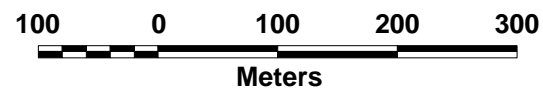
TI	U	W	Y	Yb	Zn	Zr	
MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	
0.5	1	1	5	1	20	5	
PPB	PPB	PPB	PPB	PPB	PPB	PPB	
<0.5		6	2	54	5	70	44
	0.8	5 <1		126	8	30	23
<0.5		7	1	110	8	120	25
	0.8	32	2	171	13	250	104
	0.5	13 <1		78	7	20	54
<0.5		10 <1		50	5 <20		39
<0.5		7 <1		62	5	180	16
<0.5		7 <1		55	4	150	13
	0.5	3 <1		41	5	120	16
	0.5	3 <1		44	6	110	16

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

ZnRR

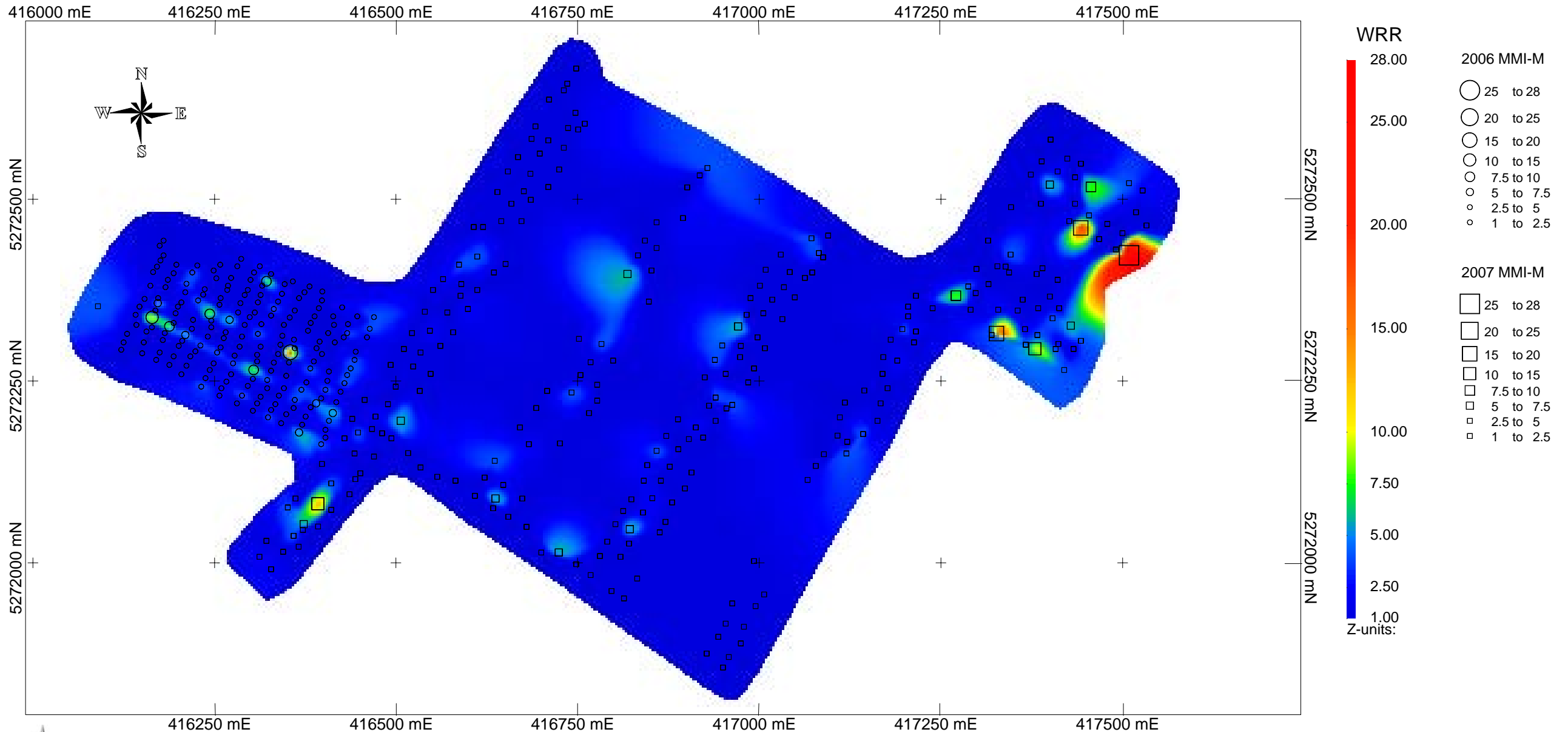


Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

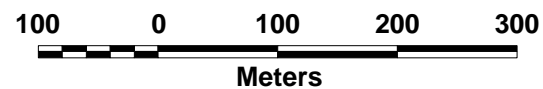


Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007 WRR



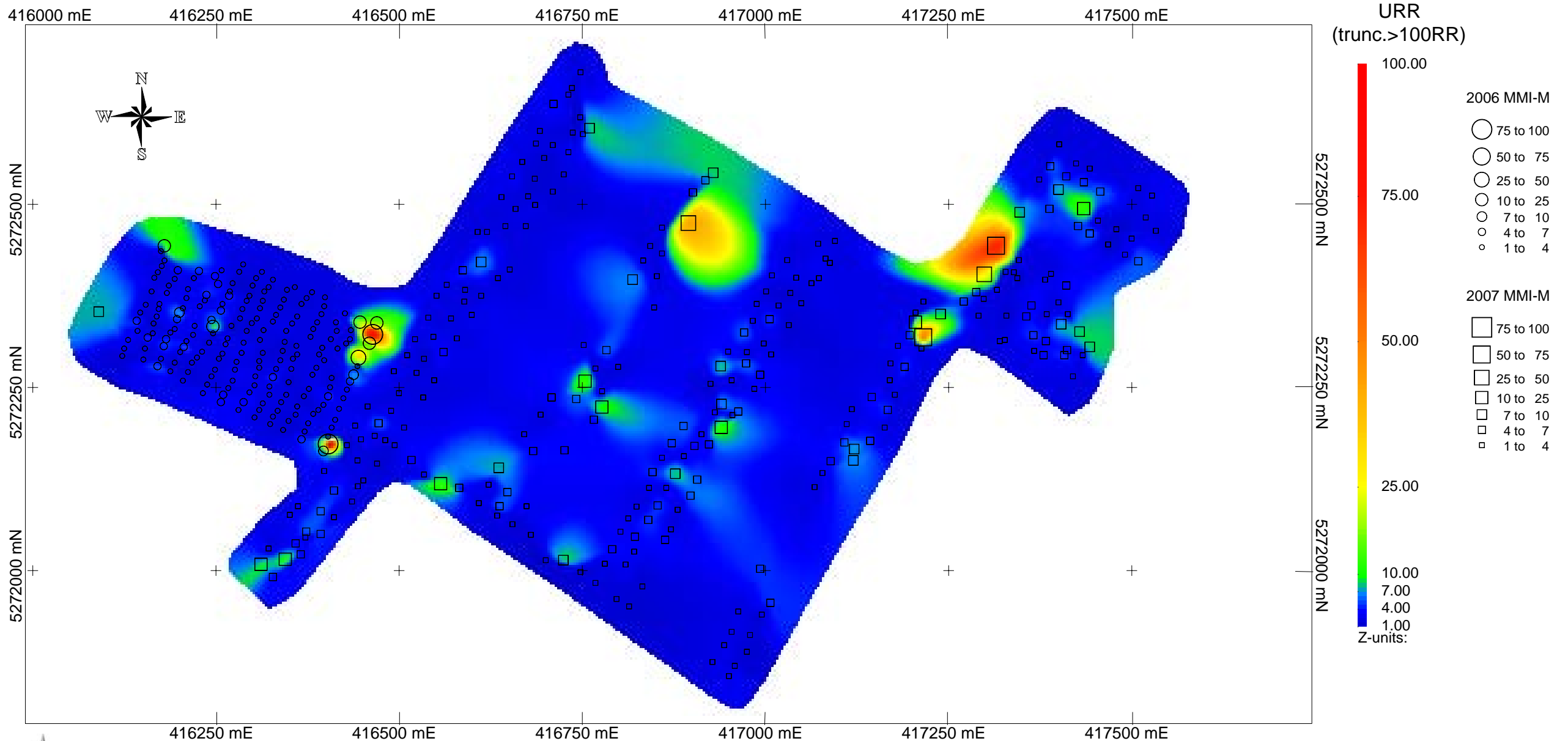
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



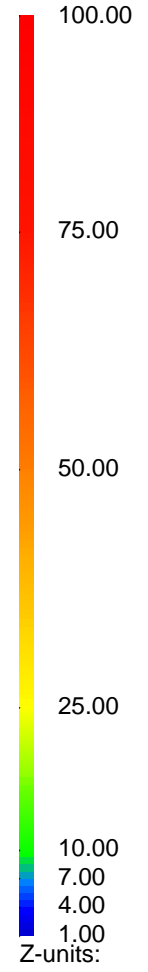
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

URR (truncated >100RR)



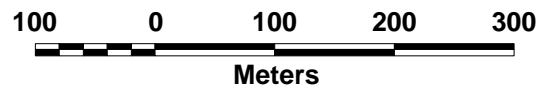
URR
(trunc.>100RR)



- 2006 MMI-M
- 75 to 100
 - 50 to 75
 - 25 to 50
 - 10 to 25
 - 7 to 10
 - 4 to 7
 - 1 to 4
- 2007 MMI-M
- 75 to 100
 - 50 to 75
 - 25 to 50
 - 10 to 25
 - 7 to 10
 - 4 to 7
 - 1 to 4

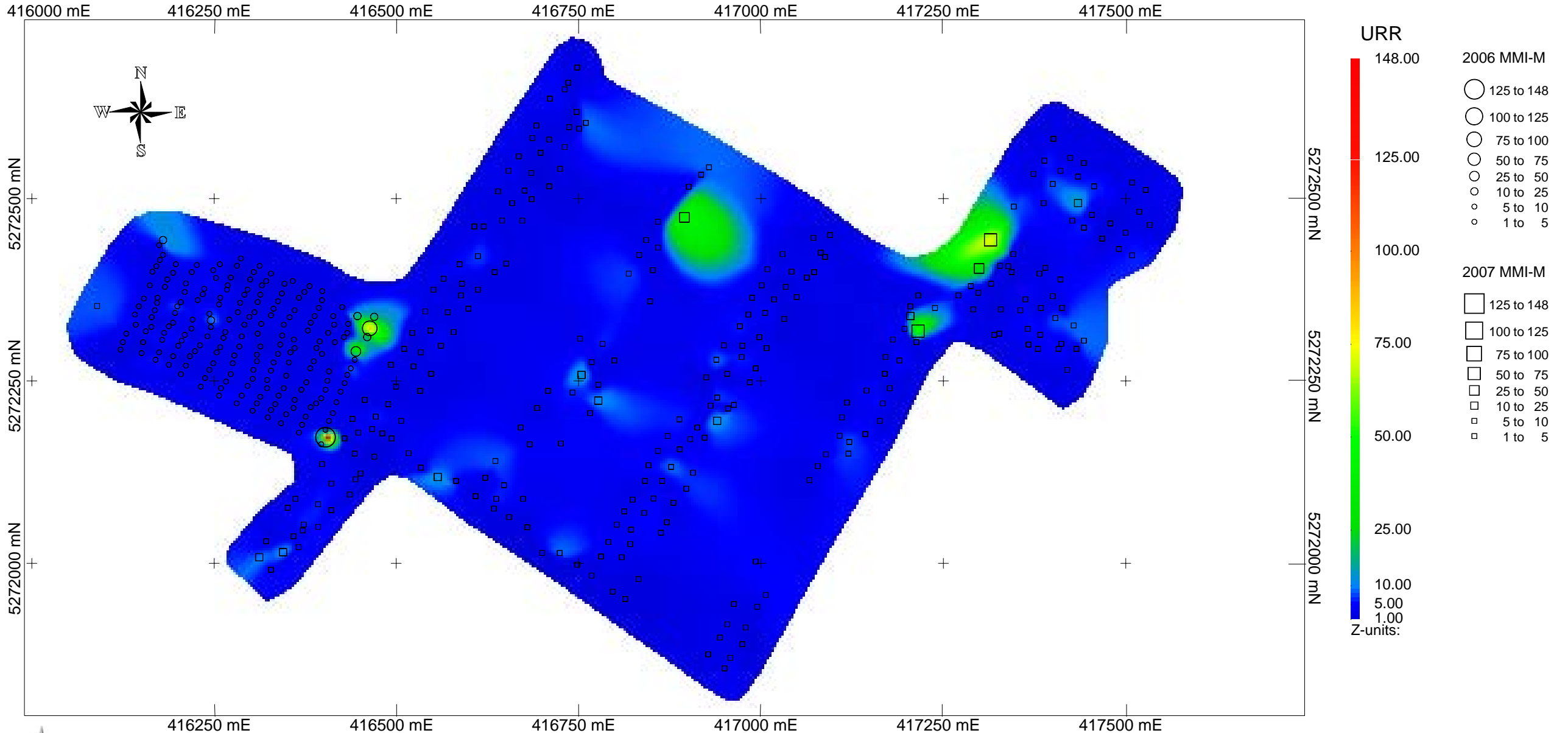


Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

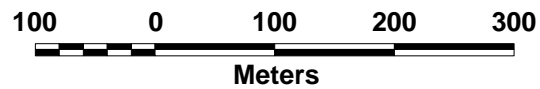


Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007 URR



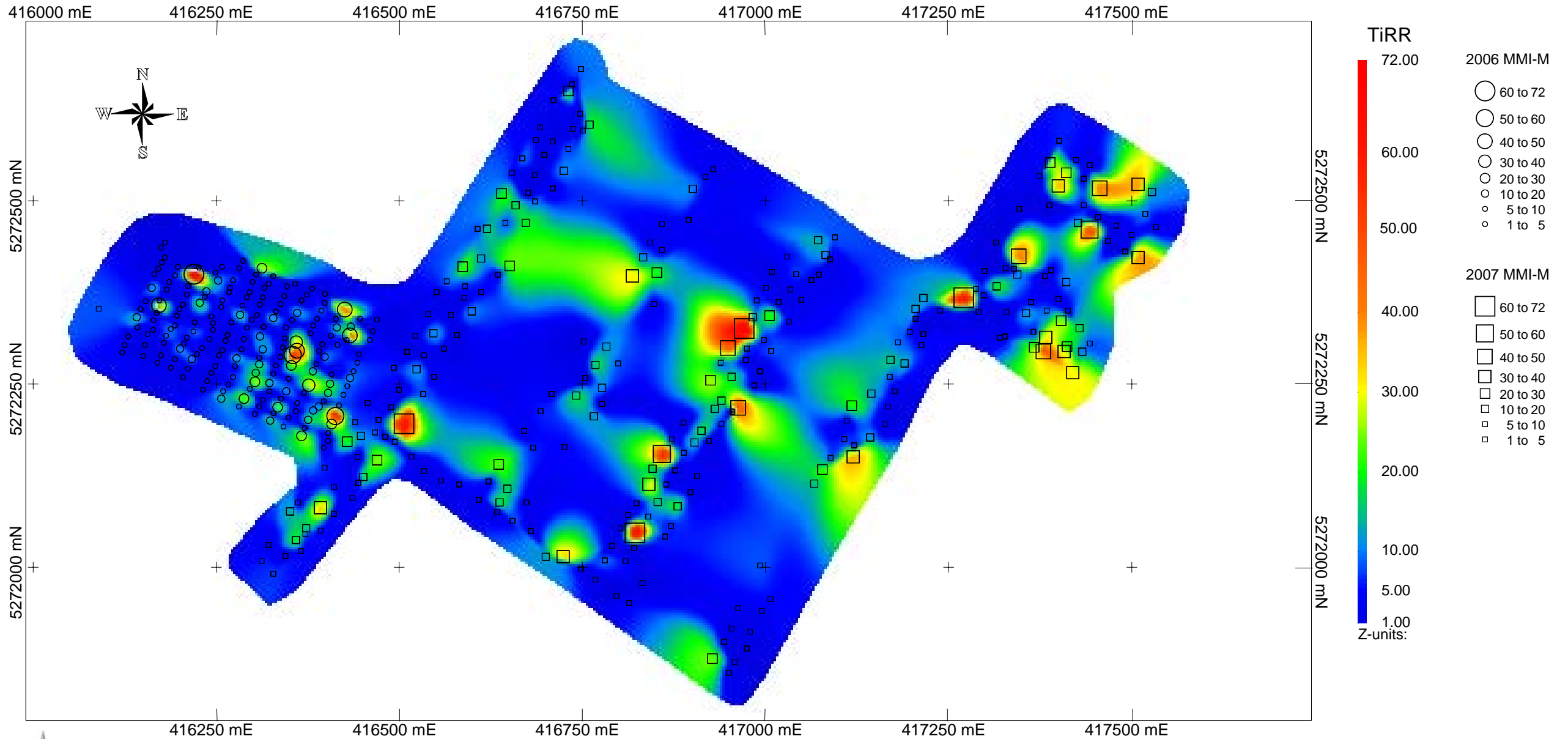
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

TiRR

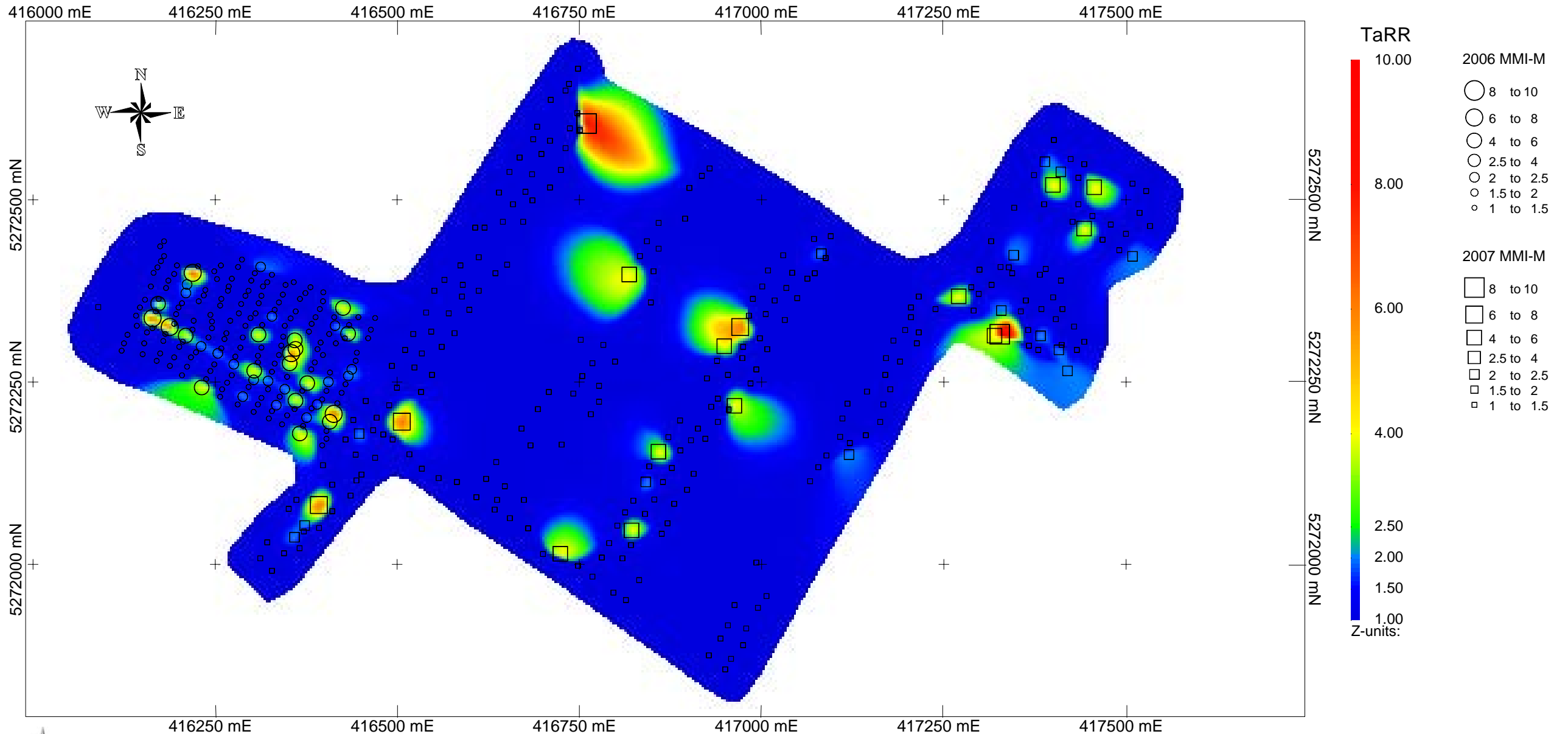


Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

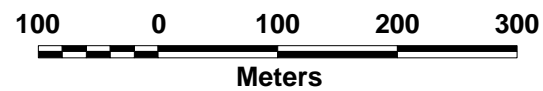
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

TaRR



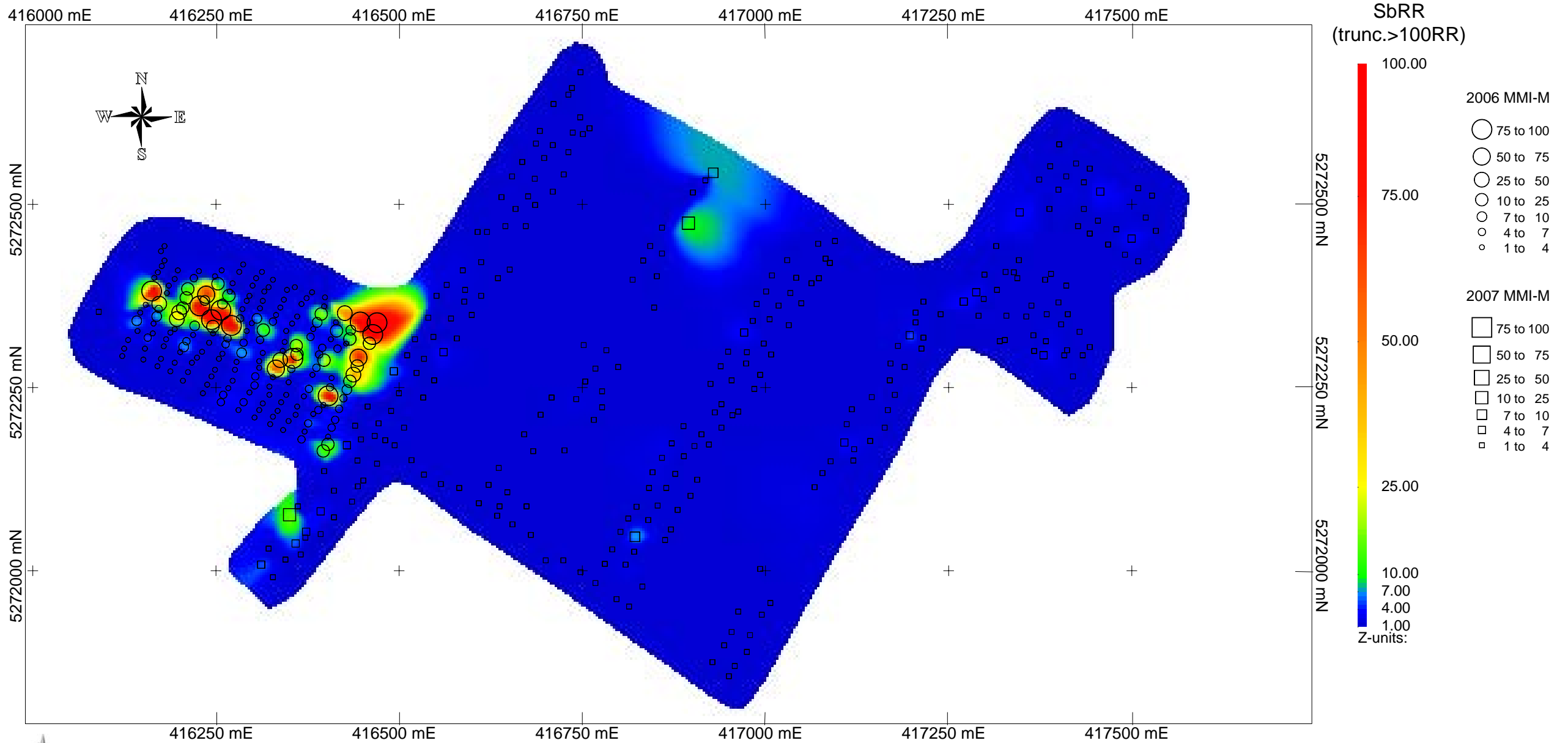
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



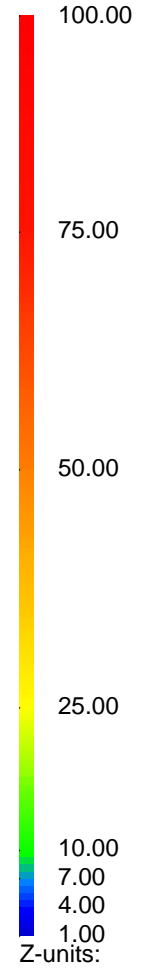
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

SbRR (truncated >100RR)



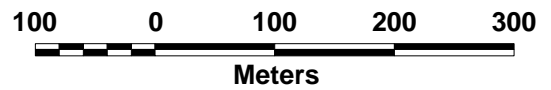
SbRR
(trunc.>100RR)



- 2006 MMI-M
- 75 to 100
 - 50 to 75
 - 25 to 50
 - 10 to 25
 - 7 to 10
 - 4 to 7
 - 1 to 4
- 2007 MMI-M
- 75 to 100
 - 50 to 75
 - 25 to 50
 - 10 to 25
 - 7 to 10
 - 4 to 7
 - 1 to 4



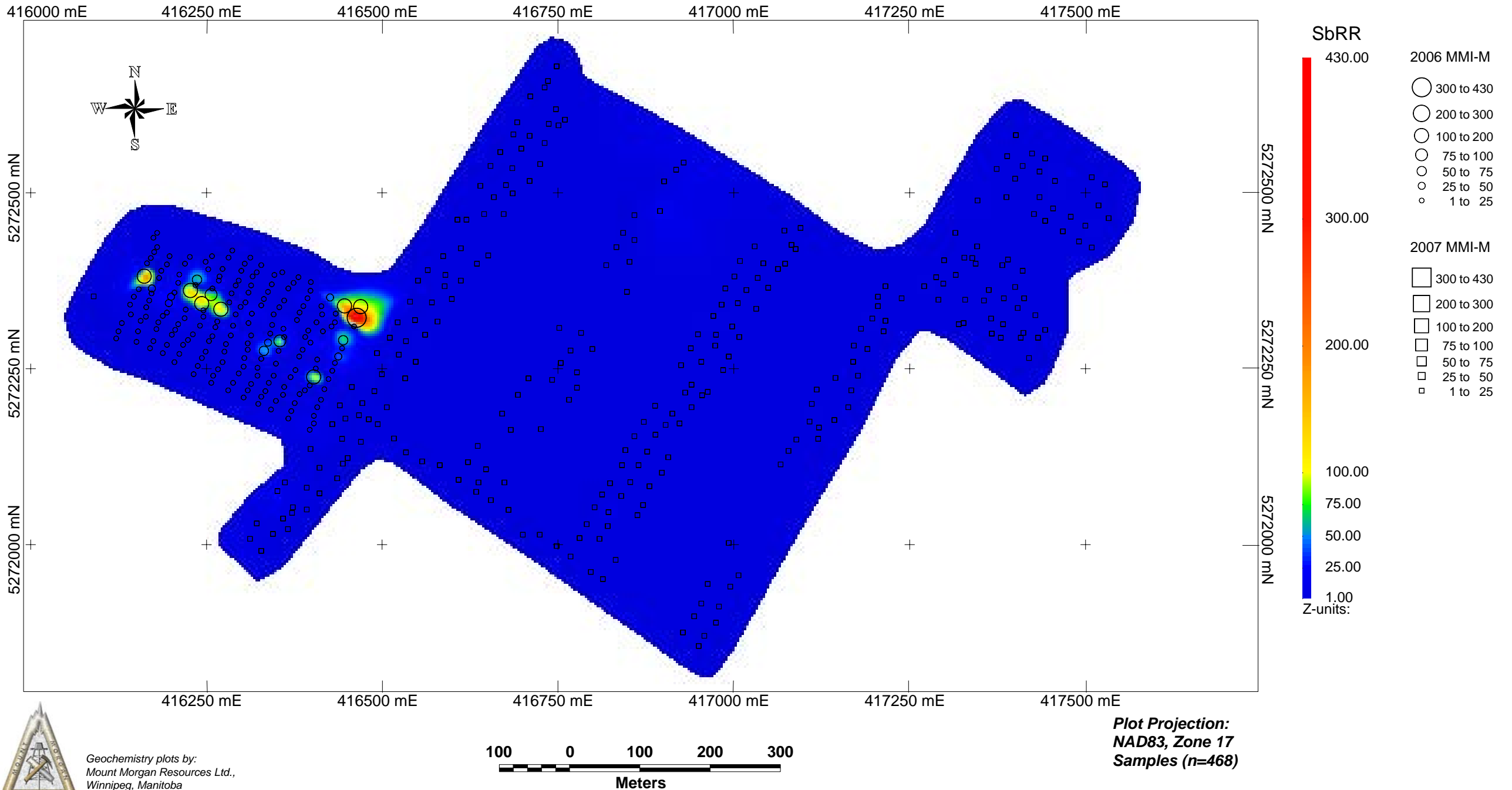
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



Plot Projection:
NAD83, Zone 17
Samples (n=468)

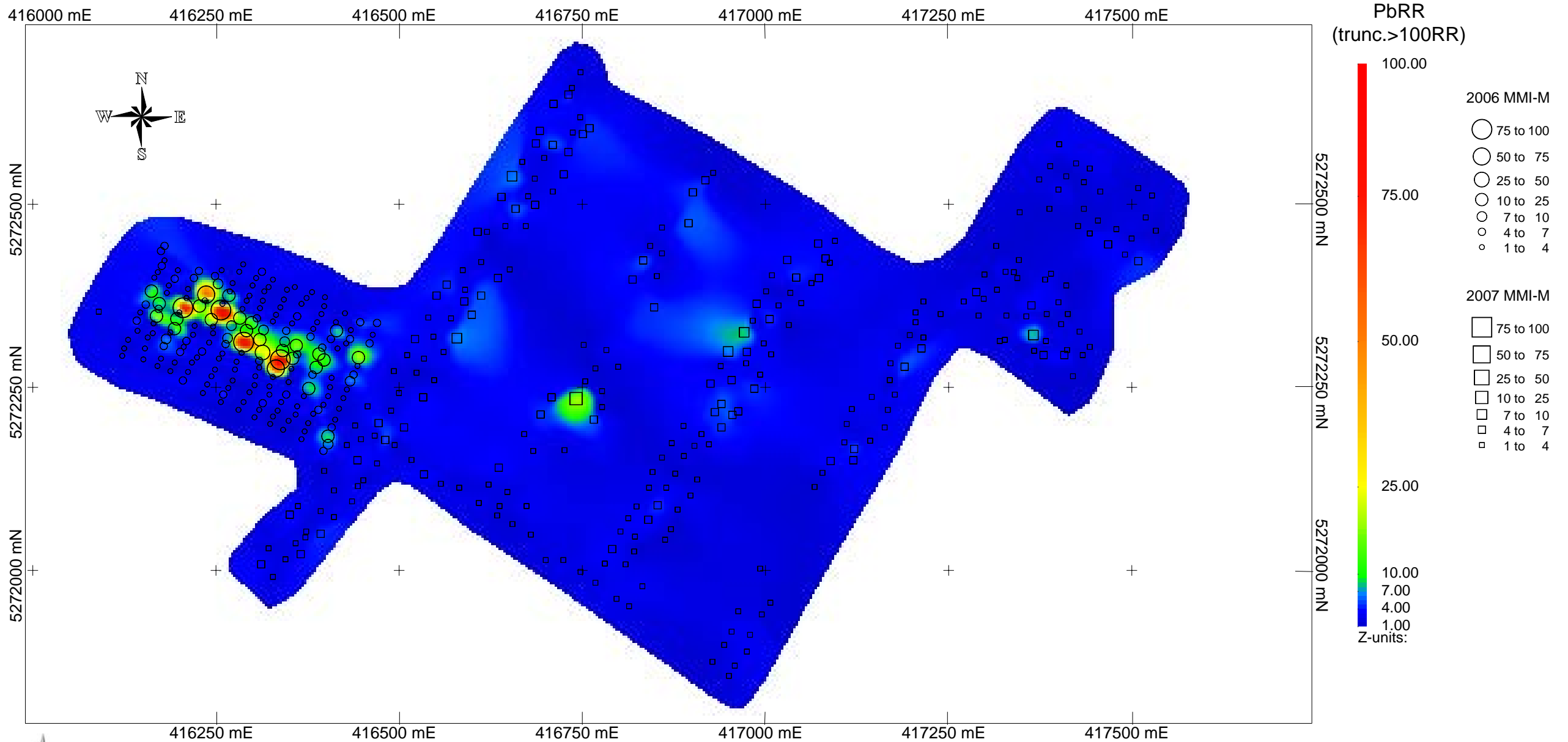
NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

SbRR

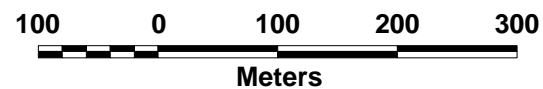


NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

PbRR (truncated >100RR)

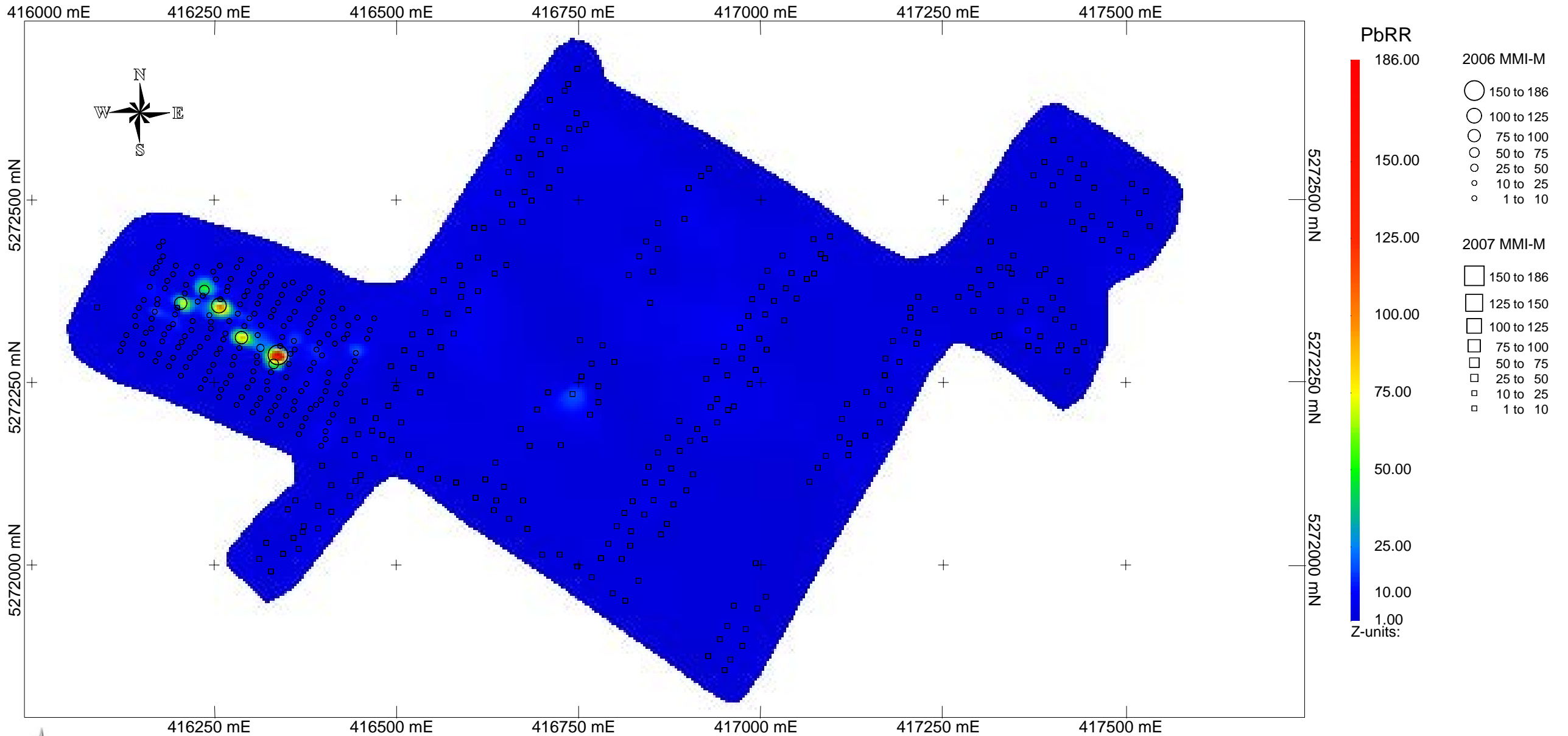


Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



Plot Projection:
NAD83, Zone 17
Samples (n=468)

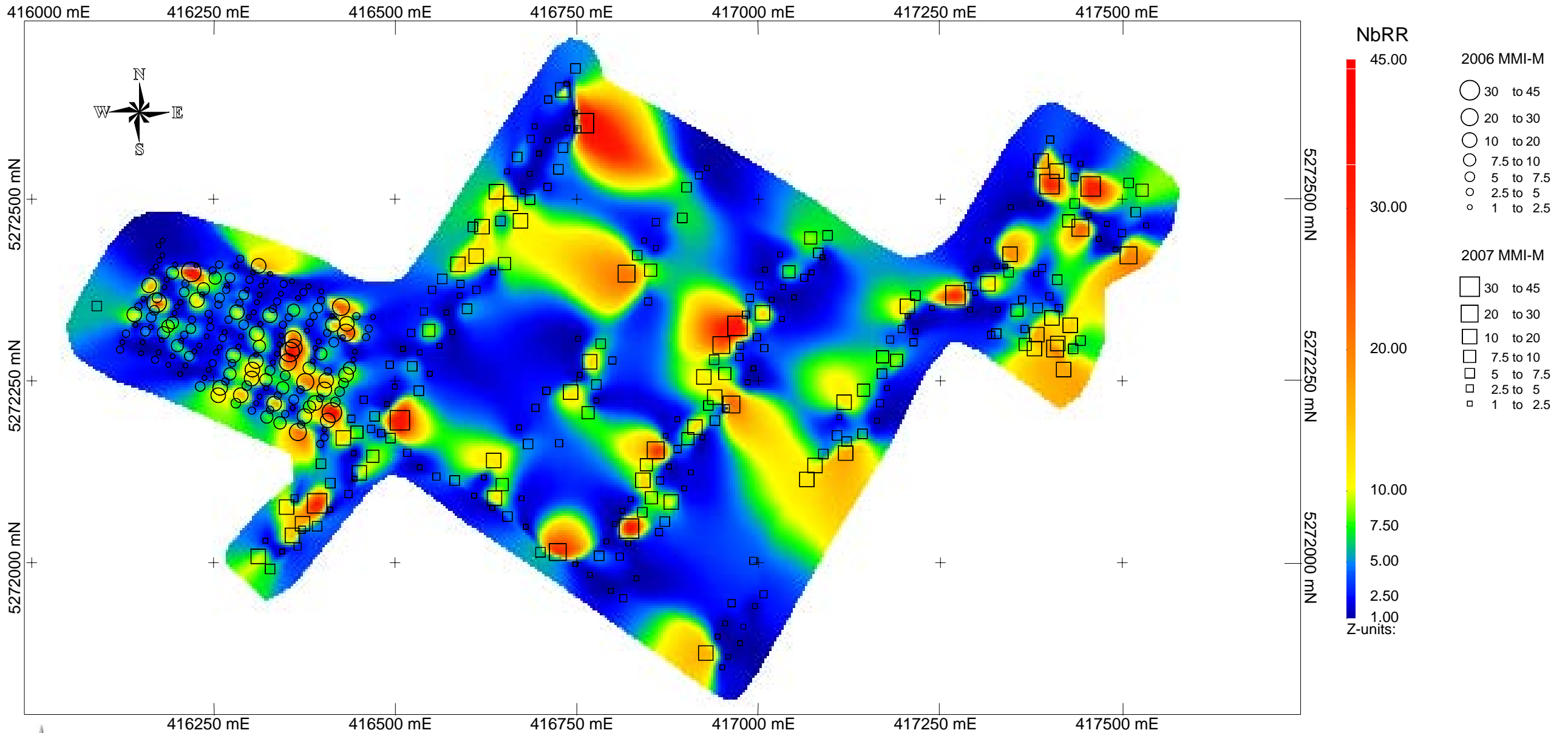
NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007 PbRR



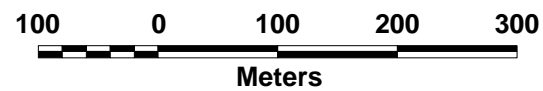
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

NbRR



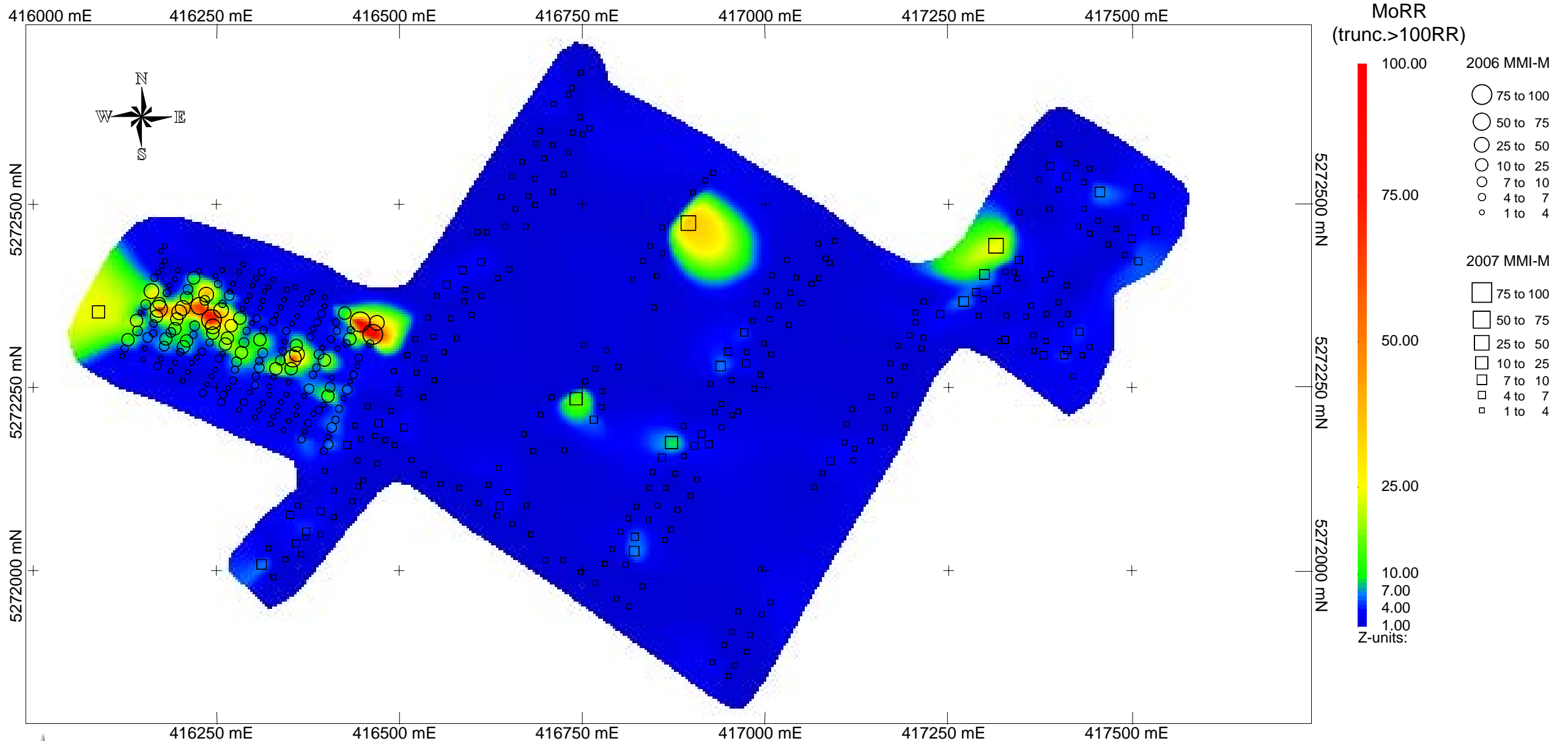
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



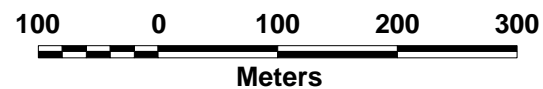
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

MoRR (truncated >100RR)



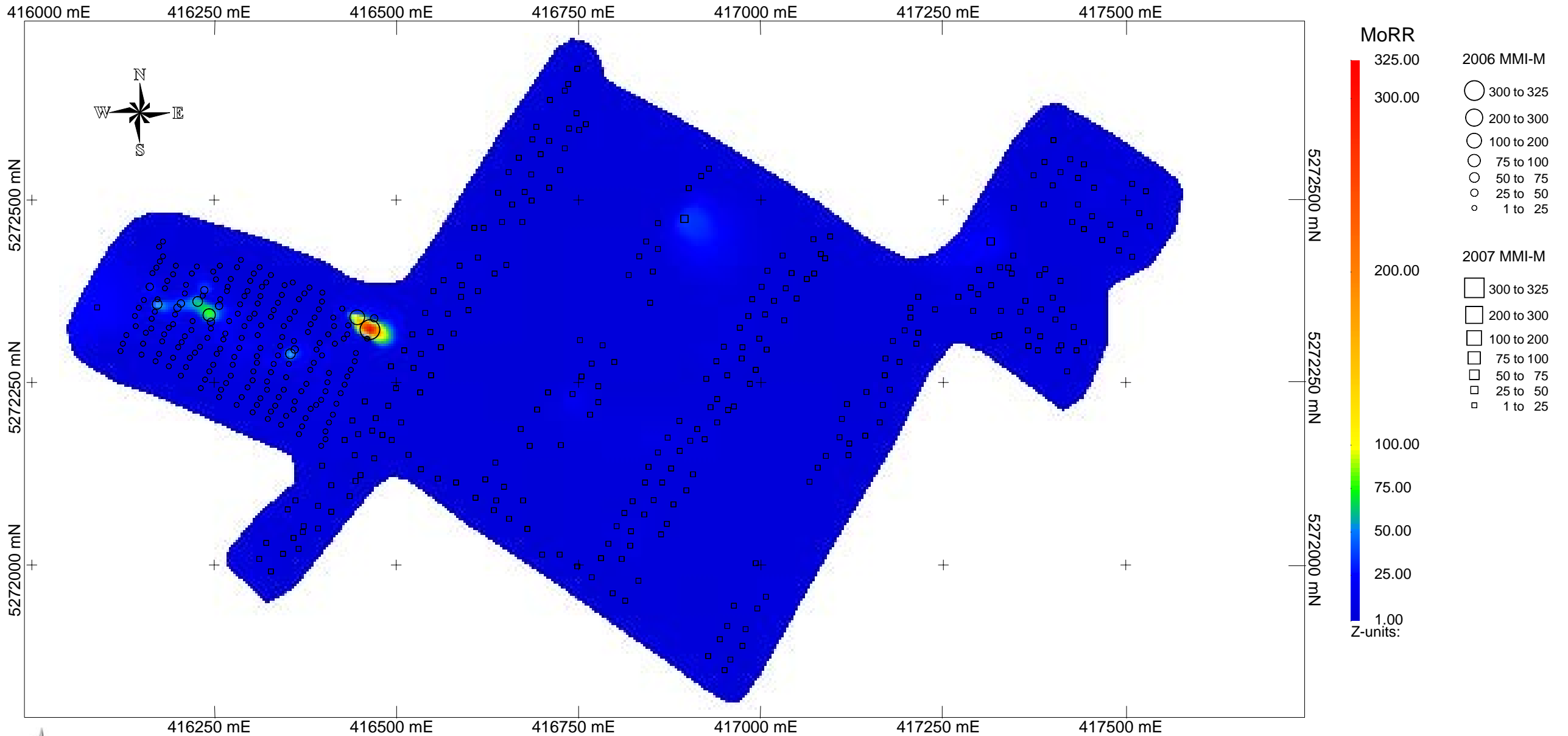
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

MoRR



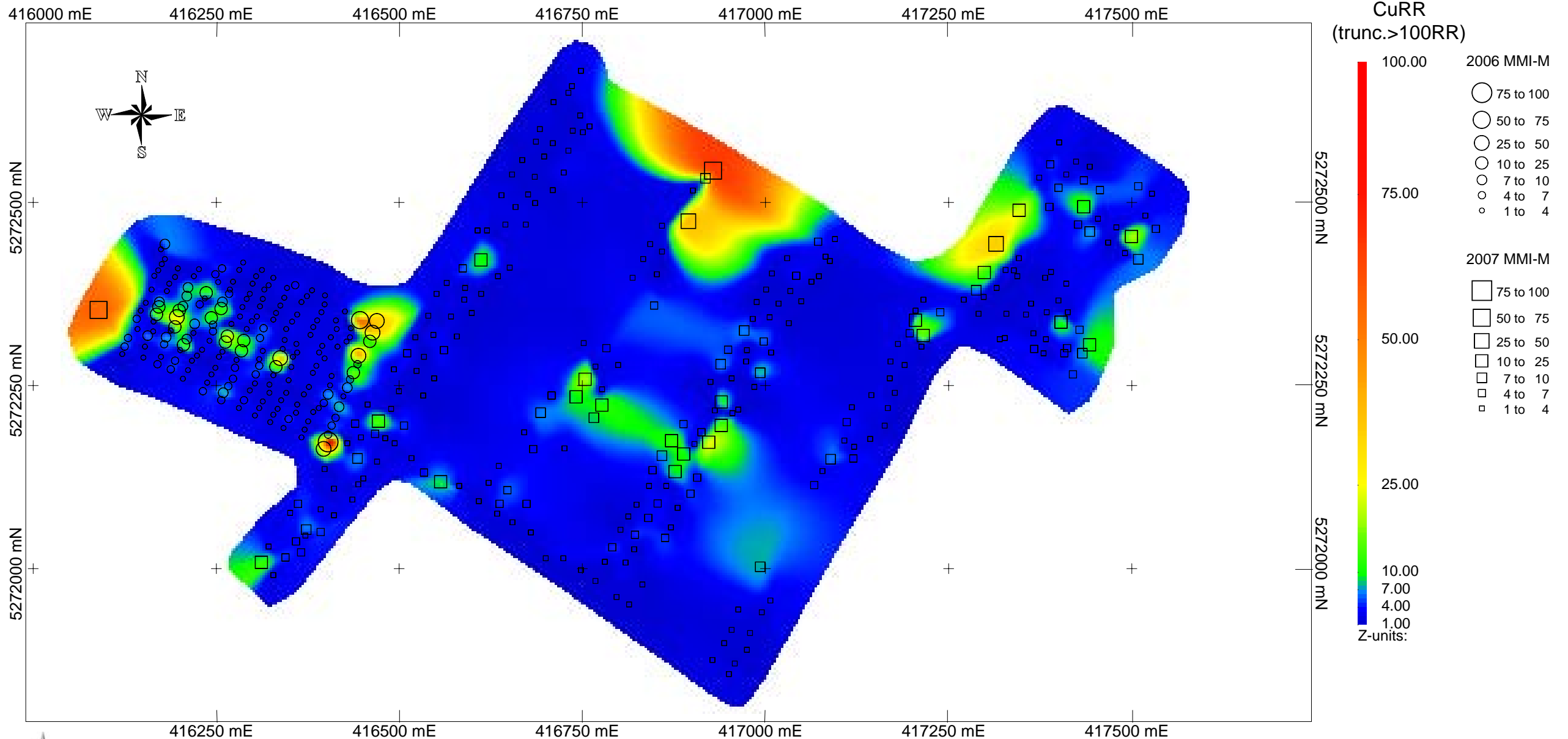
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

100 0 100 200 300
Meters

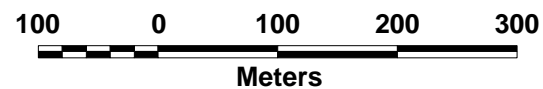
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

CuRR (truncated >100RR)



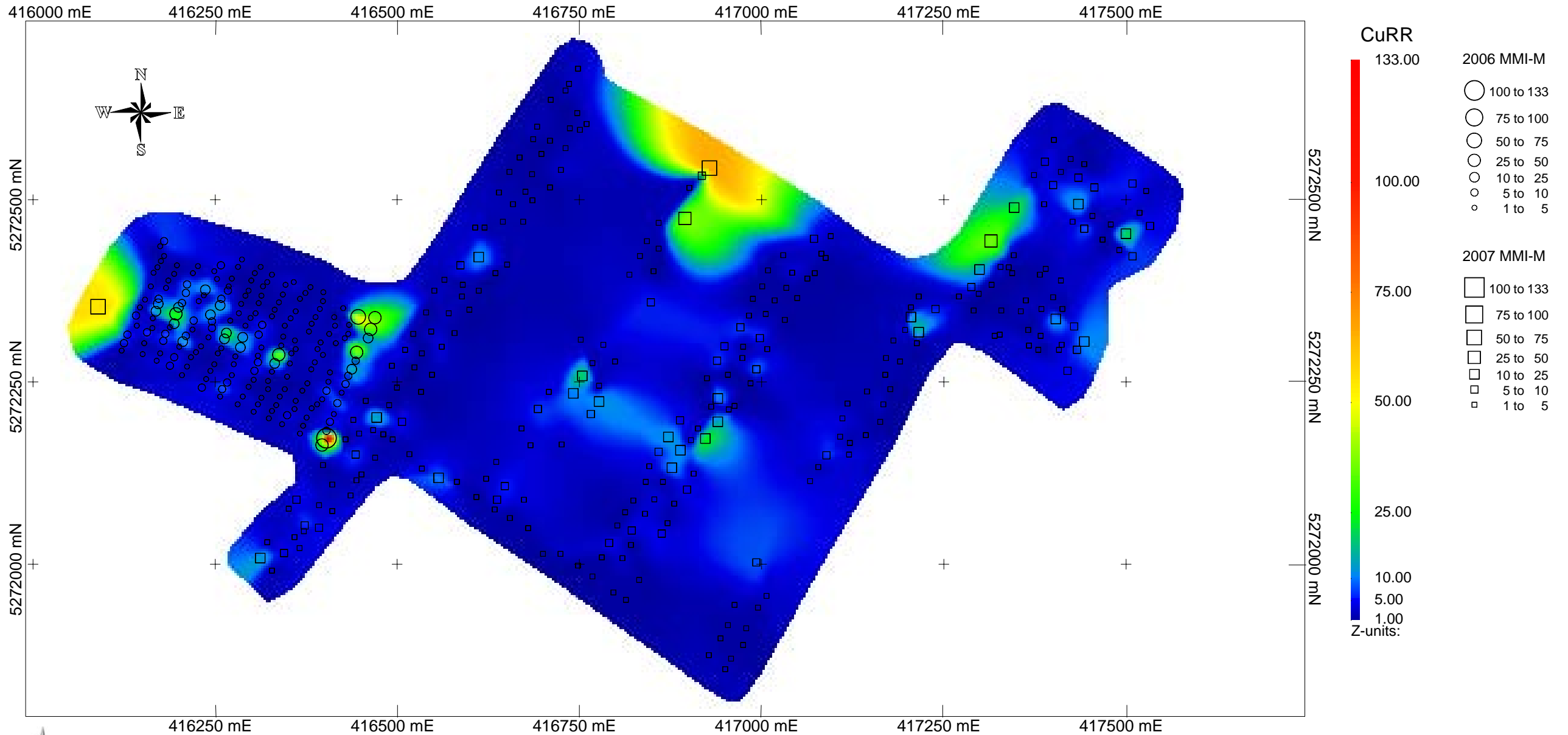
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



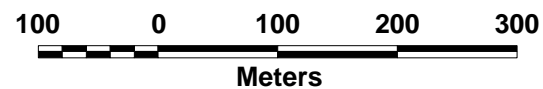
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

CuRR



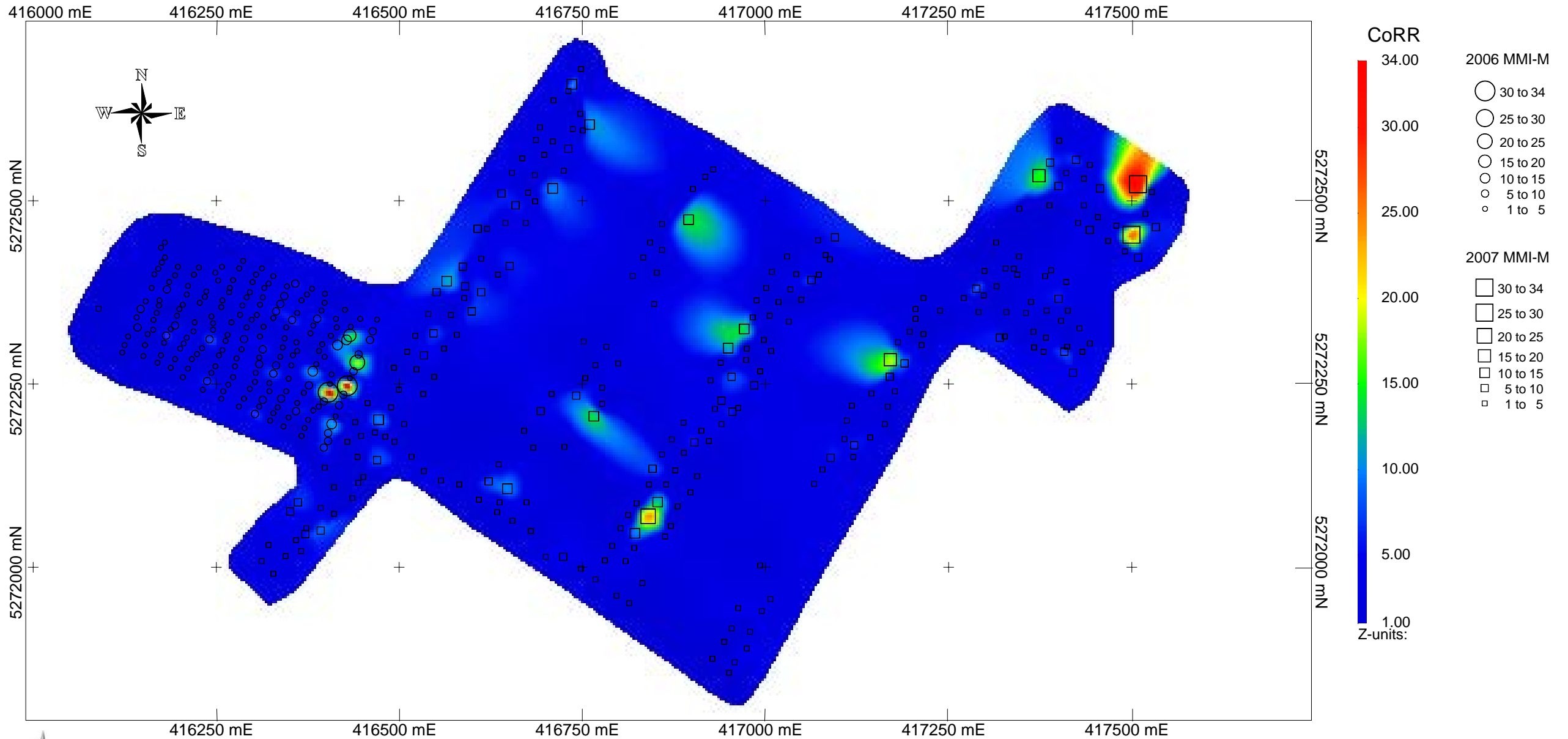
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



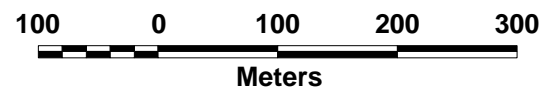
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

CoRR



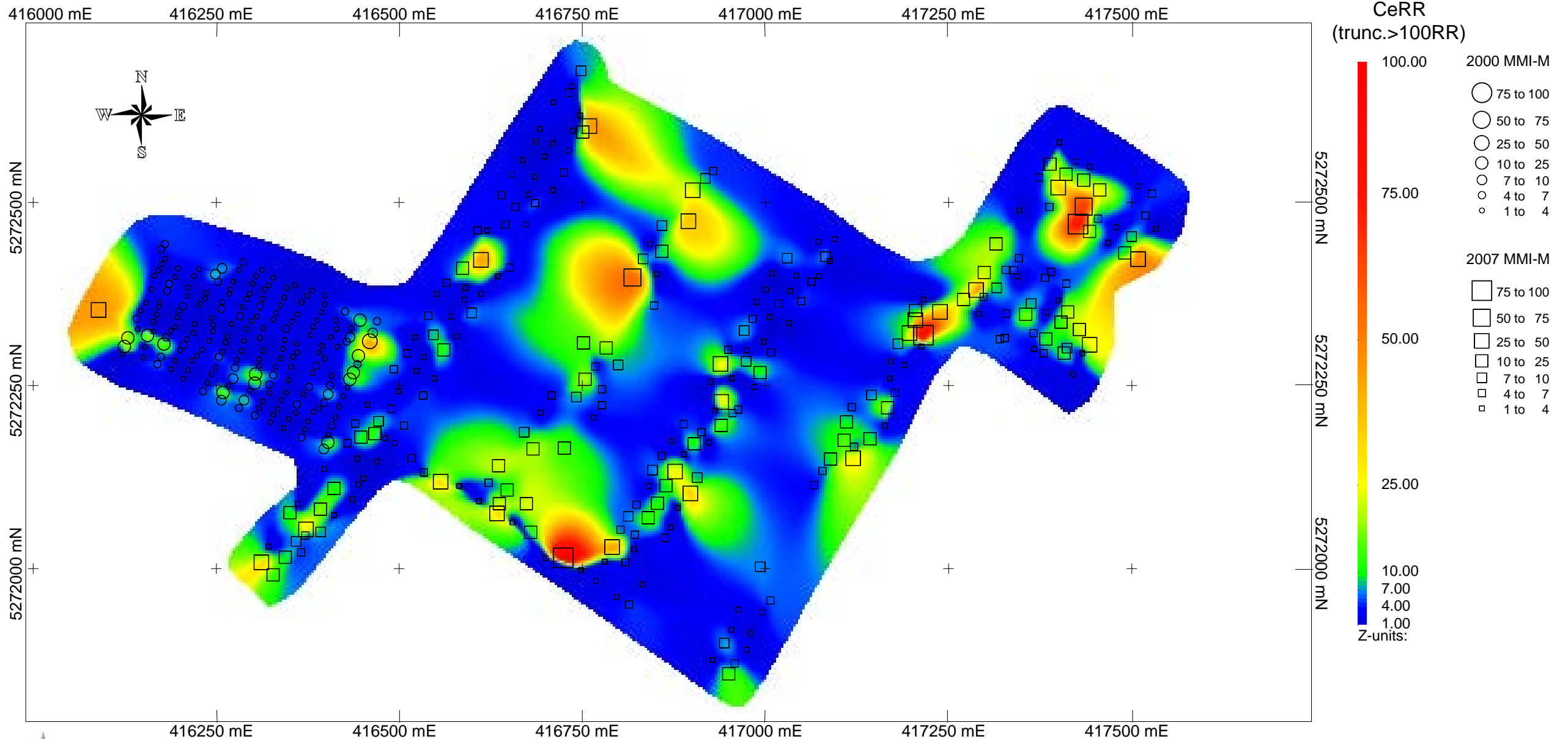
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



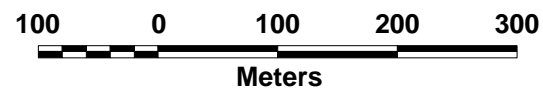
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

CeRR (truncated >100RR)



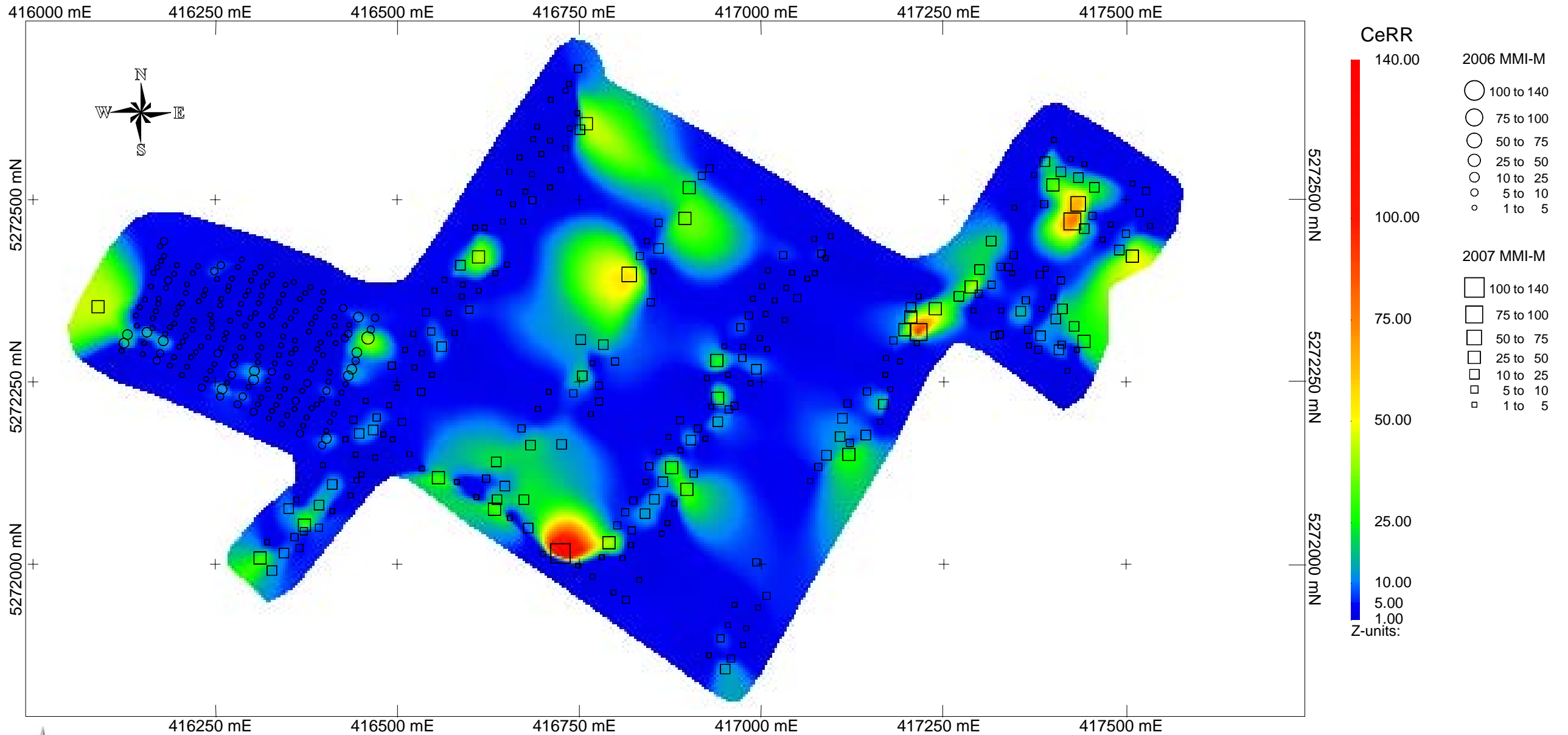
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



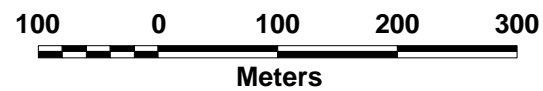
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

CeRR

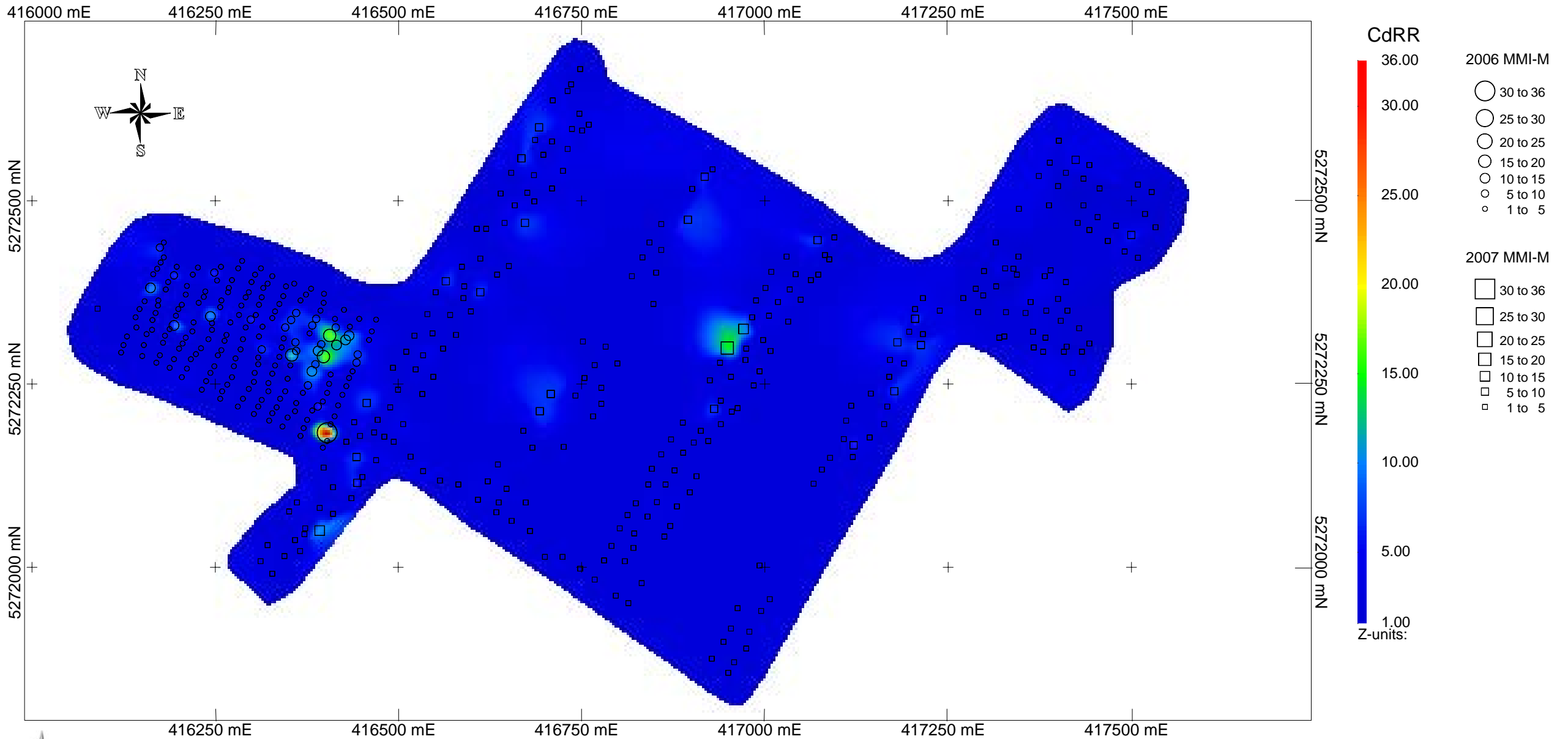


Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

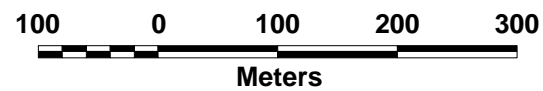


Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007 CdRR



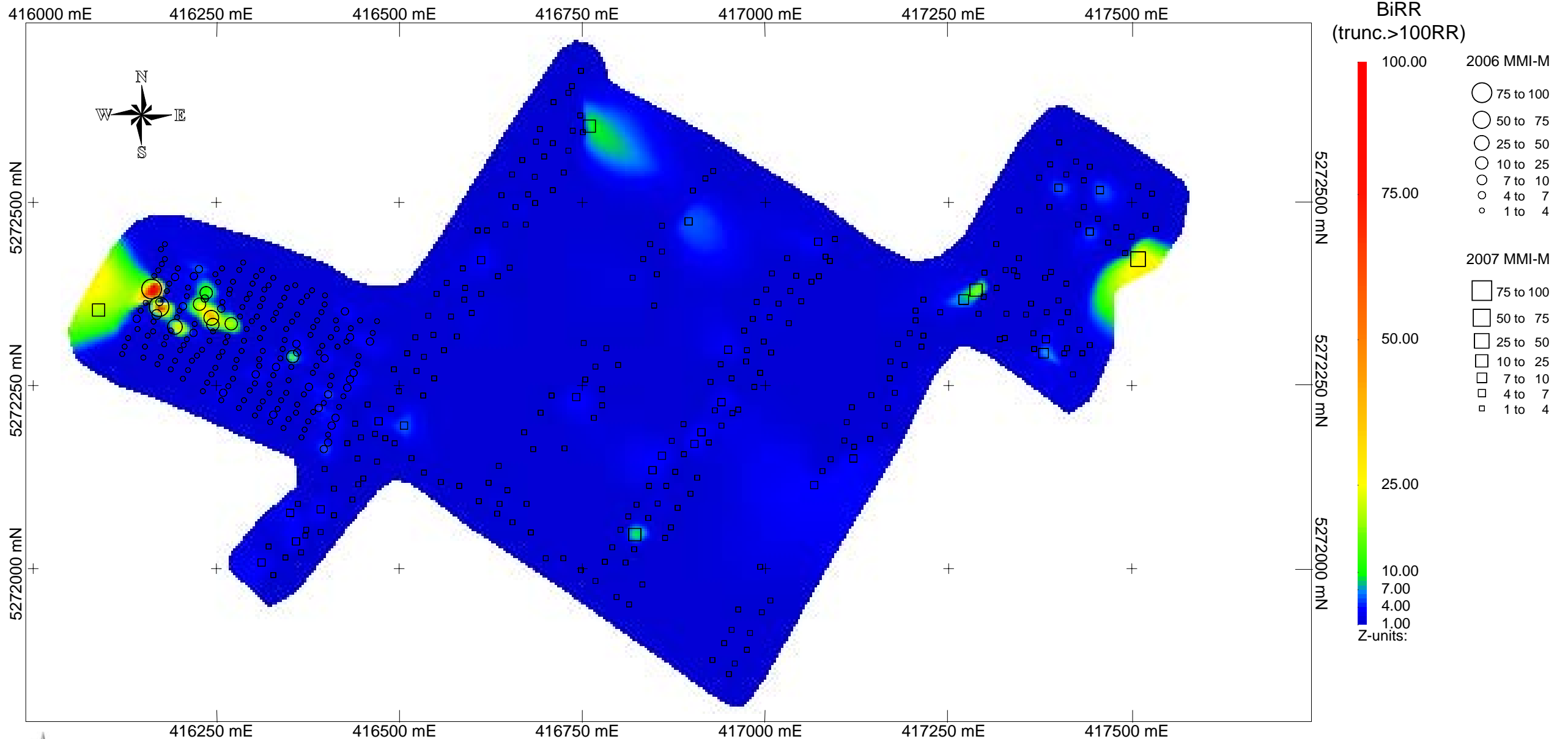
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



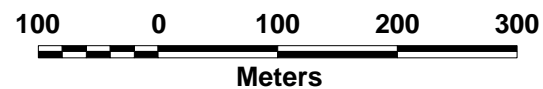
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

BiRR (truncated >100RR)



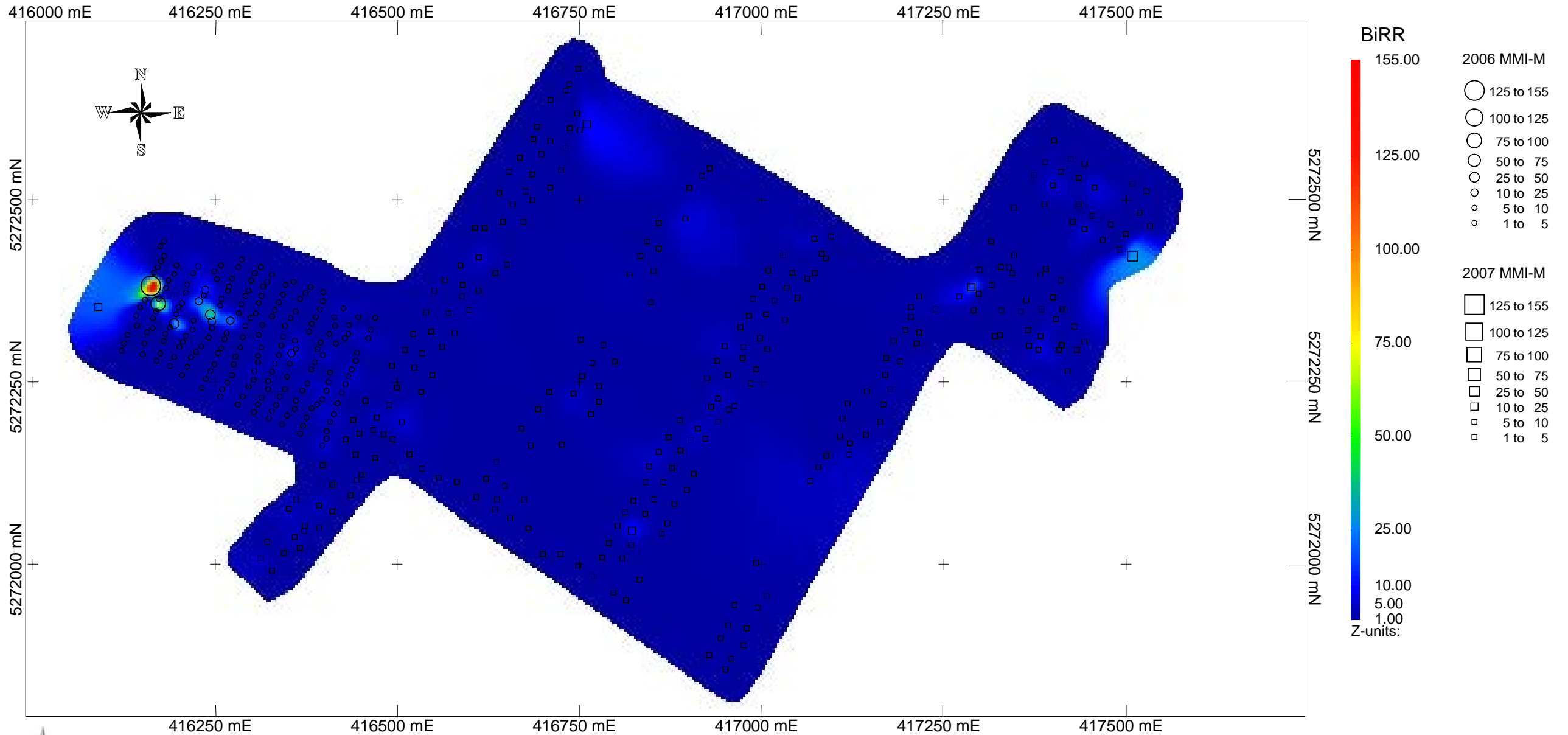
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



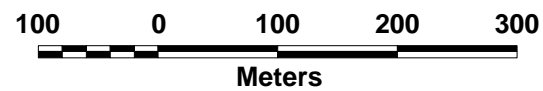
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

BiRR



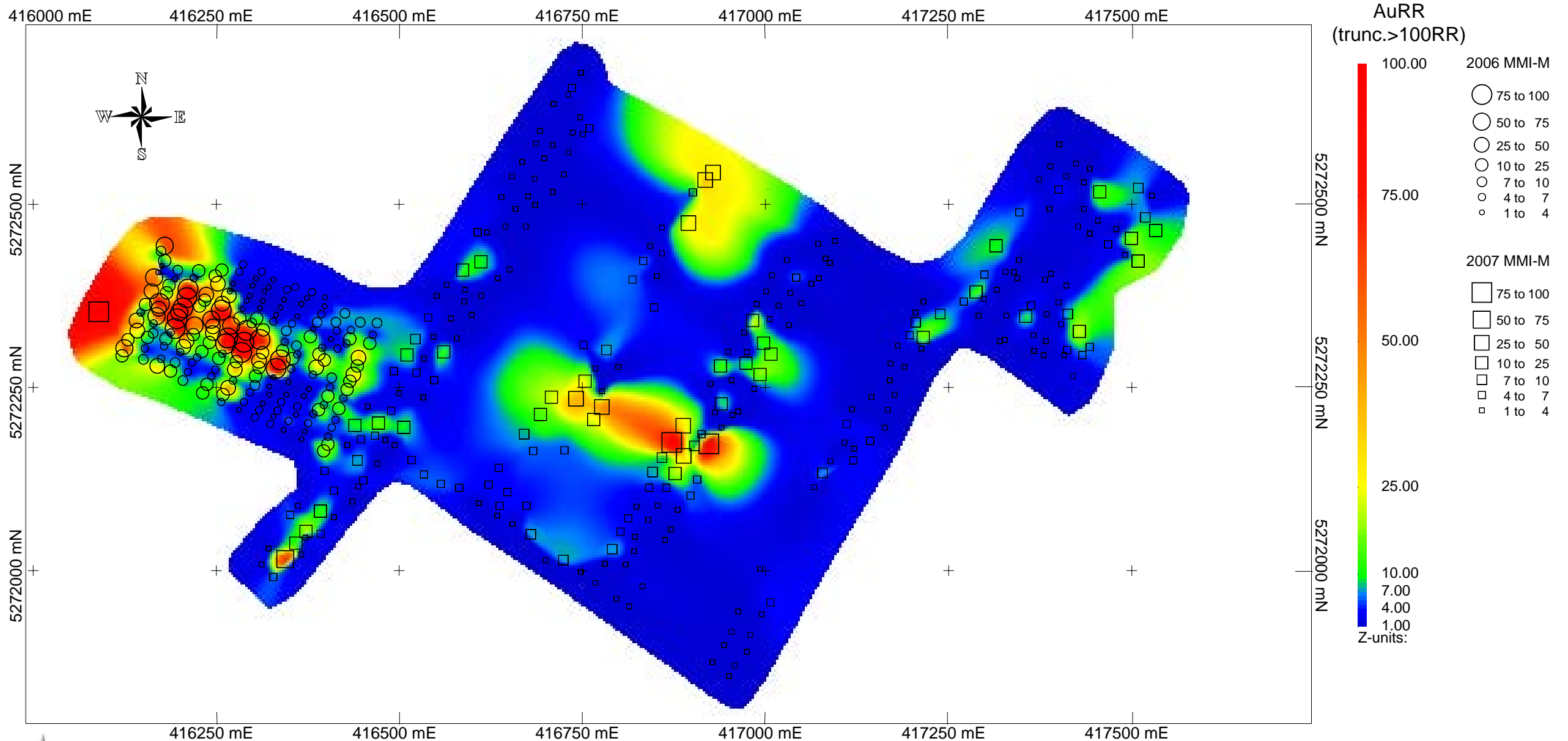
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



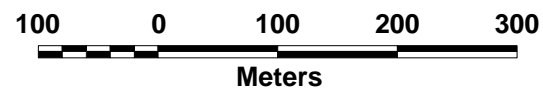
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

AuRR (truncated >100RR)



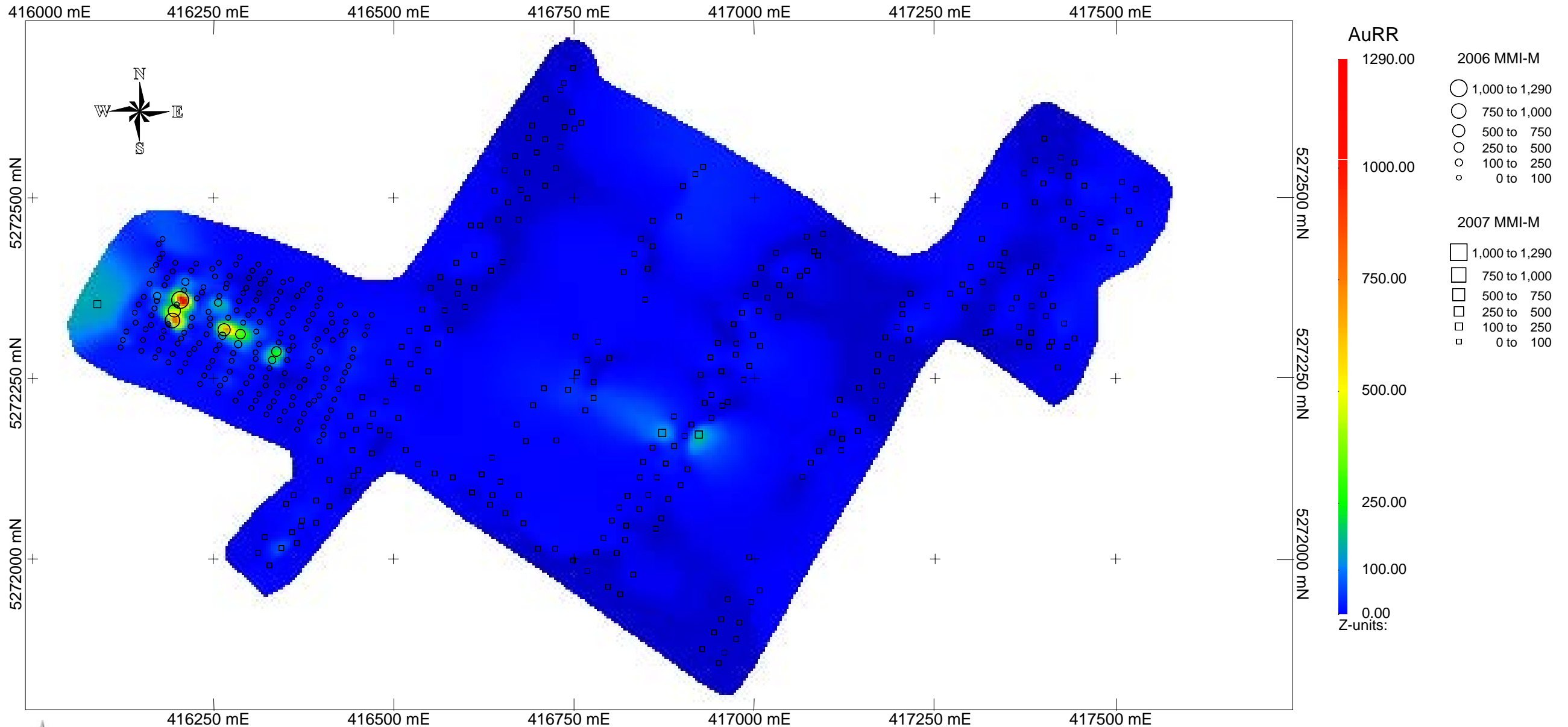
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



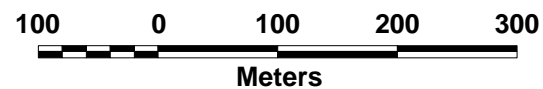
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

AuRR



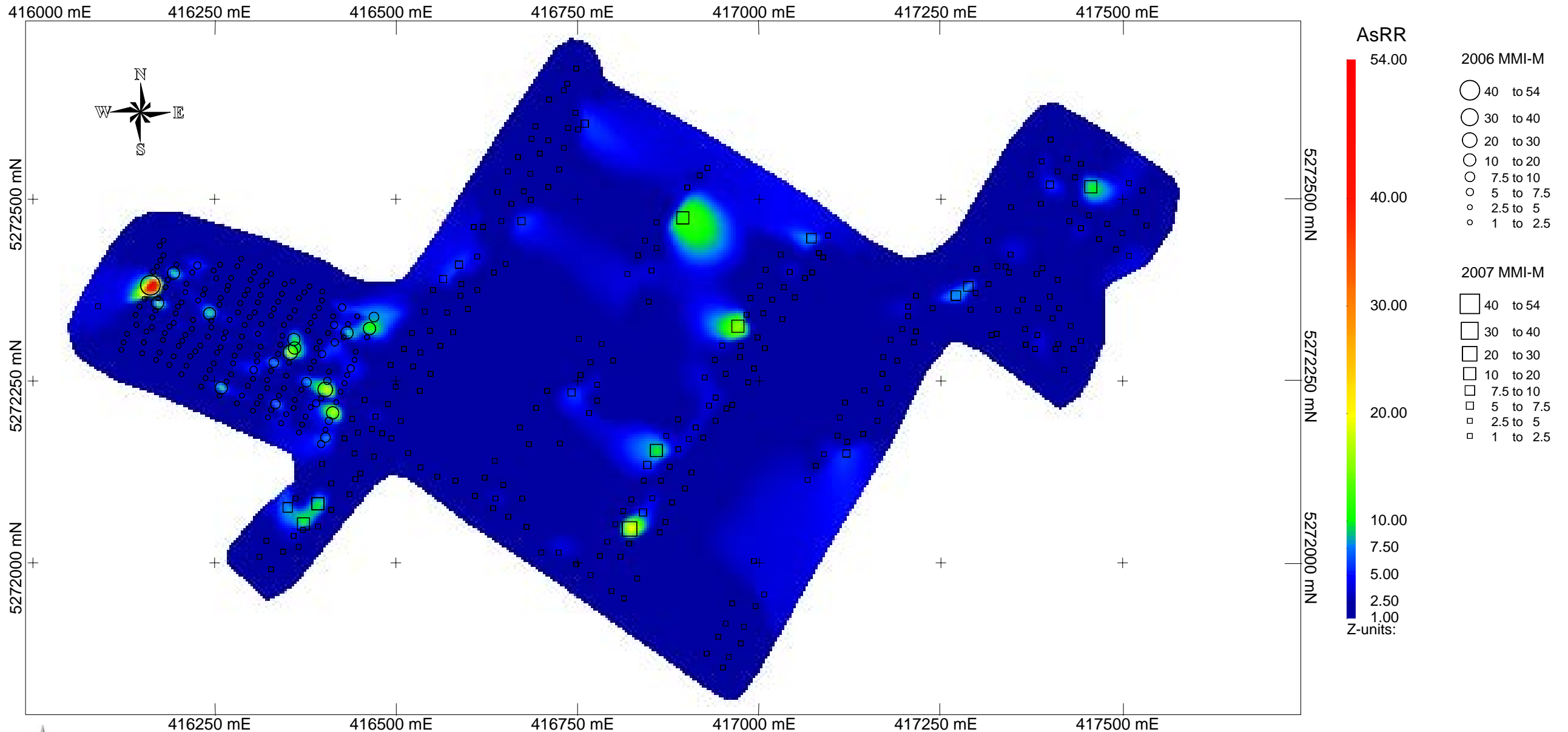
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



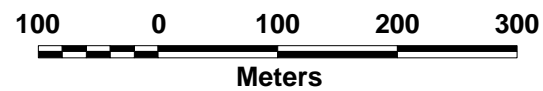
Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

AsRR



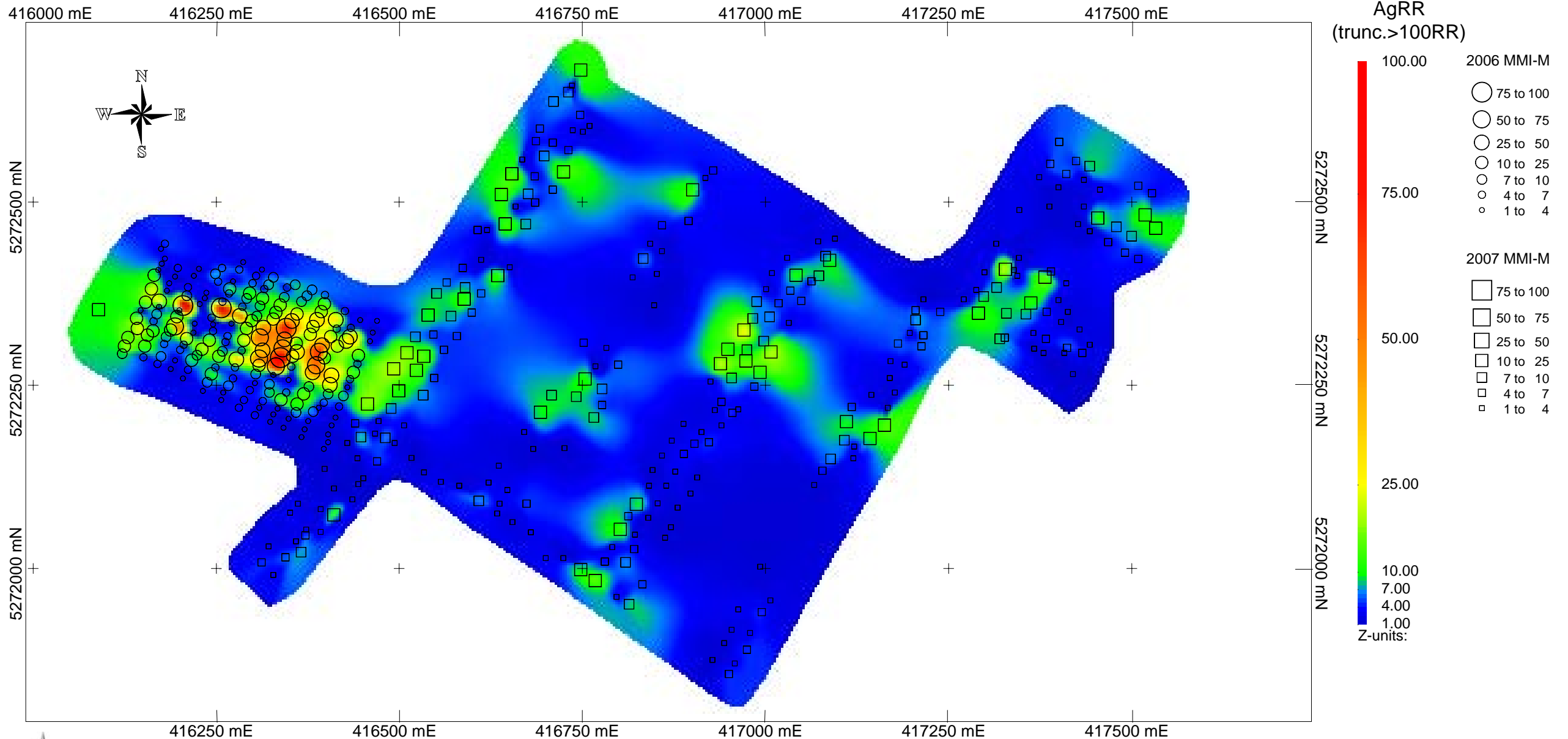
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

AgRR (truncated >100RR)



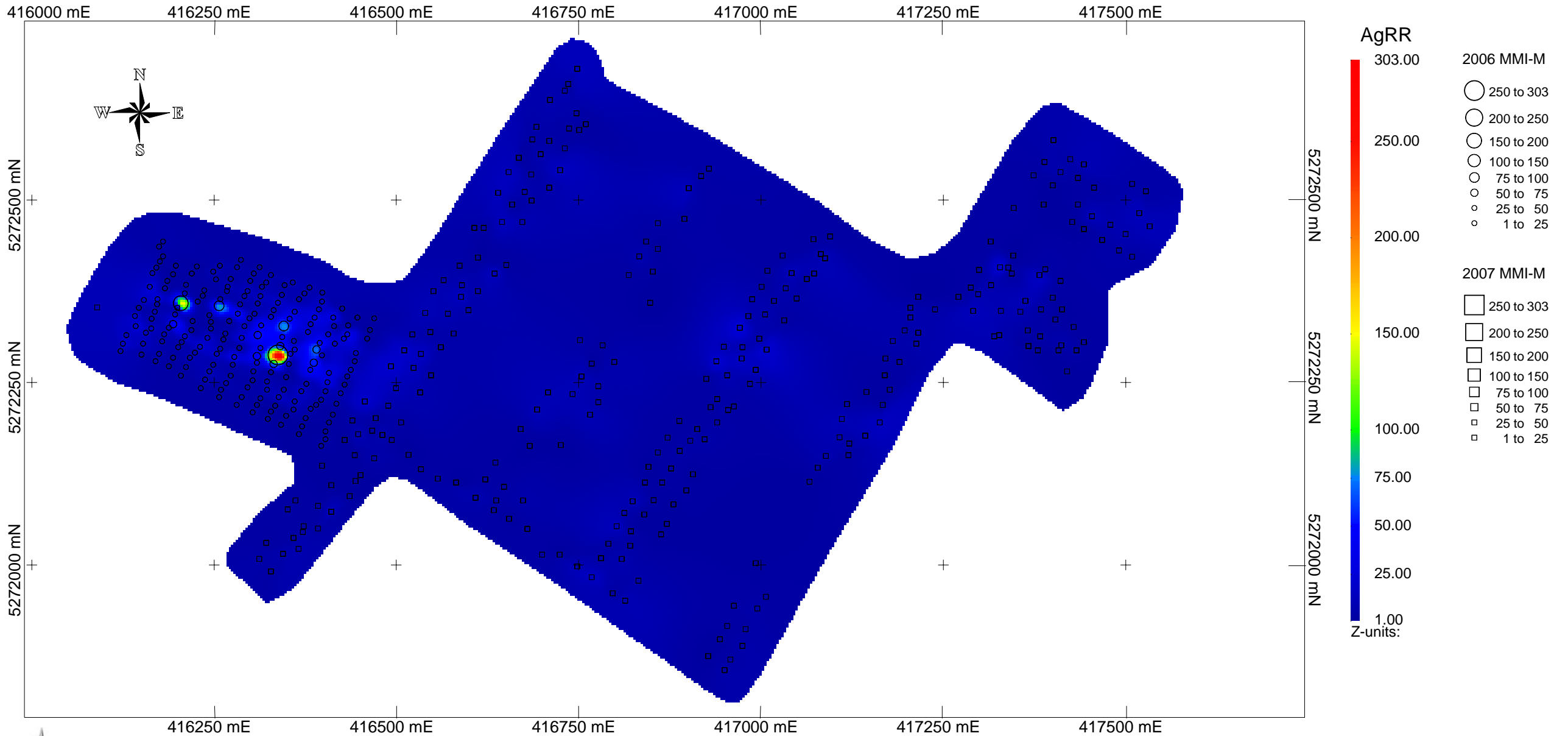
Plot Projection:
NAD83, Zone 17
Samples (n=468)



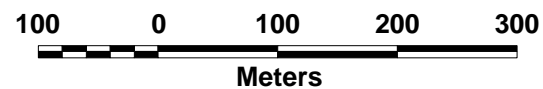
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

AgRR



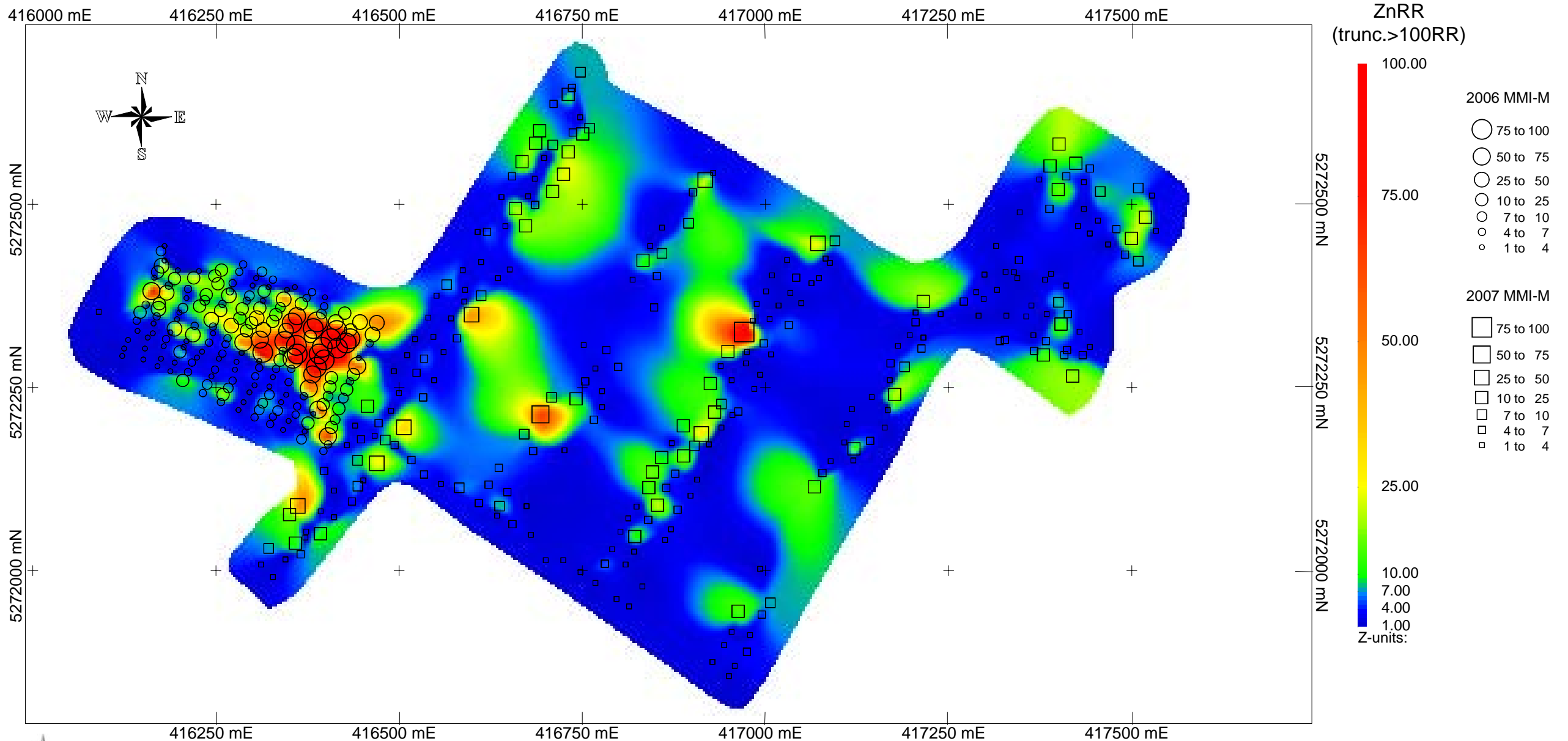
Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba



Plot Projection:
NAD83, Zone 17
Samples (n=468)

NAMEX HUFFMAN MMI-M SURVEY 2006 and 2007

ZnRR (truncated >100RR)



Geochemistry plots by:
Mount Morgan Resources Ltd.,
Winnipeg, Manitoba

Plot Projection:
NAD83, Zone 17
Samples (n=468)