

Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Surface geochemistry - MMI

TOTAL COST: 15,658.36

AUTHOR(S): Fionnuala Devine SIGNATURE(S): Fionnuala Devine

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ YEAR OF WORK: 2016

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5620912

PROPERTY NAME: Engineer

CLAIM NAME(S) (on which the work was done): ERIK, ERIK 2, HOPE 1

COMMODITIES SOUGHT: Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104M014

MINING DIVISION: Atlin NTS/BCGS: 104M08

LATITUDE: 59 ° 29 ' 0 " LONGITUDE: 134 ° 14 ' 0 " (at centre of work)

OWNER(S):
1) BCGold Corp. 2) Blind Creek Resources Ltd.

MAILING ADDRESS:
Suite 520 - 800 West Pender Street 804 - 750 West Pender Street
Vancouver, BC, V6C 2V6 Vancouver, BC, V6C 2T7

OPERATOR(S) [who paid for the work]:
1) BCGold Corp. 2) _____

MAILING ADDRESS:
Suite 520 - 800 West Pender Street
Vancouver, BC, V6C 2V6

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Engineer Mine, Llewellyn Fault, Engineer Mountain volcanic complex, Eocene gold-silver veins, Shear 'A', Laberge Group

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 31909, 35053

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	148 samples along 3.55 line km	ERIK, ERIK 2, HOPE 1	15,658.36
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	15,658.36

**Report on the
2016 MMI Soil Sampling Survey
Engineer Mine Property,
Southern Tagish Lake Area, BC**

HOPE 1 (411094); ERIK (538598); ERIK 2 (873849)

Atlin Mining Division

NTS 104M08

543371 mE, 6593824 mN

UTM NAD83 Zone 8

BCGold Corporation
Suite 520 – 800 West Pender St.
Vancouver, BC, Canada
V6C 2V6

Fionnuala Devine

October 3, 2016

Work Performed: August 10th and 12th, 2016

Report Date: October 3, 2016

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APPENDICES

- I Analytical Certificates
- II Results of the 2016 MMI survey (Table)
- III Results of the 2016 MMI survey (Maps)
- IV QA/QC table
- V Correlation Matrix

List of software programs used in support of exploration and development of this report:

ArcMap 10.4
Target for ArcGIS
Adobe Illustrator
MS Word
MS Excel

SUMMARY

This report discusses the results of a Mobile Metal Ion (MMI) soil sampling survey undertaken in 2016 in the Engineer Mine area at the southern end of Tagish Lake. Two field days were spent sampling a grid across the southern extension of Shear-A, a splay of the Llewellyn fault that is known for its associated gold-vein system. The system includes the Engineer and Double Decker veins which have historically been the most gold-productive veins on the property and in the region, having been mined as far back as 1913. An association of the Engineer system gold-silver veins with arsenic and antimony in surface geochemistry has been previously established in the Engineer area by BCGold Corp. The 2016 survey expands the surface geochemical database to explore the possibility of additional gold mineralization in veins and/or as disseminated mineralization associated with pervasive silicification along the Shear-A structure.

INTRODUCTION

Location and Access

The Engineer Mine Property (the Property) is located 32 km west of Atlin in Northwestern BC (Figure 1), on the east shore of the Taku Arm of Tagish Lake. It covers part of the western slopes of Gleaner and Engineer Mountains. Geographical coordinates for the center of the property are 59° 29' north latitude, and 134° 14' west longitude. Approximate UTM coordinates for the center of the program area are 6593966N and 543393E (NAD 83, Zone 8). The NTS 1:50,000 scale map sheets that cover the Property are 104/M8 and M9.

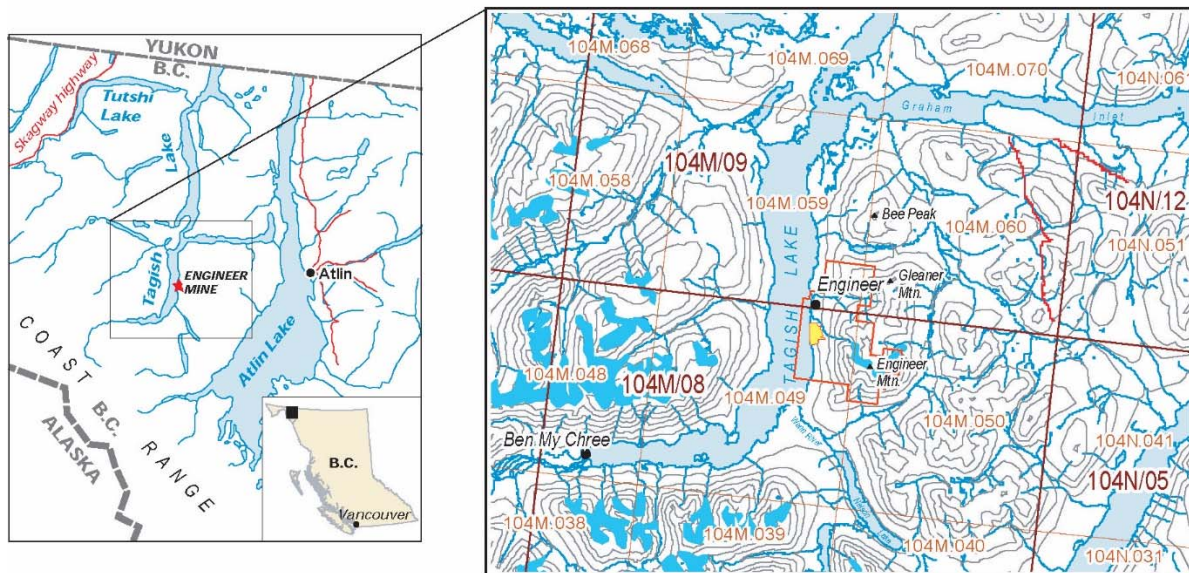


Fig. 1. Location map of the Engineer Mine Property and current BCGold optioned tenures (orange outline), Northwestern BC.

The Engineer Mine Property

The Engineer Mine Property of BCGold Corporation (BCGold) comprises mineral rights on six crown grants and three claims staked by the company. In addition, the company controls five claims optioned from Guardsmen Resources Inc. and nine claims optioned from Blind Creek Resources Ltd. All form a single, contiguous claim block.

Exploration interest in the property area dates back to 1899 when prospectors discovered a gold-bearing quartz vein on the shore of Tagish Lake. The associated gold-vein system has been explored and mined intermittently since then. Mining operations between 1913-1918 and 1925-1927, primarily on the Engineer and Double Decker veins. Workings from that era include 8 levels at about 100 foot intervals connected by a shaft and the 5 Level crosscut, but the lowest 3 levels flooded shortly after production ceased. Sporadic mining by high graders continued over the next 50 years as ownership changed hands numerous times. In 1987 Erickson Gold Mines completed a substantial surface exploration program which included VLF, ground magnetics, soil geochemistry and diamond drilling (Smit, 1987). During the 1990's the Engineer Mining Corporation (EMC) brought a small 30 tpd mill and a 10 man camp to the property and re-opened the underground workings for bulk sampling in a number of areas, which were worked on for several years (Martensson and Arnholz, 1996).

Work by BCGold Corporation began when they optioned the central Crown Grants from Engineer Mining Corporation in 2007. In 2007 and 2008 detailed geological mapping was conducted on surface and 5 level (Devine, 2008) as well as channel sampling underground, and a surface diamond drill program (6 holes, 1846 meters) targeting Shear A. In 2010 a two-phase underground drill program from 5 Level (13 holes, 1218 meters) targeted the Engineer and Double Decker veins (Coates, 2010). Later that year the Guardsmen claims were optioned and in 2011 a helicopter-borne magnetic/resistivity survey was conducted (SkyTEM, 2011) along with geological mapping, prospecting and rock sampling over the enlarged property. Closer to the mine site numerous trenches were reopened for sampling, 5 areas underground were bulk mined and milled, and 70 oz. of gold were recovered (Coates, 2014). During 2012, BCGold conducted more mapping and sampling, including Mobile Metal Ion (MMI) sampling in selected areas of the larger property. Nearer the mine, MMI sampling was also done, along with the dewatering of 6 and 7 Levels to allow geological mapping and sampling of the Engineer Vein. In 2013 BCGold optioned 9 Claims from Blind Creek which cover the southward extension of Shear-A, and in 2014 completed a small prospecting and B-horizon soil survey along the Shear-A extension from the Engineer area (Coates, 2014).

Objective and Scope of Present Work

The work reported on herein includes a 148-sample MMI soil survey, along the southeastward extension of the structure known as Shear-A, a splay of the Llewellyn Fault that is the primary structural control on the Engineer-Double Decker Au-Ag vein system. Previous B-horizon soil and MMI surveys over the better-known Engineer vein and Shear-B areas have indicated a correlation between the known gold zones and a suite of elements that includes arsenic and antimony. This survey was designed to extend the range of the surface geochemistry grid along the Shear-A structure into an area with as-yet unexplained magnetic and resistivity anomalies and limited outcrop exposure.

Tenure

The Engineer Mine Property totals 3,537 ha and includes the mineral rights to six crown grants and three claims staked by BCGold Corp. (Table 1, Figure 2). Contiguous with the Engineer property, BCGold has an option on five claims owned by Guardsmen Resources Inc. (but with title held by BCGold for the duration of the option), and nine claims owned by Blind Creek Resources Ltd. There is substantial overlap between the crown grants and mineral claims.

The work reported on here covered parts of three different tenures:

HOPE 1 (411094) Blind Creek Resources Ltd.

ERIK 2 (873849) BCGold Corp

ERIK (538598) BCGold Corp

The survey location relative to these tenures is shown in Figure 3.

MTO tenure #	Name	Area (ha)
<i>BCGold Corp. 100%</i>		
538598	ERIK	131.55
873849	ERIK 2	82.20
926639	ERIK 3	16.43
<i>Guardsmen Resources Inc. Under option to BCGold Corp.</i>		
503610		575.42
503612		361.50
503613	LOL	361.86
507528		558.45
512193	GLINT	246.71
<i>Blind Creek Resources Ltd. Under option to BCGold Corp.</i>		
411090	HOPE 2	25.00
411091	HOPE 3	25.00
411092	HOPE 4	25.00
411093	HOPE 7	25.00
411094	HOPE 1	450.00
503984	ENG	16.44
521228	HOPE 7	345.28
525419	TAGISH #1	197.40
525536	TAGISH #3	16.45

Table 1. Summary of BCGold-controlled tenures in the Engineer area.

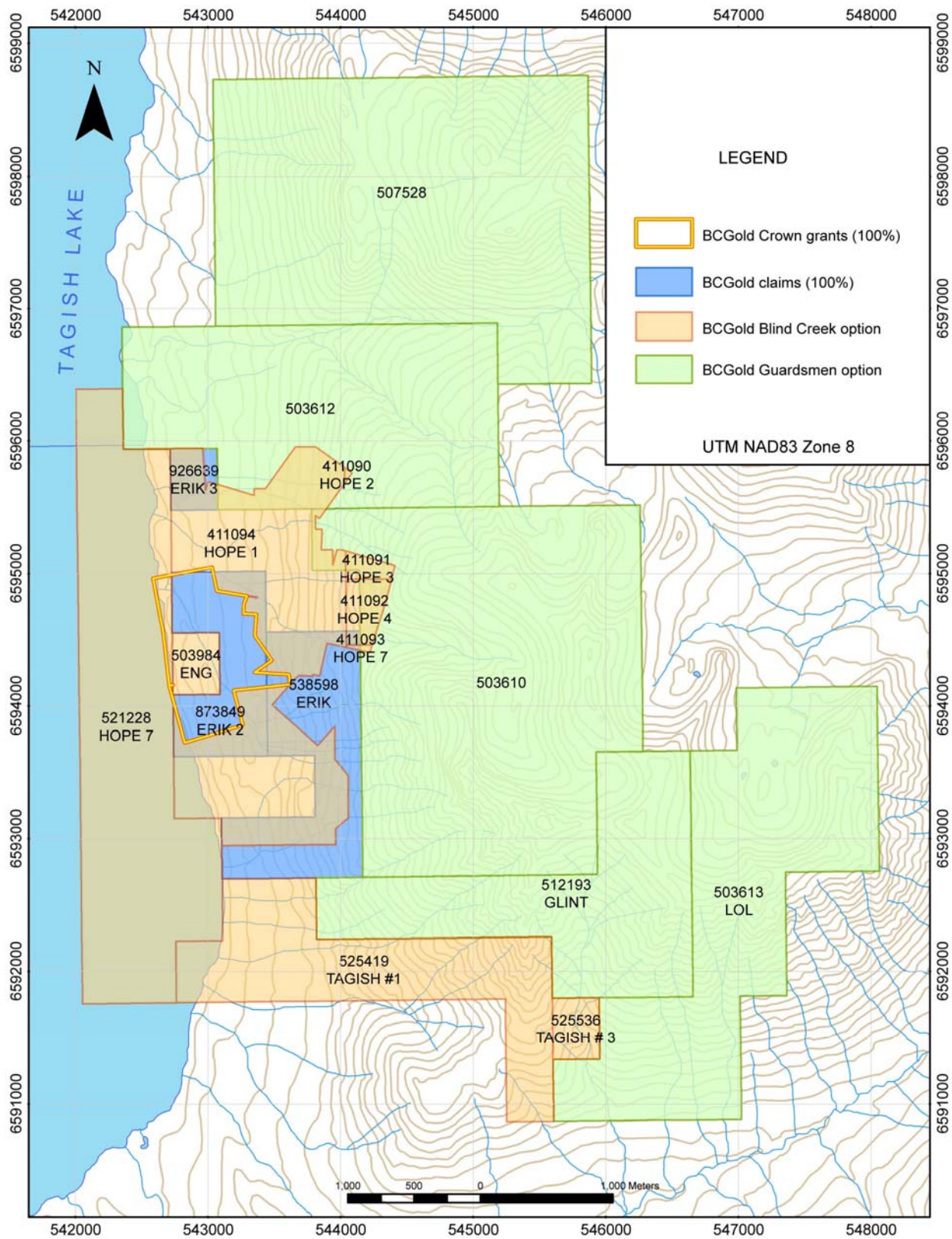


Fig. 2. Tenure map for the Engineer Property and associated claims.

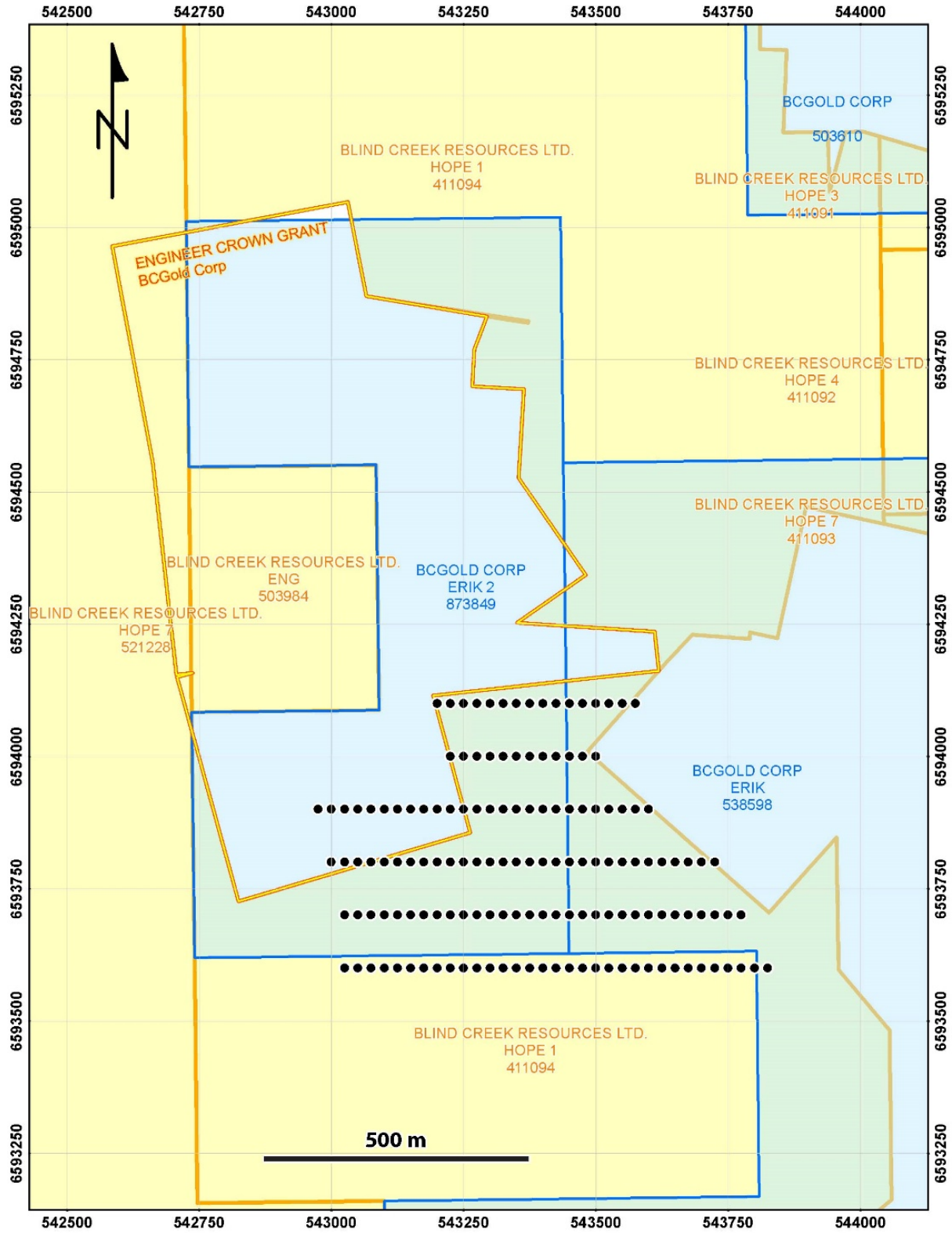


Fig. 3. 2016 MMI sample sites (black dots), over the tenure map. UTM NAD83 Zone8.

REGIONAL GEOLOGY

A cluster of gold occurrences occur in the southern Tagish Lake area, along and on both sides of the Llewellyn Fault. Most are showings and prospects of Au, Au-Ag, and Ag-Pb-Zn±Au veins, as well as several showings associated with structurally-controlled hydrothermal quartz-carbonate breccia bodies. The veins and breccia zones on the Engineer Property are one of the most notable of these occurrences, spatially and genetically associated splay of the Llewellyn Fault.

The Llewellyn Fault Zone is a major terrane-bounding structure that trends northwest across north-western British Columbia and into Yukon and Alaska. It has a protracted structural history which may be as old as late-Triassic (200 – 231 Ma), while youngest movement on associated structures is at least as young as early Eocene (49 – 55 Ma). It shows a history of deformation and displacement at different depths along the fault zone and along different discrete structures (Mihalynuk, 1999). In the Tagish Lake area (Figure 4) it is a near vertical structure, most commonly a few to tens of metres across. Right lateral ductile and brittle deformation fabrics are overprinted by younger right-lateral brittle deformation fabrics (Mihalynuk, 1999).

The Llewellyn Fault is underwater along the southern end of Tagish Lake, however linking the mapped segments of the fault (Mihalynuk, 1999) shows a bend in the fault from northwest to a north-south orientation along the lake. Several splays are mapped on the eastern side of the fault still with a northwest trend. The pattern shows a right-lateral releasing bend with the dilational zone spatially coincident with the cluster of known gold occurrences along the eastern side of the lake (Figure 4).

The western side of the Llewellyn Fault is underlain by Proterozoic to Triassic metasedimentary and metavolcanic rocks of the Boundary Ranges Metamorphic Suite intruded by Early Jurassic and Cretaceous intrusions. To the east are sedimentary rocks of the Lower Jurassic Laberge Group, the main sedimentary unit of the Whitehorse Trough. Eocene intrusions and volcanic complexes of the Sloko Group occur on both sides of the Fault. One of these complexes underlies Engineer Mountain.

The Engineer Mountain volcanic complex is one of several Sloko Group volcanic centres in the area. Sloko Group rocks are also found as erosional remnants on some of the highest peaks in the area: Mount Fetterly, TeePee Peak, and Mt. Switzer. The volcanic centres are comprised of rhyolite to andesite flows, breccia, tuffs, and ignimbrite, with coeval intrusions. Most Sloko volcanic centres show a spatial and more loosely temporal association with gold mineralization. The Skukum mine in southern Yukon is one of the best known examples; gold mineralization is associated with adularia-sericite alteration near rhyolite dykes along co-magmatic shear zones (Lang et al., 2003). In the southern Tagish Lake area, visible gold occurs in Sloko volcanic rocks at Teepee Peak (Mihalynuk, 1999), and at the Engineer Mine, quartz-carbonate-veins and hydrothermal breccia occur within an Eocene structurally-controlled mineralized system adjacent to the Sloko volcanic centre on Engineer Mountain.

PROPERTY GEOLOGY

The Engineer property is underlain almost entirely by argillite and greywacke of the Lower Jurassic Laberge Group (Figure 5). The sedimentary rocks are bedded, and in places are folded into tight, steeply plunging folds, particularly in the southern part of the property. Several phases of dykes cut the Laberge Group sedimentary rocks, all are of monzodiorite composition although they vary texturally from medium-grained equigranular phases to feldspar-phyric varieties. The dykes are inferred to be genetically related to the Eocene Sloko volcanic centre on Engineer Mountain although they have not yet been dated.

The property is bisected by a northwest-trending dextral shear zone, referred to as Shear-A. The deformation zone around shear is mapped up to 200 m wide in places as a subtle fault-parallel cleavage in the surrounding Laberge Group rocks. The majority of displacement, however, occurred on the northern side of the deformation zone. Shear-A displays progressive deformation, with contemporaneous hydrothermal events. Magmatic and hydrothermal features associated with the shear zone include domains of pervasive auriferous silicification along the Shear-A deformation zone up to 50 metres wide, monzodiorite dykes that cut the early Shear-A fabrics but are cut off by late brittle faults along the northern side of the Shear zone, and the Engineer-Double Decker vein system.

The Engineer-Double Decker vein system is interpreted to have formed during right-lateral displacement and associated extension along brittle structures on the south-side of Shear-A. The system includes multi-stage quartz-carbonate-adularia veins with bonanza-grades of Au-Ag mineralization, ranging up to 50 grams per tonne gold. The system has received attention from mineral collectors (Mauthner et al., 1996) for its more rare gold-associated mineralogy, including allemontite (stibarsen) and roscoelite (vanadian muscovite). Gold occurs primarily as electrum, and is found in two main mineral associations corresponding to different vein-forming stages: Type 1 occurs as intergrown with a vanadian mica (commonly referred to as roscoelite), while Type 2 is associated with arsenopyrite. Vein textures and ... suggest that boiling was the primary mechanism for gold deposition in the vein system (L.Millonig, pers.comm, 2016).

To the north of Shear-A, other veins and zones of hydrothermal breccia have also been explored and have produced previously. The Hub-B area is a zone of silicification with radiating quartz-carbonate veins, interpreted occur at a structural intersection. The Shear-B area has been explored both underground and on surface; it includes a 10-metre-wide hydrothermal breccia body along a right-lateral minor shear zone that with the Shaft vein bounds an extensional vein system called the Boulder-Governor system that historically has produced free-gold in quartz (the Governor vein) and arsenopyrite-stibnite-associated gold (the Shaft vein).

The zones of silicification and hydrothermal breccia along Shear A are also an exploration target. Drilling in 2008 and 2010 through these zones returned results of up to 0.45 g/t gold over 34 metres (BCGold Corp, 2016). The extension of these domains to the south is not fully explored.

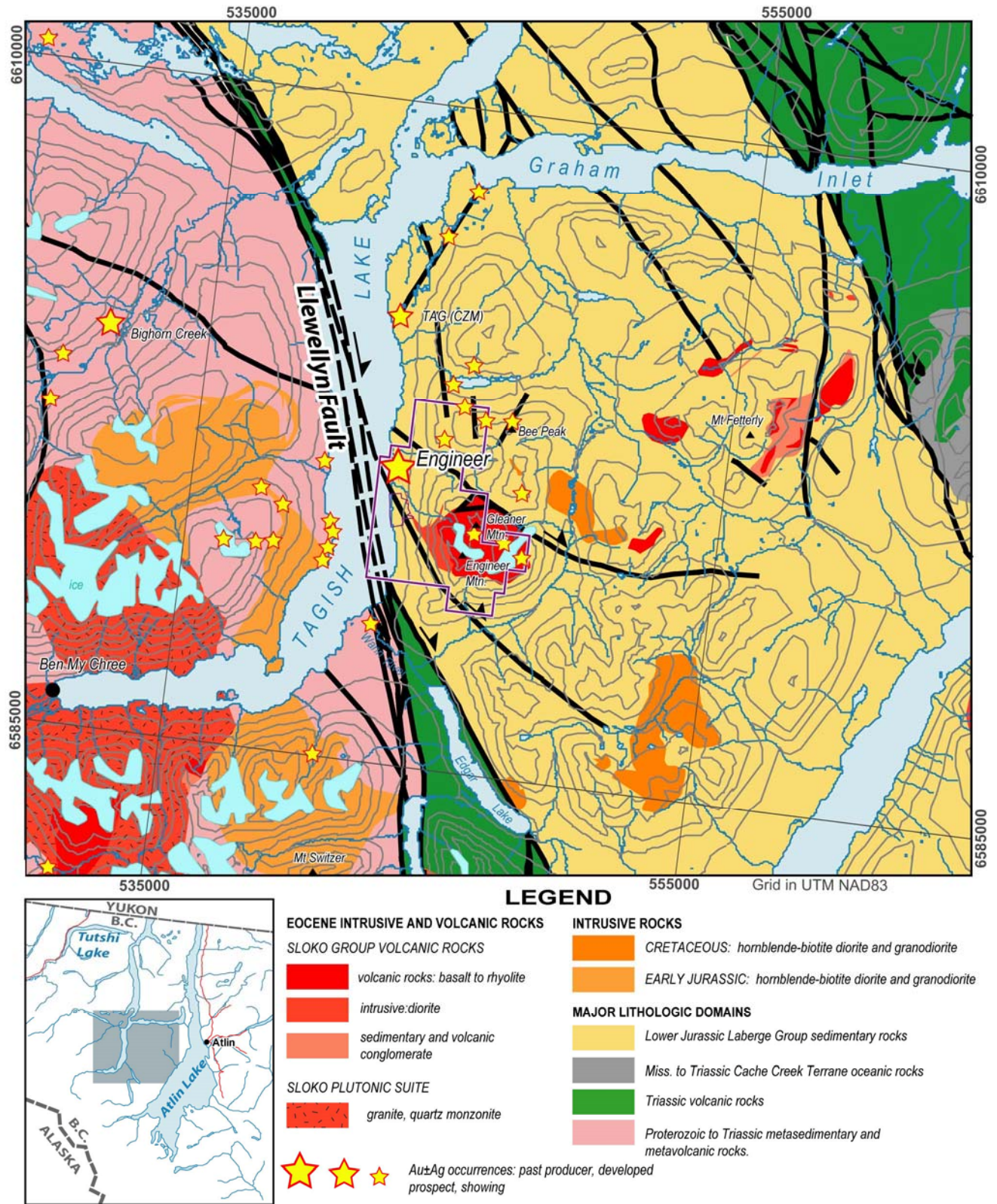


Fig. 4. Regional geological summary map of the southern Tagish Lake area. Eocene intrusive and volcanic centres are highlighted, as well as gold and silver occurrences across the area. From Devine, 2008; Compiled from Mihalynuk (1999) and BC MINFILE.

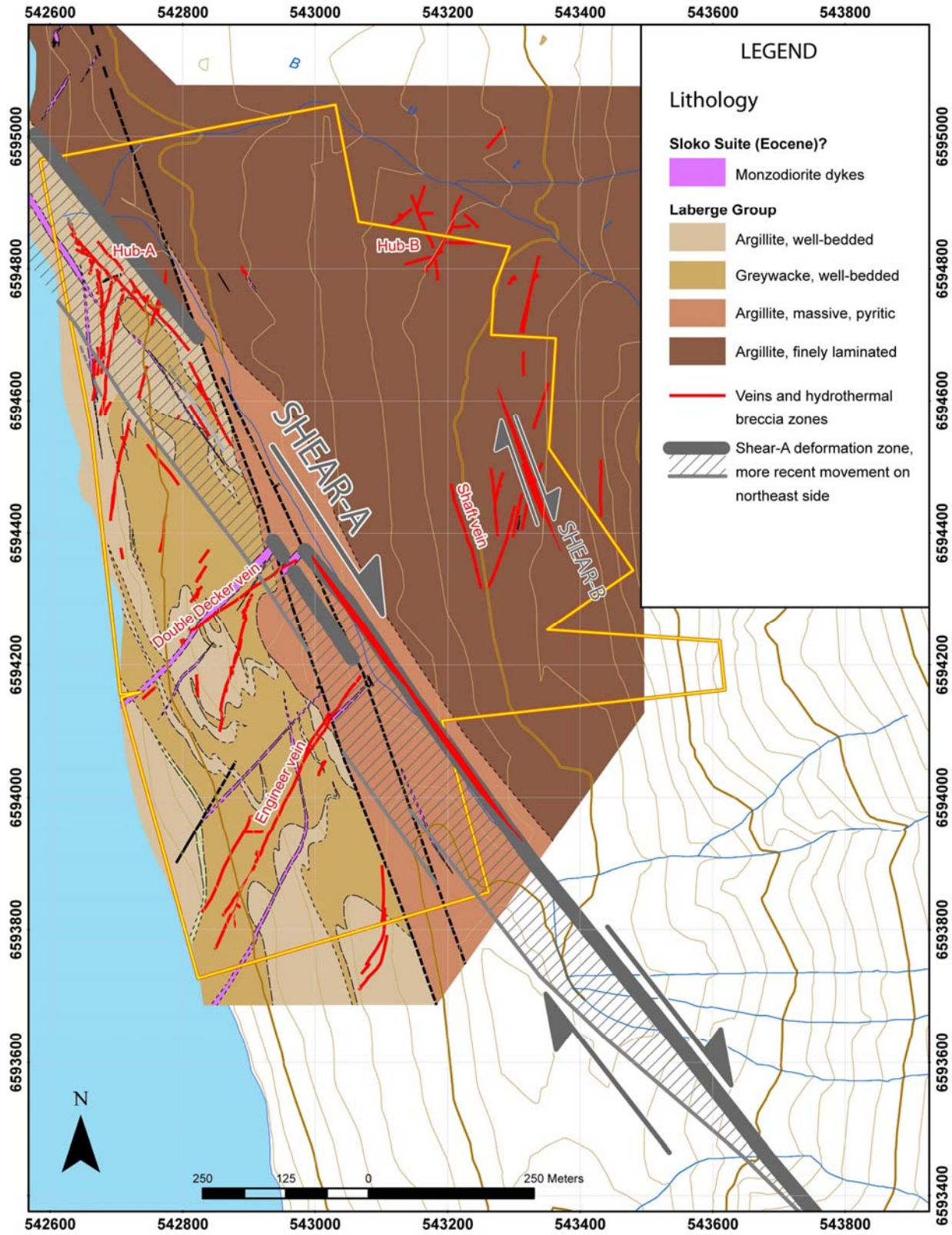


Fig 5. Geology map (surface) of part of the Engineer Property. UTM NAD83 Zone8.

2016 MMI SURVEY

Objective of the Survey and Location

The 2016 MMI survey was an extension of a 2012 MMI survey; located southeastward of the 2012 survey limits along the extension of Shear-A (Fig. 6). It was laid out with 100 m line spacing and 25 m sample spacing, similar to the 2012 survey. Lines for the 2016 survey were located in between, but parallel to, several lines of B-horizon soil samples that were taken in 2014 (Coates, 2014).

Digital data is available for two surveys of B-horizon soils that cover different parts of the property. A 1987 vintage B-horizon soil survey with multi-element data covers the Engineer crown grants, and a 2014 set of B-horizon soil lines is located from the Engineer vein southward along Shear-A. The location of these surveys relative to the current 2016 MMI survey is shown in Figure 6.

Sampling Protocol and Analysis

The following steps were taken by each two-person sampling team when collecting at each sample site:

- 1) Digger digs hole to ~30 cm beneath the organic layer and flags the hole location.
- 2) Digger labels a Ziploc bag with UTM co-ordinates and drops it there.
- 3) Sampler rinses bowl and trowel in the discard pile left by the digger. This prevents cross-contamination from the previous holes.
- 4) Sampler places bowl at bottom of hole and then uses the trowel to obtain the dirt from the 10-25 cm range.
- 5) Sampler tosses rocks from bowl and puts the dirt in labelled Ziploc.
- 6) Steps 3-4 are repeated until $\frac{1}{2}$ to $\frac{3}{4}$ of the Ziploc bag are filled with dirt.
- 7) Once full, the Ziploc is placed in a second Ziploc. Double bagging is more secure.
- 8) Move 25m to the next hole and repeat steps 1-8.

Samples were shipped to SGS Labs in Vancouver within one week of collection. The analysis completed was the SGS Mobile Metal Ion enhanced package/ICPMS (GE_MMI_ME), which uses a proprietary leach and analysis of the extracted solution by ICPMS.

Results

The results include data for 55 elements for all 148 samples. The lab inserted eight blanks and three standards, and performed ten duplicate analyses. All blanks were measured at, or below, the detection limit with only one value for Se measured at 3 ppb (detection limit is 2 ppb). A QA/QC analysis of all standards and duplicates shows that the average relative standard deviation (the coefficient of variation) is less than 13% and more commonly around 5%, with exceptions occurring when the values analyzed were near the detection limit.

Figures 7 to 11 summarize the results of the 2016 MMI survey, along with historic soil survey results. Summary maps are presented for Gold, Silver, Copper, Arsenic, and Antimony. Maps for all elements are found in the appendix. The results of the 1987 and 2014 B-horizon soil surveys are not levelled but are symbolized to a similar scale. The MMI results for 2012 and 2016 are combined in a background

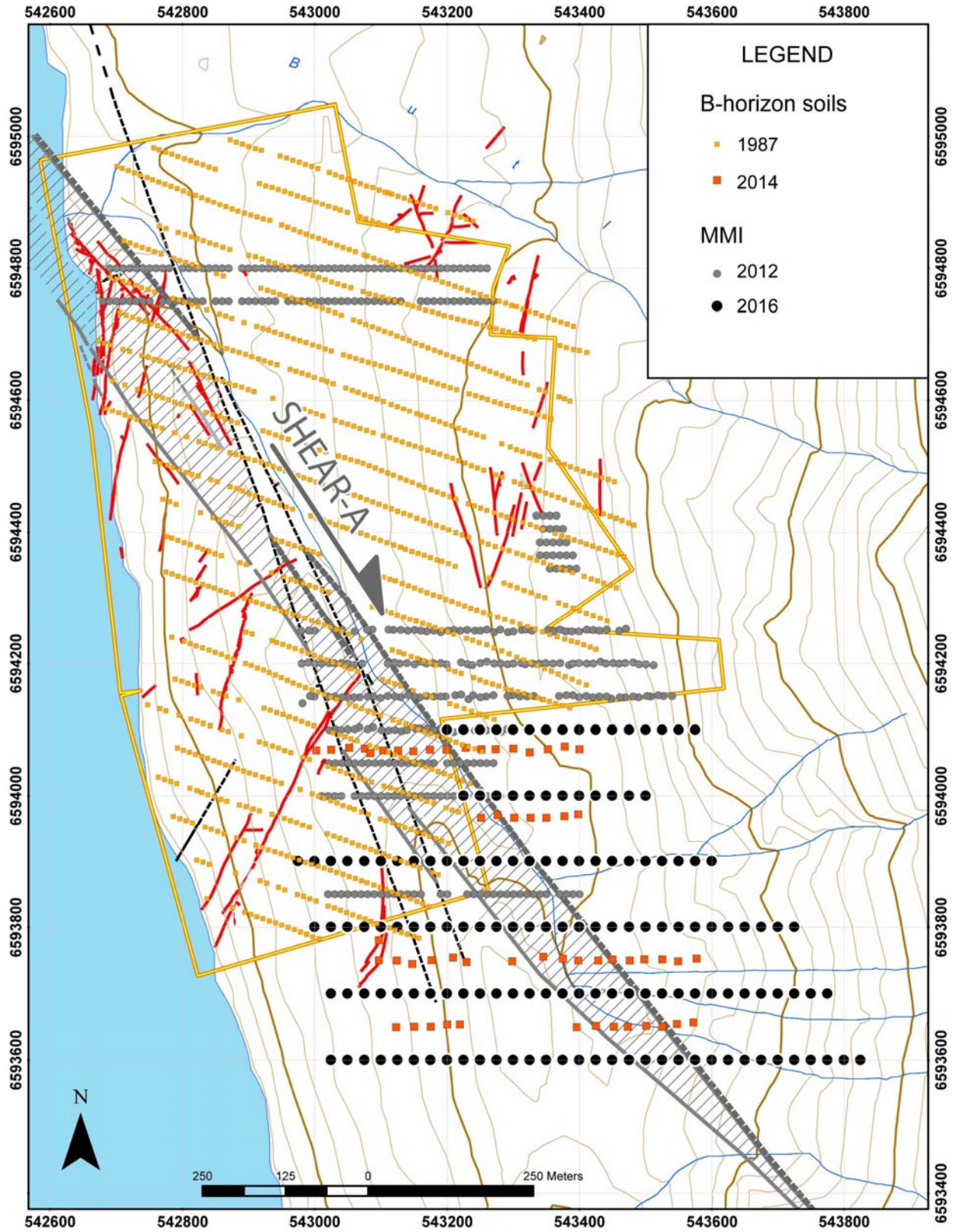


Fig. 6. Map of surface geochemistry grids in the Engineer area.

gridded image of response ratios, and the 2016 raw values are plotted over the gridded image.

A correlation matrix of the results shows a positive relationship between gold, copper, silver, and arsenic. Silver and arsenic also show a positive correlation with antimony and mercury.

A complete table of the results with coordinates, as well as analytical certificates and the QA/QC evaluation are included in appendices at the end of this report.

Interpretation and Discussion

There are several trends and patterns in the 2016 MMI survey, both in metal correlations and in spatial trends. BCGold previously established, through an analysis of the historic surface geochemical data as well as the 2012 MMI survey, that there is a correlation of certain pathfinder elements with gold and silver, most significantly a positive correlation with arsenic (D. O'Brien, pers. comm., 2012). The 2016 MMI survey demonstrates that these associations continue along the Shear-A structure and highlight several potentially important trends.

A correlation matrix of the 2016 MMI data shows a positive correlation of gold with silver, copper and arsenic. The gold and silver relationship is clear as most mined gold from the vein system is classified as electrum. Native arsenic and stibarsen are found in parts of the mined vein system as well. There is not much copper noted in the Engineer vein system, but chalcopyrite is logged locally. A second relationship noted in the correlations is that arsenic and silver, but not necessarily gold, have a positive correlation with mercury and antimony.

Vein targets

In combination with the 2012 MMI survey, there are several multi-element anomalies that may be reflecting covered vein targets (Figure 12). Two of these are along trend from known veins that have been mapped on surface and mined underground: the Jersey Lily vein and the Shaft vein. Anomalies of Au, Ag, Cu, As, and Sb maps vary in size, but occur in the same area, along the southward extensions of these veins (Figure 7-11). Copper and silver show a particularly large anomalous zone around the Jersey Lily vein and farther south, while gold and arsenic are more subtle. Both areas also show potential for additional vein and or breccia zones to the southeast of the mapped veins. Parallel, northeast-trending anomalies occur approximately 200 metres southeast of the Jersey Lily and Shaft veins that are highlighted by all five elements as well (Figure 12).

Shear-A target

Hydrothermal breccia zones and massive silicification with elevated gold values are known to occur along the Shear-A system near the Double Decker and Engineer veins. This syn-mineral structure is also a target for similar gold-enriched alteration and silicification farther south. The 2016 survey highlights a geochemical transition across the projected southward extension of the Shear-A structure. Gold and copper are not elevated along this structure; however, arsenic, antimony and silver all show large >400m long anomalies along this trend. The arsenic anomaly in particular is open to the south. These

three elements comprise the second correlation that was highlighted in the correlation matrix of the 2016 survey and may represent a separate hydrothermal event within the overall mineralized system.

A new gold-silver target

Another important geochemical feature is highlighted by the 2016 survey; a 400m by 400m domain that is open to the east and is anomalous in gold and silver occurs along the northeastern side of Shear-A (Figures 7, 8, 12). Other pathfinder elements are not present to the same extent, but rather form a halo to this domain. Arsenic is notably absent from the zone except for in a small central feature. This gold-silver-only association is not common in the other parts of the property and the significance of the anomaly is not certain. It is in an area overlain by cover and is not well-exposed.

Conclusions

The 2016 MMI survey has added an important extension of the surface geochemical grid. Several new trends are shown in the data, including new vein targets, a new association of Ag-As-Sb in an anomaly along the Shear-A target, as well as a new geochemical feature that is gold-silver specific. While surface exposure is limited in the area of the survey, extension of the geological database into this area is the next step to further developing these targets. A re-evaluation of the structural database for the property in to work towards understanding the structural evolution and its association with geochemical relationships will help in refining these targets within the context of the mineralized system.

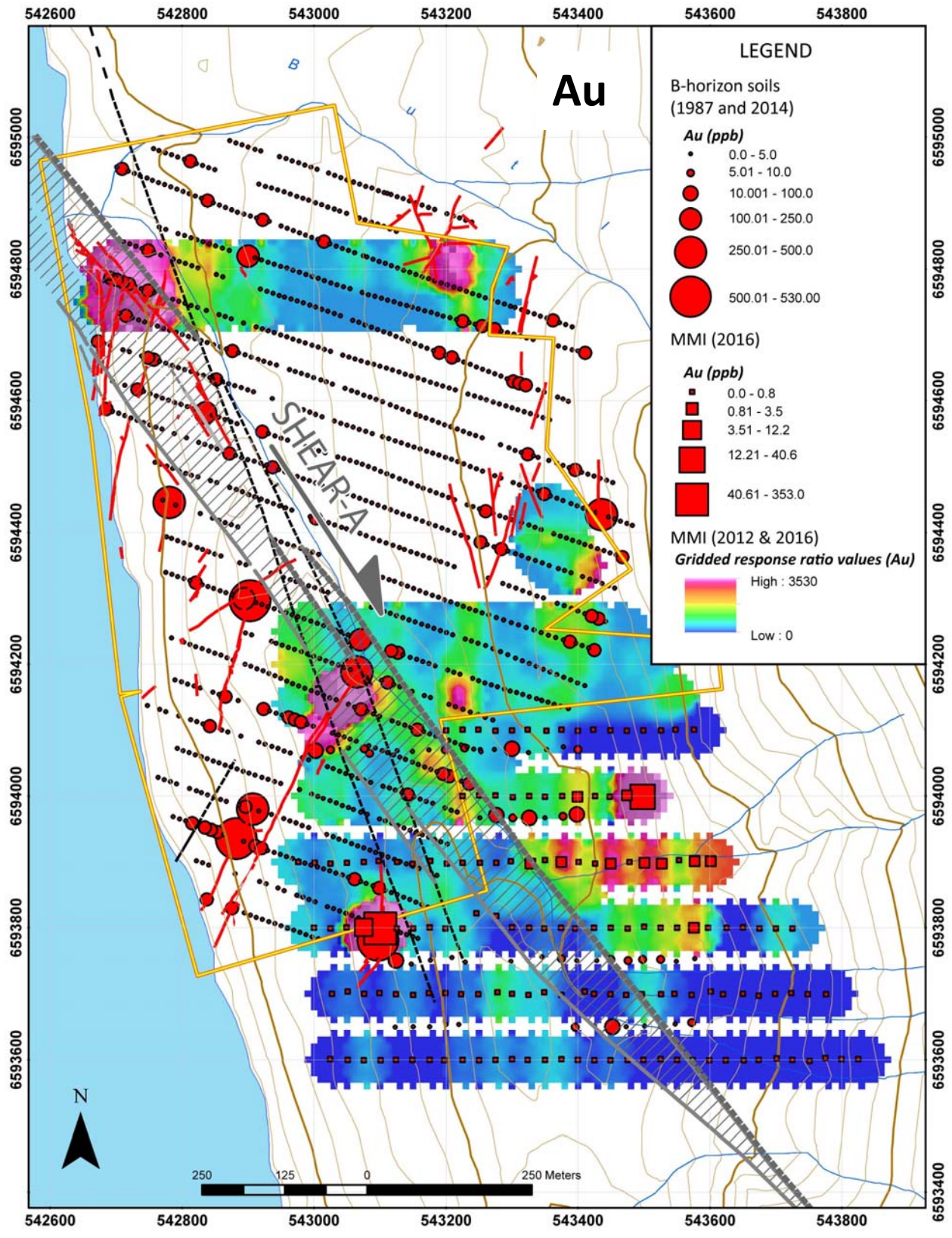


Fig. 7. Surface geochemistry map of the Engineer mine area showing gold values in B-horizon soil and MMI surveys.

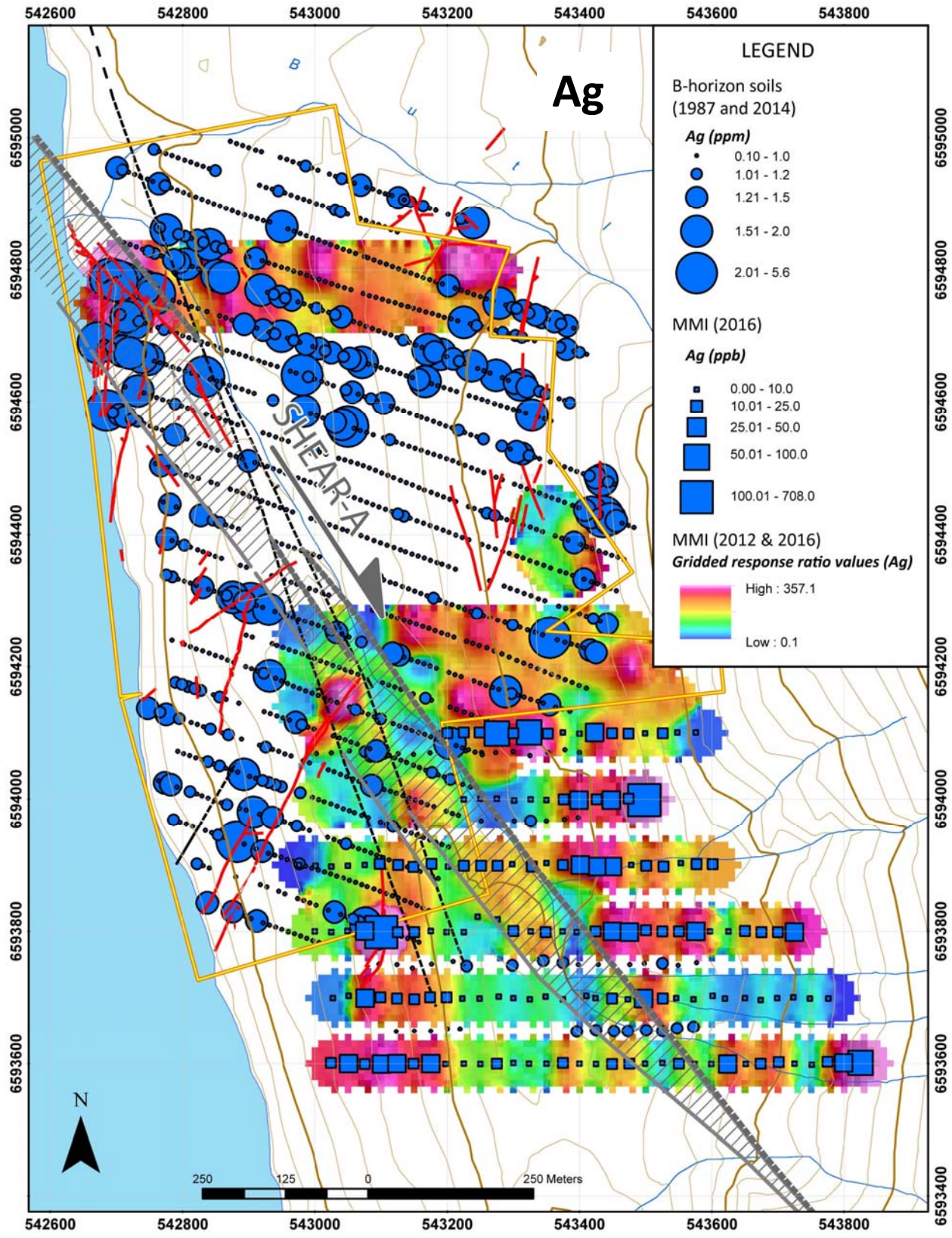


Fig. 8. Surface geochemistry map of the Engineer mine area showing silver values in B-horizon soil and MMI surveys.

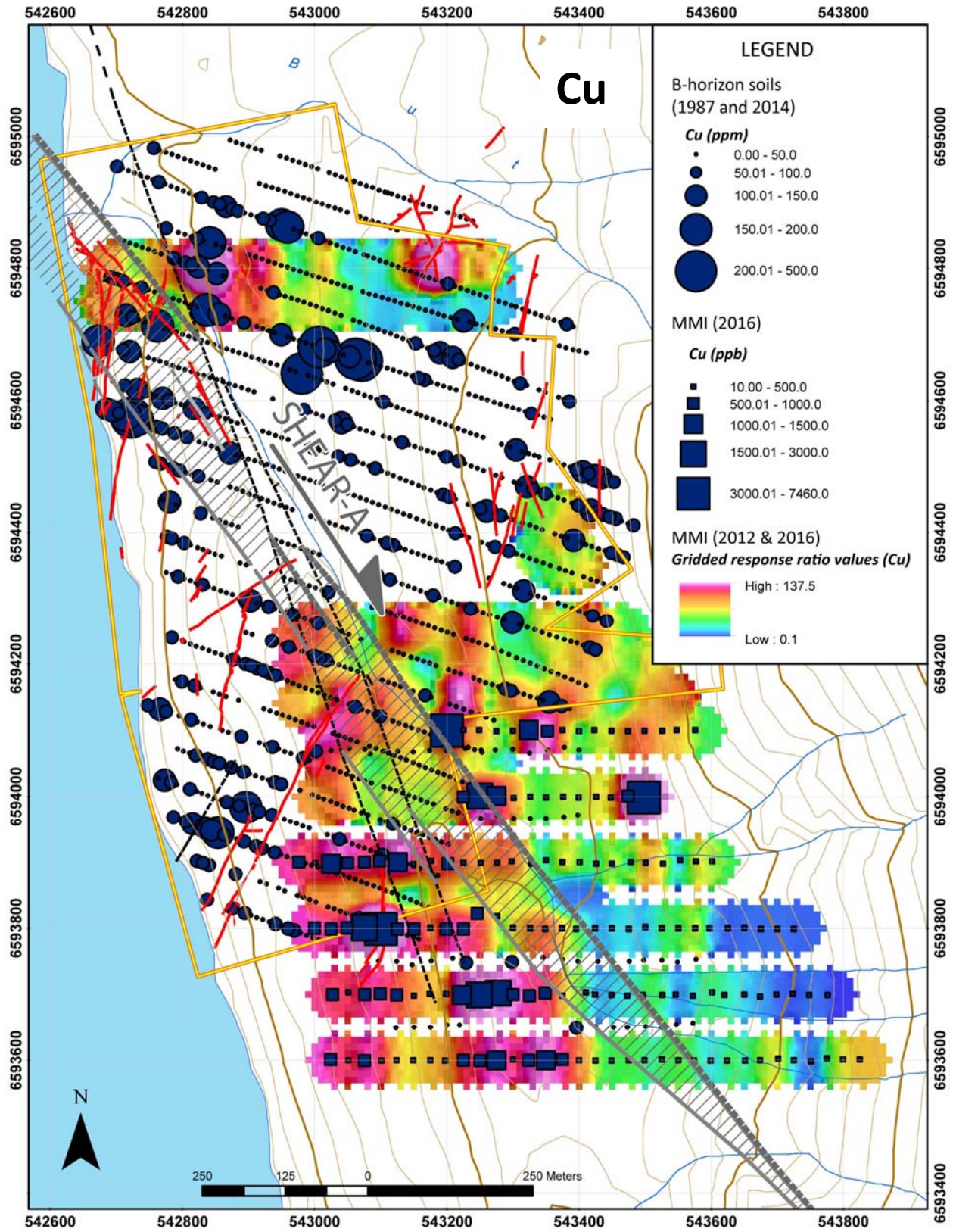


Fig. 9. Surface geochemistry map of the Engineer mine area showing copper values in B-horizon soil and MMI surveys.

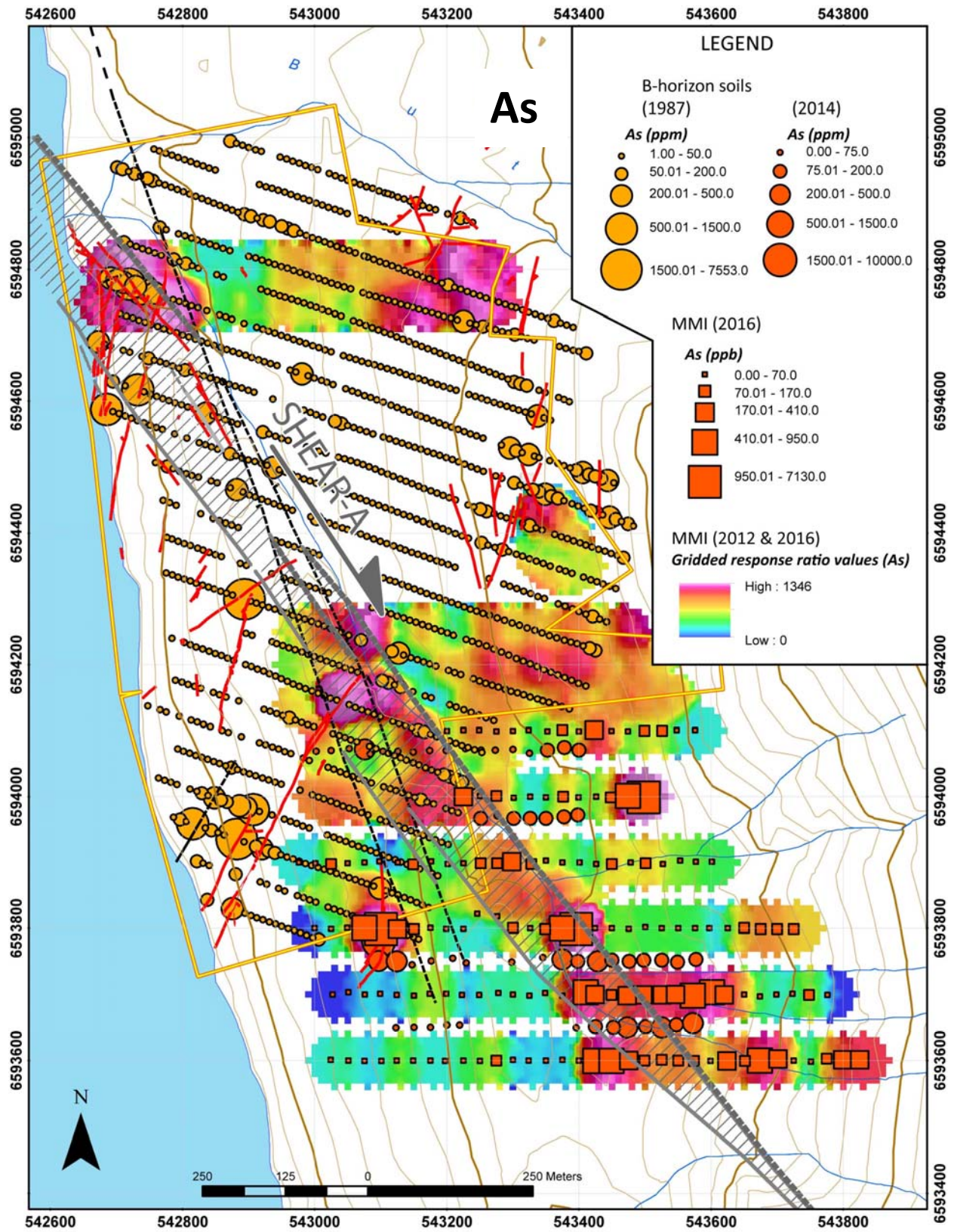


Fig. 10. Surface geochemistry map of the Engineer mine area showing arsenic values in B-horizon soil and MMI surveys.

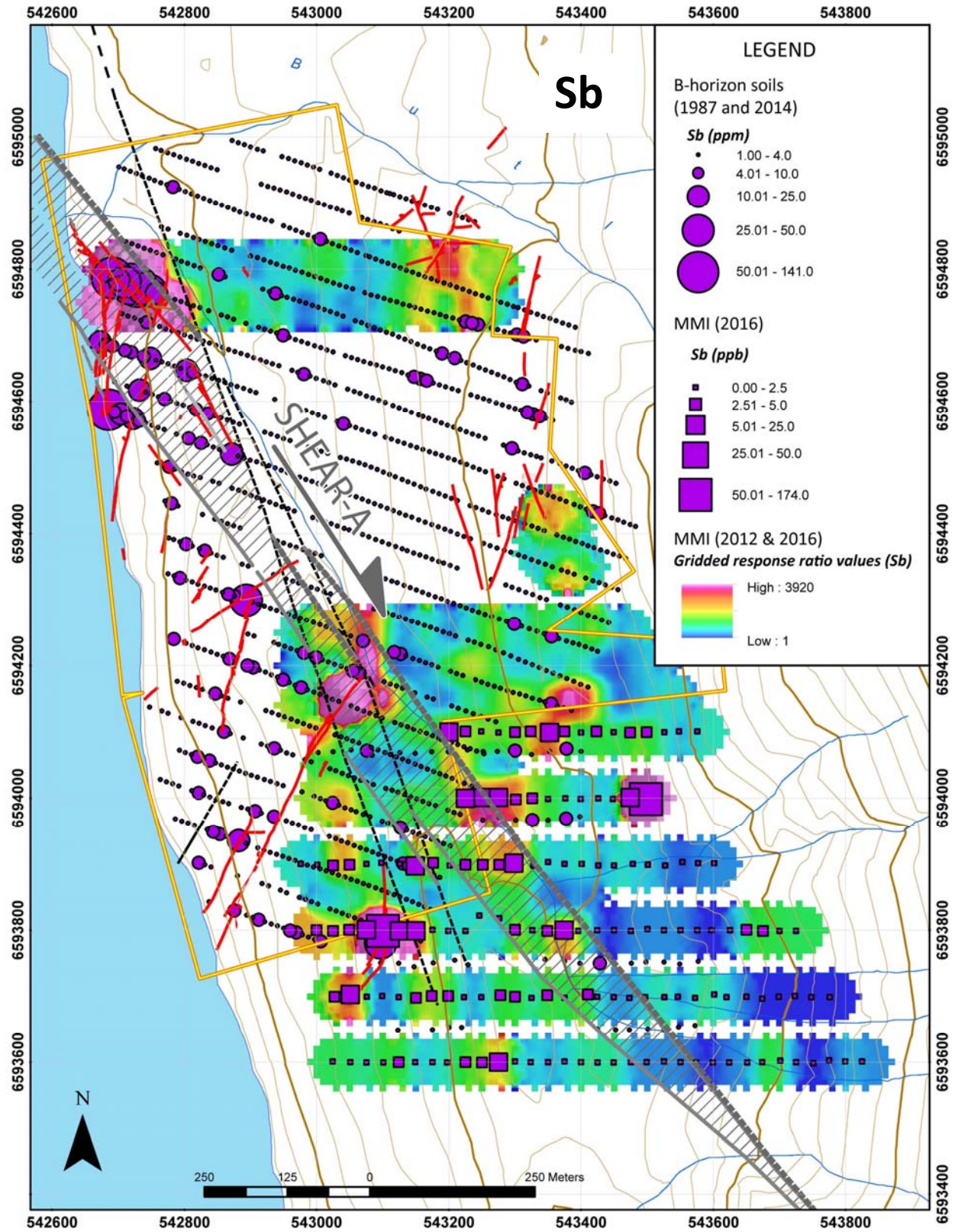


Fig. 11. Surface geochemistry map of the Engineer mine area showing antimony values in B-horizon soil and MMI surveys.

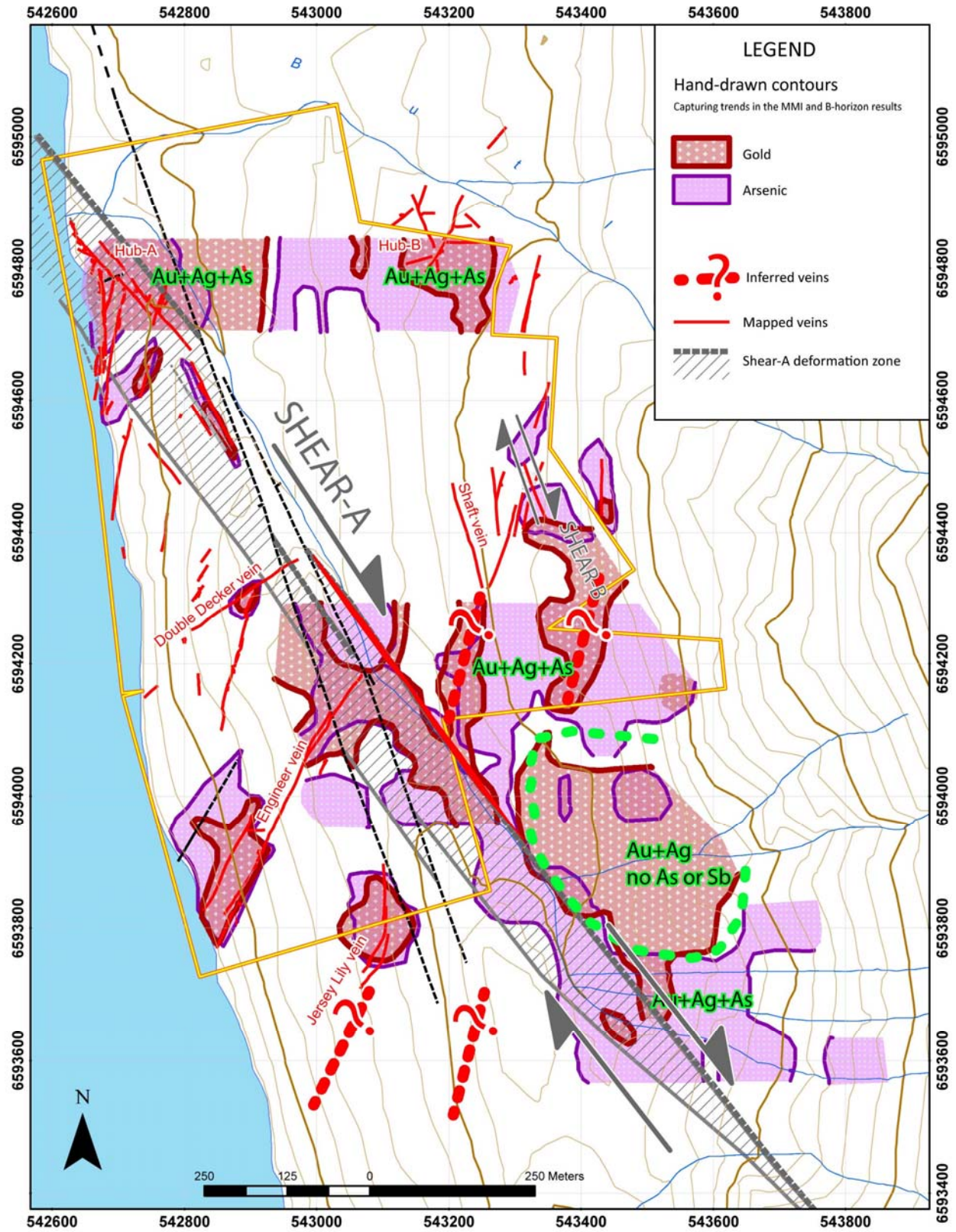


Fig. 12. Interpretation of surface geochemical trends, including the 2016 MMI survey

REFERENCES

- BCGold Corp. (2016). Website: <http://www.bcgoldcorp.com/index.php?id=74#pagetop> [October, 2016].
- Coates, B. (2010). Report on the 2010 Diamond Drilling Program at the Engineer Mine Property, Tagish Lake Area; BC Ministry of Energy and Mines Assessment Report 31909, 166 pages.
- Coates, B. (2014). Report on the 2014 Soil Sampling and Prospecting Program at the Engineer Mine Property, Tagish Lake area, British Columbia; BC Ministry of Energy and Mines Assessment Report 35053, 43 pages.
- Devine, F. (2008). Geological Report on the Engineer Property, British Columbia; Internal report for BCGold Corporation, 42 pages.
- Lang, J., Rhys, D. and Naas, C. (2003). Structure and alteration related to gold-silver veins at the Skukum Creek deposit, southern Yukon. *In: Yukon Exploration and Geology 2002*, D.S. Emond and P.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 267-280.
- Mauthner, H.F., Groat, L.A., Raudsepp, M. (1996). The Engineer Mine, Tagish Lake, British Columbia; *The Mineralogical Record*, volume 27 July-August, 1996.
- Martensson, J. and Arnholz, W. (1996). Report on the Engineer Gold Mine. Report to the Explore BC Program and BC Ministry of Energy, Mines and Petroleum Assessment Report 25357, 26 pages.
- Mihalynuk, M. (1999). Geology and Mineral Resources of the Tagish Lake Area (NTS 104M/8, 9, 10E, 15 and 104N/12W) Northwestern British Columbia; Geological Survey Branch, British Columbia Ministry of Energy and Mines, Bulletin 105, 217 pages.
- SkyTEM, (2011). SkyTEM Survey: Engineer Mountain Property, Yukon, Canada Data Report; Internal report to BCGold Corp. from SkyTEM Surveys, 74 pages.
- Smit, H. (1988). Diamond Drilling Report on the Engineer Property, Atlin Mining Division, British Columbia; BC Ministry of Energy and Mines Assessment Report 17253, 291 pages.

COST STATEMENT

<i>Item</i>	<i>Description</i>	<i>Number of days</i>	<i>Rate (incl GST)</i>	<i>Total</i>
WAGES				
Sampling crew of 4	Sampling crew	2	\$1,417.50	\$2,835.00
Fionnuala Devine	Planning and report writing	3	\$892.50	\$2,677.50
SUPPLIES				
Samples bags, field gear	All supplies for sampling provided by contractor at no charge			
TRANSPORTATION				
Discovery Helicopters Ltd.	Setouts at Engineer Mine	2		\$2,790.70
SHIPPING and ANALYTICAL				
Sample Shipping	Whitehorse to Vancouver			\$300.00
SGS MMI-ME analyses	148 samples			\$7,055.16
			TOTAL	<u>\$15,658.36</u>

STATEMENT OF QUALIFICATIONS

I, **Fionnuala Devine**, certify that:

I am a Consulting Geologist working for Merlin Geoscience Inc. The business address of Merlin Geoscience Inc. is PO Box 178, 6th Street, Atlin, BC, Canada, V0W 1A0; telephone +1 250-651-7569, email fdevine@merlingeo.com.

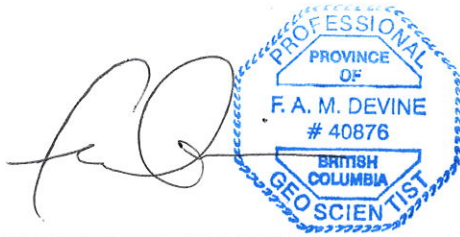
This certificate applies to the report entitled "Report on the 2016 MMI Soil Sampling Survey, Engineer Mine Property, Tagish Lake area, BC", dated October 3, 2016.

I graduated in Geological Sciences from The University of British Columbia with a Bachelor of Science degree in 2002, and completed a Master of Science degree at Carleton University in 2005.

I have been a Professional Geoscientist in good standing with the Association of Professional Engineers and Geoscientists of British Columbia since 2014.

I have worked as a geologist for a total of 10 years since my graduation from university. I have been involved in mineral exploration for base and precious metals in a variety of deposit types in North and South America during that time.

Signature date: October 3, 2016



Fionnuala A.M. Devine, M.Sc., P.Geo.

APPENDIX I

ANALYTICAL CERTIFICATES



Certificate of Analysis
Work Order : VC162629
[Report File No.: 0000019532]

Date: October 24, 2016

To: Brian Fowler
BC GOLD CORP
520-800 WEST PENDER STREET
VANCOUVER BC V6C 2V6

P.O. No.: Engineer 2016 MMI/ 148 samples (L1-4)
Project No.: -
Samples: 84
Received: Aug 18, 2016
Pages: Page 1 to 22
(Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
84	G_LOG02	Pre-preparation processing, sorting, logging, boxing
84	GE_MMI_ME	Mobile Metal ION enhanced package/ICP-MS

Storage: Pulp & Reject

REJECT STORAGE : STORE FOR 30 DAYS

Comments:

This Report cancels and supersedes the Report No.18845 dated Sept 02, 2016 issued by SGS Canada (Production Way).
Locked version is the official copy that SGS retains on file for authentication .

Certified By :

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

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
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
543200/6594100	14.6	21	10	<0.1	1320	<0.5	506	15
543225/6594100	16.8	131	70	<0.1	2340	0.7	285	13
543250/6594100	17.3	123	50	0.2	5350	<0.5	294	4
543275/6594100	52.7	99	10	<0.1	3500	<0.5	341	18
543300/6594100	18.4	142	30	<0.1	4690	0.6	242	20
543325/6594100	62.2	116	20	0.3	2190	<0.5	302	70
543350/6594100	24.9	174	60	0.3	510	0.8	65	79
543375/6594100	9.6	276	80	<0.1	1040	1.3	33	8
543400/6594100	1.3	178	30	<0.1	1240	1.7	214	31
543425/6594100	34.4	199	410	<0.1	1650	4.4	203	13
543450/6594100	16.6	132	60	<0.1	1720	0.6	288	13
543475/6594100	12.9	180	40	<0.1	430	<0.5	163	68
543500/6594100	8.5	223	80	<0.1	1070	0.7	138	37
543525/6594100	13.6	123	80	<0.1	1080	<0.5	219	18
543550/6594100	0.6	124	10	<0.1	2640	<0.5	495	555
543575/6594100	0.7	91	20	<0.1	1920	<0.5	606	212
543225/6594000	3.0	60	280	0.2	1540	2.4	265	8
543250/6594000	5.0	35	60	0.3	1120	<0.5	349	17
543275/6594000	1.5	32	130	0.3	370	<0.5	333	17
543300/6594000	2.3	41	20	0.3	840	<0.5	540	28
543325/6594000	3.3	47	20	0.5	1180	<0.5	546	48
543350/6594000	9.4	76	20	0.2	1740	<0.5	589	82
543375/6594000	13.2	192	130	0.5	2000	0.9	198	210
543400/6594000	35.1	129	20	0.9	2580	<0.5	438	134
543425/6594000	15.6	181	50	0.6	2400	0.6	286	93
543450/6594000	30.2	119	90	<0.1	1600	0.8	265	31
543475/6594000	18.4	111	520	3.5	410	<0.5	446	83
543500/6594000	433	61	7130	40.6	210	4.7	85	69
542975/6593900	<0.5	200	30	0.2	430	0.6	8	15
543000/6593900	0.7	233	10	<0.1	3970	0.8	130	27
543025/6593900	9.0	230	100	0.2	2110	1.5	60	24
543050/6593900	9.8	154	70	0.2	4980	1.2	157	3
543075/6593900	3.5	222	40	0.1	1130	<0.5	77	83
543100/6593900	10.8	137	<10	<0.1	2250	<0.5	195	11
543125/6593900	20.2	119	<10	0.2	950	<0.5	249	154
543150/6593900	10.1	312	80	<0.1	2540	2.3	61	17
543175/6593900	10.5	166	50	0.3	1510	1.5	67	4
543200/6593900	3.2	151	30	0.2	320	<0.5	16	10
543225/6593900	15.2	148	40	0.2	610	0.7	99	4
543250/6593900	10.8	254	120	0.1	1620	1.3	82	17

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
543275/6593900	19.3	251	150	<0.1	930	1.5	30	18
543300/6593900	7.0	292	220	0.1	3260	2.2	85	64
543325/6593900	18.2	95	80	1.0	950	<0.5	397	43
543350/6593900	7.3	216	70	0.1	1420	1.7	139	72
543375/6593900	23.9	69	70	2.1	1010	<0.5	433	31
543400/6593900	27.1	111	20	0.4	1080	<0.5	626	159
543425/6593900	27.5	127	20	0.4	1270	<0.5	530	55
543450/6593900	32.3	58	130	2.1	1370	<0.5	385	21
543475/6593900	3.6	124	40	0.4	1250	0.6	501	108
543500/6593900	22.1	61	120	1.6	1370	<0.5	541	86
543525/6593900	18.9	60	70	1.3	840	<0.5	542	93
543550/6593900	5.5	64	50	0.2	530	<0.5	708	152
543575/6593900	14.6	42	50	1.0	500	<0.5	451	20
543600/6593900	14.8	121	40	1.2	1080	<0.5	461	28
543000/6593800	8.3	82	<10	0.2	2930	<0.5	532	18
543025/6593800	8.5	153	40	<0.1	2530	<0.5	395	43
543050/6593800	1.6	194	40	<0.1	2480	<0.5	290	38
543075/6593800	34.0	133	560	12.2	1000	<0.5	471	112
543100/6593800	708	39	4240	353	2850	<0.5	667	27
543125/6593800	15.9	296	200	0.3	5740	2.5	148	7
543150/6593800	16.0	146	90	0.2	6130	0.9	296	12
543175/6593800	8.5	140	50	<0.1	4420	0.9	294	7
543200/6593800	6.6	150	20	0.3	1340	<0.5	22	3
543225/6593800	3.8	223	30	0.3	1560	0.9	57	10
543250/6593800	4.9	199	30	<0.1	2700	<0.5	247	274
543275/6593800	1.6	244	10	<0.1	520	<0.5	43	3
543300/6593800	16.5	273	130	<0.1	1400	2.0	52	21
543325/6593800	9.6	274	30	<0.1	1770	1.2	123	40
543350/6593800	23.0	272	100	0.1	940	1.2	58	15
543375/6593800	0.6	54	950	<0.1	150	0.8	312	25
543400/6593800	<0.5	48	3930	<0.1	120	1.0	278	27
543425/6593800	15.3	114	40	0.1	1670	<0.5	402	111
543450/6593800	34.9	121	50	0.4	1060	<0.5	414	62
543475/6593800	29.9	102	50	0.7	1220	<0.5	645	39
543500/6593800	19.3	134	40	0.2	1140	<0.5	449	68
543525/6593800	21.6	101	50	0.8	1190	<0.5	542	44
543550/6593800	13.5	100	40	0.5	610	<0.5	513	95
543575/6593800	46.6	64	50	1.4	1320	<0.5	591	53
543600/6593800	1.6	51	10	<0.1	1430	<0.5	610	569
543625/6593800	4.5	51	20	<0.1	1080	<0.5	574	453

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_ME 0.5 ppb	GE_MMI_ME 1 ppm	GE_MMI_ME 10 ppb	GE_MMI_ME 0.1 ppb	GE_MMI_ME 10 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 2 ppm	GE_MMI_ME 1 ppb
543650/6593800	17.0	118	140	<0.1	2250	0.5	342	405
543675/6593800	15.9	131	150	<0.1	950	<0.5	404	637
543700/6593800	11.9	130	130	0.4	1240	<0.5	436	701
543725/6593800	32.0	116	100	0.1	1670	<0.5	497	539
*Rep 543275/6594100	56.8	102	<10	<0.1	3460	<0.5	345	18
*Rep 543250/6594000	4.1	35	120	0.4	1040	0.9	303	16
*Rep 543050/6593900	10.0	158	70	0.2	4790	1.4	165	3
*Rep 543000/6593800	6.0	83	<10	0.2	2890	<0.5	515	21
*Rep 543250/6593800	3.9	187	30	<0.1	2920	<0.5	281	337
*Rep 543550/6593800	14.8	102	40	0.5	630	<0.5	548	88
*Std AMIS0169	8.6	49	<10	1.4	550	<0.5	34	2
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce GE_MMI_ME 2 ppb	Co GE_MMI_ME 1 ppb	Cr GE_MMI_ME 1 ppb	Cs GE_MMI_ME 0.2 ppb	Cu GE_MMI_ME 10 ppb	Dy GE_MMI_ME 0.5 ppb	Er GE_MMI_ME 0.2 ppb	Eu GE_MMI_ME 0.2 ppb
543200/6594100	39	127	14	0.5	3090	3.9	2.3	1.1
543225/6594100	149	97	59	3.0	320	16.1	8.2	3.6
543250/6594100	194	64	52	2.2	500	25.8	14.0	6.2
543275/6594100	30	90	25	2.3	180	3.1	1.7	1.0
543300/6594100	127	132	50	3.6	170	12.4	6.9	2.9
543325/6594100	58	54	11	20.7	1230	14.1	7.6	4.2
543350/6594100	238	127	28	16.7	940	38.8	20.1	8.3
543375/6594100	154	224	60	2.9	240	26.9	16.7	3.6
543400/6594100	32	438	21	1.9	90	16.4	16.8	1.6
543425/6594100	157	121	69	4.8	230	21.6	11.9	4.4
543450/6594100	74	230	37	7.3	180	9.1	5.3	1.9
543475/6594100	92	160	10	51.0	440	31.7	19.9	5.5
543500/6594100	155	207	22	7.3	450	51.1	31.6	8.3
543525/6594100	64	75	17	4.6	260	9.7	5.0	2.2
543550/6594100	33	270	17	3.8	280	10.0	8.9	2.0
543575/6594100	70	105	15	3.5	140	24.1	19.6	4.1
543225/6594000	279	144	23	1.3	770	18.9	8.6	6.0
543250/6594000	122	157	8	1.3	2500	16.0	9.3	4.3
543275/6594000	39	51	4	0.5	1240	10.8	6.3	2.6
543300/6594000	60	27	2	0.8	210	10.2	5.5	2.8
543325/6594000	31	34	5	0.8	160	8.5	5.5	1.9
543350/6594000	39	41	12	2.3	140	19.9	12.4	3.7
543375/6594000	243	155	14	3.1	210	106	70.9	14.5
543400/6594000	227	36	12	1.8	160	40.5	21.5	7.7
543425/6594000	330	92	10	2.3	250	153	98.3	25.0
543450/6594000	84	162	32	3.7	180	11.3	6.3	2.3
543475/6594000	55	247	26	21.4	910	15.6	11.0	2.5
543500/6594000	116	582	113	189	5830	60.2	39.0	10.9
542975/6593900	28	126	9	18.5	700	9.3	11.1	1.4
543000/6593900	47	200	16	13.5	390	20.4	20.9	2.2
543025/6593900	851	277	75	4.3	1070	77.8	39.3	23.0
543050/6593900	391	53	66	2.5	670	40.7	20.1	9.8
543075/6593900	187	230	23	32.8	640	34.7	19.4	7.8
543100/6593900	121	216	9	3.5	540	60.5	43.5	7.7
543125/6593900	84	72	5	13.5	1490	43.0	30.2	10.1
543150/6593900	164	113	108	6.8	400	20.0	11.8	4.0
543175/6593900	302	48	46	3.7	450	33.3	17.4	8.4
543200/6593900	323	49	23	10.0	560	64.1	35.5	12.9
543225/6593900	131	53	30	9.3	450	22.3	12.2	4.4
543250/6593900	108	226	74	12.0	290	15.8	8.7	3.9

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543275/6593900	127	121	79	9.9	450	19.2	10.5	4.0
543300/6593900	227	650	105	12.4	440	27.2	18.1	6.1
543325/6593900	292	52	13	2.4	160	40.0	17.7	12.3
543350/6593900	111	398	9	1.0	90	89.6	57.0	6.5
543375/6593900	91	17	10	2.6	270	22.6	9.6	8.7
543400/6593900	44	113	9	1.1	130	9.0	5.4	1.4
543425/6593900	129	22	7	1.0	100	26.8	14.0	5.7
543450/6593900	149	22	7	1.4	240	34.2	13.4	12.2
543475/6593900	203	77	12	1.3	40	60.0	33.4	13.2
543500/6593900	109	38	5	2.3	400	28.1	11.1	10.4
543525/6593900	44	39	6	1.7	220	15.7	7.0	5.5
543550/6593900	25	10	6	0.4	30	8.9	3.6	2.5
543575/6593900	98	7	2	1.7	270	21.0	7.8	8.9
543600/6593900	476	15	9	2.0	150	72.5	29.8	22.9
543000/6593800	98	72	13	2.0	750	83.1	65.7	9.4
543025/6593800	125	122	46	2.8	530	14.2	8.0	3.6
543050/6593800	24	563	22	11.6	880	13.6	25.9	1.7
543075/6593800	123	82	30	9.2	2490	54.6	38.7	12.5
543100/6593800	43	113	18	24.6	7460	48.3	26.6	17.4
543125/6593800	372	139	166	5.9	660	33.7	16.0	8.9
543150/6593800	226	72	64	4.0	730	20.0	10.2	6.4
543175/6593800	169	207	77	2.3	200	11.7	5.6	3.3
543200/6593800	1650	28	22	4.0	900	181	79.3	57.5
543225/6593800	216	61	48	6.8	630	35.8	18.2	7.5
543250/6593800	36	163	33	30.8	530	8.5	6.4	1.6
543275/6593800	57	213	10	7.8	80	10.8	10.8	1.0
543300/6593800	136	106	106	6.9	250	14.4	7.1	3.7
543325/6593800	69	132	37	2.0	380	20.3	12.3	3.2
543350/6593800	300	140	77	8.2	500	32.1	15.0	8.4
543375/6593800	21	43	4	0.8	210	4.2	2.8	0.5
543400/6593800	60	52	4	0.8	140	12.2	7.9	2.6
543425/6593800	105	22	10	1.1	60	11.4	5.9	2.6
543450/6593800	231	14	9	2.0	110	38.1	17.8	10.9
543475/6593800	288	36	14	0.7	100	55.3	25.9	15.4
543500/6593800	231	12	16	1.6	70	33.7	16.1	7.6
543525/6593800	174	23	13	1.1	160	67.5	27.2	21.6
543550/6593800	95	14	8	1.6	120	18.4	8.6	4.6
543575/6593800	86	14	8	0.7	250	32.2	13.3	10.6
543600/6593800	32	19	7	1.2	30	8.1	4.3	2.1
543625/6593800	10	5	6	0.9	20	2.2	1.6	0.5

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Element Method Det.Lim. Units	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	2	1	1	0.2	10	0.5	0.2	0.2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
543650/6593800	45	43	23	1.5	50	8.6	6.1	1.3
543675/6593800	116	17	21	2.1	40	12.7	9.0	2.1
543700/6593800	115	13	11	1.9	50	28.8	19.6	3.7
543725/6593800	53	18	16	1.6	30	12.1	8.4	1.8
*Rep 543275/6594100	30	87	26	2.2	190	3.2	1.7	1.0
*Rep 543250/6594000	138	164	10	1.4	2780	17.6	10.8	5.0
*Rep 543050/6593900	365	56	70	2.6	650	38.2	19.4	9.2
*Rep 543000/6593800	97	83	13	1.9	800	87.1	72.2	8.6
*Rep 543250/6593800	31	160	31	32.8	610	9.0	6.8	1.5
*Rep 543550/6593800	104	17	8	1.7	150	19.3	8.8	4.9
*Std AMIS0169	600	81	81	6.8	3710	23.9	10.6	9.4
*Blk BLANK	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb	1 ppb
543200/6594100	44	<0.5	4.7	<1	<0.1	22.4	14	64
543225/6594100	89	7.4	17.7	<1	<0.1	64.9	55	<1
543250/6594100	69	7.2	27.9	<1	<0.1	48.5	102	<1
543275/6594100	37	4.5	3.9	<1	<0.1	62.6	15	1
543300/6594100	92	8.0	13.4	<1	0.1	22.5	73	2
543325/6594100	17	2.1	15.7	<1	<0.1	35.2	30	<1
543350/6594100	66	11.5	41.5	<1	0.1	33.2	105	2
543375/6594100	132	14.3	20.7	<1	0.3	32.4	71	4
543400/6594100	181	17.0	9.5	<1	0.3	21.0	14	6
543425/6594100	117	23.8	23.0	<1	0.2	33.9	81	5
543450/6594100	36	6.9	10.1	<1	<0.1	90.1	27	2
543475/6594100	35	5.3	24.8	<1	0.1	56.0	38	<1
543500/6594100	63	8.4	39.5	<1	0.1	74.6	65	3
543525/6594100	41	6.6	10.6	<1	<0.1	40.5	27	<1
543550/6594100	55	2.4	7.4	<1	<0.1	53.9	15	<1
543575/6594100	17	1.1	19.8	<1	<0.1	68.5	32	<1
543225/6594000	160	3.8	22.1	<1	<0.1	21.2	113	2
543250/6594000	163	1.5	17.1	<1	0.1	10.4	56	7
543275/6594000	106	1.0	12.0	<1	<0.1	30.4	32	8
543300/6594000	28	0.8	12.2	<1	<0.1	4.7	27	3
543325/6594000	17	0.8	10.2	<1	<0.1	10.5	14	5
543350/6594000	13	1.0	22.0	<1	<0.1	32.7	27	6
543375/6594000	131	5.3	75.8	<1	0.3	30.0	121	7
543400/6594000	35	1.3	38.7	<1	<0.1	96.9	94	<1
543425/6594000	89	3.8	125	<1	0.2	69.0	194	3
543450/6594000	38	7.0	12.8	<1	<0.1	98.6	30	2
543475/6594000	28	1.8	14.5	<1	<0.1	74.7	23	4
543500/6594000	698	4.7	47.1	110	0.7	82.3	40	5
542975/6593900	47	9.6	5.1	<1	0.1	28.8	13	<1
543000/6593900	111	11.7	9.6	<1	0.1	45.4	19	3
543025/6593900	204	16.9	94.4	<1	0.3	43.5	416	1
543050/6593900	111	13.3	42.7	<1	0.2	19.9	165	1
543075/6593900	126	10.4	33.1	<1	0.1	37.2	77	3
543100/6593900	155	4.1	40.7	<1	<0.1	11.9	47	<1
543125/6593900	30	1.4	38.1	<1	<0.1	18.1	45	<1
543150/6593900	226	47.5	18.4	<1	0.2	17.3	88	17
543175/6593900	99	21.3	38.1	<1	0.1	6.7	165	3
543200/6593900	50	11.4	65.4	<1	0.1	14.0	148	<1
543225/6593900	62	7.9	22.1	<1	0.1	11.8	56	<1
543250/6593900	156	21.8	15.1	<1	0.3	19.7	43	2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb	1 ppb
543275/6593900	156	23.3	18.8	<1	0.3	35.1	54	3
543300/6593900	280	36.5	26.2	<1	0.3	27.1	97	6
543325/6593900	36	2.3	56.8	<1	<0.1	106	163	2
543350/6593900	143	7.1	42.6	<1	0.4	95.0	39	1
543375/6593900	19	1.0	35.9	<1	<0.1	82.8	110	<1
543400/6593900	67	1.1	7.8	<1	<0.1	55.5	17	<1
543425/6593900	39	1.6	27.5	<1	<0.1	142	61	<1
543450/6593900	21	1.4	51.6	<1	<0.1	210	175	<1
543475/6593900	86	2.3	60.5	<1	0.1	96.6	117	4
543500/6593900	16	1.1	44.5	<1	<0.1	138	110	<1
543525/6593900	16	0.8	22.7	<1	<0.1	166	42	<1
543550/6593900	17	0.8	12.4	<1	<0.1	209	24	<1
543575/6593900	16	0.7	36.9	<1	<0.1	45.3	106	<1
543600/6593900	36	2.0	101	<1	<0.1	119	285	<1
543000/6593800	39	1.2	52.8	<1	<0.1	16.9	56	<1
543025/6593800	94	7.5	15.8	<1	<0.1	29.8	58	2
543050/6593800	149	8.5	5.6	<1	0.2	24.9	10	4
543075/6593800	48	3.2	46.3	<1	<0.1	38.8	91	3
543100/6593800	23	<0.5	55.4	17	<0.1	26.2	56	3
543125/6593800	260	47.1	38.5	<1	0.3	25.1	191	14
543150/6593800	94	12.2	26.0	<1	<0.1	22.2	98	1
543175/6593800	111	11.0	13.4	<1	0.1	39.4	75	2
543200/6593800	20	9.1	237	<1	<0.1	8.5	681	<1
543225/6593800	83	13.3	32.6	<1	0.1	20.1	96	2
543250/6593800	144	9.9	6.7	<1	<0.1	68.3	18	4
543275/6593800	206	12.9	8.0	<1	0.1	28.5	26	1
543300/6593800	191	30.7	14.7	<1	0.2	20.3	62	5
543325/6593800	173	20.0	14.5	<1	0.2	16.9	32	2
543350/6593800	127	17.7	34.5	<1	0.2	14.6	121	1
543375/6593800	105	5.3	3.6	<1	0.1	8.0	7	7
543400/6593800	49	4.3	12.8	<1	0.1	31.9	26	14
543425/6593800	38	1.8	12.0	<1	<0.1	63.6	28	4
543450/6593800	24	1.4	49.4	<1	<0.1	104	105	<1
543475/6593800	23	1.1	71.2	<1	<0.1	137	197	<1
543500/6593800	34	2.5	39.2	<1	<0.1	171	77	2
543525/6593800	17	1.0	96.4	<1	<0.1	187	182	<1
543550/6593800	28	1.4	23.6	<1	<0.1	152	46	<1
543575/6593800	18	0.7	47.4	<1	<0.1	239	90	<1
543600/6593800	9	1.0	9.5	<1	<0.1	181	16	<1
543625/6593800	8	0.6	2.2	<1	<0.1	79.6	6	<1

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1	0.5	0.5	1	0.1	0.5	1	1
	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb
543650/6593800	76	3.9	7.0	<1	<0.1	122	17	1
543675/6593800	27	2.7	11.7	<1	<0.1	97.8	26	2
543700/6593800	36	1.7	24.1	<1	<0.1	170	55	<1
543725/6593800	31	2.8	10.2	<1	<0.1	108	25	<1
*Rep 543275/6594100	37	4.9	3.6	<1	<0.1	59.9	16	2
*Rep 543250/6594000	214	1.7	20.2	<1	0.2	13.5	61	7
*Rep 543050/6593900	125	14.5	38.9	<1	0.2	19.7	161	2
*Rep 543000/6593800	42	1.0	51.2	<1	<0.1	19.1	53	<1
*Rep 543250/6593800	130	9.2	6.5	<1	<0.1	67.2	16	3
*Rep 543550/6593800	30	1.3	24.3	<1	<0.1	155	51	<1
*Std AMIS0169	30	7.6	36.4	<1	<0.1	43.7	337	<1
*Blk BLANK	1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
543200/6594100	35.1	5600	103	1.6	22	309	0.1	62
543225/6594100	14.1	2300	13	2.8	70	98	2.0	300
543250/6594100	26.7	2700	8	2.2	115	118	1.4	295
543275/6594100	23.6	5300	5	1.3	15	112	3.0	125
543300/6594100	30.2	2800	4	3.1	54	186	1.0	514
543325/6594100	16.0	2000	6	<0.5	45	136	0.9	105
543350/6594100	2.8	5200	13	1.5	145	167	2.8	293
543375/6594100	13.2	300	5	2.8	85	245	2.7	596
543400/6594100	20.3	900	2	1.5	23	92	1.2	453
543425/6594100	10.0	5800	8	4.3	88	131	3.4	663
543450/6594100	18.5	12200	8	1.5	33	249	1.4	244
543475/6594100	9.5	7200	5	<0.5	61	374	1.3	328
543500/6594100	11.3	8500	4	0.7	107	287	2.7	470
543525/6594100	15.0	4500	4	0.8	36	172	1.4	219
543550/6594100	16.7	24000	3	<0.5	19	55	1.4	110
543575/6594100	37.6	13100	3	<0.5	55	57	1.2	70
543225/6594000	17.1	14500	90	1.7	147	107	1.1	141
543250/6594000	25.3	12400	108	0.6	90	244	0.3	159
543275/6594000	28.0	10800	104	<0.5	53	210	0.5	28
543300/6594000	40.0	3800	23	<0.5	48	227	0.2	111
543325/6594000	36.9	3400	13	0.7	27	295	0.2	82
543350/6594000	41.5	5800	15	<0.5	51	285	0.3	109
543375/6594000	25.3	7400	4	1.1	212	174	2.1	601
543400/6594000	44.7	3800	3	0.9	123	184	0.5	573
543425/6594000	29.3	9100	3	0.7	330	255	1.3	499
543450/6594000	9.7	10100	9	1.8	46	102	2.3	282
543475/6594000	15.5	6200	10	0.9	39	1080	0.7	102
543500/6594000	7.1	4300	15	1.0	102	1210	11.7	67
542975/6593900	2.4	700	3	1.0	16	94	0.9	318
543000/6593900	24.3	2200	<2	1.6	27	122	2.2	409
543025/6593900	6.0	24500	11	8.3	452	166	4.7	399
543050/6593900	11.5	2100	7	5.2	162	71	1.2	990
543075/6593900	5.7	21500	8	1.6	98	398	3.7	172
543100/6593900	16.7	2800	3	0.6	96	495	0.8	340
543125/6593900	13.1	8700	3	<0.5	72	545	0.4	55
543150/6593900	8.8	2300	12	11.6	77	207	4.4	536
543175/6593900	2.8	1100	15	5.4	157	114	1.3	599
543200/6593900	1.0	1200	7	1.9	234	106	1.2	619
543225/6593900	1.5	900	7	1.2	76	173	0.9	511
543250/6593900	3.7	2900	9	3.4	55	254	4.1	581

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
543275/6593900	4.5	1800	7	3.7	69	294	3.9	515
543300/6593900	7.6	5500	17	5.3	108	441	13.2	406
543325/6593900	31.0	6900	19	0.8	246	100	1.9	145
543350/6593900	23.3	1800	3	1.0	93	202	1.8	1370
543375/6593900	24.9	1700	7	<0.5	162	77	1.7	46
543400/6593900	54.7	4500	4	<0.5	23	127	0.7	213
543425/6593900	46.7	2200	5	<0.5	89	103	0.8	343
543450/6593900	40.9	2400	9	0.5	239	74	2.8	63
543475/6593900	36.7	11100	8	<0.5	194	72	1.5	463
543500/6593900	34.2	5900	8	<0.5	174	140	3.8	56
543525/6593900	52.7	5600	6	<0.5	77	109	4.1	53
543550/6593900	54.2	3200	5	<0.5	39	80	4.6	44
543575/6593900	33.8	1800	11	<0.5	179	56	2.8	22
543600/6593900	46.9	2600	32	<0.5	424	85	2.5	101
543000/6593800	19.9	4700	<2	<0.5	102	211	0.3	118
543025/6593800	23.6	6500	6	2.9	65	238	2.3	319
543050/6593800	26.4	1500	<2	1.0	16	294	1.5	147
543075/6593800	17.6	18100	5	0.8	124	385	1.5	66
543100/6593800	18.8	4800	35	<0.5	134	448	0.5	31
543125/6593800	21.0	1600	22	11.8	175	183	6.2	492
543150/6593800	30.2	3000	13	4.3	116	92	2.5	267
543175/6593800	35.5	7600	6	4.6	64	142	4.7	328
543200/6593800	<0.5	1000	9	0.9	1170	25	1.0	451
543225/6593800	5.4	2800	4	3.2	119	124	1.5	695
543250/6593800	29.2	19100	6	2.0	20	363	4.1	196
543275/6593800	9.1	800	2	1.7	35	65	7.1	34
543300/6593800	3.2	3100	9	7.3	65	121	6.7	503
543325/6593800	19.8	2700	5	4.1	43	269	5.0	459
543350/6593800	2.2	2900	14	3.6	143	171	3.9	395
543375/6593800	17.6	7400	80	0.7	12	60	0.6	259
543400/6593800	17.8	7100	50	<0.5	45	33	1.0	396
543425/6593800	35.0	9800	6	<0.5	45	92	1.7	126
543450/6593800	25.8	4700	7	<0.5	182	69	2.8	106
543475/6593800	58.6	6600	7	<0.5	278	122	0.9	166
543500/6593800	36.9	6900	14	<0.5	130	141	2.6	125
543525/6593800	37.8	3300	4	<0.5	338	80	2.1	83
543550/6593800	30.9	3000	5	<0.5	82	84	2.8	76
543575/6593800	62.4	1600	7	<0.5	177	87	1.6	38
543600/6593800	62.9	12100	5	<0.5	28	66	4.4	52
543625/6593800	38.6	2800	12	<0.5	8	106	1.0	34

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
543650/6593800	34.9	6200	5	0.6	23	125	1.7	2190
543675/6593800	42.4	10400	9	<0.5	42	125	1.0	747
543700/6593800	53.8	5600	9	<0.5	75	82	2.0	1200
543725/6593800	49.0	4700	7	<0.5	34	106	0.8	2050
*Rep 543275/6594100	22.7	4800	4	1.4	16	114	3.3	118
*Rep 543250/6594000	22.2	11500	116	0.7	102	250	0.3	180
*Rep 543050/6593900	11.7	1700	7	6.1	154	74	1.3	913
*Rep 543000/6593800	20.5	5300	<2	<0.5	97	179	0.3	120
*Rep 543250/6593800	33.4	17100	6	1.5	18	307	3.4	215
*Rep 543550/6593800	30.6	3300	5	<0.5	86	84	3.2	75
*Std AMIS0169	28.6	3500	4	2.4	318	375	2.5	89
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	0.6	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	1	<5	0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Se	Sm
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1	0.5	0.1	1	0.5	5	2	1
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
543200/6594100	<1	4.8	<0.1	21	9.7	6	34	5
543225/6594100	<1	15.5	<0.1	167	3.7	29	6	17
543250/6594100	<1	25.8	<0.1	227	2.5	37	4	27
543275/6594100	<1	3.7	<0.1	433	0.7	10	4	4
543300/6594100	<1	13.0	<0.1	311	2.9	22	3	11
543325/6594100	<1	8.6	<0.1	285	3.6	14	6	12
543350/6594100	<1	29.7	<0.1	286	8.5	44	15	37
543375/6594100	<1	19.3	<0.1	271	2.8	45	8	20
543400/6594100	<1	4.8	<0.1	149	1.8	35	4	7
543425/6594100	<1	20.7	<0.1	269	3.0	36	5	22
543450/6594100	<1	7.3	<0.1	483	1.6	15	<2	8
543475/6594100	<1	12.3	<0.1	449	3.0	24	9	18
543500/6594100	<1	21.5	<0.1	317	2.8	42	10	30
543525/6594100	<1	7.7	<0.1	289	1.7	17	5	10
543550/6594100	<1	4.3	<0.1	382	0.9	15	6	5
543575/6594100	<1	11.0	<0.1	152	2.0	10	4	15
543225/6594000	<1	33.6	<0.1	66	12.3	23	24	27
543250/6594000	<1	19.5	<0.1	31	17.4	36	80	19
543275/6594000	<1	11.0	<0.1	10	15.6	15	23	12
543300/6594000	<1	9.3	<0.1	12	4.4	6	16	11
543325/6594000	<1	5.2	<0.1	20	3.8	7	6	7
543350/6594000	<1	9.7	<0.1	73	2.4	7	4	16
543375/6594000	<1	43.5	<0.1	100	2.4	59	15	59
543400/6594000	<1	26.1	<0.1	53	1.0	40	7	32
543425/6594000	<1	68.1	<0.1	89	2.0	85	19	93
543450/6594000	<1	9.5	<0.1	278	1.1	15	3	12
543475/6594000	<1	8.3	<0.1	213	7.0	18	10	11
543500/6594000	<1	19.0	<0.1	198	174	95	50	36
542975/6593900	<1	3.8	<0.1	127	1.6	18	8	5
543000/6593900	<1	6.1	<0.1	221	0.8	28	3	7
543025/6593900	<1	111	<0.1	243	5.0	122	14	97
543050/6593900	<1	38.7	<0.1	138	4.9	80	8	39
543075/6593900	<1	21.6	<0.1	397	1.7	39	10	26
543100/6593900	<1	18.4	<0.1	85	1.3	43	9	27
543125/6593900	<1	14.6	<0.1	343	<0.5	47	8	22
543150/6593900	<1	18.9	<0.1	133	5.3	60	9	16
543175/6593900	<1	36.8	<0.1	81	3.1	62	12	35
543200/6593900	<1	50.4	<0.1	193	1.9	80	24	58
543225/6593900	<1	16.1	<0.1	250	2.7	47	8	19
543250/6593900	<1	12.7	<0.1	368	4.2	37	6	13

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Se	Sm
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1	0.5	0.1	1	0.5	5	2	1
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
543275/6593900	<1	15.0	<0.1	381	4.8	42	10	17
543300/6593900	<1	25.8	<0.1	324	6.2	61	14	27
543325/6593900	<1	52.1	<0.1	83	2.1	17	7	57
543350/6593900	<1	17.0	<0.1	55	1.3	55	9	30
543375/6593900	<1	33.5	<0.1	36	1.2	12	8	37
543400/6593900	<1	4.7	<0.1	100	2.2	23	4	6
543425/6593900	<1	18.5	<0.1	78	0.6	27	6	24
543450/6593900	<1	50.1	<0.1	33	2.4	18	6	55
543475/6593900	<1	39.5	<0.1	91	1.2	39	8	51
543500/6593900	<1	35.0	<0.1	26	1.3	7	6	44
543525/6593900	<1	14.8	<0.1	86	0.9	8	4	21
543550/6593900	<1	7.7	<0.1	100	<0.5	<5	3	11
543575/6593900	<1	35.5	<0.1	33	0.8	8	3	41
543600/6593900	<1	90.0	<0.1	83	0.8	23	12	102
543000/6593800	<1	19.9	<0.1	54	5.0	39	13	33
543025/6593800	<1	14.9	<0.1	130	4.3	21	7	15
543050/6593800	<1	3.5	<0.1	103	3.6	25	5	4
543075/6593800	<1	26.1	<0.1	175	12.3	68	12	32
543100/6593800	<1	23.2	<0.1	79	66.9	33	36	40
543125/6593800	<1	42.6	<0.1	264	10.7	71	6	39
543150/6593800	<1	25.9	<0.1	232	6.4	29	8	25
543175/6593800	<1	15.9	<0.1	333	2.3	26	5	13
543200/6593800	<1	241	<0.1	115	1.4	139	30	246
543225/6593800	<1	26.6	<0.1	231	2.0	63	11	30
543250/6593800	<1	4.6	<0.1	485	1.6	22	8	5
543275/6593800	<1	7.4	<0.1	194	<0.5	27	3	8
543300/6593800	<1	15.2	<0.1	280	4.7	46	8	15
543325/6593800	<1	9.4	<0.1	86	1.4	26	4	10
543350/6593800	<1	32.4	<0.1	211	4.3	59	8	35
543375/6593800	<1	2.5	<0.1	8	6.9	7	17	3
543400/6593800	<1	9.5	<0.1	9	1.8	9	10	12
543425/6593800	<1	9.0	<0.1	93	<0.5	11	3	11
543450/6593800	<1	36.9	<0.1	79	0.6	17	6	46
543475/6593800	<1	57.5	<0.1	89	0.9	28	12	66
543500/6593800	<1	26.4	<0.1	107	0.9	21	7	34
543525/6593800	<1	65.8	<0.1	80	0.9	16	13	87
543550/6593800	<1	16.0	<0.1	102	0.7	7	7	21
543575/6593800	<1	33.1	<0.1	44	0.5	10	8	46
543600/6593800	<1	5.4	<0.1	91	<0.5	5	8	8
543625/6593800	<1	1.6	<0.1	63	<0.5	<5	4	2

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Se	Sm
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1	0.5	0.1	1	0.5	5	2	1
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
543650/6593800	<1	5.3	<0.1	129	2.8	13	5	6
543675/6593800	<1	8.7	<0.1	189	2.9	15	6	11
543700/6593800	<1	15.8	<0.1	97	2.4	13	3	19
543725/6593800	<1	7.0	<0.1	271	2.1	9	5	8
*Rep 543275/6594100	<1	3.5	<0.1	430	0.6	8	<2	3
*Rep 543250/6594000	<1	21.6	<0.1	31	16.7	44	75	21
*Rep 543050/6593900	<1	36.5	<0.1	139	5.7	81	12	35
*Rep 543000/6593800	<1	19.2	<0.1	58	4.8	39	14	33
*Rep 543250/6593800	<1	4.0	<0.1	508	1.4	22	8	5
*Rep 543550/6593800	<1	17.4	<0.1	100	0.7	9	4	22
*Std AMIS0169	<1	80.9	0.1	243	0.6	45	12	52
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1

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Element Method Det.Lim. Units	Sn GE_MMI_ME 1 ppb	Sr GE_MMI_ME 10 ppb	Ta GE_MMI_ME 1 ppb	Tb GE_MMI_ME 0.1 ppb	Te GE_MMI_ME 10 ppb	Th GE_MMI_ME 0.5 ppb	Ti GE_MMI_ME 10 ppb	Tl GE_MMI_ME 0.1 ppb
543200/6594100	<1	2540	<1	0.7	<10	17.8	<10	<0.1
543225/6594100	<1	1270	<1	2.6	<10	38.9	460	0.2
543250/6594100	<1	1930	<1	4.1	<10	46.8	420	0.2
543275/6594100	<1	2530	<1	0.6	<10	9.4	190	0.1
543300/6594100	<1	2060	<1	1.9	<10	28.9	710	0.2
543325/6594100	<1	1000	<1	2.3	<10	13.0	80	0.3
543350/6594100	<1	110	<1	6.4	<10	41.8	450	0.2
543375/6594100	<1	410	<1	3.7	<10	54.7	800	0.2
543400/6594100	<1	1620	<1	2.0	<10	27.6	320	0.2
543425/6594100	<1	1130	<1	3.5	<10	70.3	1280	0.2
543450/6594100	<1	1150	<1	1.5	<10	19.8	430	0.2
543475/6594100	<1	560	<1	4.6	<10	22.6	90	0.1
543500/6594100	<1	820	<1	7.2	<10	51.3	200	0.3
543525/6594100	<1	870	<1	1.5	<10	21.5	180	0.1
543550/6594100	<1	2940	<1	1.3	<10	10.1	40	0.6
543575/6594100	<1	2740	<1	3.3	<10	7.9	20	0.4
543225/6594000	<1	1070	<1	3.2	<10	24.9	280	0.2
543250/6594000	<1	1860	<1	2.6	<10	22.8	50	<0.1
543275/6594000	<1	1760	<1	1.6	<10	4.4	30	0.1
543300/6594000	<1	2580	<1	1.7	<10	4.3	<10	0.1
543325/6594000	<1	2760	<1	1.4	<10	4.9	10	0.2
543350/6594000	<1	3250	<1	3.2	<10	5.7	20	0.2
543375/6594000	<1	1240	<1	14.7	10	53.0	140	0.4
543400/6594000	<1	2410	<1	6.4	<10	30.2	30	0.1
543425/6594000	<1	1950	<1	21.6	<10	54.9	70	0.3
543450/6594000	<1	1200	<1	1.8	<10	25.2	320	0.2
543475/6594000	<1	2040	<1	2.3	<10	16.9	70	0.2
543500/6594000	<1	440	<1	8.9	<10	31.3	170	2.8
542975/6593900	<1	110	<1	1.0	<10	11.8	210	0.3
543000/6593900	<1	1590	<1	2.2	<10	24.5	320	0.3
543025/6593900	<1	290	<1	13.5	<10	124	870	0.3
543050/6593900	<1	870	<1	6.9	<10	107	1710	0.4
543075/6593900	<1	290	<1	5.7	<10	31.1	370	0.3
543100/6593900	<1	1550	<1	8.1	<10	18.5	90	0.3
543125/6593900	<1	1080	<1	6.1	<10	13.9	10	0.3
543150/6593900	2	620	<1	3.2	<10	68.8	3770	0.5
543175/6593900	<1	160	<1	5.9	<10	52.1	1720	0.3
543200/6593900	<1	40	<1	10.3	<10	41.2	420	0.4
543225/6593900	<1	170	<1	3.6	<10	41.4	340	0.3
543250/6593900	<1	480	<1	2.6	<10	34.2	950	0.4

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Element Method Det.Lim. Units	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1	10	1	0.1	10	0.5	10	0.1
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
543275/6593900	<1	220	<1	3.1	<10	41.3	980	0.3
543300/6593900	<1	770	<1	4.4	<10	62.7	1230	0.5
543325/6593900	<1	1560	<1	7.7	<10	45.4	80	0.2
543350/6593900	<1	1200	<1	10.5	<10	45.4	210	0.2
543375/6593900	<1	2080	<1	4.6	<10	39.7	30	0.3
543400/6593900	<1	3670	<1	1.3	<10	11.9	<10	<0.1
543425/6593900	<1	2740	<1	4.3	<10	17.7	10	<0.1
543450/6593900	<1	1960	<1	6.4	<10	51.5	70	0.2
543475/6593900	<1	2430	<1	9.7	<10	28.4	50	0.2
543500/6593900	<1	3000	<1	5.4	<10	26.8	30	0.2
543525/6593900	<1	2550	<1	3.0	<10	16.2	20	0.2
543550/6593900	<1	3570	<1	1.6	<10	7.4	10	<0.1
543575/6593900	<1	1930	<1	4.3	<10	27.4	20	0.1
543600/6593900	<1	1960	<1	13.4	<10	39.1	30	0.1
543000/6593800	<1	4060	<1	10.5	<10	16.4	10	0.5
543025/6593800	<1	1990	<1	2.3	<10	37.9	380	0.2
543050/6593800	<1	2550	<1	1.2	<10	12.8	230	0.2
543075/6593800	<1	2570	<1	7.7	<10	25.5	170	0.3
543100/6593800	<1	4700	<1	7.9	<10	26.3	<10	0.6
543125/6593800	2	990	<1	5.7	<10	101	3540	0.8
543150/6593800	<1	1980	<1	3.4	<10	49.7	1170	0.5
543175/6593800	<1	1780	<1	2.0	<10	41.8	1040	0.2
543200/6593800	<1	90	<1	33.5	<10	64.4	300	0.4
543225/6593800	<1	340	<1	5.7	<10	57.0	1050	0.3
543250/6593800	<1	1610	<1	1.2	<10	15.7	520	0.7
543275/6593800	<1	450	<1	1.5	<10	18.9	390	0.3
543300/6593800	<1	280	<1	2.4	<10	43.0	2310	0.3
543325/6593800	<1	940	<1	2.8	<10	20.2	1190	0.2
543350/6593800	<1	190	<1	5.5	<10	74.0	770	0.4
543375/6593800	<1	1490	<1	0.6	<10	7.2	100	<0.1
543400/6593800	<1	1130	<1	2.0	<10	10.3	40	<0.1
543425/6593800	<1	1680	<1	1.9	<10	14.5	40	<0.1
543450/6593800	<1	1620	<1	6.6	<10	22.9	30	0.1
543475/6593800	<1	2670	<1	10.1	<10	44.6	<10	0.1
543500/6593800	<1	1850	<1	5.7	<10	26.1	60	0.2
543525/6593800	<1	2430	<1	12.6	<10	39.7	10	<0.1
543550/6593800	<1	2100	<1	3.3	<10	22.7	20	<0.1
543575/6593800	<1	2570	<1	6.2	<10	25.5	<10	0.1
543600/6593800	<1	3330	<1	1.4	<10	10.4	30	0.1
543625/6593800	<1	3590	<1	0.4	<10	4.2	20	0.1

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Element Method Det.Lim. Units	Sn GE_MMI_ME 1 ppb	Sr GE_MMI_ME 10 ppb	Ta GE_MMI_ME 1 ppb	Tb GE_MMI_ME 0.1 ppb	Te GE_MMI_ME 10 ppb	Th GE_MMI_ME 0.5 ppb	Ti GE_MMI_ME 10 ppb	Tl GE_MMI_ME 0.1 ppb
543650/6593800	<1	2500	<1	1.1	<10	12.5	80	<0.1
543675/6593800	<1	1760	<1	2.0	<10	33.5	60	0.2
543700/6593800	<1	2040	<1	4.1	<10	29.5	50	0.2
543725/6593800	<1	2130	<1	1.8	<10	18.1	60	<0.1
*Rep 543275/6594100	<1	2440	<1	0.6	<10	9.0	210	<0.1
*Rep 543250/6594000	<1	1630	<1	3.0	<10	27.8	70	0.1
*Rep 543050/6593900	<1	880	<1	6.2	<10	111	1860	0.3
*Rep 543000/6593800	<1	4090	<1	10.7	<10	16.4	<10	0.5
*Rep 543250/6593800	<1	1820	<1	1.1	<10	14.8	390	0.9
*Rep 543550/6593800	<1	2070	<1	3.5	<10	26.2	30	<0.1
*Std AMIS0169	<1	50	<1	4.7	<10	59.8	290	1.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1

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Element Method Det.Lim. Units	U GE_MMI_ME 0.5 ppb	V GE_MMI_ME 1 ppb	W GE_MMI_ME 0.5 ppb	Y GE_MMI_ME 1 ppb	Yb GE_MMI_ME 0.2 ppb	Zn GE_MMI_ME 10 ppb	Zr GE_MMI_ME 2 ppb
543200/6594100	490	13	0.9	22	2.1	90	<2
543225/6594100	46.2	91	1.1	72	6.8	120	18
543250/6594100	67.2	85	0.8	133	10.7	80	18
543275/6594100	12.1	29	<0.5	17	1.5	370	9
543300/6594100	17.4	78	0.7	75	5.1	140	17
543325/6594100	14.0	10	<0.5	78	5.5	400	8
543350/6594100	33.4	62	0.6	192	14.2	550	30
543375/6594100	23.7	100	0.7	130	13.5	190	28
543400/6594100	21.2	44	<0.5	103	17.8	230	9
543425/6594100	34.6	178	1.9	104	10.1	240	32
543450/6594100	23.1	57	0.6	45	4.2	230	18
543475/6594100	33.7	16	<0.5	189	14.2	420	15
543500/6594100	47.8	35	<0.5	307	23.4	570	21
543525/6594100	13.1	23	<0.5	43	4.2	90	13
543550/6594100	38.3	7	<0.5	60	8.5	4000	15
543575/6594100	37.9	19	<0.5	139	15.9	2710	4
543225/6594000	122	160	1.0	98	7.0	150	17
543250/6594000	323	17	<0.5	101	8.5	110	9
543275/6594000	659	13	<0.5	78	6.1	470	5
543300/6594000	353	1	<0.5	60	4.2	190	4
543325/6594000	167	2	<0.5	56	4.4	600	4
543350/6594000	107	4	<0.5	124	9.6	840	3
543375/6594000	76.8	32	0.6	714	51.3	5990	25
543400/6594000	60.0	5	<0.5	225	14.0	2680	16
543425/6594000	120	18	0.6	1020	72.0	2500	36
543450/6594000	24.0	72	0.7	62	5.2	810	18
543475/6594000	108	10	<0.5	97	9.1	1440	5
543500/6594000	81.4	81	0.6	268	33.1	2890	20
542975/6593900	22.9	35	<0.5	51	11.0	300	14
543000/6593900	30.7	47	<0.5	123	18.9	600	16
543025/6593900	98.6	174	1.4	394	30.6	190	88
543050/6593900	52.1	225	1.8	186	15.9	70	43
543075/6593900	29.9	63	0.5	215	14.8	900	28
543100/6593900	58.0	36	<0.5	426	31.4	120	5
543125/6593900	45.4	3	<0.5	354	22.4	230	9
543150/6593900	25.9	653	3.0	109	9.3	320	54
543175/6593900	52.9	233	1.8	193	13.4	80	35
543200/6593900	58.0	49	0.5	337	25.5	310	24
543225/6593900	33.4	56	<0.5	119	9.6	60	22
543250/6593900	17.8	219	0.7	87	7.0	480	27

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Element Method Det.Lim. Units	U	V	W	Y	Yb	Zn	Zr
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppb	1 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
543275/6593900	22.4	202	0.9	90	7.5	440	28
543300/6593900	48.9	326	1.4	143	14.4	1990	45
543325/6593900	42.4	16	<0.5	188	12.2	480	33
543350/6593900	42.7	24	<0.5	469	41.0	670	30
543375/6593900	48.3	8	<0.5	109	7.0	390	27
543400/6593900	29.2	3	<0.5	49	4.2	2590	6
543425/6593900	44.8	4	<0.5	152	10.1	610	15
543450/6593900	58.0	15	<0.5	162	9.6	440	56
543475/6593900	76.8	7	<0.5	316	26.1	3480	32
543500/6593900	44.8	7	<0.5	130	8.0	1310	15
543525/6593900	37.6	5	<0.5	78	5.3	2840	6
543550/6593900	27.8	3	<0.5	37	2.2	4180	5
543575/6593900	44.0	6	<0.5	96	5.3	540	23
543600/6593900	89.6	10	<0.5	329	20.4	570	28
543000/6593800	277	3	<0.5	537	51.8	60	4
543025/6593800	41.3	49	<0.5	85	6.3	540	14
543050/6593800	52.5	23	<0.5	92	31.2	420	8
543075/6593800	237	23	0.6	496	31.8	630	11
543100/6593800	66.7	3	<0.5	306	21.1	1330	5
543125/6593800	48.2	459	4.2	149	12.2	260	81
543150/6593800	19.5	162	2.2	104	8.0	170	28
543175/6593800	18.2	149	1.3	61	4.7	140	28
543200/6593800	73.0	20	1.0	846	54.7	50	29
543225/6593800	45.3	98	0.9	160	13.6	220	26
543250/6593800	29.0	63	<0.5	51	5.1	5190	22
543275/6593800	12.9	35	<0.5	48	15.9	180	10
543300/6593800	18.2	297	2.9	68	5.5	410	45
543325/6593800	19.8	105	0.9	129	9.0	740	27
543350/6593800	52.0	100	1.0	133	11.5	300	33
543375/6593800	1710	15	0.7	25	3.0	1770	5
543400/6593800	3130	9	1.0	67	6.6	1140	9
543425/6593800	46.2	6	<0.5	58	4.8	3660	14
543450/6593800	63.0	6	<0.5	198	12.4	1470	20
543475/6593800	89.1	3	<0.5	298	17.1	600	23
543500/6593800	54.3	11	<0.5	167	11.2	2870	26
543525/6593800	107	3	<0.5	355	19.1	920	30
543550/6593800	37.0	7	<0.5	89	6.3	1910	14
543575/6593800	81.6	3	<0.5	152	8.6	850	13
543600/6593800	26.3	5	<0.5	34	3.5	9840	9
543625/6593800	29.8	3	<0.5	14	1.3	15600	<2

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Element Method Det.Lim. Units	U	V	W	Y	Yb	Zn	Zr
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5	1	0.5	1	0.2	10	2
	ppb	ppb	ppb	ppb	ppb	ppb	ppb
543650/6593800	66.1	10	<0.5	47	6.1	13500	8
543675/6593800	101	10	<0.5	69	8.3	15400	17
543700/6593800	178	6	<0.5	177	16.7	11000	10
543725/6593800	97.7	9	<0.5	72	7.4	10100	6
*Rep 543275/6594100	11.8	30	<0.5	18	1.4	370	9
*Rep 543250/6594000	341	26	<0.5	117	9.9	180	13
*Rep 543050/6593900	51.8	250	1.9	178	14.8	70	47
*Rep 543000/6593800	285	3	<0.5	565	56.9	80	4
*Rep 543250/6593800	29.0	52	<0.5	54	5.7	6290	18
*Rep 543550/6593800	37.3	8	<0.5	94	6.1	1670	17
*Std AMIS0169	22.5	40	1.1	100	8.3	200	40
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2

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Certificate of Analysis
Work Order : VC162630
[Report File No.: 0000019533]

Date: October 24, 2016

To: Brian Fowler
BC GOLD CORP
520-800 WEST PENDER STREET
VANCOUVER BC V6C 2V6

P.O. No.: Engineer 2016 MMI/ 148 samples (L5-6)
Project No.: -
Samples: 64
Received: Aug 18, 2016
Pages: Page 1 to 15
(Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
64	G_LOG02	Pre-preparation processing, sorting, logging, boxing
64	GE_MMI_ME	Mobile Metal ION enhanced package/ICP-MS

Storage: Pulp & Reject

REJECT STORAGE : STORE FOR 30 DAYS

Comments:

This Report cancels and supersedes the Report No. 18799 dated Sept 01, 2016 issued by SGS Canada (Production Way). Locked version is the official copy that SGS retains on file for authentication .

Certified By :

John Chiang
QC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable

I.S. = Insufficient Sample
-- = 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

Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb
543025/6593700	1.6	130	<10	<0.1	1840	<0.5	406	52
543050/6593700	2.1	93	<10	0.1	1040	<0.5	705	37
543075/6593700	37.6	50	20	<0.1	2340	<0.5	470	5
543100/6593700	13.0	69	10	<0.1	1980	<0.5	572	16
543125/6593700	18.8	68	<10	0.1	5520	<0.5	629	17
543150/6593700	22.8	161	70	0.1	3120	0.9	275	4
543175/6593700	14.8	174	60	<0.1	3070	1.1	274	4
543200/6593700	12.9	165	50	<0.1	4050	0.5	335	5
543225/6593700	4.6	183	<10	0.1	900	<0.5	227	79
543250/6593700	7.2	236	40	<0.1	710	<0.5	115	96
543275/6593700	6.2	199	20	0.5	2470	0.6	13	5
543300/6593700	3.5	283	40	0.2	650	1.3	44	6
543325/6593700	7.0	186	20	0.2	320	0.6	27	10
543350/6593700	5.4	241	30	0.2	560	1.2	50	8
543375/6593700	5.5	290	50	<0.1	1680	0.5	75	47
543400/6593700	1.0	44	680	<0.1	130	<0.5	319	7
543425/6593700	3.4	166	240	<0.1	600	5.4	230	40
543450/6593700	13.4	204	160	<0.1	2450	2.3	276	99
543475/6593700	2.6	280	210	<0.1	1650	8.4	77	10
543500/6593700	28.9	289	340	0.4	1700	3.9	199	148
543525/6593700	19.2	219	360	0.1	2450	3.0	295	94
543550/6593700	2.0	50	250	<0.1	120	<0.5	562	91
543575/6593700	7.6	221	530	<0.1	740	2.5	235	101
543600/6593700	2.3	275	590	<0.1	1220	2.0	156	102
543625/6593700	2.2	207	290	<0.1	790	5.7	35	9
543650/6593700	1.4	216	50	<0.1	990	2.4	257	167
543675/6593700	6.1	205	40	<0.1	1090	0.7	184	221
543700/6593700	1.8	95	30	<0.1	260	<0.5	559	88
543725/6593700	2.0	178	30	<0.1	430	4.6	172	62
543750/6593700	7.3	268	80	<0.1	1370	1.3	81	46
543775/6593700	<0.5	181	<10	<0.1	1090	3.9	116	7
543025/6593600	23.6	140	30	<0.1	3080	<0.5	417	16
543050/6593600	28.4	107	40	<0.1	3010	<0.5	416	13
543075/6593600	21.1	139	10	0.2	3770	<0.5	355	11
543100/6593600	41.1	119	30	<0.1	4010	0.5	364	4
543125/6593600	25.9	170	70	<0.1	3630	0.9	333	4
543150/6593600	18.8	154	20	<0.1	4290	<0.5	415	10
543175/6593600	32.7	150	30	<0.1	4320	0.7	387	5
543200/6593600	8.5	168	20	<0.1	2610	<0.5	426	43
543225/6593600	9.7	206	40	0.1	1690	0.5	248	11

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Element Method Det.Lim. Units	Ag	Al	As	Au	Ba	Bi	Ca	Cd
	GE_MMI_ME 0.5 ppb	GE_MMI_ME 1 ppm	GE_MMI_ME 10 ppb	GE_MMI_ME 0.1 ppb	GE_MMI_ME 10 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 2 ppm	GE_MMI_ME 1 ppb
543250/6593600	5.7	313	50	<0.1	2350	1.4	76	34
543275/6593600	13.3	220	80	0.2	5110	1.4	123	4
543300/6593600	1.9	164	<10	<0.1	2070	<0.5	430	329
543325/6593600	9.7	188	20	0.1	1690	<0.5	198	197
543350/6593600	1.2	221	10	0.2	340	<0.5	5	15
543375/6593600	21.8	141	10	0.2	2540	<0.5	344	5
543400/6593600	9.1	190	40	<0.1	2740	1.3	254	14
543425/6593600	6.4	222	690	<0.1	1630	5.4	167	163
543450/6593600	14.1	214	570	0.1	1050	7.1	193	31
543475/6593600	16.0	205	300	<0.1	2050	3.2	333	85
543500/6593600	5.1	177	140	<0.1	2170	2.1	447	334
543525/6593600	1.4	136	120	<0.1	1450	1.6	343	380
543550/6593600	11.4	224	170	<0.1	1010	2.4	242	146
543575/6593600	8.7	182	160	<0.1	1240	1.6	279	126
543600/6593600	2.7	171	30	<0.1	1800	1.1	200	96
543625/6593600	30.3	250	260	<0.1	930	3.3	29	8
543650/6593600	8.7	266	100	<0.1	920	6.7	21	16
543675/6593600	19.3	286	520	<0.1	1460	8.7	30	14
543700/6593600	21.0	373	310	<0.1	1360	5.3	46	36
543725/6593600	5.7	158	40	<0.1	940	0.6	401	83
543750/6593600	2.1	201	20	<0.1	750	5.7	37	1
543775/6593600	12.5	218	80	<0.1	1180	1.3	170	125
543800/6593600	39.6	267	300	<0.1	1620	4.5	123	28
543825/6593600	68.5	297	250	<0.1	1020	3.9	87	28
*Rep 543025/6593700	2.5	127	10	<0.1	1650	<0.5	420	46
*Rep 543525/6593700	16.7	219	350	<0.1	2350	3.0	259	112
*Rep 543425/6593600	5.4	236	900	<0.1	2030	8.1	174	158
*Rep 543550/6593600	10.1	226	150	<0.1	1030	2.2	223	159
*Std AMIS0169	8.4	61	<10	0.4	620	<0.5	37	2
*Std AMIS0169	8.9	60	10	0.5	570	<0.5	40	2
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1
*Blk BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1

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Element Method Det.Lim. Units	Ce GE_MMI_ME 2 ppb	Co GE_MMI_ME 1 ppb	Cr GE_MMI_ME 1 ppb	Cs GE_MMI_ME 0.2 ppb	Cu GE_MMI_ME 10 ppb	Dy GE_MMI_ME 0.5 ppb	Er GE_MMI_ME 0.2 ppb	Eu GE_MMI_ME 0.2 ppb
543025/6593700	43	231	18	9.6	630	25.4	21.7	3.0
543050/6593700	22	82	15	3.5	470	18.0	13.6	2.7
543075/6593700	31	81	32	0.9	760	3.3	1.5	0.9
543100/6593700	38	141	41	1.8	570	4.2	2.3	0.9
543125/6593700	103	76	82	1.5	520	37.8	22.6	8.8
543150/6593700	132	60	87	3.3	330	11.7	6.1	2.9
543175/6593700	135	63	118	2.2	280	13.4	6.2	3.1
543200/6593700	78	73	63	2.9	220	7.9	4.3	2.0
543225/6593700	60	532	8	51.4	1360	32.0	21.7	5.9
543250/6593700	67	214	12	31.4	1650	31.4	19.6	5.7
543275/6593700	1490	60	32	4.1	1680	226	98.0	59.1
543300/6593700	251	39	69	5.9	730	42.2	20.3	8.5
543325/6593700	433	37	28	5.6	600	77.1	35.3	18.1
543350/6593700	223	21	44	5.9	660	43.7	19.6	7.9
543375/6593700	42	201	41	10.6	200	17.2	11.7	2.1
543400/6593700	95	149	3	1.9	170	6.2	3.5	1.5
543425/6593700	146	101	42	3.3	60	26.6	19.3	2.5
543450/6593700	74	84	35	2.8	110	12.4	9.4	1.7
543475/6593700	240	277	9	3.1	100	37.0	39.6	5.2
543500/6593700	823	71	21	6.9	150	132	69.7	24.5
543525/6593700	176	62	53	3.9	160	24.9	14.4	4.4
543550/6593700	35	14	20	26.2	20	7.1	4.1	1.5
543575/6593700	439	174	38	19.3	130	56.3	31.5	10.5
543600/6593700	273	195	42	5.4	130	53.6	38.7	7.5
543625/6593700	139	90	33	3.5	130	18.0	14.8	2.4
543650/6593700	21	209	10	3.9	80	14.5	21.2	0.8
543675/6593700	51	64	10	4.5	90	35.0	49.2	1.3
543700/6593700	49	24	8	4.6	20	11.1	7.5	1.2
543725/6593700	20	91	4	7.6	10	11.6	26.7	0.4
543750/6593700	74	33	16	6.8	70	21.7	29.9	1.5
543775/6593700	14	32	3	20.2	10	1.0	0.6	0.2
543025/6593600	246	144	66	1.4	780	24.6	13.5	5.8
543050/6593600	120	102	55	1.3	380	8.5	4.0	2.4
543075/6593600	221	106	55	2.4	910	36.1	19.4	8.3
543100/6593600	134	46	51	2.0	450	11.0	5.3	3.2
543125/6593600	78	58	69	3.1	230	6.4	3.1	1.8
543150/6593600	52	112	40	2.8	230	6.3	3.4	1.7
543175/6593600	96	111	45	3.3	280	8.9	4.7	2.5
543200/6593600	63	49	14	20.6	330	35.4	23.0	7.4
543225/6593600	135	62	32	10.4	560	20.9	11.0	5.3

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Element Method Det.Lim. Units	Ce GE_MMI_ME 2 ppb	Co GE_MMI_ME 1 ppb	Cr GE_MMI_ME 1 ppb	Cs GE_MMI_ME 0.2 ppb	Cu GE_MMI_ME 10 ppb	Dy GE_MMI_ME 0.5 ppb	Er GE_MMI_ME 0.2 ppb	Eu GE_MMI_ME 0.2 ppb
543250/6593600	414	127	58	7.9	580	48.0	23.5	12.7
543275/6593600	598	61	73	4.4	1090	61.2	30.3	14.8
543300/6593600	30	93	13	28.6	350	11.5	8.2	2.4
543325/6593600	122	179	15	11.9	880	38.7	25.4	9.5
543350/6593600	273	45	19	2.9	1090	96.7	49.9	19.3
543375/6593600	94	39	35	2.8	590	13.6	7.8	2.6
543400/6593600	137	87	59	7.6	350	26.3	16.4	4.6
543425/6593600	301	72	46	4.9	150	45.9	29.6	5.8
543450/6593600	383	122	29	2.2	140	38.9	21.2	7.4
543475/6593600	431	43	17	4.6	170	70.8	36.3	12.6
543500/6593600	338	71	20	3.4	120	43.5	26.3	8.2
543525/6593600	146	36	17	2.4	130	24.3	16.2	3.6
543550/6593600	391	33	16	4.4	170	80.3	44.2	12.7
543575/6593600	159	20	16	3.0	140	36.7	23.1	5.9
543600/6593600	133	47	7	9.3	80	79.9	66.0	4.3
543625/6593600	220	39	36	6.2	160	40.2	23.9	5.2
543650/6593600	155	67	31	2.6	100	29.2	24.5	2.9
543675/6593600	829	104	38	3.7	180	90.7	51.6	16.6
543700/6593600	1350	87	50	5.1	240	166	86.2	32.3
543725/6593600	125	22	13	2.8	70	39.7	28.6	5.2
543750/6593600	34	70	4	3.6	20	4.6	4.7	0.5
543775/6593600	81	43	15	3.1	140	29.3	18.5	3.5
543800/6593600	311	101	34	2.9	240	40.0	22.0	6.9
543825/6593600	302	41	22	4.0	270	59.1	32.0	8.5
*Rep 543025/6593700	47	176	19	9.3	590	23.8	19.0	3.0
*Rep 543525/6593700	171	62	50	3.3	160	26.1	15.5	4.3
*Rep 543425/6593600	340	83	52	5.6	160	42.7	29.5	6.0
*Rep 543550/6593600	355	31	15	4.0	180	81.4	46.2	12.1
*Std AMIS0169	687	86	93	7.3	3980	28.0	11.2	10.8
*Std AMIS0169	651	94	91	7.4	4420	27.0	11.3	10.6
*Blk BLANK	2	<1	1	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2
*Blk BLANK	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb	1 ppb
543025/6593700	72	2.9	14.7	<1	<0.1	40.8	19	<1
543050/6593700	19	1.3	14.6	<1	<0.1	32.1	15	<1
543075/6593700	38	1.5	4.0	<1	<0.1	115	15	<1
543100/6593700	41	2.1	4.7	<1	<0.1	46.9	13	<1
543125/6593700	22	0.8	42.3	<1	<0.1	22.7	52	2
543150/6593700	124	16.2	13.4	<1	<0.1	52.3	64	2
543175/6593700	187	14.9	14.3	<1	0.1	20.1	69	4
543200/6593700	106	9.3	8.8	<1	<0.1	33.4	38	2
543225/6593700	65	3.0	22.7	<1	<0.1	53.3	31	4
543250/6593700	95	7.0	23.9	<1	0.1	22.0	30	2
543275/6593700	46	13.6	262	<1	0.1	8.3	531	<1
543300/6593700	130	26.9	39.3	<1	0.2	8.6	117	3
543325/6593700	62	11.5	89.2	<1	0.1	8.9	179	<1
543350/6593700	93	14.4	40.2	<1	0.2	8.5	93	1
543375/6593700	170	17.0	11.0	<1	0.2	17.7	17	5
543400/6593700	34	1.6	7.8	<1	<0.1	11.7	28	13
543425/6593700	303	15.4	19.6	<1	0.6	112	57	14
543450/6593700	254	13.2	8.6	<1	0.3	46.7	34	7
543475/6593700	196	13.4	27.0	<1	0.8	34.9	129	19
543500/6593700	128	9.9	131	<1	0.4	34.6	499	6
543525/6593700	175	13.4	23.7	<1	0.3	32.4	81	7
543550/6593700	23	3.1	8.1	<1	<0.1	20.9	17	24
543575/6593700	167	10.8	57.8	<1	0.4	50.6	185	22
543600/6593700	238	11.6	40.0	<1	0.5	88.0	135	17
543625/6593700	297	16.7	13.0	<1	0.6	41.0	72	28
543650/6593700	166	14.8	4.8	<1	0.3	32.3	8	9
543675/6593700	192	11.6	10.5	<1	0.2	51.6	25	4
543700/6593700	47	3.6	9.8	<1	<0.1	20.9	16	7
543725/6593700	285	29.1	3.5	<1	0.2	81.3	10	3
543750/6593700	159	16.0	10.1	<1	0.2	67.0	42	8
543775/6593700	287	28.3	1.2	<1	0.3	40.3	7	8
543025/6593600	86	4.7	28.2	<1	<0.1	80.1	88	3
543050/6593600	74	5.9	10.0	<1	<0.1	85.3	42	2
543075/6593600	55	2.3	39.3	<1	<0.1	59.7	87	<1
543100/6593600	76	6.9	13.0	<1	<0.1	37.5	66	1
543125/6593600	93	14.5	7.2	<1	<0.1	47.3	38	2
543150/6593600	70	7.5	6.7	<1	<0.1	73.7	30	3
543175/6593600	68	8.3	10.1	<1	<0.1	84.6	52	1
543200/6593600	33	2.8	28.6	<1	<0.1	26.8	45	1
543225/6593600	85	12.1	20.7	<1	<0.1	16.0	58	3

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Element Method Det.Lim. Units	Fe	Ga	Gd	Hg	In	K	La	Li
	GE_MMI_ME 1 ppm	GE_MMI_ME 0.5 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 1 ppb	GE_MMI_ME 0.1 ppb	GE_MMI_ME 0.5 ppm	GE_MMI_ME 1 ppb	GE_MMI_ME 1 ppb
543250/6593600	141	20.5	52.3	<1	0.2	27.0	174	4
543275/6593600	110	14.6	67.5	<1	0.2	15.1	273	2
543300/6593600	43	4.2	8.7	<1	<0.1	48.8	14	3
543325/6593600	89	5.1	29.5	<1	0.1	27.5	49	<1
543350/6593600	45	10.3	83.0	<1	0.1	13.7	104	<1
543375/6593600	54	3.5	12.8	<1	<0.1	33.8	39	<1
543400/6593600	131	10.8	24.2	<1	0.1	37.4	58	5
543425/6593600	254	14.9	35.5	<1	0.6	39.0	114	11
543450/6593600	246	13.6	43.6	<1	0.5	92.3	179	3
543475/6593600	66	7.9	74.9	<1	0.2	26.4	200	3
543500/6593600	87	6.2	43.0	<1	0.2	102	140	2
543525/6593600	79	5.1	21.6	<1	0.2	148	50	3
543550/6593600	114	10.0	77.5	<1	0.3	57.1	170	7
543575/6593600	77	7.0	33.7	<1	0.2	58.7	76	3
543600/6593600	218	7.5	32.7	<1	0.3	70.3	61	2
543625/6593600	283	12.1	30.8	<1	0.6	34.9	105	<1
543650/6593600	287	21.8	19.0	<1	0.3	31.6	100	2
543675/6593600	416	16.4	87.5	1	0.8	42.8	480	7
543700/6593600	218	20.1	165	2	0.8	43.5	684	5
543725/6593600	86	5.5	34.6	<1	0.1	81.1	69	6
543750/6593600	308	20.3	3.1	<1	0.4	41.6	19	7
543775/6593600	169	12.8	19.4	<1	0.3	39.4	44	4
543800/6593600	163	19.4	36.2	<1	0.4	45.1	140	5
543825/6593600	144	15.7	46.7	1	0.6	22.2	139	3
*Rep 543025/6593700	64	3.0	15.5	<1	<0.1	34.5	21	<1
*Rep 543525/6593700	186	13.3	24.5	<1	0.3	32.3	77	5
*Rep 543425/6593600	274	18.7	34.0	<1	0.7	41.7	137	13
*Rep 543550/6593600	109	9.8	74.4	1	0.2	59.8	151	6
*Std AMIS0169	39	9.4	42.6	<1	<0.1	43.0	376	<1
*Std AMIS0169	39	8.8	41.2	<1	<0.1	46.1	377	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1
*Blk BLANK	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb
543025/6593700	21.6	12600	<2	<0.5	30	121	0.8	301
543050/6593700	23.7	3600	<2	<0.5	28	231	0.8	116
543075/6593700	26.1	1600	19	0.8	18	110	0.9	37
543100/6593700	32.0	5900	10	<0.5	18	214	0.8	100
543125/6593700	40.7	7700	5	<0.5	111	428	0.5	35
543150/6593700	19.0	1400	12	5.9	56	102	1.7	395
543175/6593700	38.4	1200	8	7.4	63	277	2.6	461
543200/6593700	32.7	1800	7	2.7	36	144	2.4	474
543225/6593700	18.7	12900	4	<0.5	45	1220	1.7	55
543250/6593700	6.3	9700	6	<0.5	48	1290	2.4	169
543275/6593700	1.1	700	7	2.5	959	32	0.7	988
543300/6593700	3.1	200	11	4.5	142	120	2.7	351
543325/6593700	0.8	600	9	1.1	300	93	0.8	523
543350/6593700	2.6	200	9	2.1	130	120	1.4	546
543375/6593700	12.5	3200	4	1.0	26	425	7.3	411
543400/6593700	15.2	25600	722	<0.5	46	50	0.6	32
543425/6593700	25.4	3100	41	6.2	69	47	5.7	1090
543450/6593700	27.5	15900	19	5.1	42	124	9.3	802
543475/6593700	20.3	4700	6	2.2	133	28	6.8	203
543500/6593700	16.3	13800	14	2.9	579	111	8.4	739
543525/6593700	26.6	12300	20	5.2	95	129	10.5	483
543550/6593700	25.1	10200	229	<0.5	28	148	1.6	75
543575/6593700	14.1	35300	46	4.2	246	86	15.7	777
543600/6593700	33.2	11200	17	5.2	154	74	13.1	559
543625/6593700	8.7	6800	13	5.0	61	49	20.2	305
543650/6593700	29.5	6000	15	1.2	11	35	2.4	953
543675/6593700	33.2	3000	16	1.1	29	152	3.8	174
543700/6593700	19.4	6800	26	0.7	25	59	1.0	311
543725/6593700	24.8	100	9	1.0	10	17	2.4	424
543750/6593700	14.3	5900	18	2.2	38	103	7.6	173
543775/6593700	19.1	2000	30	1.2	6	15	3.4	<5
543025/6593600	43.9	10400	13	1.8	114	374	2.6	181
543050/6593600	37.6	7800	10	1.8	49	179	2.8	169
543075/6593600	37.4	8500	7	<0.5	124	239	1.1	208
543100/6593600	16.6	1200	12	2.7	64	101	1.6	189
543125/6593600	13.9	2000	12	3.9	33	113	3.0	331
543150/6593600	36.8	2600	8	1.9	27	136	1.5	460
543175/6593600	24.8	5000	8	2.9	45	150	1.6	335
543200/6593600	15.1	6100	4	<0.5	68	291	1.4	145
543225/6593600	6.0	5300	9	1.7	69	121	1.9	367

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Element Method Det.Lim. Units	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb
	GE_MMI_ME 0.5 ppm	GE_MMI_ME 100 ppb	GE_MMI_ME 2 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 1 ppb	GE_MMI_ME 5 ppb	GE_MMI_ME 0.1 ppm	GE_MMI_ME 5 ppb
543250/6593600	5.3	15700	7	3.6	210	158	7.4	573
543275/6593600	7.4	2100	8	7.2	291	61	2.0	1030
543300/6593600	47.8	12600	<2	<0.5	22	451	1.3	90
543325/6593600	14.9	18500	6	<0.5	72	405	2.2	312
543350/6593600	0.8	1200	5	<0.5	232	67	1.0	633
543375/6593600	16.8	1700	6	1.1	46	114	0.9	445
543400/6593600	20.3	3300	7	2.7	76	187	2.7	623
543425/6593600	18.1	17200	11	5.6	132	131	14.1	769
543450/6593600	14.2	18300	20	5.4	204	71	13.8	968
543475/6593600	14.3	12700	7	1.5	268	93	4.8	808
543500/6593600	37.5	27400	8	0.7	167	65	4.7	566
543525/6593600	41.4	17300	8	0.6	68	65	3.1	331
543550/6593600	16.1	9000	17	1.5	251	101	9.1	735
543575/6593600	22.9	10100	10	0.9	106	114	3.7	434
543600/6593600	31.7	2800	3	0.8	82	37	3.7	302
543625/6593600	4.1	400	6	6.2	110	117	7.6	1040
543650/6593600	3.3	5400	11	5.3	73	63	21.3	738
543675/6593600	4.4	7900	13	6.2	432	78	39.8	690
543700/6593600	4.5	10200	11	6.1	758	76	27.9	843
543725/6593600	33.9	8300	7	0.9	98	97	2.8	180
543750/6593600	4.4	3800	<2	2.2	15	18	4.2	26
543775/6593600	24.6	7300	8	1.4	50	102	7.1	397
543800/6593600	14.0	15300	11	4.5	150	133	15.0	763
543825/6593600	10.2	4600	7	2.3	159	86	8.9	1340
*Rep 543025/6593700	19.3	11200	2	<0.5	32	167	0.9	297
*Rep 543525/6593700	25.5	12300	15	4.4	91	133	9.7	554
*Rep 543425/6593600	18.7	18300	13	7.3	139	112	17.6	630
*Rep 543550/6593600	17.4	8800	13	1.2	223	94	8.9	725
*Std AMIS0169	30.8	3900	4	3.0	348	398	2.6	108
*Std AMIS0169	31.9	3900	4	2.8	353	406	2.9	101
*Blk BLANK	<0.5	<100	<2	<0.5	1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	<0.1	<5
*Blk BLANK	<0.5	<100	<2	<0.5	<1	<5	0.1	<5

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Se	Sm
	GE_MMI_ME 1 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 0.1 ppb	GE_MMI_ME 1 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 5 ppb	GE_MMI_ME 2 ppb	GE_MMI_ME 1 ppb
543025/6593700	<1	5.9	<0.1	190	2.7	49	7	9
543050/6593700	<1	5.4	<0.1	70	9.3	12	6	9
543075/6593700	<1	3.9	<0.1	261	0.8	6	3	4
543100/6593700	<1	4.1	<0.1	309	1.0	9	6	4
543125/6593700	<1	21.1	<0.1	65	1.1	46	13	33
543150/6593700	<1	14.1	<0.1	272	4.2	30	5	12
543175/6593700	<1	16.0	<0.1	219	3.6	39	7	14
543200/6593700	<1	8.6	<0.1	345	2.6	18	4	8
543225/6593700	<1	8.6	<0.1	402	0.9	30	10	14
543250/6593700	<1	9.3	<0.1	337	1.3	35	12	15
543275/6593700	<1	200	<0.1	118	2.7	220	33	256
543300/6593700	<1	31.5	<0.1	105	2.6	54	15	36
543325/6593700	<1	63.9	<0.1	107	1.4	73	22	83
543350/6593700	<1	27.4	<0.1	132	3.1	55	18	35
543375/6593700	<1	5.5	<0.1	233	1.8	33	9	8
543400/6593700	<1	9.9	<0.1	35	3.7	5	27	9
543425/6593700	<1	15.7	<0.1	129	1.3	64	10	16
543450/6593700	<1	7.5	<0.1	132	0.9	37	7	8
543475/6593700	<1	32.0	<0.1	119	1.0	99	4	28
543500/6593700	<1	134	<0.1	153	1.9	119	20	133
543525/6593700	<1	21.4	<0.1	203	2.1	52	12	22
543550/6593700	<1	5.7	<0.1	97	0.6	<5	18	7
543575/6593700	<1	55.0	<0.1	394	2.2	73	16	58
543600/6593700	<1	35.3	<0.1	59	1.7	84	14	38
543625/6593700	<1	15.4	<0.1	211	1.5	67	6	13
543650/6593700	<1	2.3	<0.1	121	<0.5	33	3	4
543675/6593700	<1	6.6	<0.1	112	<0.5	33	7	8
543700/6593700	<1	5.4	<0.1	69	<0.5	11	5	8
543725/6593700	<1	2.5	<0.1	97	<0.5	20	3	3
543750/6593700	<1	9.0	<0.1	319	0.6	40	10	8
543775/6593700	<1	1.4	<0.1	80	<0.5	15	<2	1
543025/6593600	<1	25.2	<0.1	180	2.4	40	6	26
543050/6593600	<1	11.1	<0.1	254	2.1	17	5	10
543075/6593600	<1	27.2	<0.1	244	1.6	48	9	33
543100/6593600	<1	15.1	<0.1	421	2.5	19	6	13
543125/6593600	<1	8.9	<0.1	459	3.0	17	4	7
543150/6593600	<1	7.1	<0.1	365	1.1	12	4	6
543175/6593600	<1	10.9	<0.1	418	1.9	13	<2	10
543200/6593600	<1	13.7	<0.1	407	1.7	47	6	19
543225/6593600	<1	15.3	<0.1	225	3.1	23	10	18

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Element Method Det.Lim. Units	Pd	Pr	Pt	Rb	Sb	Sc	Se	Sm
	GE_MMI_ME 1 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 0.1 ppb	GE_MMI_ME 1 ppb	GE_MMI_ME 0.5 ppb	GE_MMI_ME 5 ppb	GE_MMI_ME 2 ppb	GE_MMI_ME 1 ppb
543250/6593600	<1	48.2	<0.1	298	2.8	67	11	49
543275/6593600	<1	68.0	<0.1	154	6.6	119	16	65
543300/6593600	<1	4.3	<0.1	380	<0.5	22	4	7
543325/6593600	<1	14.3	<0.1	159	1.9	37	12	21
543350/6593600	<1	43.1	<0.1	64	1.0	87	21	65
543375/6593600	<1	10.2	<0.1	179	1.4	21	7	11
543400/6593600	<1	17.4	<0.1	184	2.1	39	7	20
543425/6593600	<1	29.8	<0.1	244	2.0	93	7	32
543450/6593600	<1	46.3	<0.1	52	2.2	69	7	46
543475/6593600	<1	58.2	<0.1	123	1.0	50	14	68
543500/6593600	<1	38.5	<0.1	250	0.9	65	9	41
543525/6593600	<1	14.8	<0.1	145	0.7	39	4	18
543550/6593600	<1	53.0	<0.1	155	0.9	70	16	67
543575/6593600	<1	21.9	<0.1	84	0.5	41	5	28
543600/6593600	<1	17.9	<0.1	164	<0.5	46	11	23
543625/6593600	<1	25.5	<0.1	139	0.7	41	3	28
543650/6593600	<1	17.4	<0.1	116	0.8	63	7	16
543675/6593600	<1	105	<0.1	184	2.5	148	15	93
543700/6593600	<1	184	<0.1	122	2.1	172	28	177
543725/6593600	<1	20.5	<0.1	108	<0.5	34	7	27
543750/6593600	<1	3.8	<0.1	128	<0.5	52	<2	3
543775/6593600	<1	10.6	<0.1	256	<0.5	53	9	14
543800/6593600	<1	34.0	<0.1	168	1.3	80	9	35
543825/6593600	<1	36.8	<0.1	186	1.0	61	9	40
*Rep 543025/6593700	<1	6.4	<0.1	181	2.8	47	8	10
*Rep 543525/6593700	<1	20.3	<0.1	183	1.9	54	6	22
*Rep 543425/6593600	<1	33.7	<0.1	211	2.6	98	9	33
*Rep 543550/6593600	<1	48.5	<0.1	155	0.7	71	10	63
*Std AMIS0169	<1	90.6	0.1	243	0.6	50	16	60
*Std AMIS0169	<1	91.5	<0.1	262	0.6	50	15	57
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	3	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1
*Blk BLANK	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1

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Element Method Det.Lim. Units	Sn GE_MMI_ME 1 ppb	Sr GE_MMI_ME 10 ppb	Ta GE_MMI_ME 1 ppb	Tb GE_MMI_ME 0.1 ppb	Te GE_MMI_ME 10 ppb	Th GE_MMI_ME 0.5 ppb	Ti GE_MMI_ME 10 ppb	Tl GE_MMI_ME 0.1 ppb
543025/6593700	<1	2530	<1	3.0	<10	24.8	30	0.2
543050/6593700	<1	3580	<1	2.3	<10	6.6	30	0.1
543075/6593700	<1	2320	<1	0.5	<10	16.0	80	<0.1
543100/6593700	<1	2860	<1	0.7	<10	19.2	50	<0.1
543125/6593700	<1	3300	<1	6.1	<10	58.9	<10	0.2
543150/6593700	<1	1660	<1	2.0	<10	43.8	1790	0.3
543175/6593700	<1	1700	<1	2.1	<10	45.1	1600	0.3
543200/6593700	<1	1950	<1	1.3	<10	29.7	750	0.1
543225/6593700	<1	1390	<1	4.2	<10	9.6	30	0.3
543250/6593700	<1	670	<1	4.3	<10	20.4	90	0.4
543275/6593700	<1	90	<1	39.4	<10	122	1020	0.4
543300/6593700	<1	190	<1	6.5	<10	75.4	1500	0.4
543325/6593700	<1	60	<1	13.1	<10	49.7	460	0.4
543350/6593700	<1	160	<1	7.0	<10	64.5	800	0.4
543375/6593700	<1	790	<1	2.2	<10	22.2	330	0.4
543400/6593700	<1	1380	<1	1.1	<10	18.7	20	0.2
543425/6593700	<1	1160	<1	3.6	<10	113	880	0.2
543450/6593700	<1	1920	<1	1.7	<10	63.3	720	0.4
543475/6593700	<1	660	<1	4.8	<10	96.4	370	0.6
543500/6593700	<1	1160	<1	21.3	<10	222	470	0.9
543525/6593700	<1	1300	<1	4.0	<10	101	890	0.4
543550/6593700	<1	2320	<1	1.3	<10	19.1	50	0.2
543575/6593700	<1	900	<1	9.4	<10	168	580	0.5
543600/6593700	<1	1300	<1	7.8	<10	222	620	0.3
543625/6593700	<1	230	<1	2.4	<10	82.2	700	0.4
543650/6593700	<1	1990	<1	1.3	<10	77.3	340	0.3
543675/6593700	<1	1500	<1	2.8	<10	74.9	300	0.3
543700/6593700	<1	2690	<1	1.6	<10	25.2	80	0.2
543725/6593700	<1	1090	<1	0.9	<10	24.5	280	<0.1
543750/6593700	<1	700	<1	2.1	<10	100	510	0.3
543775/6593700	<1	860	<1	0.2	<10	10.9	140	0.5
543025/6593600	<1	1890	<1	4.3	<10	58.7	310	0.1
543050/6593600	<1	2370	<1	1.4	<10	36.6	370	0.1
543075/6593600	<1	2440	<1	5.7	<10	45.9	110	0.2
543100/6593600	<1	2070	<1	1.9	<10	40.9	780	0.2
543125/6593600	<1	2030	<1	1.1	<10	27.7	1200	0.1
543150/6593600	<1	2460	<1	1.0	<10	14.9	510	<0.1
543175/6593600	<1	1870	<1	1.5	<10	28.8	710	0.1
543200/6593600	<1	2050	<1	4.8	<10	18.4	50	0.3
543225/6593600	<1	780	<1	3.4	<10	31.4	560	0.3

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Element Method Det.Lim. Units	Sn GE_MMI_ME 1 ppb	Sr GE_MMI_ME 10 ppb	Ta GE_MMI_ME 1 ppb	Tb GE_MMI_ME 0.1 ppb	Te GE_MMI_ME 10 ppb	Th GE_MMI_ME 0.5 ppb	Ti GE_MMI_ME 10 ppb	Tl GE_MMI_ME 0.1 ppb
543250/6593600	<1	320	<1	7.9	<10	107	1090	0.3
543275/6593600	<1	660	<1	10.4	<10	118	2780	0.5
543300/6593600	<1	2140	<1	1.6	<10	4.9	90	0.3
543325/6593600	<1	1190	<1	5.2	<10	22.9	130	0.3
543350/6593600	<1	50	<1	14.5	<10	53.0	240	0.3
543375/6593600	<1	1490	<1	2.2	<10	47.5	240	0.3
543400/6593600	<1	1280	<1	4.0	<10	62.7	590	0.3
543425/6593600	<1	1090	<1	6.4	<10	186	840	0.7
543450/6593600	<1	660	<1	6.4	<10	121	810	0.2
543475/6593600	<1	1330	<1	11.2	<10	96.5	380	0.5
543500/6593600	<1	1670	<1	6.8	<10	78.9	210	0.3
543525/6593600	<1	1740	<1	3.7	<10	41.5	240	0.3
543550/6593600	<1	920	<1	12.3	<10	114	350	0.3
543575/6593600	<1	1050	<1	5.7	<10	70.0	280	0.3
543600/6593600	<1	1690	<1	8.2	<10	53.2	250	0.3
543625/6593600	<1	330	<1	5.7	<10	111	570	0.3
543650/6593600	<1	180	<1	3.9	<10	57.5	920	0.5
543675/6593600	<1	190	<1	14.2	<10	234	940	0.5
543700/6593600	<1	260	<1	26.2	<10	392	930	0.8
543725/6593600	<1	2580	<1	5.7	<10	51.4	170	0.4
543750/6593600	<1	500	<1	0.6	<10	16.4	310	0.2
543775/6593600	<1	1440	<1	3.7	<10	64.9	330	0.2
543800/6593600	<1	750	<1	6.6	<10	189	1030	0.3
543825/6593600	<1	650	<1	8.7	<10	154	610	0.3
*Rep 543025/6593700	<1	2350	<1	2.9	<10	25.0	20	0.2
*Rep 543525/6593700	<1	1260	<1	4.0	<10	101	790	0.4
*Rep 543425/6593600	1	1180	<1	5.9	<10	199	1130	0.7
*Rep 543550/6593600	<1	950	<1	12.2	<10	106	330	0.3
*Std AMIS0169	<1	70	<1	5.2	<10	69.7	350	1.3
*Std AMIS0169	<1	60	<1	5.0	<10	65.0	380	1.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1
*Blk BLANK	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1

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Element Method Det.Lim. Units	U GE_MMI_ME 0.5 ppb	V GE_MMI_ME 1 ppb	W GE_MMI_ME 0.5 ppb	Y GE_MMI_ME 1 ppb	Yb GE_MMI_ME 0.2 ppb	Zn GE_MMI_ME 10 ppb	Zr GE_MMI_ME 2 ppb
543025/6593700	120	8	<0.5	183	19.1	140	17
543050/6593700	152	8	0.5	140	11.8	110	5
543075/6593700	25.4	21	<0.5	15	1.3	20	6
543100/6593700	45.0	10	<0.5	20	2.1	140	5
543125/6593700	213	<1	<0.5	216	19.4	60	10
543150/6593700	13.7	200	2.2	54	4.6	60	29
543175/6593700	16.2	210	1.5	64	5.3	80	30
543200/6593700	11.4	100	1.0	39	3.5	70	18
543225/6593700	29.9	5	<0.5	203	15.6	850	13
543250/6593700	38.9	14	<0.5	199	15.1	430	24
543275/6593700	102	47	1.4	823	76.8	60	51
543300/6593700	65.7	167	1.9	190	14.0	120	42
543325/6593700	53.3	43	<0.5	330	25.8	170	23
543350/6593700	41.5	105	1.1	187	13.7	50	31
543375/6593700	43.7	49	<0.5	92	9.2	1260	14
543400/6593700	3080	6	2.6	35	3.2	140	3
543425/6593700	102	65	1.8	141	20.0	900	27
543450/6593700	59.7	44	1.2	82	8.5	5150	24
543475/6593700	92.5	20	1.1	213	90.2	530	34
543500/6593700	292	30	1.6	643	54.0	11300	67
543525/6593700	89.1	77	2.5	147	12.5	3950	43
543550/6593700	12600	9	1.4	43	3.3	3740	4
543575/6593700	1540	40	2.1	281	26.8	5470	42
543600/6593700	1990	38	1.6	286	36.0	13300	47
543625/6593700	522	46	1.6	89	19.5	1610	24
543650/6593700	143	21	<0.5	95	24.8	9570	17
543675/6593700	49.8	21	0.6	277	47.4	17200	18
543700/6593700	127	5	<0.5	68	6.5	1490	6
543725/6593700	60.8	9	<0.5	85	42.3	4210	8
543750/6593700	63.6	41	1.1	149	35.0	18500	32
543775/6593700	8.6	9	1.8	6	0.8	370	4
543025/6593600	53.4	62	0.7	128	10.9	280	23
543050/6593600	22.5	76	0.9	41	3.3	200	12
543075/6593600	66.0	19	<0.5	204	15.4	90	11
543100/6593600	18.6	95	1.0	60	4.2	60	20
543125/6593600	11.8	194	1.8	32	2.7	90	20
543150/6593600	12.8	56	<0.5	36	2.7	130	11
543175/6593600	18.3	84	1.2	49	4.1	140	21
543200/6593600	69.6	10	0.6	240	17.7	50	19
543225/6593600	28.2	73	1.1	109	8.4	120	26

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Element Method Det.Lim. Units	U	V	W	Y	Yb	Zn	Zr
	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME	GE_MMI_ME
	0.5 ppb	1 ppb	0.5 ppb	1 ppb	0.2 ppb	10 ppb	2 ppb
543250/6593600	50.5	109	1.5	236	20.0	350	61
543275/6593600	41.7	170	2.7	339	23.2	120	65
543300/6593600	29.3	13	<0.5	83	6.2	5120	18
543325/6593600	45.5	21	<0.5	263	20.4	780	13
543350/6593600	62.2	22	0.5	484	34.0	120	20
543375/6593600	17.6	33	0.5	66	6.5	70	12
543400/6593600	32.0	99	1.3	163	13.6	810	23
543425/6593600	154	83	2.6	240	25.2	9270	74
543450/6593600	59.7	59	2.0	225	16.2	1490	62
543475/6593600	98.4	30	1.1	433	28.4	3120	66
543500/6593600	114	21	0.6	243	20.7	8050	57
543525/6593600	106	22	0.7	136	13.9	11400	32
543550/6593600	116	29	1.1	432	34.1	4710	55
543575/6593600	92.8	27	0.6	225	19.2	7310	37
543600/6593600	58.7	14	0.6	457	49.0	13700	18
543625/6593600	43.5	27	0.9	198	20.8	270	31
543650/6593600	27.5	34	1.1	176	23.6	1620	26
543675/6593600	111	51	2.0	445	46.1	1440	94
543700/6593600	150	48	1.9	794	68.2	1560	108
543725/6593600	147	16	0.8	270	24.1	10500	29
543750/6593600	15.8	12	<0.5	21	16.0	90	13
543775/6593600	52.0	28	1.0	174	14.9	6180	27
543800/6593600	73.3	75	2.3	193	16.4	1250	72
543825/6593600	74.3	57	1.3	317	22.7	670	50
*Rep 543025/6593700	118	8	<0.5	170	16.6	110	16
*Rep 543525/6593700	92.6	67	2.1	157	13.9	4650	39
*Rep 543425/6593600	154	106	3.6	228	27.5	8690	84
*Rep 543550/6593600	120	27	1.2	454	35.5	5260	53
*Std AMIS0169	24.7	38	1.3	110	9.9	190	48
*Std AMIS0169	24.3	45	1.4	120	8.9	220	46
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2
*Blk BLANK	<0.5	<1	<0.5	<1	<0.2	<10	<2

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APPENDIX II

Results of the 2016 MMI survey (Table)

UTM83-E	UTM83-N	Line	ANALYTE DETECTION UNITS	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg
				0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb	2 ppb	1 ppb	1 ppb	0.2 ppb	10 ppb	1 ppb	0.2 ppb	10 ppb	0.5 ppb	0.2 ppb	0.2 ppm	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm
543027	6593700	6593700	543025/6593700	1.6	130	<10	<0.1	1840	<0.5	406	52	43	231	18	9.6	630	25.4	21.7	3	72	2.9	14.7	<1	<0.1	40.8	19	<1	21.6
543051	6593703	6593700	543050/6593700	2.1	93	<10	0.1	1040	<0.5	705	37	22	82	15	3.5	470	18	13.6	2.7	19	1.3	14.6	<1	<0.1	32.1	15	<1	23.7
543076	6593700	6593700	543075/6593700	37.6	50	20	<0.1	2340	<0.5	470	5	31	81	32	0.9	760	3.3	1.5	0.9	38	1.5	4	<1	<0.1	115	15	<1	26.1
543099	6593701	6593700	543100/6593700	13	69	10	<0.1	1980	<0.5	572	16	38	141	41	1.8	570	4.2	2.3	0.9	41	2.1	4.7	<1	<0.1	46.9	13	<1	32
543124	6593699	6593700	543125/6593700	18.8	68	<10	0.1	5520	<0.5	629	17	103	76	82	1.5	520	37.8	22.6	8.8	22	0.8	42.3	<1	<0.1	22.7	52	2	40.7
543150	6593698	6593700	543150/6593700	22.8	161	70	0.1	3120	0.9	275	4	132	60	87	3.3	330	11.7	6.1	2.9	124	16.2	13.4	<1	<0.1	52.3	64	2	19
543174	6593701	6593700	543175/6593700	14.8	174	60	<0.1	3070	1.1	274	4	135	63	118	2.2	280	13.4	6.2	3.1	187	14.9	14.3	<1	0.1	20.1	69	4	38.4
543199	6593701	6593700	543200/6593700	12.9	165	50	<0.1	4050	0.5	335	5	78	73	63	2.9	220	7.9	4.3	2	106	9.3	8.8	<1	<0.1	33.4	38	2	32.7
543223	6593699	6593700	543225/6593700	4.6	183	<10	0.1	900	<0.5	227	79	60	532	8	51.4	1360	32	21.7	5.9	65	3	22.7	<1	<0.1	53.3	31	4	18.7
543249	6593699	6593700	543250/6593700	7.2	236	40	<0.1	710	<0.5	115	96	67	214	12	31.4	1650	31.4	19.6	5.7	95	7	23.9	<1	0.1	22	30	2	6.3
543278	6593702	6593700	543275/6593700	6.2	199	20	0.5	2470	0.6	13	5	1490	60	32	4.1	1680	226	98	59.1	46	13.6	262	<1	0.1	8.3	531	<1	1.1
543300	6593700	6593700	543300/6593700	3.5	283	40	0.2	650	1.3	44	6	251	39	69	5.9	730	42.2	20.3	8.5	130	26.9	39.3	<1	0.2	8.6	117	3	3.1
543325	6593698	6593700	543325/6593700	7	186	20	0.2	320	0.6	27	10	433	37	28	5.6	600	77.1	35.3	18.1	62	11.5	89.2	<1	0.1	8.9	179	<1	0.8
543349	6593702	6593700	543350/6593700	5.4	241	30	0.2	560	1.2	50	8	223	21	44	5.9	660	43.7	19.6	7.9	93	14.4	40.2	<1	0.2	8.5	93	1	2.6
543375	6593698	6593700	543375/6593700	5.5	290	50	<0.1	1680	0.5	75	47	42	201	41	10.6	200	17.2	11.7	2.1	170	17	11	<1	0.2	17.7	17	5	12.5
543410	6593703	6593700	543400/6593700	1	44	680	<0.1	130	<0.5	319	7	95	149	3	1.9	170	6.2	3.5	1.5	34	1.6	7.8	<1	<0.1	11.7	28	13	15.2
543424	6593700	6593700	543425/6593700	3.4	166	240	<0.1	600	5.4	230	40	146	101	42	3.3	60	26.6	19.3	2.5	303	15.4	19.6	<1	0.6	112	57	14	25.4
543449	6593699	6593700	543450/6593700	13.4	204	160	<0.1	2450	2.3	276	99	74	84	35	2.8	110	12.4	9.4	1.7	254	13.2	8.6	<1	0.3	46.7	34	7	27.5
543473	6593698	6593700	543475/6593700	2.6	280	210	<0.1	1650	8.4	77	10	240	277	9	3.1	100	37	39.6	5.2	196	13.4	27	<1	0.8	34.9	129	19	20.3
543497	6593699	6593700	543500/6593700	28.9	289	340	0.4	1700	3.9	199	148	823	71	21	6.9	150	132	69.7	24.5	128	9.9	131	<1	0.4	34.6	499	6	16.3
543526	6593699	6593700	543525/6593700	19.2	219	360	0.1	2450	3	295	94	176	62	53	3.9	160	24.9	14.4	4.4	175	13.4	23.7	<1	0.3	32.4	81	7	26.6
543546	6593700	6593700	543550/6593700	2	50	250	<0.1	120	<0.5	562	91	35	14	20	26.2	20	7.1	4.1	1.5	23	3.1	8.1	<1	<0.1	20.9	17	24	25.1
543572	6593698	6593700	543575/6593700	7.6	221	530	<0.1	740	2.5	235	101	439	174	38	19.3	130	56.3	31.5	10.5	167	10.8	57.8	<1	0.4	50.6	185	22	14.1
543601	6593703	6593700	543600/6593700	2.3	275	590	<0.1	1220	2	156	102	273	195	42	5.4	130	53.6	38.7	7.5	238	11.6	40	<1	0.5	88	135	17	33.2
543620	6593699	6593700	543625/6593700	2.2	207	290	<0.1	790	5.7	35	9	139	90	33	3.5	130	18	14.8	2.4	297	16.7	13	<1	0.6	41	72	28	8.7
543650	6593700	6593700	543650/6593700	1.4	216	50	<0.1	990	2.4	257	167	21	209	10	3.9	80	14.5	21.2	0.8	166	14.8	4.8	<1	0.3	32.3	8	9	29.5
543674	6593697	6593700	543675/6593700	6.1	205	40	<0.1	1090	0.7	184	221	51	64	10	4.5	90	35	49.2	1.3	192	11.6	10.5	<1	0.2	51.6	25	4	33.2
543699	6593700	6593700	543700/6593700	1.8	95	30	<0.1	260	<0.5	559	88	49	24	8	4.6	20	11.1	7.5	1.2	47	3.6	9.8	<1	<0.1	20.9	16	7	19.4
543723	6593701	6593700	543725/6593700	2	178	30	<0.1	430	4.6	172	62	20	91	4	7.6	10	11.6	26.7	0.4	285	29.1	3.5	<1	0.2	81.3	10	3	24.8
543748	6593699	6593700	543750/6593700	7.3	268	80	<0.1	1370	1.3	81	46	74	33	16	6.8	70	21.7	29.9	1.5	159	16	10.1	<1	0.2	67	42	8	14.3
543776	6593699	6593700	543775/6593700	<0.5	181	<10	<0.1	1090	3.9	116	7	14	32	3	20.2	10	1	0.6	0.2	287	28.3	1.2	<1	0.3	40.3	7	8	19.1
543024	6593601	6593600	543025/6593600	23.6	140	30	<0.1	3080	<0.5	417	16	246	144	66	1.4	780	24.6	13.5	5.8	86	4.7	28.2	<1	<0.1	80.1	88	3	43.9
543051	6593600	6593600	543050/6593600	28.4	107	40	<0.1	3010	<0.5	416	13	120	102	55	1.3	380	8.5	4	2.4	74	5.9	10	<1	<0.1	85.3	42	2	37.6
543075	6593599	6593600	543075/6593600	21.1	139	10	0.2	3770	<0.5	355	11	221	106	55	2.4	910	36.1	19.4	8.3	55	2.3	39.3	<1	<0.1	59.7	87	<1	37.4
543101	6593599	6593600	543100/6593600	41.1	119	30	<0.1	4010	0.5	364	4	134	46	51	2	450	11	5.3	3.2	76	6.9	13	<1	<0.1	37.5	66	1	16.6
543124	6593600	6593600	543125/6593600	25.9	170	70	<0.1	3630	0.9	333	4	78	58	69	3.1	230	6.4	3.1	1.8	93	14.5	7.2	<1	<0.1	47.3	38	2	13.9
543149	6593600	6593600	543150/6593600	18.8	154	20	<0.1	4290	<0.5	415	10	52	112	40	2.8	230	6.3	3.4	1.7	70	7.5	6.7	<1	<0.1	73.7	30	3	36.8
543175	6593600	6593600	543175/6593600	32.7	150	30	<0.1	4320	0.7	387	5	96	111	45	3.3	280	8.9	4.7	2.5	68	8.3	10.1	<1	<0.1	84.6	52	1	24.8
543197	6593599	6593600	543200/6593600	8.5	168	20	<0.1	2610	<0.5	426	43	63	49	14	20.6	330	35.4	23	7.4	33	2.8	28.6	<1	<0.1	26.8	45	1	15.1
543225	6593600	6593600	543225/6593600	9.7	206	40	0.1	1690	0.5	248	11	135	62	32	10.4	560	20.9	11	5.3	85	12.1	20.7	<1	<0.1	16	58	3	6
543250	6593599	6593600	543250/6593600	5.7	313	50	<0.1	2350	1.4	76	34	414	127	58	7.9	580	48	23.5	12.7	141	20.5	52.3	<1	0.2	27	174	4	5.3
543275	6593600	6593600	543275/6593600	13.3	220	80	0.2	5110	1.4	123	4	598	61	73	4.4	1090	61.2	30.3	14.8	110	14.6	67.5	<1	0.2	15.1	273	2	7.4
543300	6593601	6593600	543300/6593600	1.9	164	<10	<0.1	2070	<0.5	430	329	30	93	13	28.6	350	11.5	8.2	2.4	43	4.2	8.7	<1	<0.1	48.8	14	3	47.8
543324	6593600	6593600	543325/6593600	9.7	188	20	0.1	1690	<0.5	198	197	122	179	15	11.9	880	38.7	25.4	9.5	89	5.1	29.5	<1	0.1	27.5	49	<1	14.9
543350	6593600	6593600	543350/6593600	1.2	221	10	0.2	340	<0.5	5	15	273	45	19	2.9	1090	96.7	49.9	19.3	45	10.3	83	<1	0.1	13.7	104	<1	0.8
543375	6593601	6593600	543375/6593600	21.8	141	10	0.2	2540	<0.5	344</																		

UTM83-E	UTM83-N	Line	ANALYTE DETECTION UNITS	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg
				0.5 ppb	1 ppm	10 ppb	0.1 ppb	10 ppb	0.5 ppb	2 ppm	1 ppb	2 ppb	1 ppb	1 ppb	0.2 ppb	10 ppb	1 ppb	0.2 ppb	10 ppb	0.5 ppb	0.2 ppb	0.2 ppm	1 ppb	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm
543249	6594101	6594100	543250/6594100	17.3	123	50	0.2	5350	<0.5	294	4	194	64	52	2.2	500	25.8	14	6.2	69	7.2	27.9	<1	<0.1	48.5	102	<1	26.7
543275	6594099	6594100	543275/6594100	52.7	99	10	<0.1	3500	<0.5	341	18	30	90	25	2.3	180	3.1	1.7	1	37	4.5	3.9	<1	<0.1	62.6	15	1	23.6
543300	6594100	6594100	543300/6594100	18.4	142	30	<0.1	4690	0.6	242	20	127	132	50	3.6	170	12.4	6.9	2.9	92	8	13.4	<1	0.1	22.5	73	2	30.2
543324	6594101	6594100	543325/6594100	62.2	116	20	0.3	2190	<0.5	302	70	58	54	11	20.7	1230	14.1	7.6	4.2	17	2.1	15.7	<1	<0.1	35.2	30	<1	16
543352	6594099	6594100	543350/6594100	24.9	174	60	0.3	510	0.8	65	79	238	127	28	16.7	940	38.8	20.1	8.3	66	11.5	41.5	<1	0.1	33.2	105	2	2.8
543375	6594101	6594100	543375/6594100	9.6	276	80	<0.1	1040	1.3	33	8	154	224	60	2.9	240	26.9	16.7	3.6	132	14.3	20.7	<1	0.3	32.4	71	4	13.2
543400	6594099	6594100	543400/6594100	1.3	178	30	<0.1	1240	1.7	214	31	32	438	21	1.9	90	16.4	16.8	1.6	181	17	9.5	<1	0.3	21	14	6	20.3
543423	6594101	6594100	543425/6594100	34.4	199	410	<0.1	1650	4.4	203	13	157	121	69	4.8	230	21.6	11.9	4.4	117	23.8	23	<1	0.2	33.9	81	5	10
543449	6594100	6594100	543450/6594100	16.6	132	60	<0.1	1720	0.6	288	13	74	230	37	7.3	180	9.1	5.3	1.9	36	6.9	10.1	<1	<0.1	90.1	27	2	18.5
543474	6594099	6594100	543475/6594100	12.9	180	40	<0.1	430	<0.5	163	68	92	160	10	5.1	440	31.7	19.9	5.5	35	5.3	24.8	<1	0.1	56	38	<1	9.5
543499	6594100	6594100	543500/6594100	8.5	223	80	<0.1	1070	0.7	138	37	155	207	22	7.3	450	51.1	31.6	8.3	63	8.4	39.5	<1	0.1	74.6	65	3	11.3
543526	6594100	6594100	543525/6594100	13.6	123	80	<0.1	1080	<0.5	219	18	64	75	17	4.6	260	9.7	5	2.2	41	6.6	10.6	<1	<0.1	40.5	27	<1	15
543548	6594101	6594100	543550/6594100	0.6	124	10	<0.1	2640	<0.5	495	555	33	270	17	3.8	280	10	8.9	2	55	2.4	7.4	<1	<0.1	53.9	15	<1	16.7
543576	6594101	6594100	543575/6594100	0.7	91	20	<0.1	1920	<0.5	606	212	70	105	15	3.5	140	24.1	19.6	4.1	17	1.1	19.8	<1	<0.1	68.5	32	<1	37.6
543225	6594000	6594000	543225/6594000	3	60	280	0.2	1540	2.4	265	8	279	144	23	1.3	770	18.9	8.6	6	160	3.8	22.1	<1	<0.1	21.2	113	2	17.1
543250	6594001	6594000	543250/6594000	5	35	60	0.3	1120	<0.5	349	17	122	157	8	1.3	2500	16	9.3	4.3	163	1.5	17.1	<1	0.1	10.4	56	7	25.3
543275	6594001	6594000	543275/6594000	1.5	32	130	0.3	370	<0.5	333	17	39	51	4	0.5	1240	10.8	6.3	2.6	106	1	12	<1	<0.1	30.4	32	8	28
543301	6593998	6594000	543300/6594000	2.3	41	20	0.3	840	<0.5	540	28	60	27	2	0.8	210	10.2	5.5	2.8	28	0.8	12.2	<1	<0.1	4.7	27	3	40
543326	6594000	6594000	543325/6594000	3.3	47	20	0.5	1180	<0.5	546	48	31	34	5	0.8	160	8.5	5.5	1.9	17	0.8	10.2	<1	<0.1	10.5	14	5	36.9
543350	6593999	6594000	543350/6594000	9.4	76	20	0.2	1740	<0.5	589	82	39	41	12	2.3	140	19.9	12.4	3.7	13	1	22	<1	<0.1	32.7	27	6	41.5
543376	6594000	6594000	543375/6594000	13.2	192	130	0.5	2000	0.9	198	210	243	155	14	3.1	210	106	70.9	14.5	131	5.3	75.8	<1	0.3	30	121	7	25.3
543399	6593999	6594000	543400/6594000	35.1	129	20	0.9	2580	<0.5	438	134	227	36	12	1.8	160	40.5	21.5	7.7	35	1.3	38.7	<1	<0.1	96.9	94	<1	44.7
543426	6594000	6594000	543425/6594000	15.6	181	50	0.6	2400	0.6	286	93	330	92	10	2.3	250	153	98.3	25	89	3.8	125	<1	0.2	69	194	3	29.3
543448	6593999	6594000	543450/6594000	30.2	119	90	<0.1	1600	0.8	265	31	84	162	32	3.7	180	11.3	6.3	2.3	38	7	12.8	<1	<0.1	98.6	30	2	9.7
543474	6594001	6594000	543475/6594000	18.4	111	520	3.5	410	<0.5	446	83	55	247	26	21.4	910	15.6	11	2.5	28	1.8	14.5	<1	<0.1	74.7	23	4	15.5
543498	6593999	6594000	543498/6594000	433	61	7130	40.6	210	4.7	85	69	116	582	113	189	5830	60.2	39	10.9	698	4.7	47.1	110	0.7	82.3	40	5	7.1
542976	6593900	6593900	542975/6593900	<0.5	200	30	<0.2	430	0.6	8	15	28	126	9	18.5	700	9.3	11.1	1.4	47	9.6	5.1	<1	0.1	28.8	13	<1	2.4
543001	6593899	6593900	543000/6593900	0.7	233	10	<0.1	3970	0.8	130	27	47	200	16	13.5	390	20.4	20.9	2.2	111	11.7	9.6	<1	0.1	45.4	19	3	24.3
543025	6593898	6593900	543025/6593900	9	230	100	0.2	2110	1.5	60	24	851	277	75	4.3	1070	77.8	39.3	23	204	16.9	94.4	<1	0.3	43.5	416	1	6
543050	6593899	6593900	543050/6593900	9.8	154	70	0.2	4980	1.2	157	3	391	53	66	2.5	670	40.7	20.1	9.8	111	13.3	42.7	<1	0.2	19.9	165	1	11.5
543075	6593900	6593900	543075/6593900	3.5	222	40	0.1	1130	<0.5	77	83	187	230	23	32.8	640	34.7	19.4	7.8	126	10.4	33.1	<1	0.1	37.2	77	3	5.7
543098	6593902	6593900	543100/6593900	10.8	137	<10	<0.1	2250	<0.5	195	11	121	216	9	3.5	540	60.5	43.5	7.7	155	4.1	40.7	<1	<0.1	11.9	47	<1	16.7
543126	6593900	6593900	543125/6593900	20.2	119	<10	0.2	950	<0.5	249	154	84	72	5	13.5	1490	43	30.2	10.1	30	1.4	38.1	<1	<0.1	18.1	45	<1	13.1
543149	6593897	6593900	543150/6593900	10.1	312	80	<0.1	2540	2.3	61	17	164	113	108	6.8	400	20	11.8	4	226	47.5	18.4	<1	0.2	17.3	88	17	8.8
543176	6593902	6593900	543175/6593900	10.5	166	50	0.3	1510	1.5	67	4	302	48	46	3.7	450	33.3	17.4	8.4	99	21.3	38.1	<1	0.1	6.7	165	3	2.8
543201	6593898	6593900	543200/6593900	3.2	151	30	0.2	320	<0.5	16	10	323	49	23	10	560	64.1	35.5	12.9	50	11.4	65.4	<1	0.1	14	148	<1	1
543225	6593899	6593900	543225/6593900	15.2	148	40	0.2	610	0.7	99	4	131	53	30	9.3	450	22.3	12.2	4.4	62	7.9	22.1	<1	0.1	11.8	56	<1	1.5
543251	6593899	6593900	543250/6593900	10.8	254	120	0.1	1620	1.3	82	17	108	226	74	12	290	15.8	8.7	3.9	156	21.8	15.1	<1	0.3	19.7	43	2	3.7
543276	6593899	6593900	543275/6593900	19.3	251	150	<0.1	930	1.5	30	18	127	121	79	9.9	450	19.2	10.5	4	156	23.3	18.8	<1	0.3	35.1	54	3	4.5
543298	6593901	6593900	543300/6593900	7	292	220	0.1	3260	2.2	85	64	227	650	105	12.4	440	27.2	18.1	6.1	280	36.5	26.2	<1	0.3	27.1	97	6	7.6
543328	6593898	6593900	543325/6593900	18.2	95	80	1	950	<0.5	397	43	292	52	13	2.4	160	40	17.7	12.3	36	2.3	56.8	<1	<0.1	106	163	2	31
543350	6593903	6593900	543350/6593900	7.3	216	70	0.1	1420	1.7	139	72	111	398	9	1	90	89.6	57	6.5	143	7.1	42.6	<1	0.4	95	39	1	23.3
543375	6593900	6593900	543375/6593900	23.9	69	70	2.1	1010	<0.5	433	31	91	17	10	2.6	270	22.6	9.6	8.7	19	1	35.9	<1	<0.1	82.8	110	<1	24.9
543401	6593900	6593900	543400/6593900	27.1	111	20	0.4	1080	<0.5	626	159	44	113	9	1.1	130	9	5.4	1.4	67	1.1	7.8	<1	<0.1	55.5	17	<1	54.7
543426	6593898	6593900	543425/6593900	27.5	127	20	0.4	1270	<0.5	530	55	129	22	7	1	100	26.8	14	5.7	39	1.6	27.5	<1	<0.1	142	61	<1	46.7
543450	6593898	6593900	543450/6593900	32.3	58	130	2.1	1370	<0.5	385	21																	

		ANALYTE	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	
		DETECTION	0.5	1	10	0.1	10	0.5	2	1	2	1	1	0.2	10	0.5	0.2	0.2	1	0.5	0.5	1	0.1	0.5	1	1	0.5	
UTM83-E	UTM83-N	Line	UNITS	ppb	ppm	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	
543349	6593799	6593800	543350/6593800	23	272	100	0.1	940	1.2	58	15	300	140	77	8.2	500	32.1	15	8.4	127	17.7	34.5	<1	0.2	14.6	121	1	2.2
543374	6593800	6593800	543375/6593800	0.6	54	950	<0.1	150	0.8	312	25	21	43	4	0.8	210	4.2	2.8	0.5	105	5.3	3.6	<1	0.1	8	7	7	17.6
543396	6593799	6593800	543400/6593800	<0.5	48	3930	<0.1	120	1	278	27	60	52	4	0.8	140	12.2	7.9	2.6	49	4.3	12.8	<1	0.1	31.9	26	14	17.8
543424	6593800	6593800	543425/6593800	15.3	114	40	0.1	1670	<0.5	402	111	105	22	10	1.1	60	11.4	5.9	2.6	38	1.8	12	<1	<0.1	63.6	28	4	35
543450	6593800	6593800	543450/6593800	34.9	121	50	0.4	1060	<0.5	414	62	231	14	9	2	110	38.1	17.8	10.9	24	1.4	49.4	<1	<0.1	104	105	<1	25.8
543475	6593799	6593800	543475/6593800	29.9	102	50	0.7	1220	<0.5	645	39	288	36	14	0.7	100	55.3	25.9	15.4	23	1.1	71.2	<1	<0.1	137	197	<1	58.6
543500	6593802	6593800	543500/6593800	19.3	134	40	0.2	1140	<0.5	449	68	231	12	16	1.6	70	33.7	16.1	7.6	34	2.5	39.2	<1	<0.1	171	77	2	36.9
543525	6593800	6593800	543525/6593800	21.6	101	50	0.8	1190	<0.5	542	44	174	23	13	1.1	160	67.5	27.2	21.6	17	1	96.4	<1	<0.1	187	182	<1	37.8
543550	6593800	6593800	543550/6593800	13.5	100	40	0.5	610	<0.5	513	95	95	14	8	1.6	120	18.4	8.6	4.6	28	1.4	23.6	<1	<0.1	152	46	<1	30.9
543576	6593800	6593800	543575/6593800	46.6	64	50	1.4	1320	<0.5	591	53	86	14	8	0.7	250	32.2	13.3	10.6	18	0.7	47.4	<1	<0.1	239	90	<1	62.4
543597	6593800	6593800	543600/6593800	1.6	51	10	<0.1	1430	<0.5	610	569	32	19	7	1.2	30	8.1	4.3	2.1	9	1	9.5	<1	<0.1	181	16	<1	62.9
543625	6593800	6593800	543625/6593800	4.5	51	20	<0.1	1080	<0.5	574	453	10	5	6	0.9	20	2.2	1.6	0.5	8	0.6	2.2	<1	<0.1	79.6	6	<1	38.6
543650	6593801	6593800	543650/6593800	17	118	140	<0.1	2250	0.5	342	405	45	43	23	1.5	50	8.6	6.1	1.3	76	3.9	7	<1	<0.1	122	17	1	34.9
543675	6593799	6593800	543675/6593800	15.9	131	150	<0.1	950	<0.5	404	637	116	17	21	2.1	40	12.7	9	2.1	27	2.7	11.7	<1	<0.1	97.8	26	2	42.4
543700	6593799	6593800	543700/6593800	11.9	130	130	0.4	1240	<0.5	436	701	115	13	11	1.9	50	28.8	19.6	3.7	36	1.7	24.1	<1	<0.1	170	55	<1	53.8
543725	6593799	6593800	543725/6593800	32	116	100	0.1	1670	<0.5	497	539	53	18	16	1.6	30	12.1	8.4	1.8	31	2.8	10.2	<1	<0.1	108	25	<1	49
			REP-543275/6594100	56.8	102	<10	<0.1	3460	<0.5	345	18	30	87	26	2.2	190	3.2	1.7	1	37	4.9	3.6	<1	<0.1	59.9	16	2	22.7
			REP-543250/6594000	4.1	35	120	0.4	1040	0.9	303	16	138	164	10	1.4	2780	17.6	10.8	5	214	1.7	20.2	<1	0.2	13.5	61	7	22.2
			REP-543050/6593900	10	158	70	0.2	4790	1.4	165	3	365	56	70	2.6	650	38.2	19.4	9.2	125	14.5	38.9	<1	0.2	19.7	161	2	11.7
			REP-543000/6593800	6	83	<10	0.2	2890	<0.5	515	21	97	83	13	1.9	800	87.1	72.2	8.6	42	1	51.2	<1	<0.1	19.1	53	<1	20.5
			REP-543250/6593800	3.9	187	30	<0.1	2920	<0.5	281	337	31	160	31	32.8	610	9	6.8	1.5	130	9.2	6.5	<1	<0.1	67.2	16	3	33.4
			REP-543550/6593800	14.8	102	40	0.5	630	<0.5	548	88	104	17	8	1.7	150	19.3	8.8	4.9	30	1.3	24.3	<1	<0.1	155	51	<1	30.6
			AMISO169	8.6	49	<10	1.4	550	<0.5	34	2	600	81	81	6.8	3710	23.9	10.6	9.4	30	7.6	36.4	<1	<0.1	43.7	337	<1	28.6
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2	1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5
			REP-543025/6593700	2.5	127	10	<0.1	1650	<0.5	420	46	47	176	19	9.3	590	23.8	19	3	64	3	15.5	<1	<0.1	34.5	21	<1	19.3
			REP-543525/6593700	16.7	219	350	<0.1	2350	3	259	112	171	62	50	3.3	160	26.1	15.5	4.3	186	13.3	24.5	<1	0.3	32.3	77	5	25.5
			REP-543425/6593600	5.4	236	900	<0.1	2030	8.1	174	158	340	83	52	5.6	160	42.7	29.5	6	274	18.7	34	<1	0.7	41.7	137	13	18.7
			REP-543550/6593600	10.1	226	150	<0.1	1030	2.2	223	159	355	31	15	4	180	81.4	46.2	12.1	109	9.8	74.4	1	0.2	59.8	151	6	17.4
			AMISO169	8.4	61	<10	0.4	620	<0.5	37	2	687	86	93	7.3	3980	28	11.2	10.8	39	9.4	42.6	<1	<0.1	43	376	<1	30.8
			AMISO169	8.9	60	10	0.5	570	<0.5	40	2	651	94	91	7.4	4420	27	11.3	10.6	39	8.8	41.2	<1	<0.1	46.1	377	<1	31.9
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	2	<1	1	<0.2	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2	1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5
			BLANK	<0.5	<1	<10	<0.1	<10	<0.5	<2	<1	<2	<1	<1	<0.2	<10	<0.5	<0.2	<0.2	<1	<0.5	<0.5	<1	<0.1	<0.5	<1	<1	<0.5

ANALYTE DETECTION UNITS	Mn 100 ppb	Mo 2 ppb	Nb 0.5 ppb	Nd 1 ppb	Ni 5 ppb	P 0.1 ppm	Pb 5 ppb	Pd 1 ppb	Pr 0.5 ppb	Pt 0.1 ppb	Rb 1 ppb	Sb 0.5 ppb	Sc 5 ppb	Se 2 ppb	Sm 1 ppb	Sn 1 ppb	Sr 10 ppb	Ta 1 ppb	Tb 0.1 ppb	Te 10 ppb	Th 0.5 ppb	Ti 10 ppb	Tl 0.1 ppb	U 0.5 ppb	V 1 ppb	W 0.5 ppb	Y 1 ppb	Yb 0.2 ppb	Zn 10 ppb	Zr 2 ppb
543025/6593700	12600	<2	<0.5	30	121	0.8	301	<1	5.9	<0.1	190	2.7	49	7	9	<1	2530	<1	3	<10	24.8	30	0.2	120	8	<0.5	183	19.1	140	17
543050/6593700	3600	<2	<0.5	28	231	0.8	116	<1	5.4	<0.1	70	9.3	12	6	9	<1	3580	<1	2.3	<10	6.6	30	0.1	152	8	0.5	140	11.8	110	5
543075/6593700	1600	19	0.8	18	110	0.9	37	<1	3.9	<0.1	261	0.8	6	3	4	<1	2320	<1	0.5	<10	16	80	<0.1	25.4	21	<0.5	15	1.3	20	6
543100/6593700	5900	10	<0.5	18	214	0.8	100	<1	4.1	<0.1	309	1	9	6	4	<1	2860	<1	0.7	<10	19.2	50	<0.1	45	10	<0.5	20	2.1	140	5
543125/6593700	7700	5	<0.5	111	428	0.5	35	<1	21.1	<0.1	65	1.1	46	13	33	<1	3300	<1	6.1	<10	58.9	<10	0.2	213	<1	<0.5	216	19.4	60	10
543150/6593700	1400	12	5.9	56	102	1.7	395	<1	14.1	<0.1	272	4.2	30	5	12	<1	1660	<1	2	<10	43.8	1790	0.3	13.7	200	2.2	54	4.6	60	29
543175/6593700	1200	8	7.4	63	277	2.6	461	<1	16	<0.1	219	3.6	39	7	14	<1	1700	<1	2.1	<10	45.1	1600	0.3	16.2	210	1.5	64	5.3	80	30
543200/6593700	1800	7	2.7	36	144	2.4	474	<1	8.6	<0.1	345	2.6	18	4	8	<1	1950	<1	1.3	<10	29.7	750	0.1	11.4	100	1	39	5.5	70	18
543225/6593700	12900	4	<0.5	45	1220	1.7	55	<1	8.6	<0.1	402	0.9	30	10	14	<1	1390	<1	4.2	<10	9.6	30	0.3	29.9	5	<0.5	203	15.6	850	13
543250/6593700	9700	6	<0.5	48	1290	2.4	169	<1	9.3	<0.1	337	1.3	35	12	15	<1	670	<1	4.3	<10	20.4	90	0.4	38.9	14	<0.5	199	15.1	430	24
543275/6593700	700	7	2.5	959	32	0.7	988	<1	200	<0.1	118	2.7	220	33	256	<1	90	<1	39.4	<10	122	1020	0.4	102	47	1.4	823	76.8	60	51
543300/6593700	200	11	4.5	142	120	2.7	351	<1	31.5	<0.1	105	2.6	54	15	36	<1	190	<1	6.5	<10	75.4	1500	0.4	65.7	167	1.9	190	14	120	42
543325/6593700	600	9	1.1	300	93	0.8	523	<1	63.9	<0.1	107	1.4	73	22	83	<1	60	<1	13.1	<10	49.7	460	0.4	53.3	43	<0.5	330	25.8	170	23
543350/6593700	200	9	2.1	130	120	1.4	546	<1	27.4	<0.1	132	3.1	55	18	35	<1	160	<1	7	<10	64.5	800	0.4	41.5	105	1.1	187	13.7	50	31
543375/6593700	3200	4	1	26	425	7.3	411	<1	5.5	<0.1	233	1.8	33	9	8	<1	790	<1	2.2	<10	22.2	330	0.4	43.7	49	<0.5	92	9.2	1260	14
543400/6593700	25600	722	<0.5	46	50	0.6	32	<1	9.9	<0.1	35	3.7	5	27	9	<1	1380	<1	1.1	<10	18.7	20	0.2	3080	6	2.6	35	3.2	140	3
543425/6593700	3100	41	6.2	69	47	5.7	1090	<1	15.7	<0.1	129	1.3	64	10	16	<1	1160	<1	3.6	<10	113	880	0.2	102	65	1.8	141	20	900	27
543450/6593700	15900	19	5.1	42	124	9.3	802	<1	7.5	<0.1	132	0.9	37	7	8	<1	1920	<1	1.7	<10	63.3	720	0.4	59.7	44	1.2	82	8.5	5150	24
543475/6593700	4700	6	2.2	133	28	6.8	203	<1	32	<0.1	119	1	99	4	28	<1	660	<1	4.8	<10	96.4	370	0.6	92.5	20	1.1	213	90.2	530	34
543500/6593700	13800	14	2.9	579	111	8.4	739	<1	134	<0.1	153	1.9	119	20	133	<1	1160	<1	21.3	<10	222	470	0.9	292	30	1.6	643	54	11300	67
543525/6593700	12300	20	5.2	95	129	10.5	483	<1	21.4	<0.1	203	2.1	52	12	22	<1	1300	<1	4	<10	101	890	0.4	89.1	77	2.5	147	12.5	3950	43
543550/6593700	10200	229	<0.5	28	148	1.6	75	<1	5.7	<0.1	97	0.6	<5	18	7	<1	2320	<1	1.3	<10	19.1	50	0.2	12600	9	1.4	43	3.3	3740	4
543575/6593700	35300	46	4.2	246	86	15.7	777	<1	55	<0.1	394	2.2	73	16	58	<1	900	<1	9.4	<10	168	580	0.5	1540	40	2.1	281	26.8	5470	42
543600/6593700	11200	17	5.2	154	74	13.1	559	<1	35.3	<0.1	59	1.7	84	14	38	<1	1300	<1	7.8	<10	222	620	0.3	1990	38	1.6	286	36	13300	47
543625/6593700	6800	13	5	61	49	20.2	305	<1	15.4	<0.1	211	1.5	67	6	13	<1	230	<1	2.4	<10	82.2	700	0.4	522	46	1.6	89	19.5	1610	24
543650/6593700	6000	15	1.2	11	35	2.4	953	<1	2.3	<0.1	121	<0.5	33	3	4	<1	1990	<1	1.3	<10	77.3	340	0.3	143	21	<0.5	95	24.8	9570	17
543675/6593700	3000	16	1.1	29	152	3.8	174	<1	6.6	<0.1	112	<0.5	33	7	8	<1	1500	<1	2.8	<10	74.9	300	0.3	49.8	21	0.6	277	47.4	17200	18
543700/6593700	6800	26	0.7	25	59	1	311	<1	5.4	<0.1	69	<0.5	11	5	8	<1	2690	<1	1.6	<10	25.2	80	0.2	127	5	<0.5	68	6.5	1490	6
543725/6593700	100	9	1	10	17	2.4	424	<1	2.5	<0.1	97	<0.5	20	3	3	<1	1090	<1	0.9	<10	24.5	280	<0.1	60.8	9	<0.5	85	42.3	4210	8
543750/6593700	5900	18	2.2	38	103	7.6	173	<1	9	<0.1	319	0.6	40	10	8	<1	700	<1	2.1	<10	100	510	0.3	63.6	41	1.1	149	35	18500	32
543775/6593700	2000	30	1.2	6	15	3.4	<5	<1	1.4	<0.1	80	<0.5	15	<2	1	<1	860	<1	0.2	<10	10.9	140	0.5	8.6	9	1.8	6	0.8	370	4
543025/6593600	10400	13	1.8	114	374	2.6	181	<1	25.2	<0.1	180	2.4	40	6	26	<1	1890	<1	4.3	<10	58.7	310	0.1	53.4	62	0.7	128	10.9	280	23
543050/6593600	7800	10	1.8	49	179	2.8	169	<1	11.1	<0.1	254	2.1	17	5	10	<1	2370	<1	1.4	<10	36.6	370	0.1	22.5	76	0.9	41	3.3	200	12
543075/6593600	8500	7	<0.5	124	239	1.1	208	<1	27.2	<0.1	244	1.6	48	9	33	<1	2440	<1	5.7	<10	45.9	110	0.2	66	19	<0.5	204	15.4	90	11
543100/6593600	1200	12	2.7	64	101	1.6	189	<1	15.1	<0.1	421	2.5	19	6	13	<1	2070	<1	1.9	<10	40.9	780	0.2	18.6	95	1	60	4.2	60	20
543125/6593600	2000	12	3.9	33	113	3	331	<1	8.9	<0.1	459	3	17	4	7	<1	2030	<1	1.1	<10	27.7	1200	0.1	11.8	194	1.8	32	2.7	90	20
543150/6593600	2600	8	1.9	27	136	1.5	460	<1	7.1	<0.1	365	1.1	12	4	6	<1	2460	<1	1	<10	14.9	510	<0.1	12.8	56	<0.5	36	2.7	130	11
543175/6593600	5000	8	2.9	45	150	1.6	335	<1	10.9	<0.1	418	1.9	13	<2	10	<1	1870	<1	1.5	<10	28.8	710	0.1	18.3	84	1.2	49	4.1	140	21
543200/6593600	6100	4	<0.5	68	291	1.4	145	<1	13.7	<0.1	407	1.7	47	6	19	<1	2050	<1	4.8	<10	18.4	50	0.3	69.6	10	0.6	240	17.7	50	19
543225/6593600	5300	9	1.7	69	121	1.9	367	<1	15.3	<0.1	225	3.1	23	10	18	<1	780	<1	3.4	<10	31.4	560	0.3	28.2	73	1.1	109	8.4	120	26
543250/6593600	15700	7	3.6	210	158	7.4	573	<1	48.2	<0.1	298	2.8	67	11	49	<1	320	<1	7.9	<10	107	1090	0.3	50.5	109	1.5	236	20	350	61
543275/6593600	2100	8	7.2	291	61	2	1030	<1	68	<0.1	154	6.6	119	16	65	<1	660	<1	10.4	<10	118	2780	0.5	41.7	170	2.7	339	23.2	120	65
543300/6593600	12600	<2	<0.5	22	451	1.3	90	<1	4.3	<0.1	380	<0.5	22	4	7	<1	2140	<1	1.6	<10	4.9	90	0.3	29.3	13	<0.5	83	6.2	5120	18
543325/6593600	18500	6	<0.5	72	405	2.2	312	<1	14.3	<0.1	159	1.9	37	12	21	<1	1190	<1	5.2	<10	22.9	130	0.3	45.5	21	<0.5	263	20.4	780	13
543350/6593600	1200	5	<0.5	232	67	1	633	<1	43.1	<0.1	64	1	87	21	65	<1	50	<1	14.5	<10	53	240	0.3	62.2	22	0.5	484	34	120	20
543375/6593600	1700	6	1																											

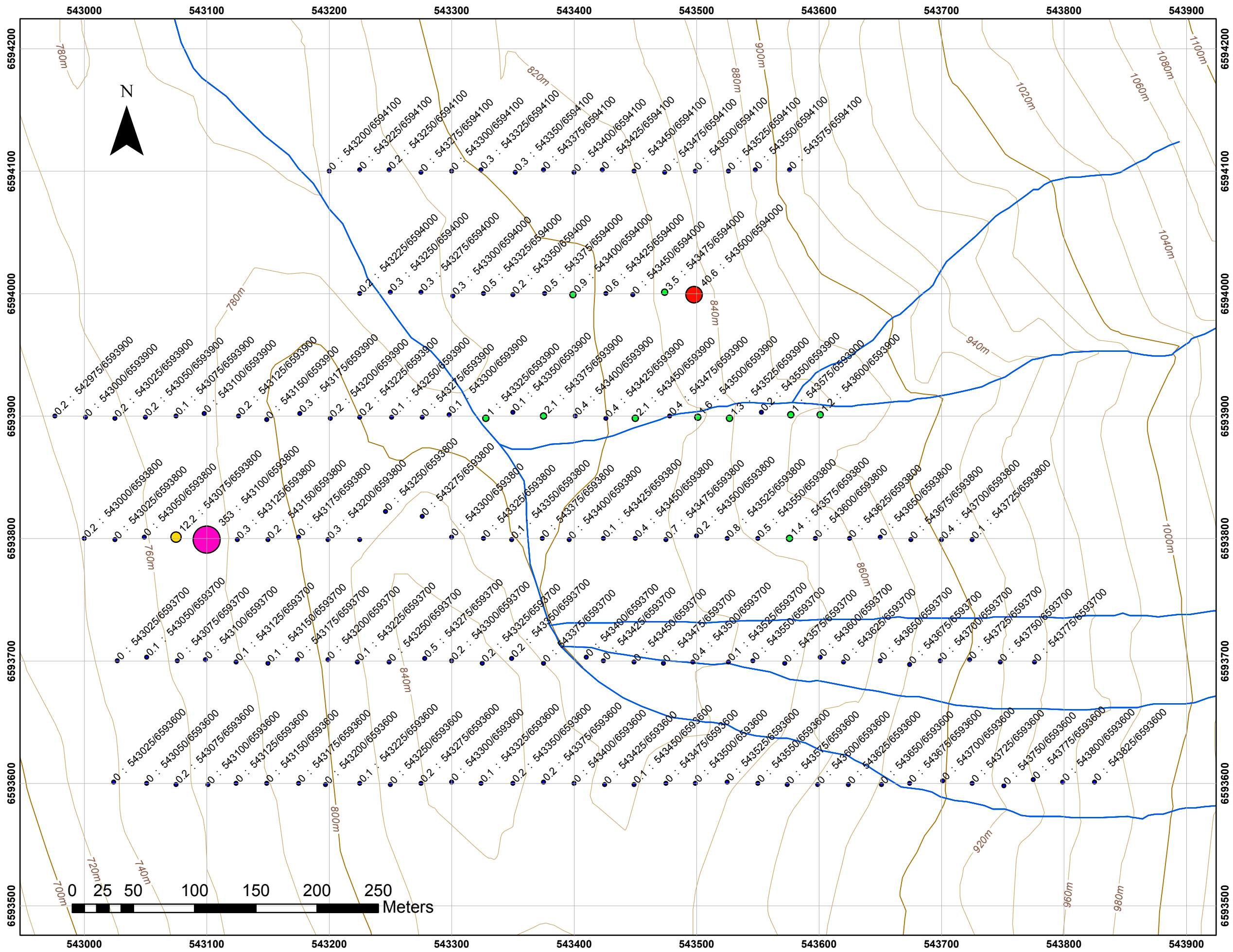
ANALYTE DETECTION UNITS	Mn 100 ppb	Mo 2 ppb	Nb 0.5 ppb	Nd 1 ppb	Ni 5 ppm	P 0.1 ppb	Pb 5 ppb	Pd 1 ppb	Pr 0.5 ppb	Pt 0.1 ppb	Rb 1 ppb	Sb 0.5 ppb	Sc 5 ppb	Se 2 ppb	Sm 1 ppb	Sn 1 ppb	Sr 10 ppb	Ta 1 ppb	Tb 0.1 ppb	Te 10 ppb	Th 0.5 ppb	Ti 10 ppb	Tl 0.1 ppb	U 0.5 ppb	V 1 ppb	W 0.5 ppb	Y 1 ppb	Yb 0.2 ppb	Zn 10 ppb	Zr 2 ppb
543250/6594100	2700	8	2.2	115	118	1.4	295	<1	25.8	<0.1	227	2.5	37	4	27	<1	1930	<1	4.1	<10	46.8	420	0.2	67.2	85	0.8	133	10.7	80	18
543275/6594100	5300	5	1.3	15	112	3	125	<1	3.7	<0.1	433	0.7	10	4	4	<1	2530	<1	0.6	<10	9.4	190	0.1	12.1	29	<0.5	17	1.5	370	9
543300/6594100	2800	4	3.1	54	186	1	514	<1	13	<0.1	311	2.9	22	3	11	<1	2060	<1	1.9	<10	28.9	710	0.2	17.4	78	0.7	75	5.1	140	17
543325/6594100	2000	6	<0.5	45	136	0.9	105	<1	8.6	<0.1	285	3.6	14	6	12	<1	1000	<1	2.3	<10	13	80	0.3	14	10	<0.5	78	5.5	400	8
543350/6594100	5200	13	1.5	145	167	2.8	293	<1	29.7	<0.1	286	8.5	44	15	37	<1	110	<1	6.4	<10	41.8	450	0.2	33.4	62	0.6	192	14.2	550	30
543375/6594100	300	5	2.8	85	245	2.7	596	<1	19.3	<0.1	271	2.8	45	8	20	<1	410	<1	3.7	<10	54.7	800	0.2	23.7	100	0.7	130	13.5	190	28
543400/6594100	900	2	1.5	23	92	1.2	453	<1	4.8	<0.1	149	1.8	35	4	7	<1	1620	<1	2	<10	27.6	320	0.2	21.2	44	<0.5	103	17.8	230	9
543425/6594100	5800	8	4.3	88	131	3.4	663	<1	20.7	<0.1	269	3	36	5	22	<1	1130	<1	3.5	<10	70.3	1280	0.2	34.6	178	1.9	104	10.1	240	32
543450/6594100	12200	8	1.5	33	249	1.4	244	<1	7.3	<0.1	483	1.6	15	<2	8	<1	1150	<1	1.5	<10	19.8	430	0.2	23.1	57	0.6	45	4.2	230	18
543475/6594100	7200	5	<0.5	61	374	1.3	328	<1	12.3	<0.1	449	3	24	9	18	<1	560	<1	4.6	<10	22.6	90	0.1	33.7	16	<0.5	189	14.2	420	15
543500/6594100	8500	4	0.7	107	287	2.7	470	<1	21.5	<0.1	317	2.8	42	10	30	<1	820	<1	7.2	<10	51.3	200	0.3	47.8	35	<0.5	307	23.4	570	21
543525/6594100	4500	4	0.8	36	172	1.4	219	<1	7.7	<0.1	289	1.7	17	5	10	<1	870	<1	1.5	<10	21.5	180	0.1	13.1	23	<0.5	43	4.2	90	13
543550/6594100	24000	3	<0.5	19	55	1.4	110	<1	4.3	<0.1	382	0.9	15	6	5	<1	2940	<1	1.3	<10	10.1	40	0.6	38.3	7	<0.5	60	8.5	4000	15
543575/6594100	13100	3	<0.5	55	57	1.2	70	<1	11	<0.1	152	2	10	4	15	<1	2740	<1	3.3	<10	7.9	20	0.4	37.9	19	<0.5	139	15.9	2710	4
543225/6594000	14500	90	1.7	147	107	1.1	141	<1	33.6	<0.1	66	12.3	23	24	27	<1	1070	<1	3.2	<10	24.9	280	0.2	122	160	1	98	7	150	17
543250/6594000	12400	108	0.6	90	244	0.3	159	<1	19.5	<0.1	31	17.4	36	80	19	<1	1860	<1	2.6	<10	22.8	50	<0.1	323	17	<0.5	101	8.5	110	9
543275/6594000	10800	104	<0.5	53	210	0.5	28	<1	11	<0.1	10	15.6	15	23	12	<1	1760	<1	1.6	<10	4.4	30	0.1	659	13	<0.5	78	6.1	470	5
543300/6594000	3800	23	<0.5	48	227	0.2	111	<1	9.3	<0.1	12	4.4	6	16	11	<1	2580	<1	1.7	<10	4.3	<10	0.1	353	1	<0.5	60	4.2	190	4
543325/6594000	3400	13	0.7	27	295	0.2	82	<1	5.2	<0.1	20	3.8	7	6	7	<1	2760	<1	1.4	<10	4.9	10	0.2	167	2	<0.5	56	4.4	600	4
543350/6594000	5800	15	<0.5	51	285	0.3	109	<1	9.7	<0.1	73	2.4	7	4	16	<1	3250	<1	3.2	<10	5.7	20	0.2	107	4	<0.5	124	9.6	840	3
543375/6594000	7400	4	1.1	212	174	2.1	601	<1	43.5	<0.1	100	2.4	59	15	59	<1	1240	<1	14.7	10	53	140	0.4	76.8	32	0.6	714	51.3	5990	25
543400/6594000	3800	3	0.9	123	184	0.5	573	<1	26.1	<0.1	53	1	40	7	32	<1	2410	<1	6.4	<10	30.2	30	0.1	60	5	<0.5	225	14	2680	16
543425/6594000	9100	3	0.7	330	255	1.3	499	<1	68.1	<0.1	89	2	85	19	93	<1	1950	<1	21.6	<10	54.9	70	0.3	120	18	0.6	1020	72	2500	36
543450/6594000	10100	9	1.8	46	102	2.3	282	<1	9.5	<0.1	278	1.1	15	3	12	<1	1200	<1	1.8	<10	25.2	320	0.2	24	72	0.7	62	5.2	810	18
543475/6594000	6200	10	0.9	39	1080	0.7	102	<1	8.3	<0.1	213	7	18	10	11	<1	2040	<1	2.3	<10	16.9	70	0.2	108	10	<0.5	97	9.1	1440	5
543500/6594000	4300	15	1	102	1210	11.7	67	<1	19	<0.1	198	174	95	50	36	<1	440	<1	8.9	<10	31.3	170	2.8	81.4	81	0.6	268	33.1	2890	20
542975/6593900	700	3	1	16	94	0.9	318	<1	3.8	<0.1	127	1.6	18	8	5	<1	110	<1	1	<10	11.8	210	0.3	22.9	35	<0.5	51	11	300	14
543000/6593900	2200	<2	1.6	27	122	2.2	409	<1	6.1	<0.1	221	0.8	28	3	7	<1	1590	<1	2.2	<10	24.5	320	0.3	30.7	47	<0.5	123	18.9	600	16
543025/6593900	24500	11	8.3	452	166	4.7	399	<1	111	<0.1	243	5	122	14	97	<1	290	<1	13.5	<10	124	870	0.3	98.6	174	1.4	394	30.6	190	88
543050/6593900	2100	7	5.2	162	71	1.2	990	<1	38.7	<0.1	138	4.9	80	8	39	<1	870	<1	6.9	<10	107	1710	0.4	52.1	225	1.8	186	15.9	70	43
543075/6593900	21500	8	1.6	98	398	3.7	172	<1	21.6	<0.1	397	1.7	39	10	26	<1	290	<1	5.7	<10	31.1	370	0.3	29.9	63	0.5	215	14.8	900	28
543100/6593900	2800	3	0.6	96	495	0.8	340	<1	18.4	<0.1	85	1.3	43	9	27	<1	1550	<1	8.1	<10	18.5	90	0.3	58	36	<0.5	426	31.4	120	5
543125/6593900	8700	3	<0.5	72	545	0.4	55	<1	14.6	<0.1	343	<0.5	47	8	22	<1	1080	<1	6.1	<10	13.9	10	0.3	45.4	3	<0.5	354	22.4	230	9
543150/6593900	2300	12	11.6	77	207	4.4	536	<1	18.9	<0.1	133	5.3	60	9	16	2	620	<1	3.2	<10	68.8	3770	0.5	25.9	653	3	109	9.3	320	54
543175/6593900	1100	15	5.4	157	114	1.3	599	<1	36.8	<0.1	81	3.1	62	12	35	<1	160	<1	5.9	<10	52.1	1720	0.3	52.9	233	1.8	193	13.4	80	35
543200/6593900	1200	7	1.9	234	106	1.2	619	<1	50.4	<0.1	193	1.9	80	24	58	<1	40	<1	10.3	<10	41.2	420	0.4	58	49	0.5	337	25.5	310	24
543225/6593900	900	7	1.2	76	173	0.9	511	<1	16.1	<0.1	250	2.7	47	8	19	<1	170	<1	3.6	<10	41.4	340	0.3	33.4	56	<0.5	119	9.6	60	22
543250/6593900	2900	9	3.4	55	254	4.1	581	<1	12.7	<0.1	368	4.2	37	6	13	<1	480	<1	2.6	<10	34.2	950	0.4	17.8	219	0.7	87	7	480	27
543275/6593900	1800	7	3.7	69	294	3.9	515	<1	15	<0.1	381	4.8	42	10	17	<1	220	<1	3.1	<10	41.3	980	0.3	22.4	202	0.9	90	7.5	440	28
543300/6593900	5500	17	5.3	108	441	13.2	406	<1	25.8	<0.1	324	6.2	61	14	27	<1	770	<1	4.4	<10	62.7	1230	0.5	48.9	326	1.4	143	14.4	1990	45
543325/6593900	6900	19	0.8	246	100	1.9	145	<1	52.1	<0.1	83	2.1	17	7	57	<1	1560	<1	7.7	<10	45.4	80	0.2	42.4	16	<0.5	188	12.2	480	33
543350/6593900	1800	3	1	93	202	1.8	1370	<1	17	<0.1	55	1.3	55	9	30	<1	1200	<1	10.5	<10	45.4	210	0.2	42.7	24	<0.5	469	41	670	30
543375/6593900	1700	7	<0.5	162	77	1.7	46	<1	33.5	<0.1	36	1.2	12	8	37	<1	2080	<1	4.6	<10	39.7	30	0.3	48.3	8	<0.5	109	7	390	27
543400/6593900	4500	4	<0.5	23	127	0.7	213	<1	4.7	<0.1	100	2.2	23	4	6	<1	3670	<1	1.3	<10	11.9	<10	<0.1	29.2	3	<0.5	49	4.2	2590	6
543425/6593900	2200	5	<0.5	89	103	0.8	343	<1	18.5	<0.1	78	0.6	27	6	24	<1	2740	<1	4.3	<10	17.7	10	<0.1	44.8	4	<0.5	152	10.1	610	15
543450/6593900	2400	9	0.5	239																										

ANALYTE	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U	V	W	Y	Yb	Zn	Zr
DETECTION	100	2	0.5	1	5	0.1	5	1	0.5	0.1	1	0.5	5	2	1	1	10	1	0.1	10	0.5	10	0.1	0.5	1	0.5	1	0.2	10	2
UNITS	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
543350/6593800	2900	14	3.6	143	171	3.9	395	<1	32.4	<0.1	211	4.3	59	8	35	<1	190	<1	5.5	<10	74	770	0.4	52	100	1	133	11.5	300	33
543375/6593800	7400	80	0.7	12	60	0.6	259	<1	2.5	<0.1	8	6.9	7	17	3	<1	1490	<1	0.6	<10	7.2	100	<0.1	1710	15	0.7	25	3	1770	5
543400/6593800	7100	50	<0.5	45	33	1	396	<1	9.5	<0.1	9	1.8	9	10	12	<1	1130	<1	2	<10	10.3	40	<0.1	3130	9	1	67	6.6	1140	9
543425/6593800	9800	6	<0.5	45	92	1.7	126	<1	9	<0.1	93	<0.5	11	3	11	<1	1680	<1	1.9	<10	14.5	40	<0.1	46.2	6	<0.5	58	4.8	3660	14
543450/6593800	4700	7	<0.5	182	69	2.8	106	<1	36.9	<0.1	79	0.6	17	6	46	<1	1620	<1	6.6	<10	22.9	30	0.1	63	6	<0.5	198	12.4	1470	20
543475/6593800	6600	7	<0.5	278	122	0.9	166	<1	57.5	<0.1	89	0.9	28	12	66	<1	2670	<1	10.1	<10	44.6	<10	0.1	89.1	3	<0.5	298	17.1	600	23
543500/6593800	6900	14	<0.5	130	141	2.6	125	<1	26.4	<0.1	107	0.9	21	7	34	<1	1850	<1	5.7	<10	26.1	60	0.2	54.3	11	<0.5	167	11.2	2870	26
543525/6593800	3300	4	<0.5	338	80	2.1	83	<1	65.8	<0.1	80	0.9	16	13	87	<1	2430	<1	12.6	<10	39.7	10	<0.1	107	3	<0.5	355	19.1	920	30
543550/6593800	3000	5	<0.5	82	84	2.8	76	<1	16	<0.1	102	0.7	7	7	21	<1	2100	<1	3.3	<10	22.7	20	<0.1	37	7	<0.5	89	6.3	1910	14
543575/6593800	1600	7	<0.5	177	87	1.6	38	<1	33.1	<0.1	44	0.5	10	8	46	<1	2570	<1	6.2	<10	25.5	<10	0.1	81.6	3	<0.5	152	8.6	850	13
543600/6593800	12100	5	<0.5	28	66	4.4	52	<1	5.4	<0.1	91	<0.5	5	8	8	<1	3330	<1	1.4	<10	10.4	30	0.1	26.3	5	<0.5	34	3.5	9840	9
543625/6593800	2800	12	<0.5	8	106	1	34	<1	1.6	<0.1	63	<0.5	<5	4	2	<1	3590	<1	0.4	<10	4.2	20	0.1	29.8	3	<0.5	14	1.3	15600	<2
543650/6593800	6200	5	0.6	23	125	1.7	2190	<1	5.3	<0.1	129	2.8	13	5	6	<1	2500	<1	1.1	<10	12.5	80	<0.1	66.1	10	<0.5	47	6.1	13500	8
543675/6593800	10400	9	<0.5	42	125	1	747	<1	8.7	<0.1	189	2.9	15	6	11	<1	1760	<1	2	<10	33.5	60	0.2	101	10	<0.5	69	8.3	15400	17
543700/6593800	5600	9	<0.5	75	82	2	1200	<1	15.8	<0.1	97	2.4	13	3	19	<1	2040	<1	4.1	<10	29.5	50	0.2	178	6	<0.5	177	16.7	11000	10
543725/6593800	4700	7	<0.5	34	106	0.8	2050	<1	7	<0.1	271	2.1	9	5	8	<1	2130	<1	1.8	<10	18.1	60	<0.1	97.7	9	<0.5	72	7.4	10100	6
REP-543275/6594100	4800	4	1.4	16	114	3.3	118	<1	3.5	<0.1	430	0.6	8	<2	3	<1	2440	<1	0.6	<10	9	210	<0.1	11.8	30	<0.5	18	1.4	370	9
REP-543250/6594000	11500	116	0.7	102	250	0.3	180	<1	21.6	<0.1	31	16.7	44	75	21	<1	1630	<1	3	<10	27.8	70	0.1	341	26	<0.5	117	9.9	180	13
REP-543050/6593900	1700	7	6.1	154	74	1.3	913	<1	36.5	<0.1	139	5.7	81	12	35	<1	880	<1	6.2	<10	111	1860	0.3	51.8	250	1.9	178	14.8	70	47
REP-543000/6593800	5300	<2	<0.5	97	179	0.3	120	<1	19.2	<0.1	58	4.8	39	14	33	<1	4090	<1	10.7	<10	16.4	<10	0.5	285	3	<0.5	565	56.9	80	4
REP-543250/6593800	17100	6	1.5	18	307	3.4	215	<1	4	<0.1	508	1.4	22	8	5	<1	1820	<1	1.1	<10	14.8	390	0.9	29	52	<0.5	54	5.7	6290	18
REP-543550/6593800	3300	5	<0.5	86	84	3.2	75	<1	17.4	<0.1	100	0.7	9	4	22	<1	2070	<1	3.5	<10	26.2	30	<0.1	37.3	8	<0.5	94	6.1	1670	17
AMISO169	3500	4	2.4	318	375	2.5	89	<1	80.9	0.1	243	0.6	45	12	52	<1	50	<1	4.7	<10	59.8	290	1.1	22.5	40	1.1	100	8.3	200	40
BLANK	<100	<2	<0.5	<1	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2
BLANK	<100	<2	0.6	<1	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2
BLANK	<100	<2	<0.5	1	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2
BLANK	<100	<2	<0.5	1	<5	0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2
BLANK	<100	<2	<0.5	<1	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2
REP-543025/6593700	11200	2	<0.5	32	167	0.9	297	<1	6.4	<0.1	181	2.8	47	8	10	<1	2350	<1	2.9	<10	25	20	0.2	118	8	<0.5	170	16.6	110	16
REP-543525/6593700	12300	15	4.4	91	133	9.7	554	<1	20.3	<0.1	183	1.9	54	6	22	<1	1260	<1	4	<10	101	790	0.4	92.6	67	2.1	157	13.9	4650	39
REP-543425/6593600	18300	13	7.3	139	112	17.6	630	<1	33.7	<0.1	211	2.6	98	9	33	1	1180	<1	5.9	<10	199	1130	0.7	154	106	3.6	228	27.5	8690	84
REP-543550/6593600	8800	13	1.2	223	94	8.9	725	<1	48.5	<0.1	155	0.7	71	10	63	<1	950	<1	12.2	<10	106	330	0.3	120	27	1.2	454	35.5	5260	53
AMISO169	3900	4	3	348	398	2.6	108	<1	90.6	0.1	243	0.6	50	16	60	<1	70	<1	5.2	<10	69.7	350	1.3	24.7	38	1.3	110	9.9	190	48
AMISO169	3900	4	2.8	353	406	2.9	101	<1	91.5	<0.1	262	0.6	50	15	57	<1	60	<1	5	<10	65	380	1.1	24.3	45	1.4	120	8.9	220	46
BLANK	<100	<2	<0.5	1	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	3	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2
BLANK	<100	<2	<0.5	<1	<5	<0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2
BLANK	<100	<2	<0.5	<1	<5	0.1	<5	<1	<0.5	<0.1	<1	<0.5	<5	<2	<1	<1	<10	<1	<0.1	<10	<0.5	<10	<0.1	<0.5	<1	<0.5	<1	<0.2	<10	<2

APPENDIX III

Results of the 2016 MMI survey (Maps)

Au



Legend

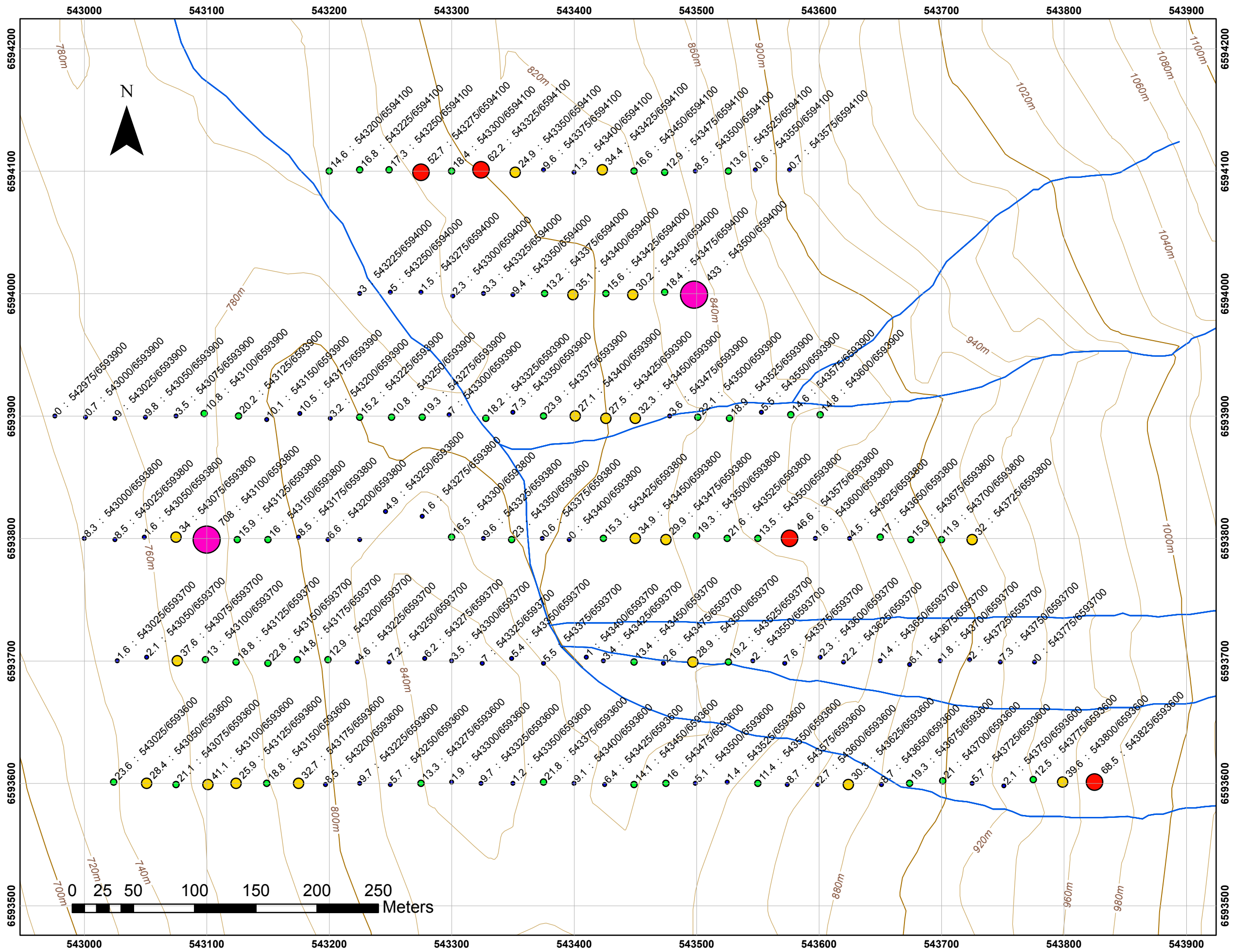
Engineer_2016_MMI_Au

Au_ppb

- 0.00000 - 0.80000
- 0.80001 - 3.50000
- 3.50001 - 12.20000
- 12.20001 - 40.60000
- 40.60001 - 353.00000

Labels:
value : sample number

Ag



Legend

Engineer_2016_MMI_Ag

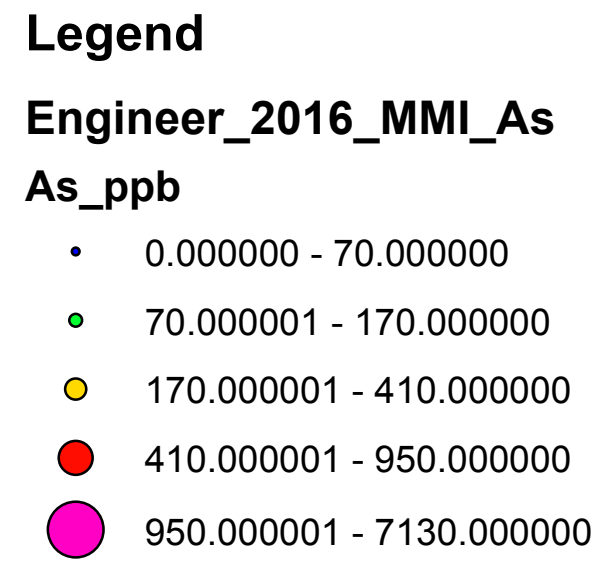
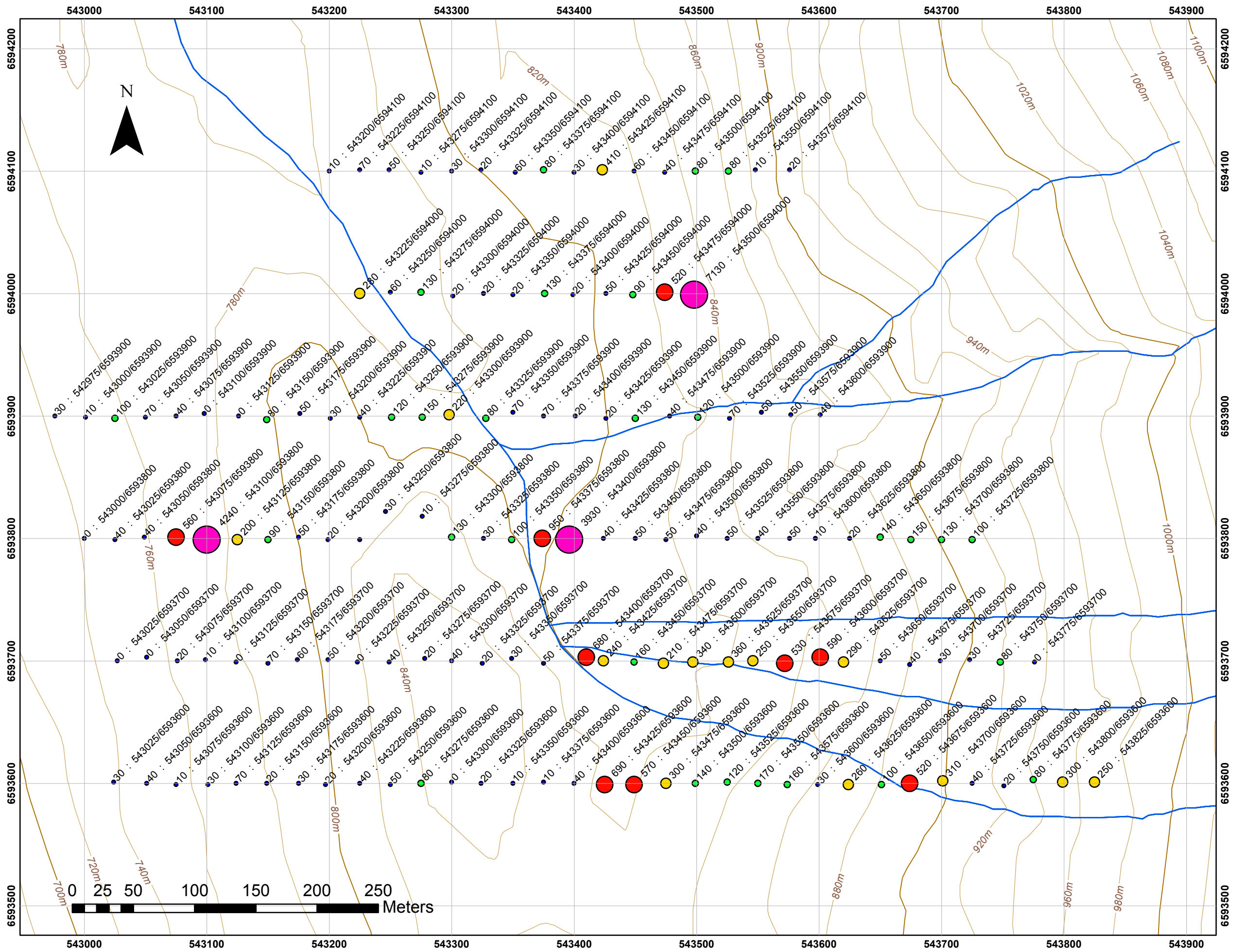
Ag_ppb

- 0.00000 - 10.50000
- 10.50001 - 23.90000
- 23.90001 - 41.10000
- 41.10001 - 68.50000
- 68.50001 - 708.00000

Labels:
value : sample number

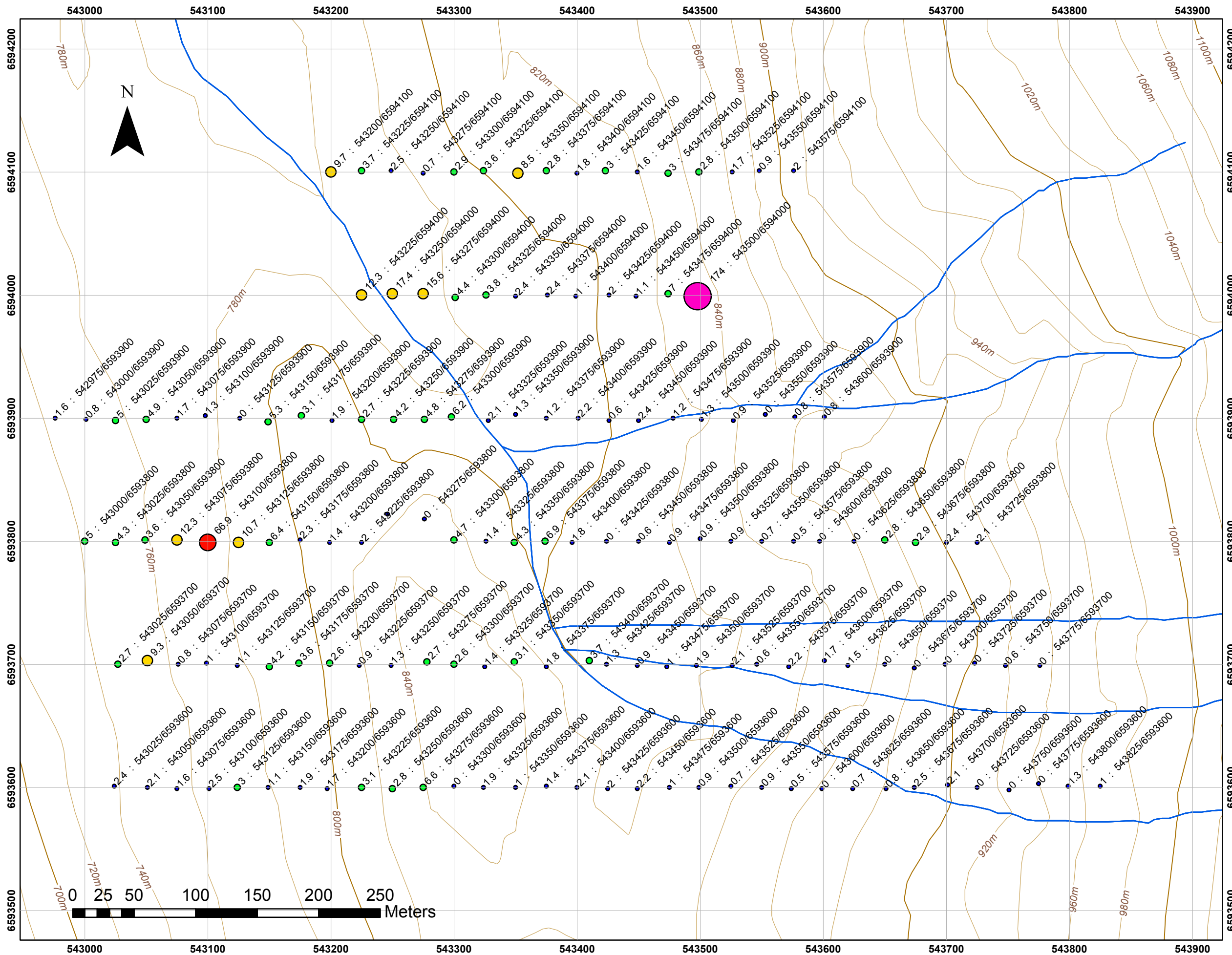
Engineer Mine
2016 MMI survey
Assessment Report 36537

As



Labels:
value : sample number

Sb



Legend

Engineer_2016_MMI_Sb

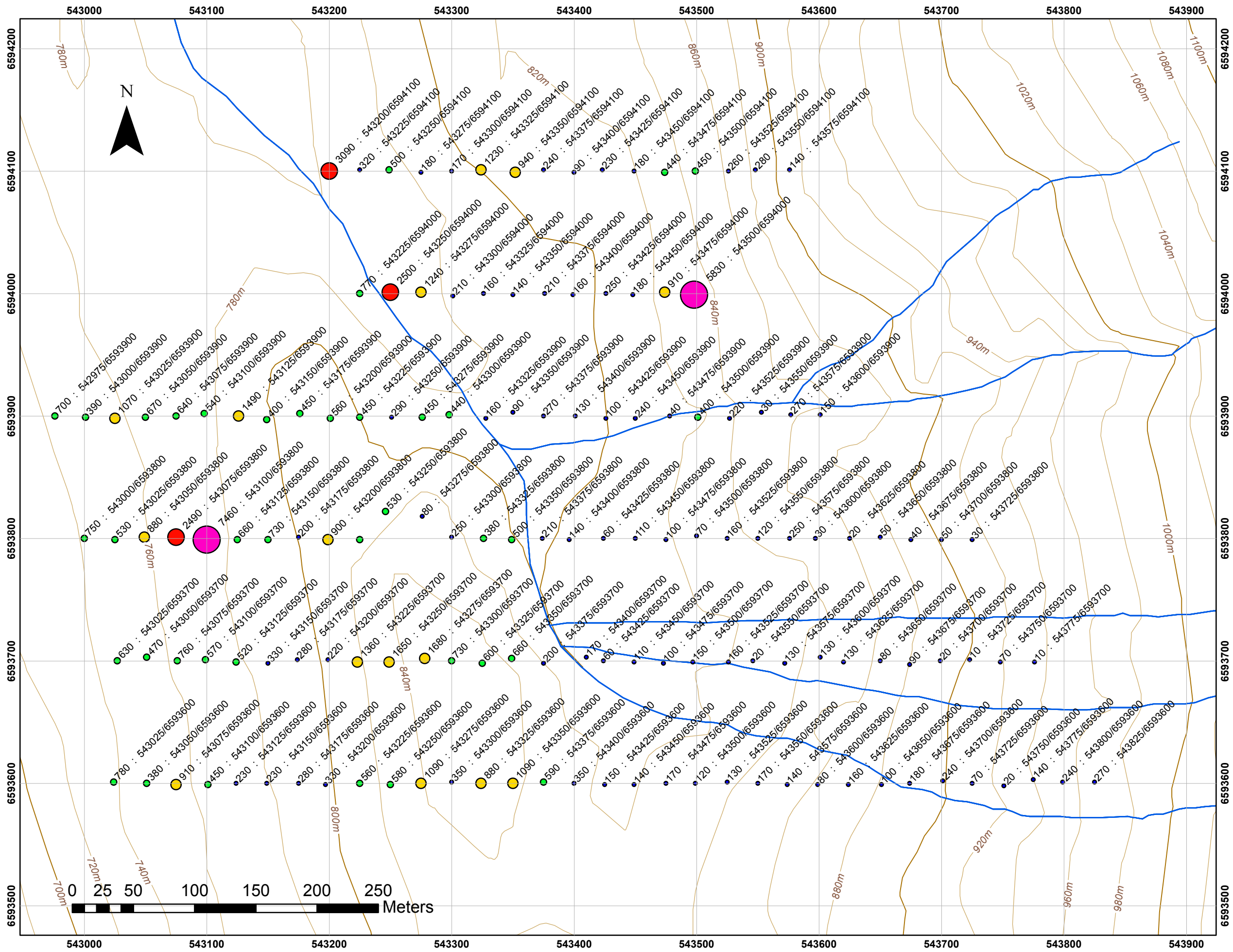
Sb_ppb

- 0.00000 - 2.50000
- 2.50001 - 7.00000
- 7.00001 - 17.40000
- 17.40001 - 66.90000
- 66.90001 - 174.00000

Labels:
value : sample number

Engineer Mine
2016 MMI survey
Assessment Report 36537

Cu



Legend

Engineer_2016_MMI_Cu

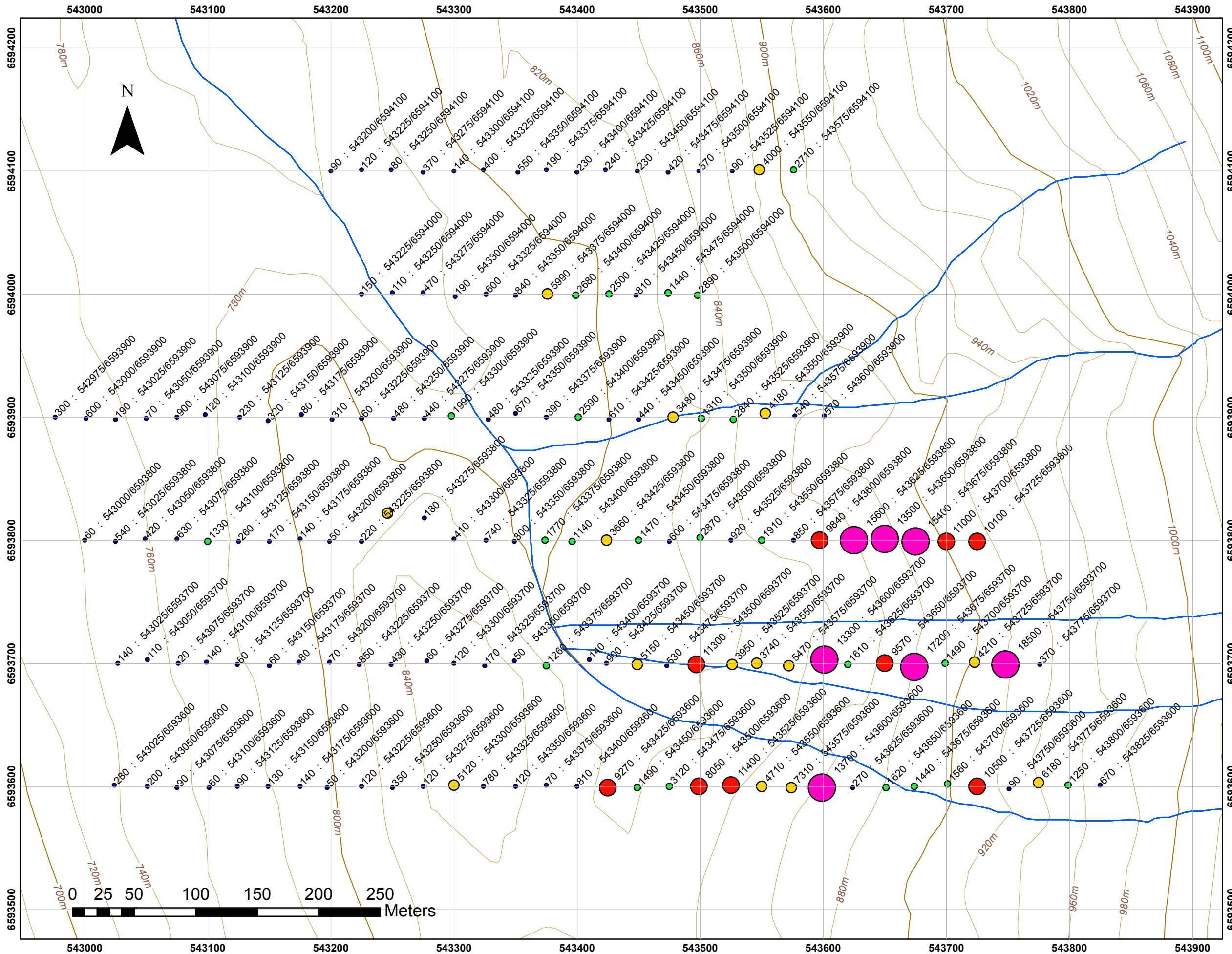
Cu_ppb

- 10.000000 - 350.000000
- 350.000001 - 780.000000
- 780.000001 - 1680.000000
- 1680.000001 - 3090.000000
- 3090.000001 - 7460.000000

Labels:
value : sample number

Engineer Mine
2016 MMI survey
Assessment Report 36537

Zn



Legend

Engineer_2016_MMI_Zn

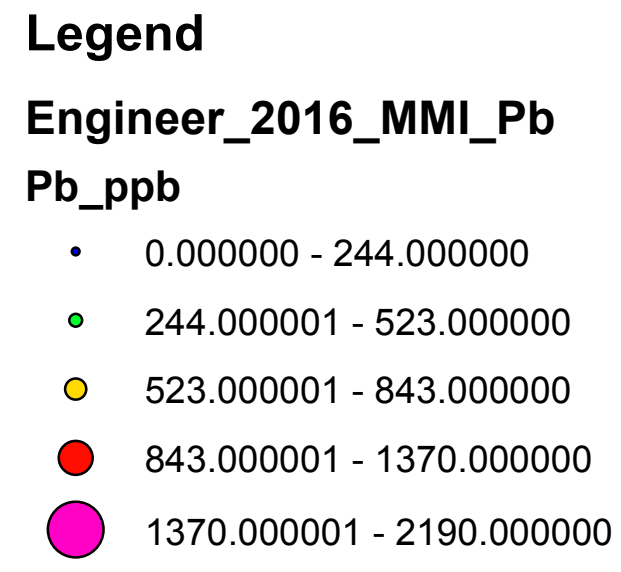
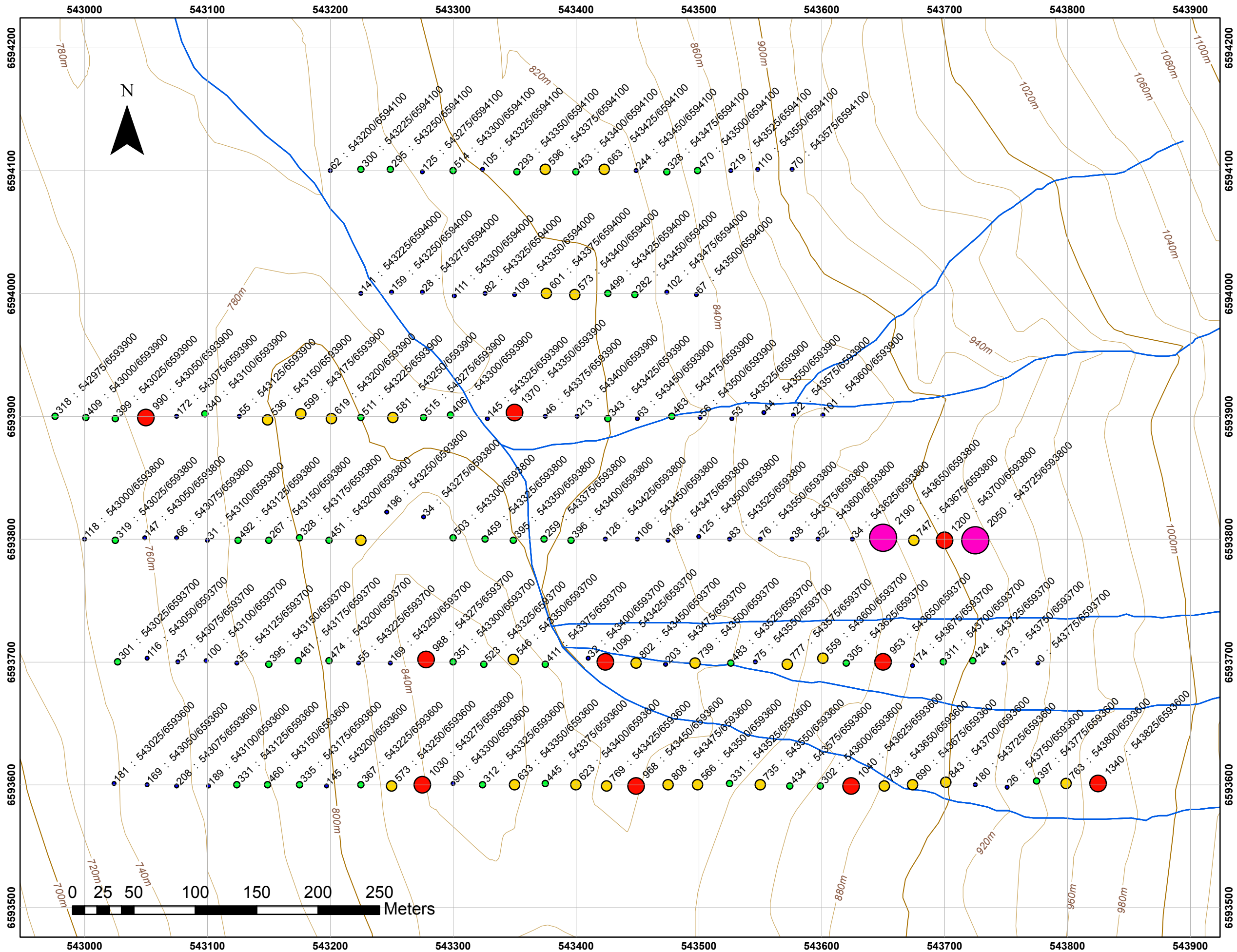
Zn_ppb

- 20.000000 - 920.000000
- 920.000001 - 3120.000000
- 3120.000001 - 7310.000000
- 7310.000001 - 11400.000000
- 11400.000001 - 18500.000000

Labels:
value : sample number

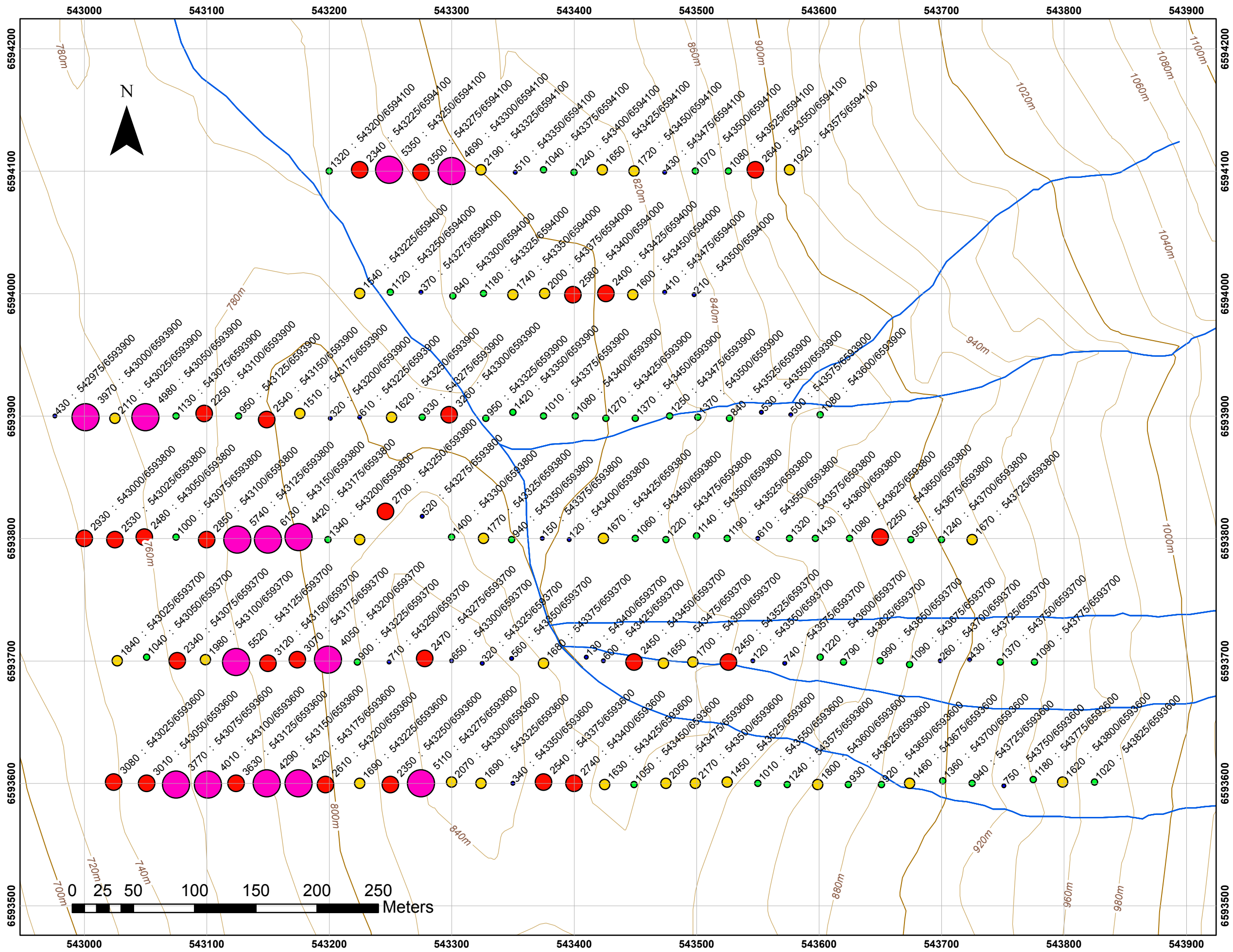
Engineer Mine
2016 MMI survey
Assessment Report 36537

Pb



Labels:
value : sample number

Ba



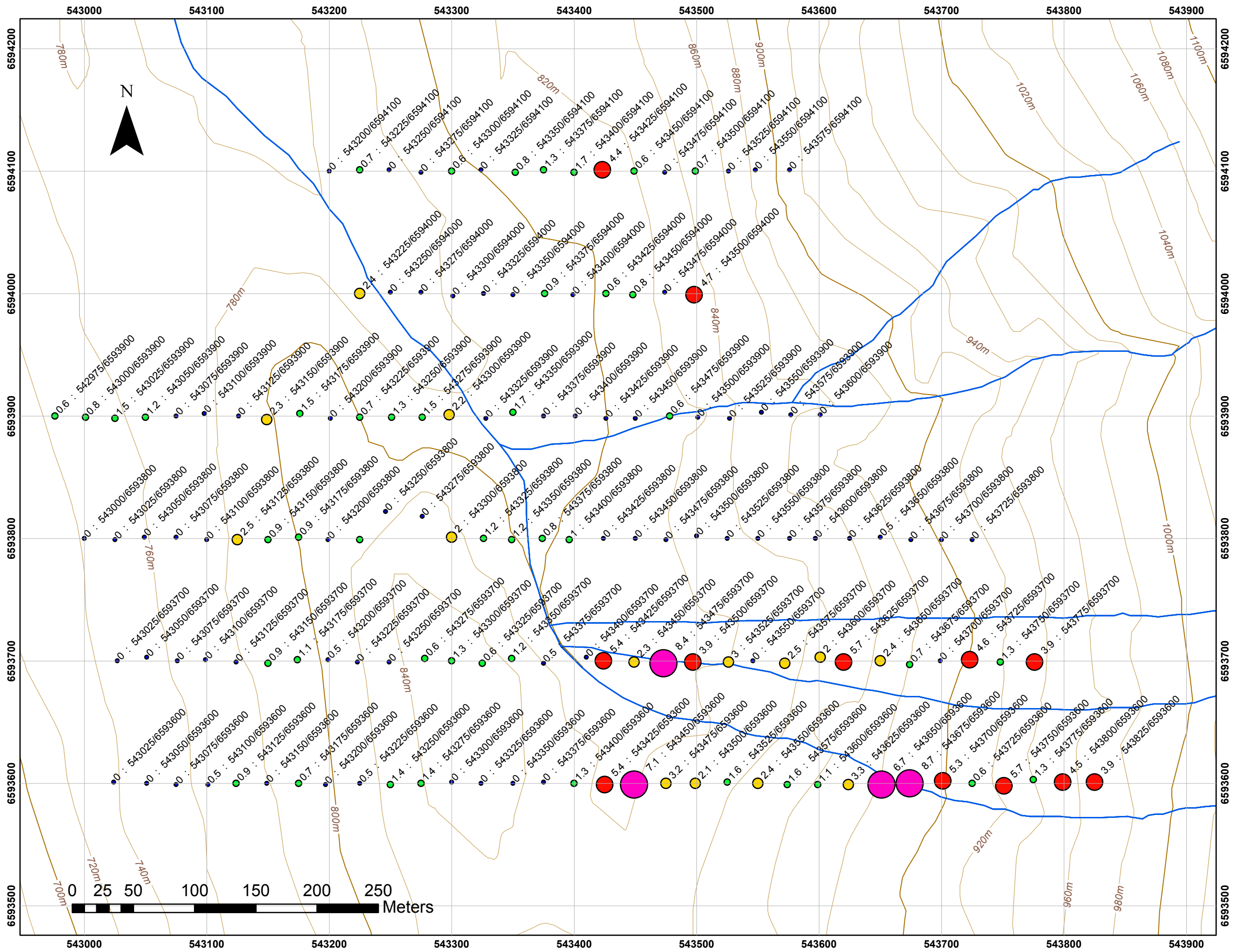
Legend

Engineer_2016_MMI_Ba

Ba_ppb

- 120.000000 - 750.000000
- 750.000001 - 1430.000000
- 1430.000001 - 2190.000000
- 2190.000001 - 3630.000000
- 3630.000001 - 6130.000000

Labels:
value : sample number



Legend

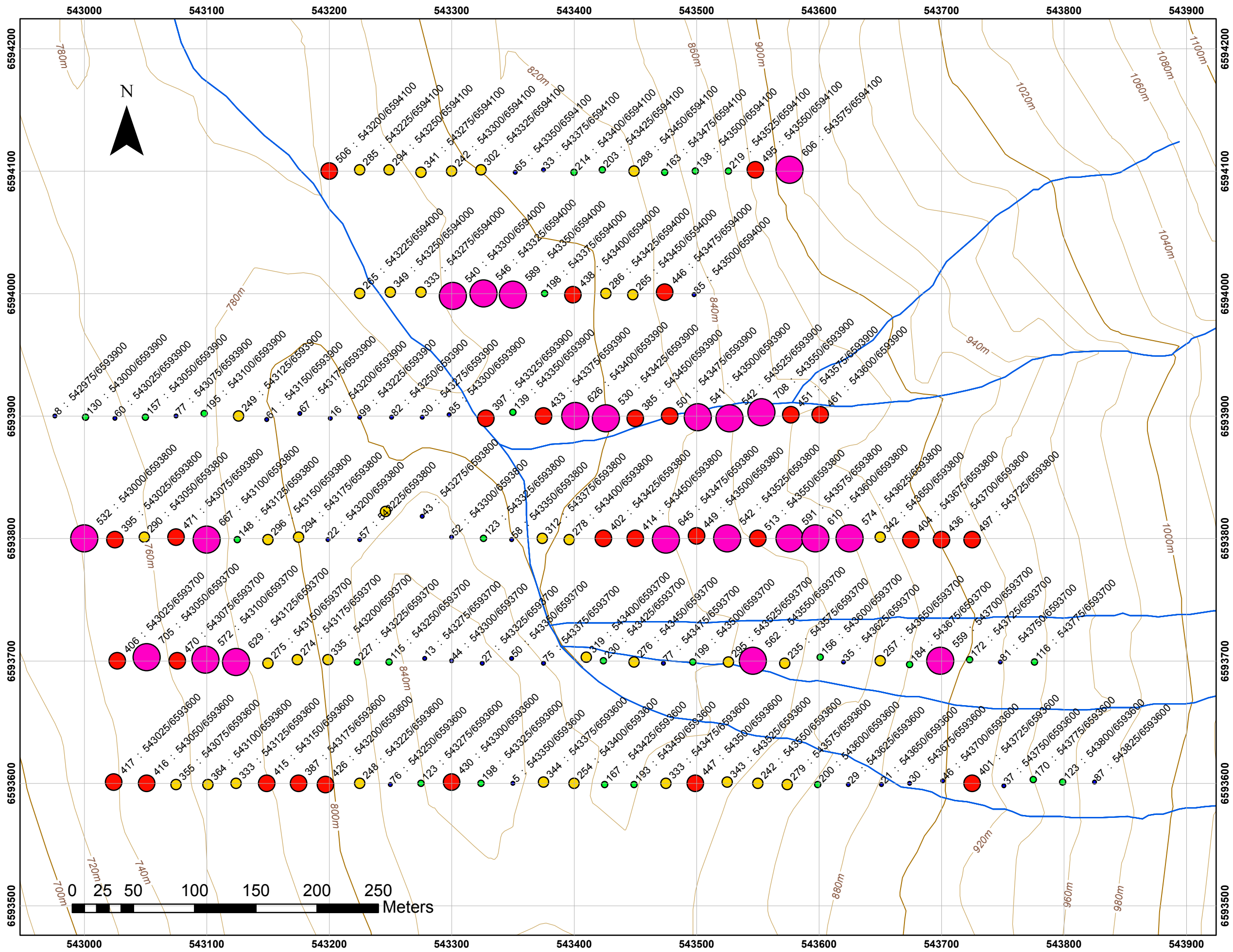
Engineer_2016_MMI_Bi

Bi_ppb

- 0.00000 - 0.50000
- 0.50001 - 1.70000
- 1.70001 - 3.30000
- 3.30001 - 5.70000
- 5.70001 - 8.70000

Labels:
value : sample number

Ca



Legend

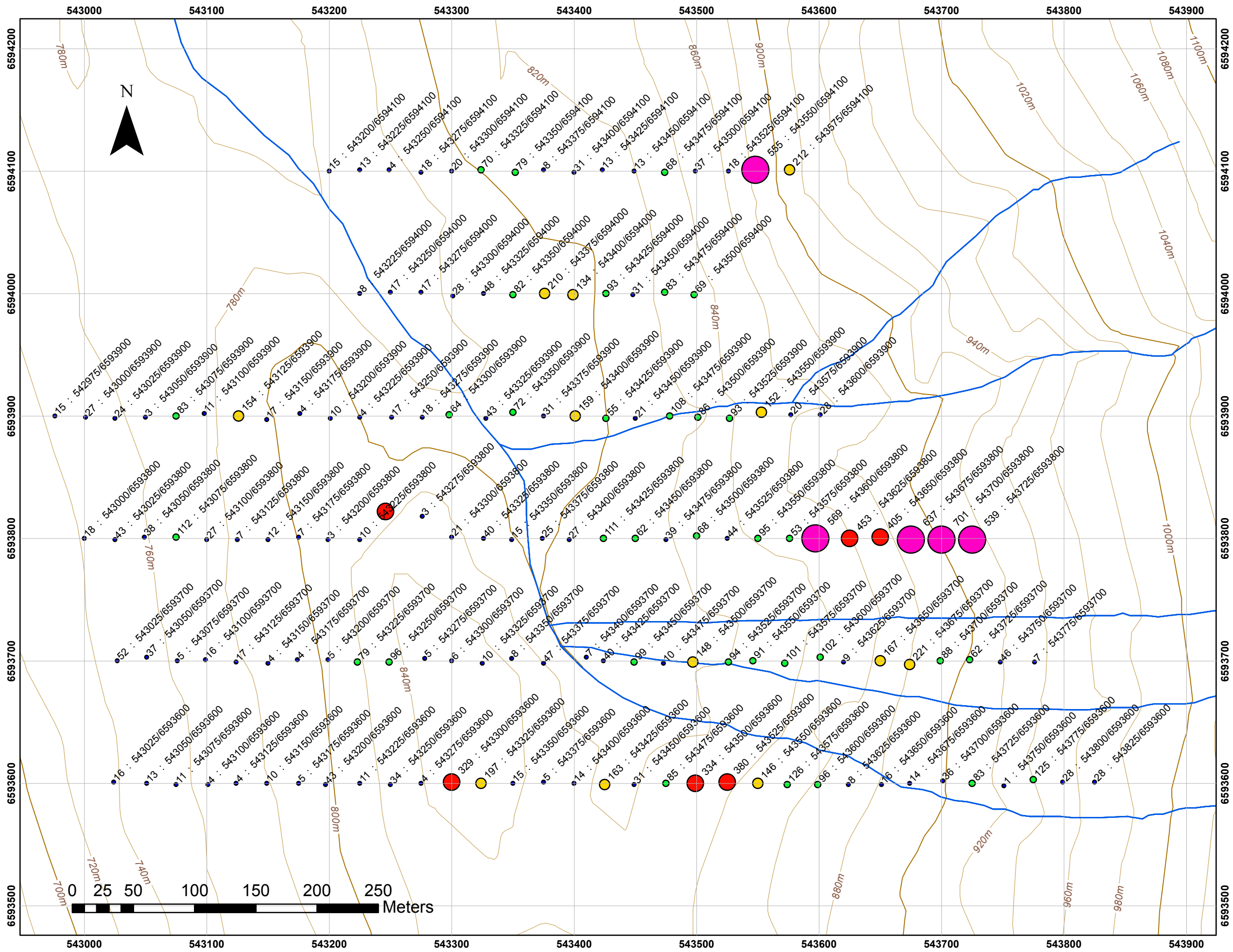
Engineer_2016_MMI_Ca

Ca_ppm

- 5.000000 - 99.000000
- 99.000001 - 230.000000
- 230.000001 - 364.000000
- 364.000001 - 513.000000
- 513.000001 - 708.000000

Labels:
value : sample number

Cd



Legend

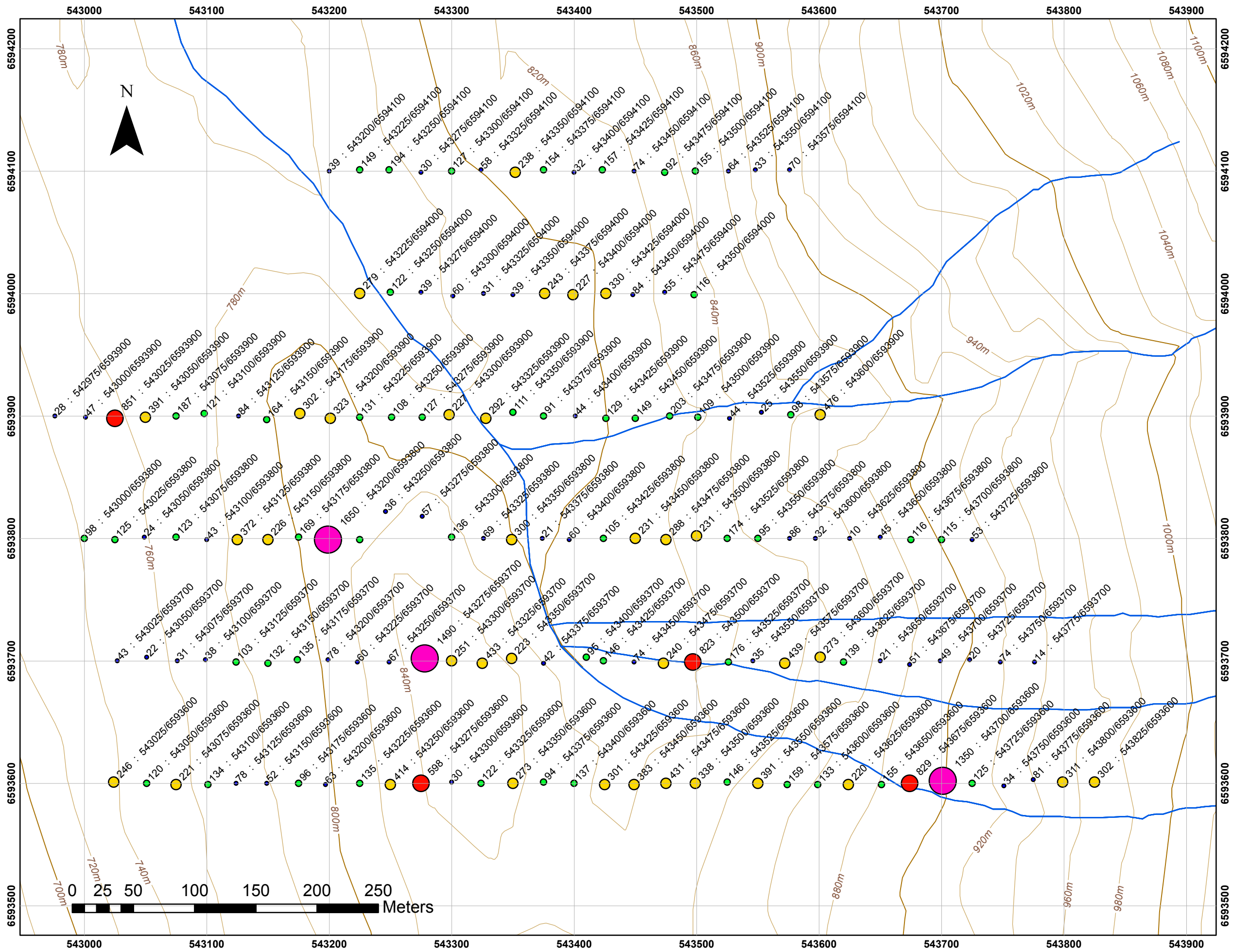
Engineer_2016_MMI_Cd

Cd_ppb

- 1.000000 - 52.000000
- 52.000001 - 126.000000
- 126.000001 - 221.000000
- 221.000001 - 453.000000
- 453.000001 - 701.000000

Labels:
value : sample number

Ce



Legend

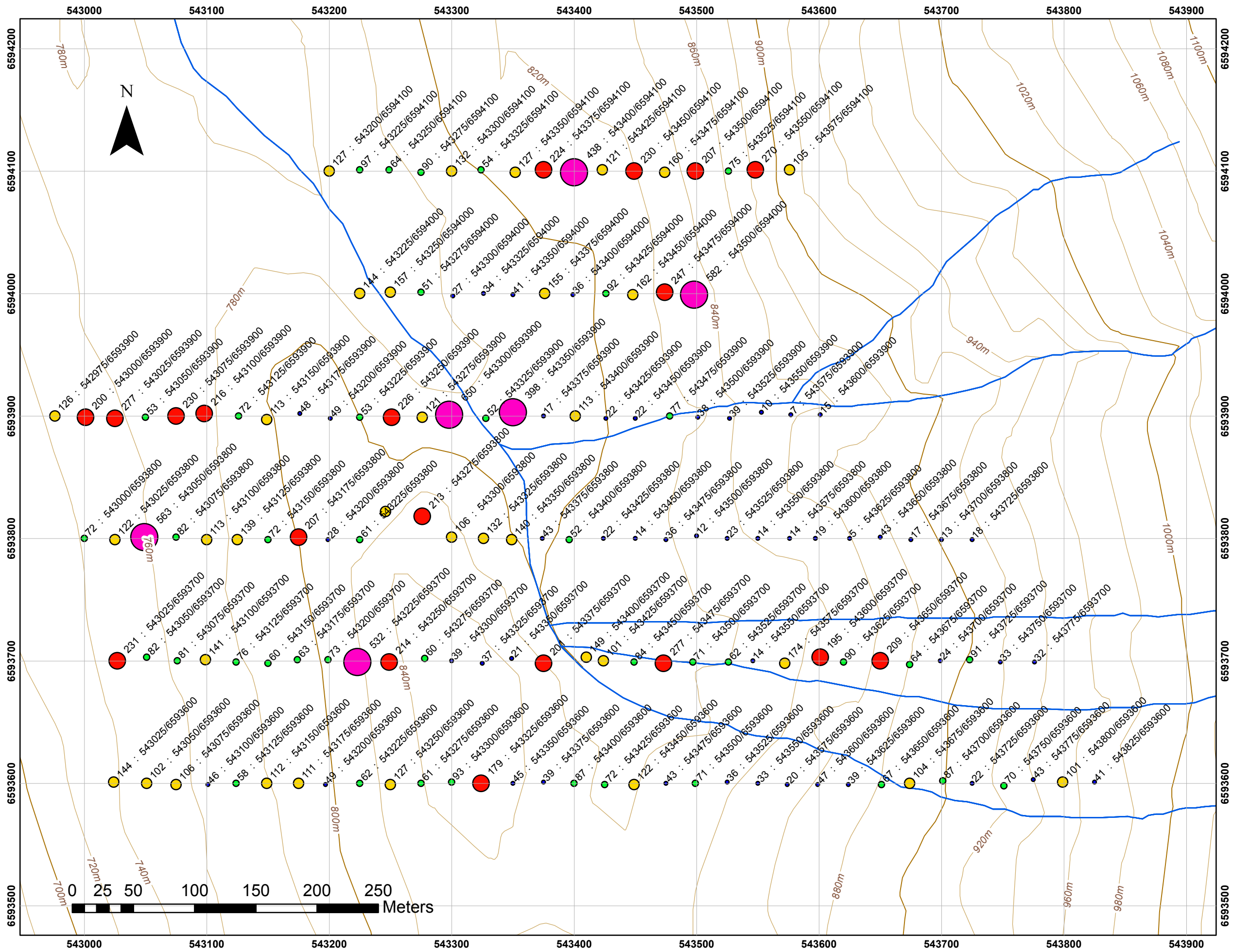
Engineer_2016_MMI_Ce

Ce_ppb

- 10.00000 - 86.00000
- 86.00001 - 216.00000
- 216.00001 - 476.00000
- 476.00001 - 851.00000
- 851.00001 - 1650.00000

Labels:
value : sample number

Engineer Mine
2016 MMI survey
Assessment Report 36537



Legend

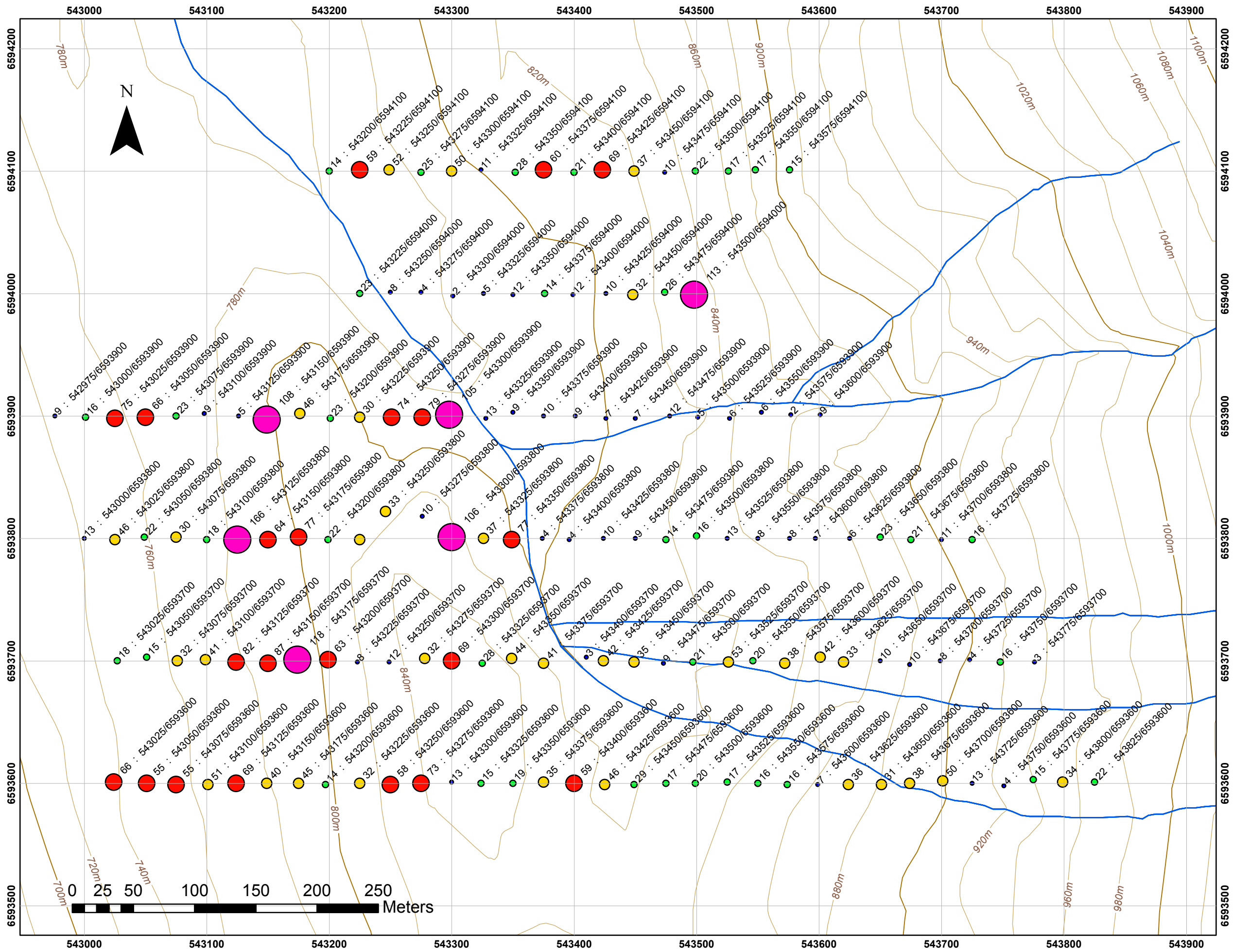
Engineer_2016_MMI_Co

Co_ppb

- 5.000000 - 49.000000
- 49.000001 - 97.000000
- 97.000001 - 174.000000
- 174.000001 - 277.000000
- 277.000001 - 650.000000

Labels:
value : sample number

Cr



Legend

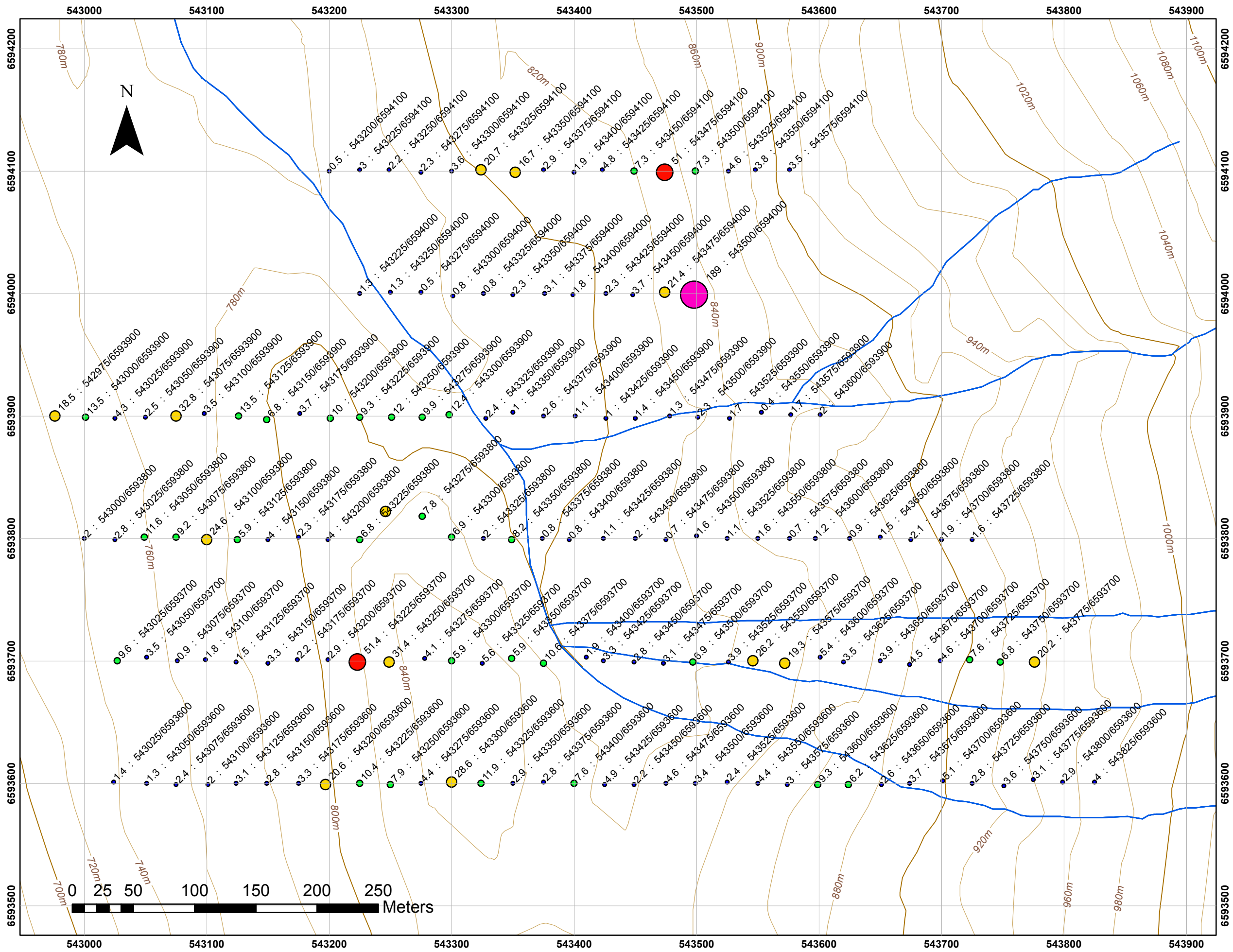
Engineer_2016_MMI_Cr

Cr_ppb

- 2.000000 - 13.000000
- 13.000001 - 29.000000
- 29.000001 - 53.000000
- 53.000001 - 87.000000
- 87.000001 - 166.000000

Labels:
value : sample number

Cs



Legend

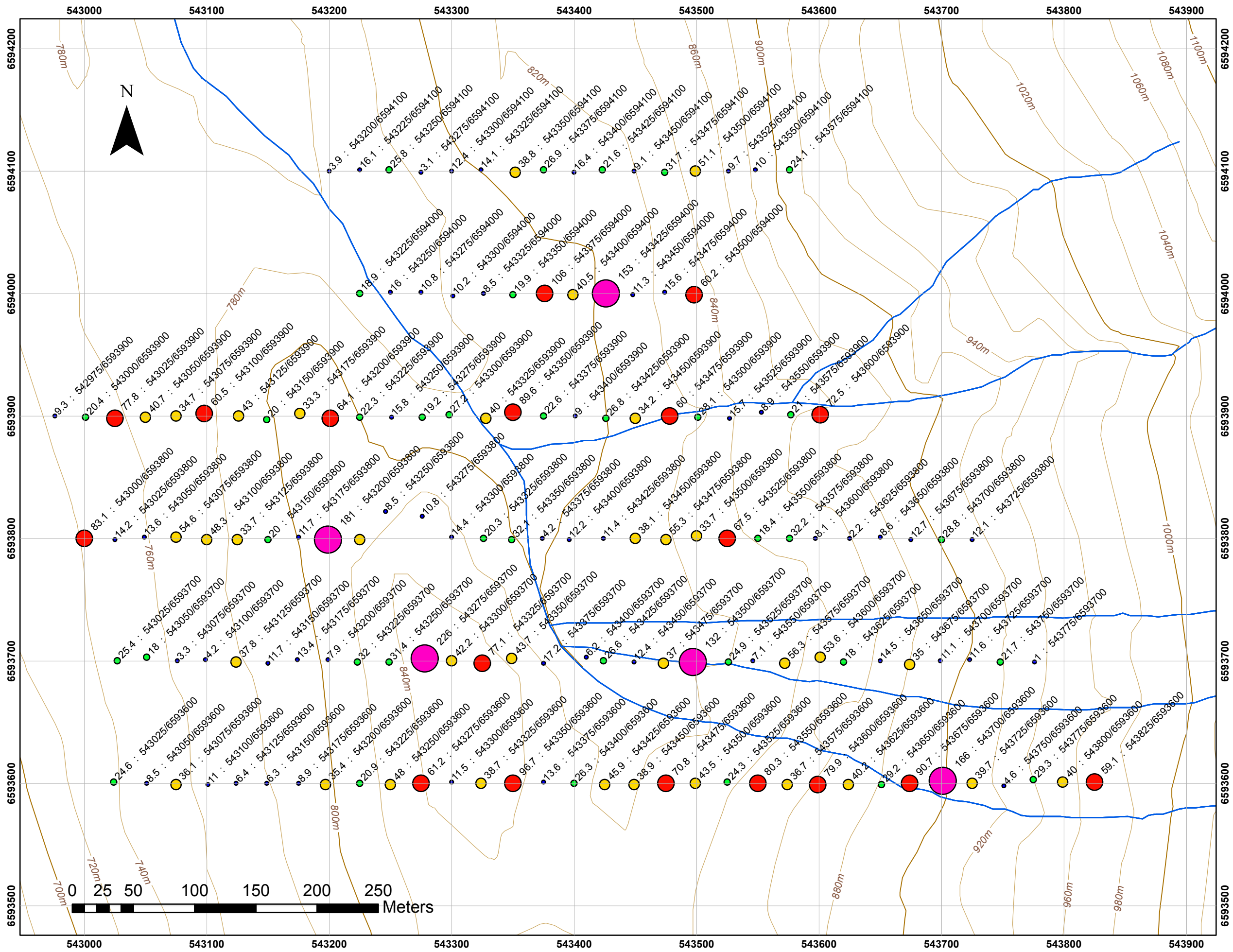
Engineer_2016_MMI_Cs

Cs_ppb

- 0.40000 - 5.60000
- 5.60001 - 13.50000
- 13.50001 - 32.80000
- 32.80001 - 51.40000
- 51.40001 - 189.00000

Labels:
value : sample number

Dy



Legend

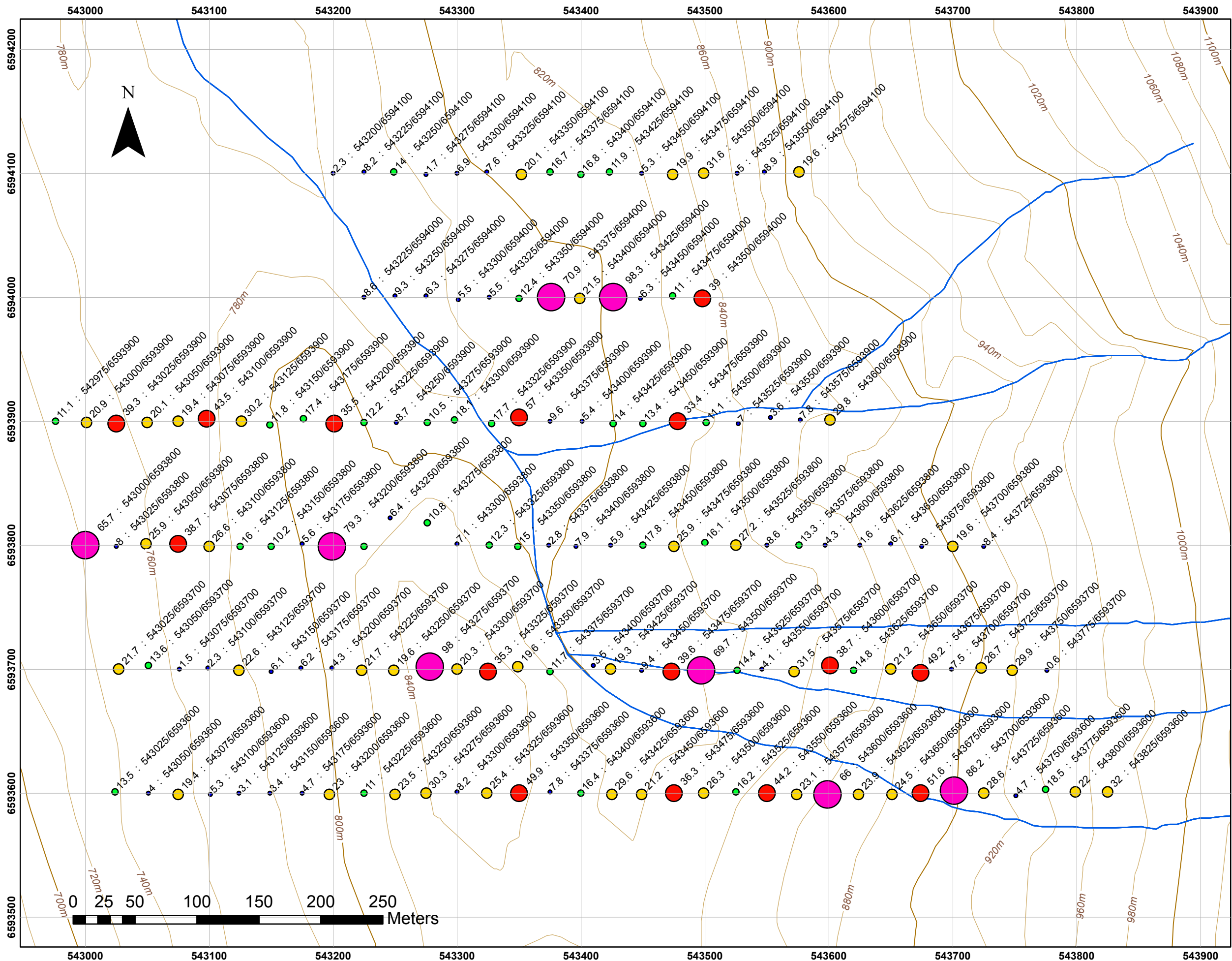
Engineer_2016_MMI_Dy

Dy_ppb

- 1.000000 - 17.200000
- 17.200001 - 32.200000
- 32.200001 - 56.300000
- 56.300001 - 106.000000
- 106.000001 - 226.000000

Labels:
value : sample number

Er



Legend

Engineer_2016_MMI_Er

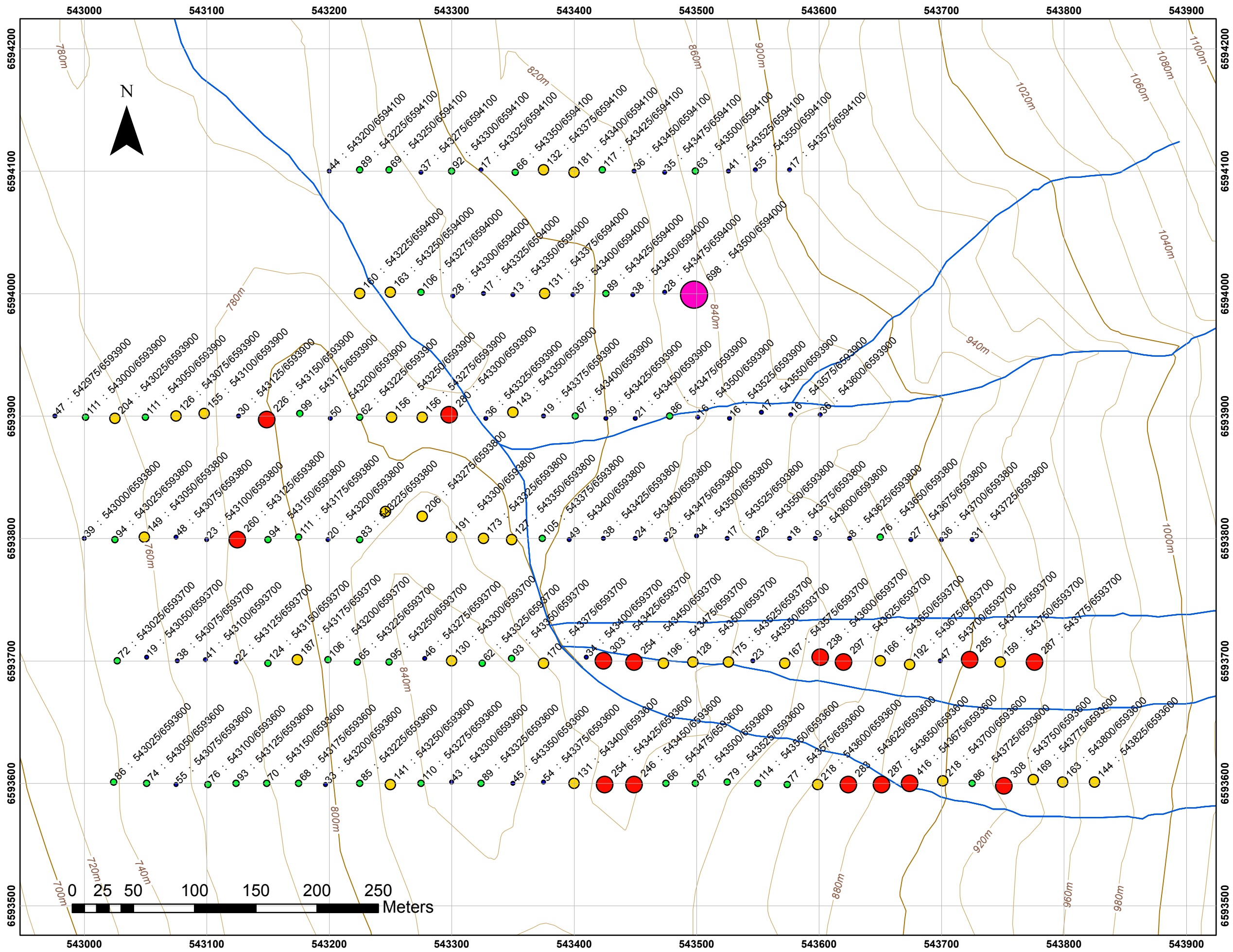
Er_ppb

- 0.600000 - 9.600000
- 9.600001 - 18.500000
- 18.500001 - 32.000000
- 32.000001 - 57.000000
- 57.000001 - 98.300000

Labels:
value : sample number

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Fe



Legend

Engineer_2016_MMI_Fe

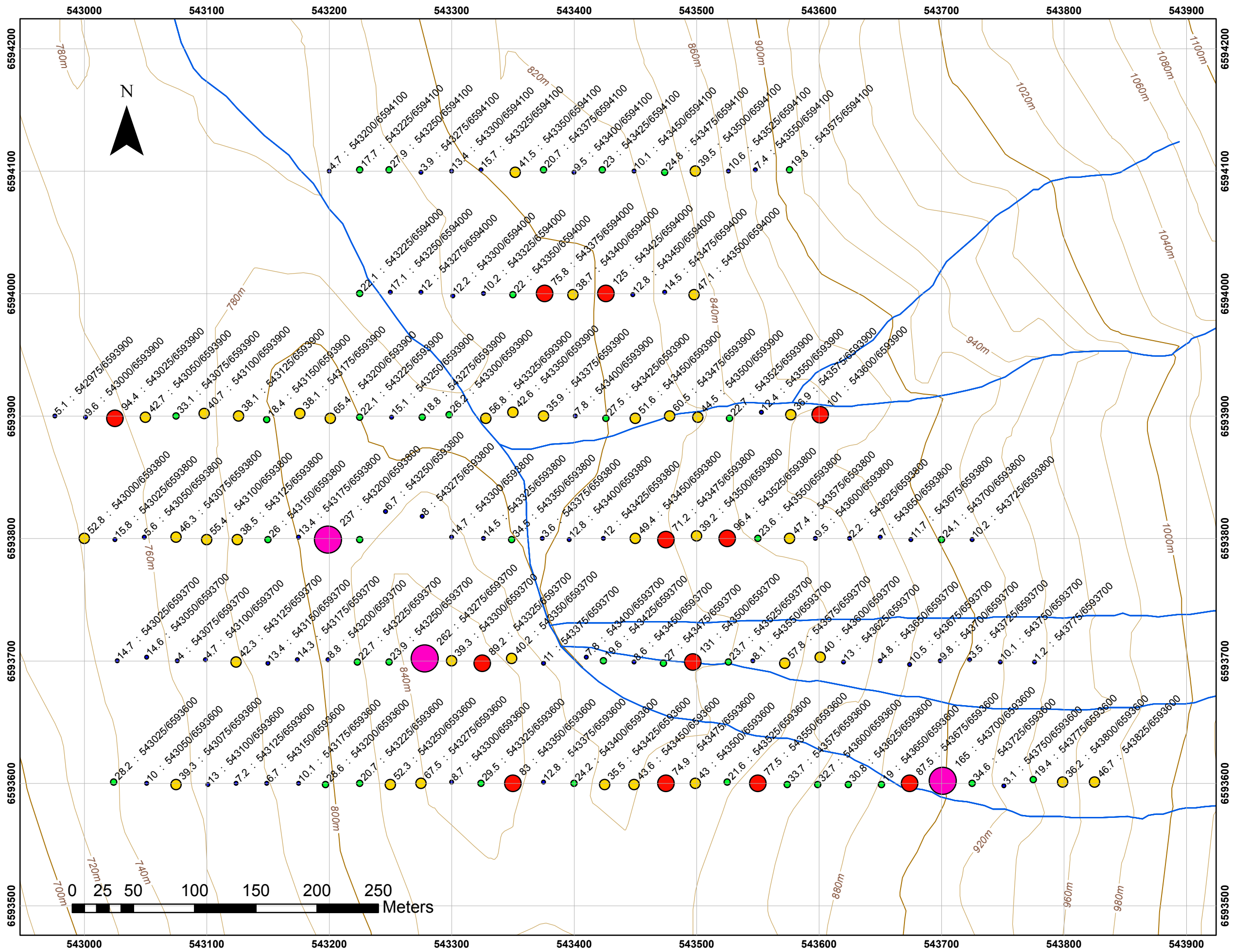
Fe_ppm

- 8.000000 - 55.000000
- 55.000001 - 124.000000
- 124.000001 - 218.000000
- 218.000001 - 416.000000
- 416.000001 - 698.000000

Labels:
value : sample number

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Gd



Legend

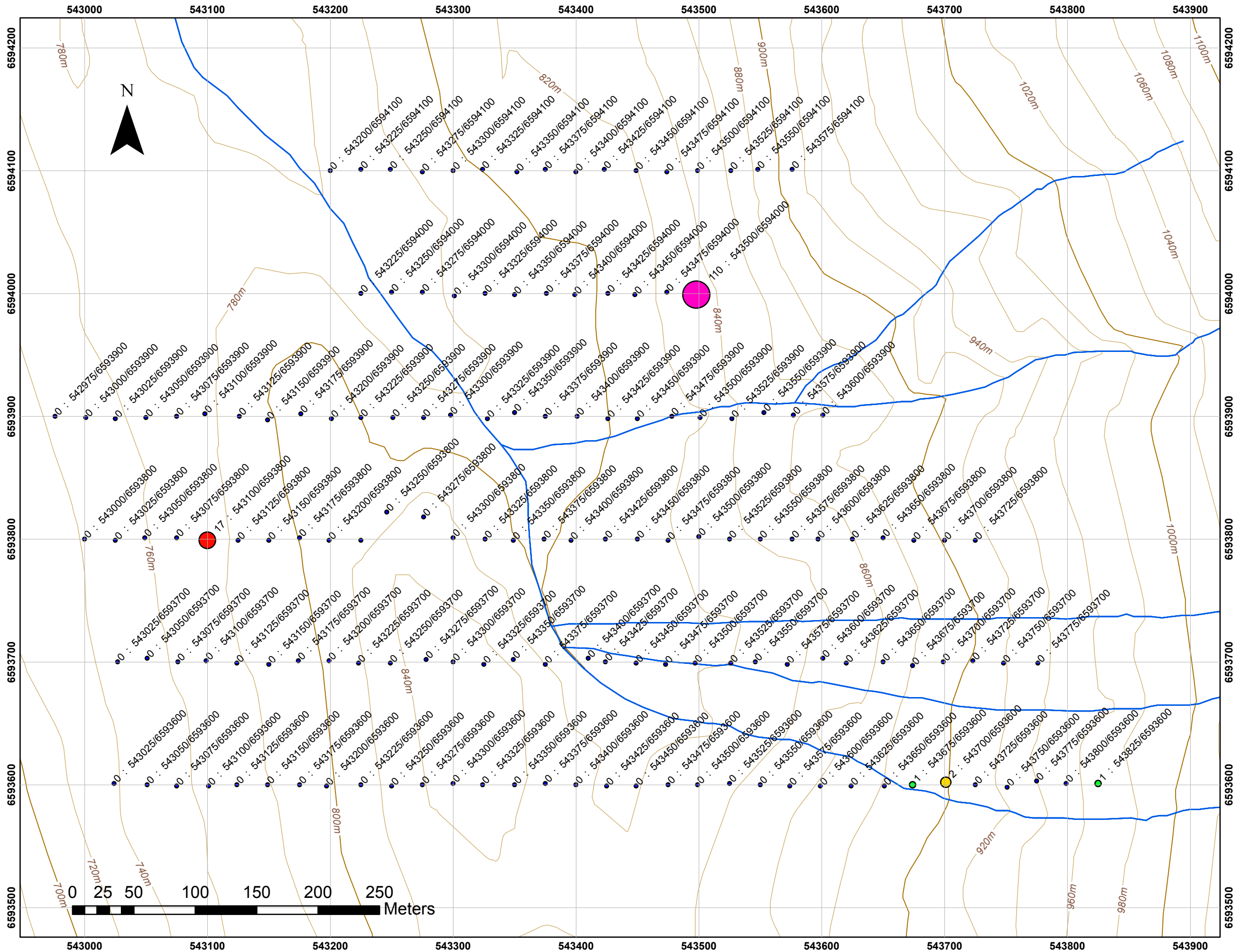
Engineer_2016_MMI_Gd

Gd_ppb

- 1.200000 - 17.100000
- 17.100001 - 34.600000
- 34.600001 - 67.500000
- 67.500001 - 131.000000
- 131.000001 - 262.000000

Labels:
value : sample number

Hg



Legend

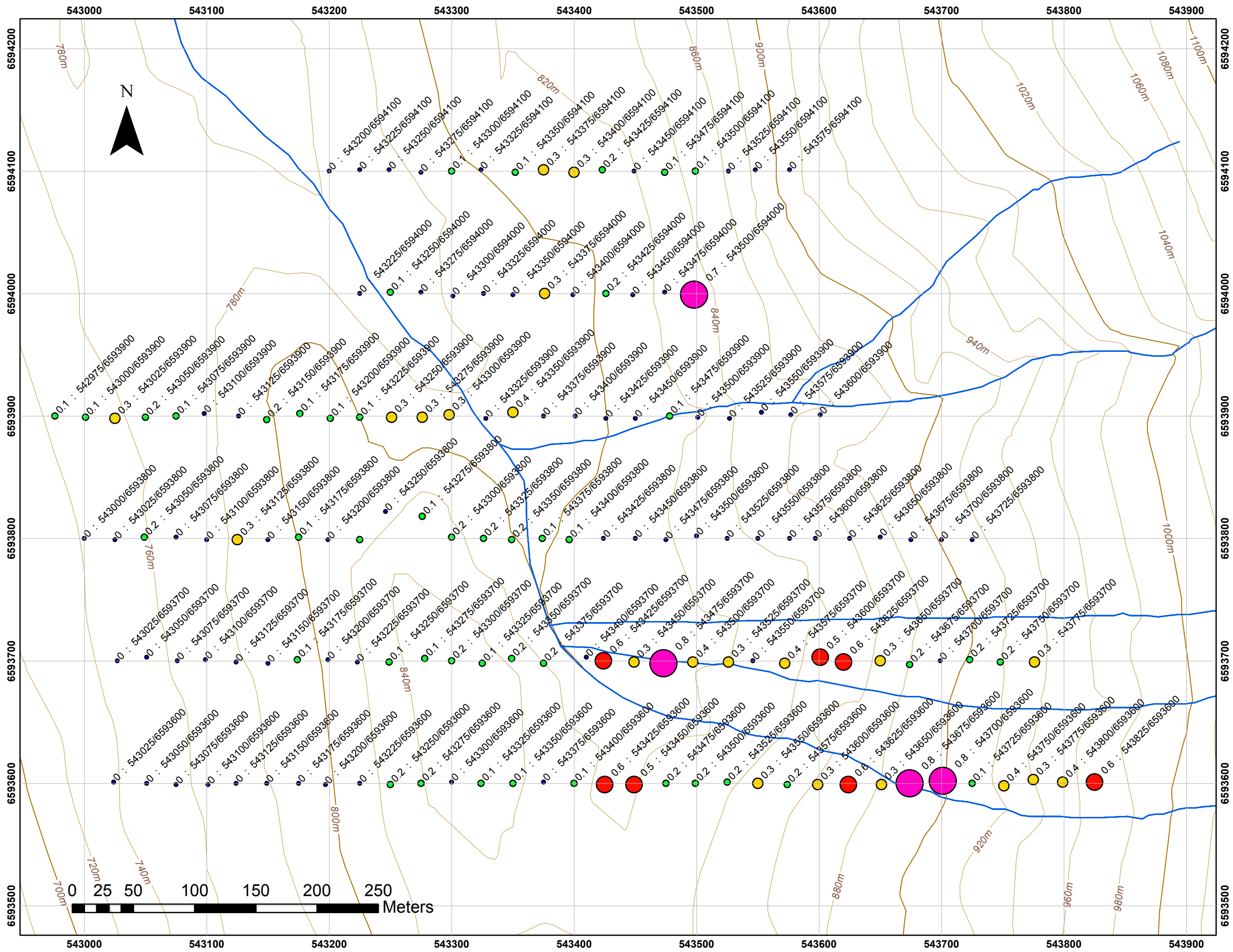
Engineer_2016_MMI_Hg

Hg_ppb

- 0.00000
- 0.00001 - 1.00000
- 1.00001 - 2.00000
- 2.00001 - 17.00000
- 17.00001 - 110.00000

Labels:
value : sample number

In



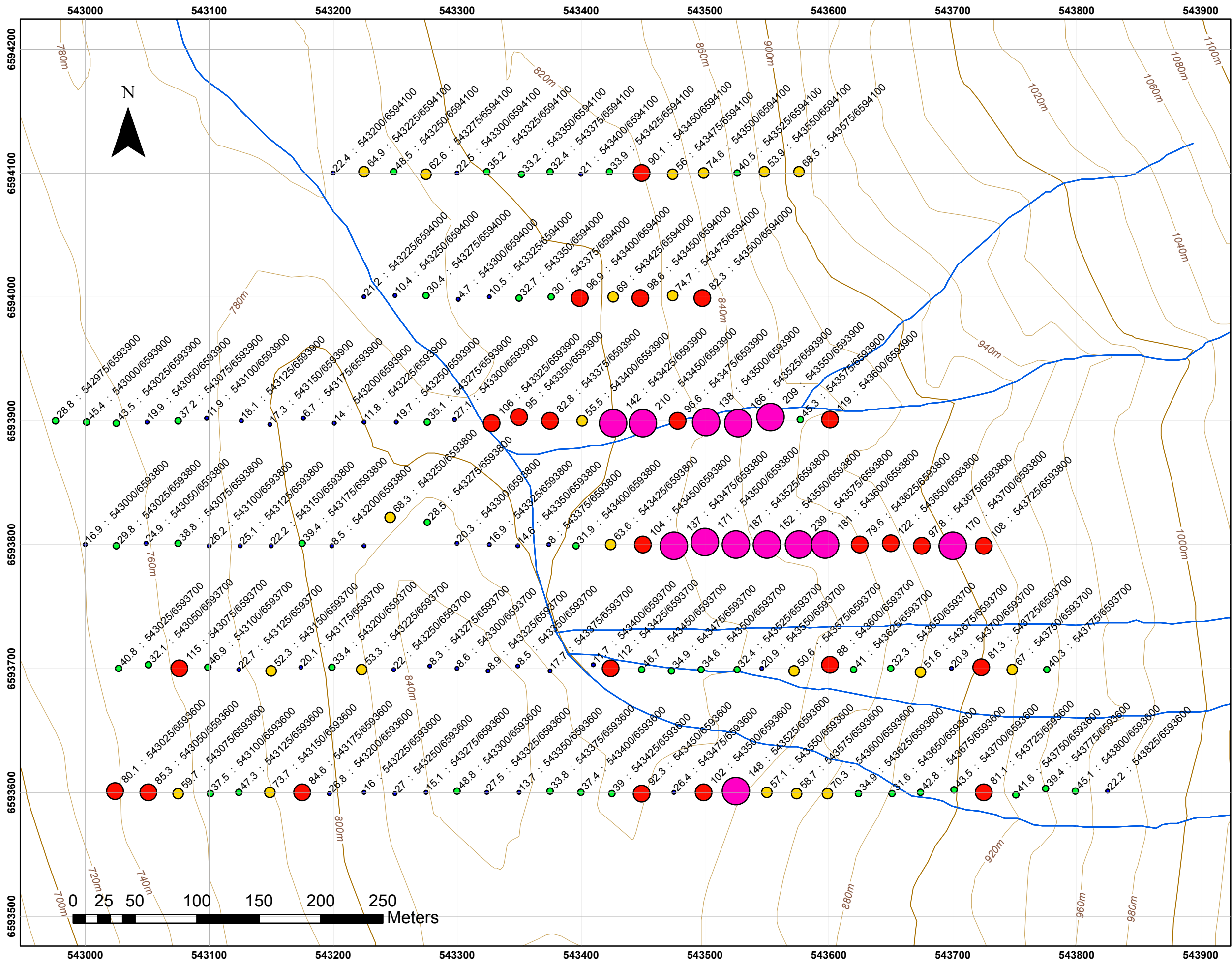
Legend

Engineer_2016_MMI_In

In_ppb

- 0.00000
- 0.00001 - 0.20000
- 0.20001 - 0.40000
- 0.40001 - 0.60000
- 0.60001 - 0.80000

Labels:
value : sample number



Legend

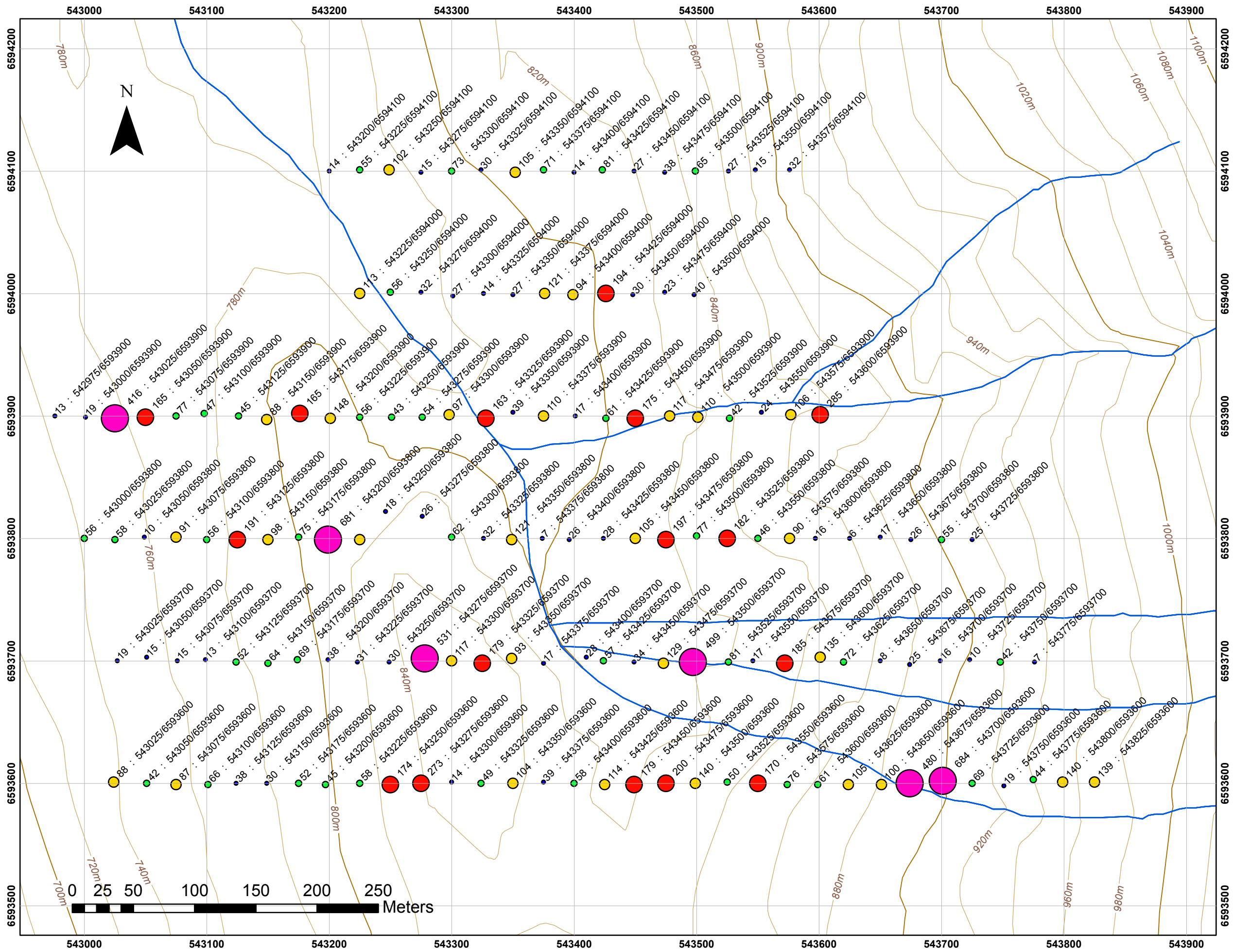
Engineer_2016_MMI_K

K_ppm

- 4.700000 - 27.500000
- 27.500001 - 48.800000
- 48.800001 - 74.700000
- 74.700001 - 122.000000
- 122.000001 - 239.000000

Labels:
value : sample number

La



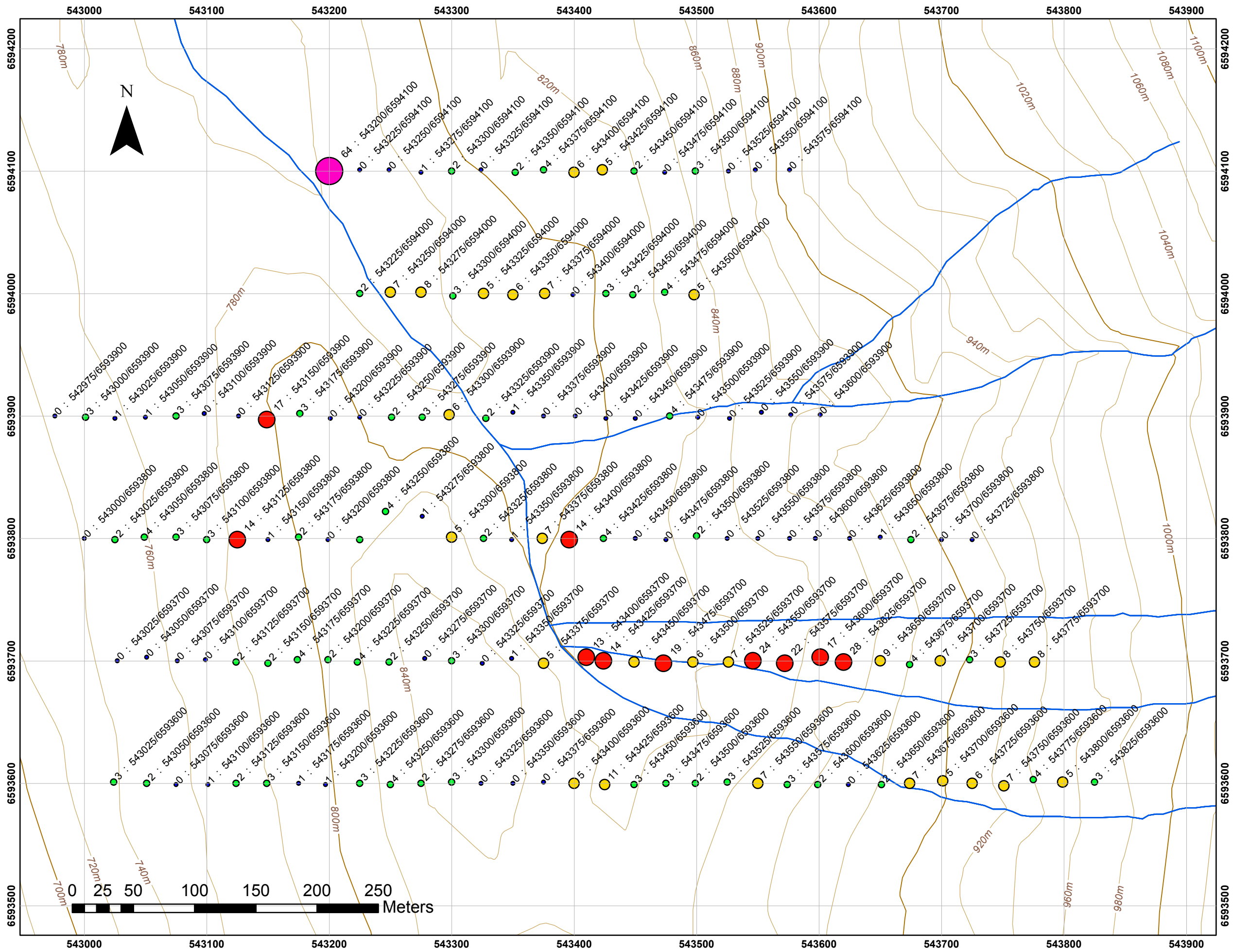
Legend

Engineer_2016_MMI_La

La_ppb

- 6.000000 - 40.000000
- 40.000001 - 81.000000
- 81.000001 - 148.000000
- 148.000001 - 285.000000
- 285.000001 - 684.000000

Labels:
value : sample number



Legend

Engineer_2016_MMI_Li

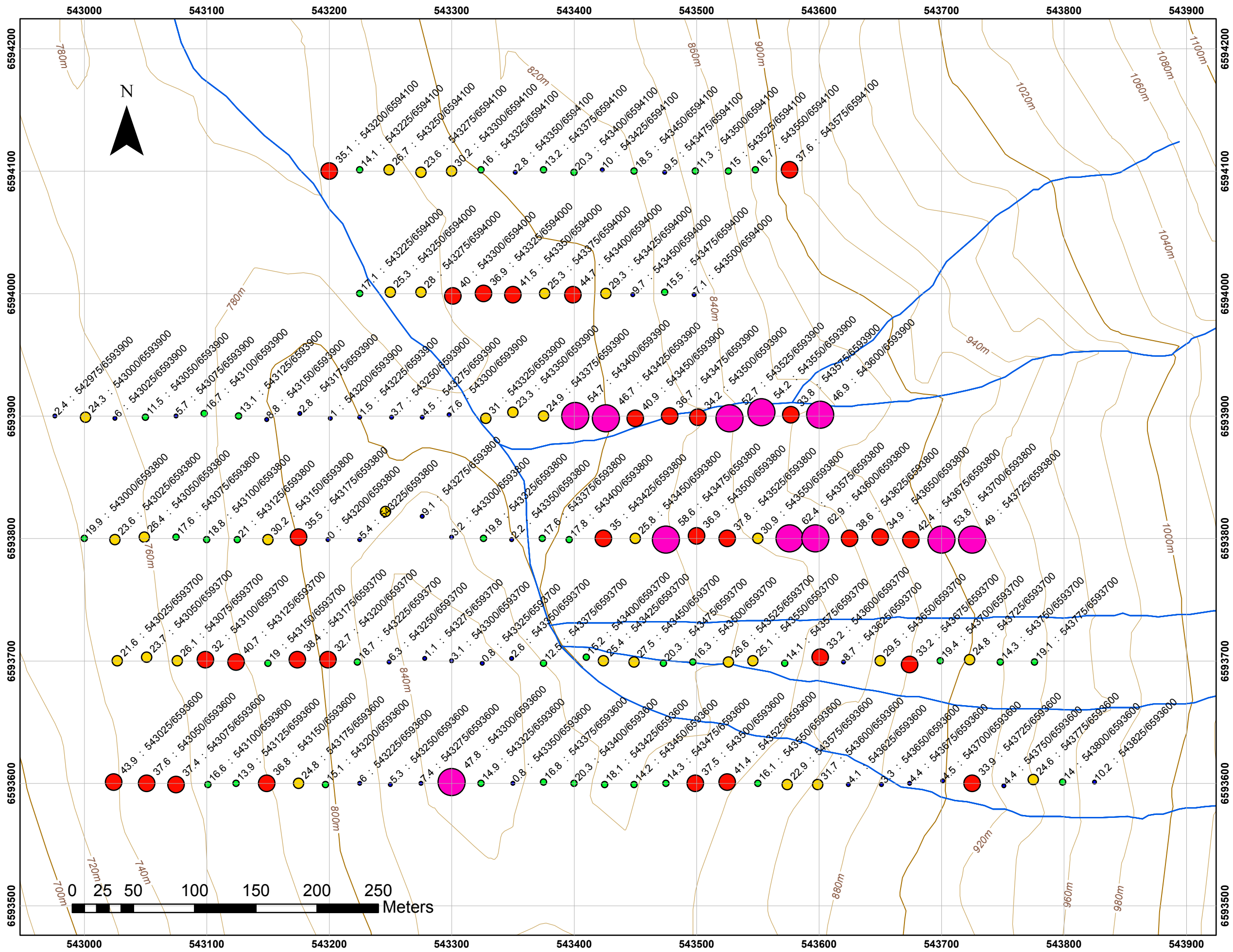
Li_ppb

- 0.00000 - 1.00000
- 1.00001 - 4.00000
- 4.00001 - 11.00000
- 11.00001 - 28.00000
- 28.00001 - 64.00000

Labels:
value : sample number

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Mg



Legend

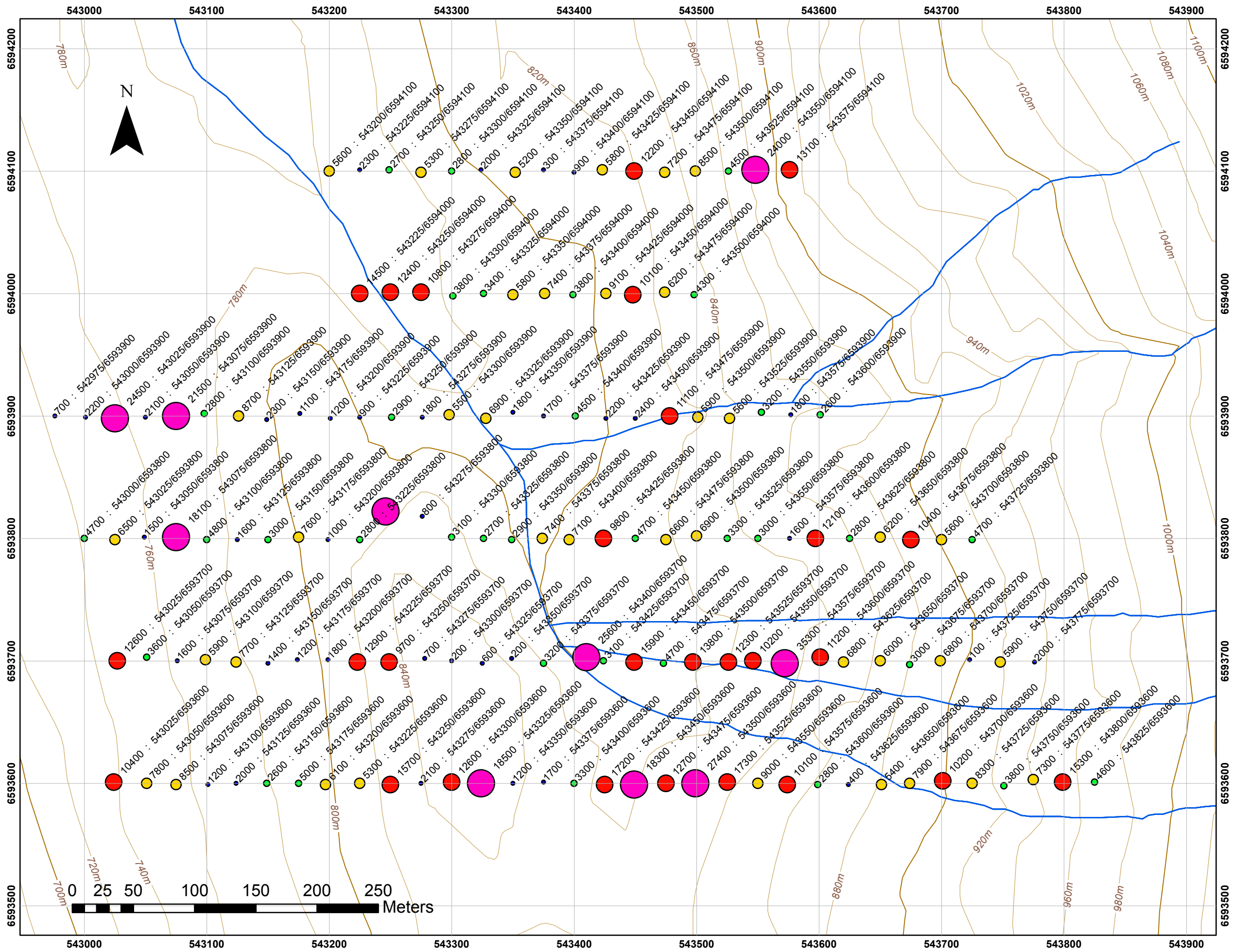
Engineer_2016_MMI_Mg

Mg_ppm

- 0.00000 - 10.20000
- 10.20001 - 21.00000
- 21.00001 - 31.70000
- 31.70001 - 44.70000
- 44.70001 - 62.90000

Labels:
value : sample number

Mn



Legend

Engineer_2016_MMI_Mn

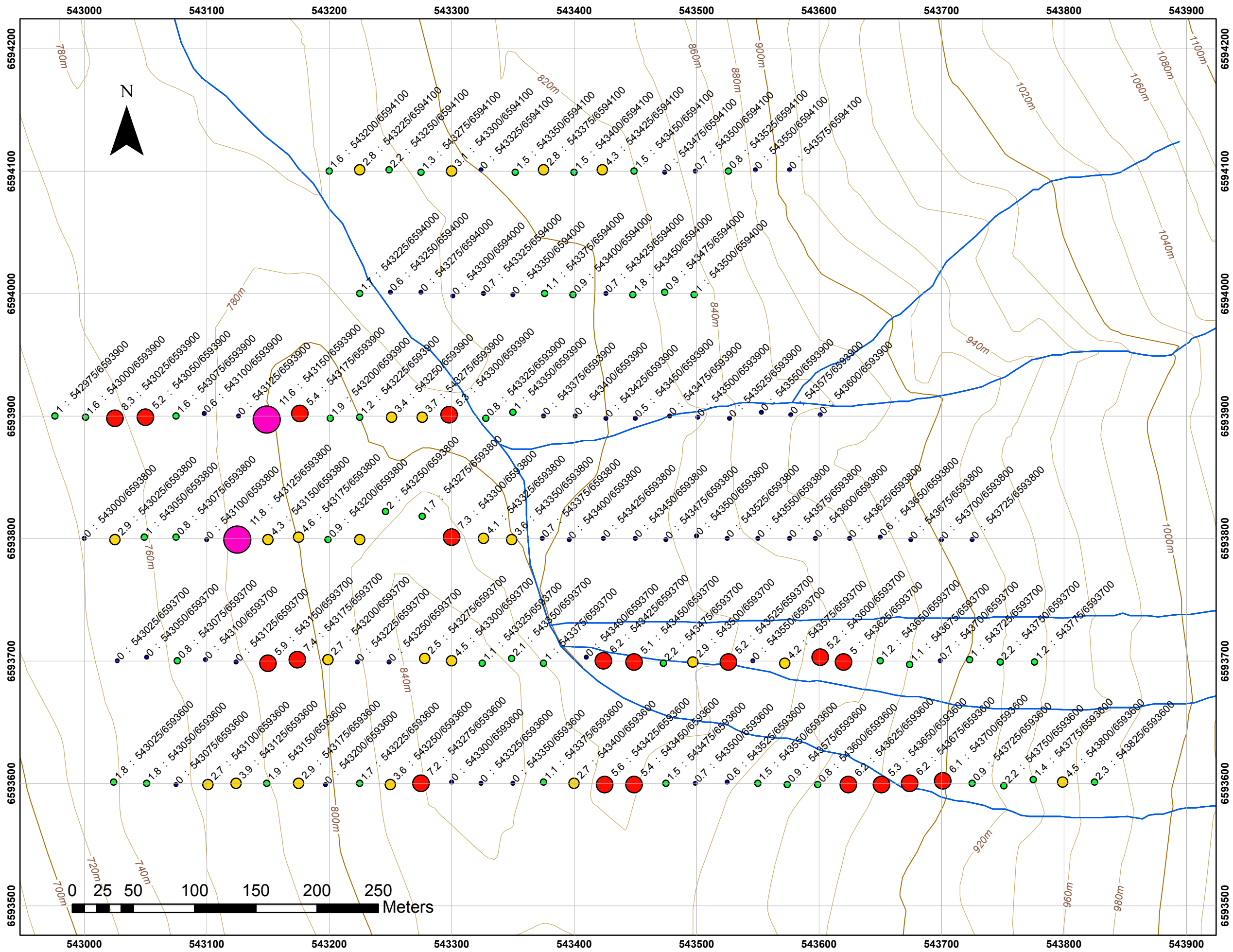
Mn_ppb

- 100.000000 - 2400.000000
- 2400.000001 - 5000.000000
- 5000.000001 - 9100.000000
- 9100.000001 - 17300.000000
- 17300.000001 - 35300.000000

Labels:
value : sample number

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Nb



Legend

Engineer_2016_MMI_Nb

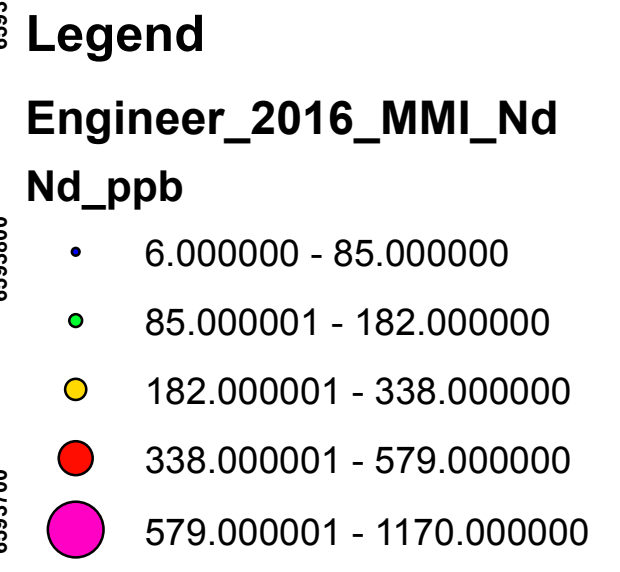
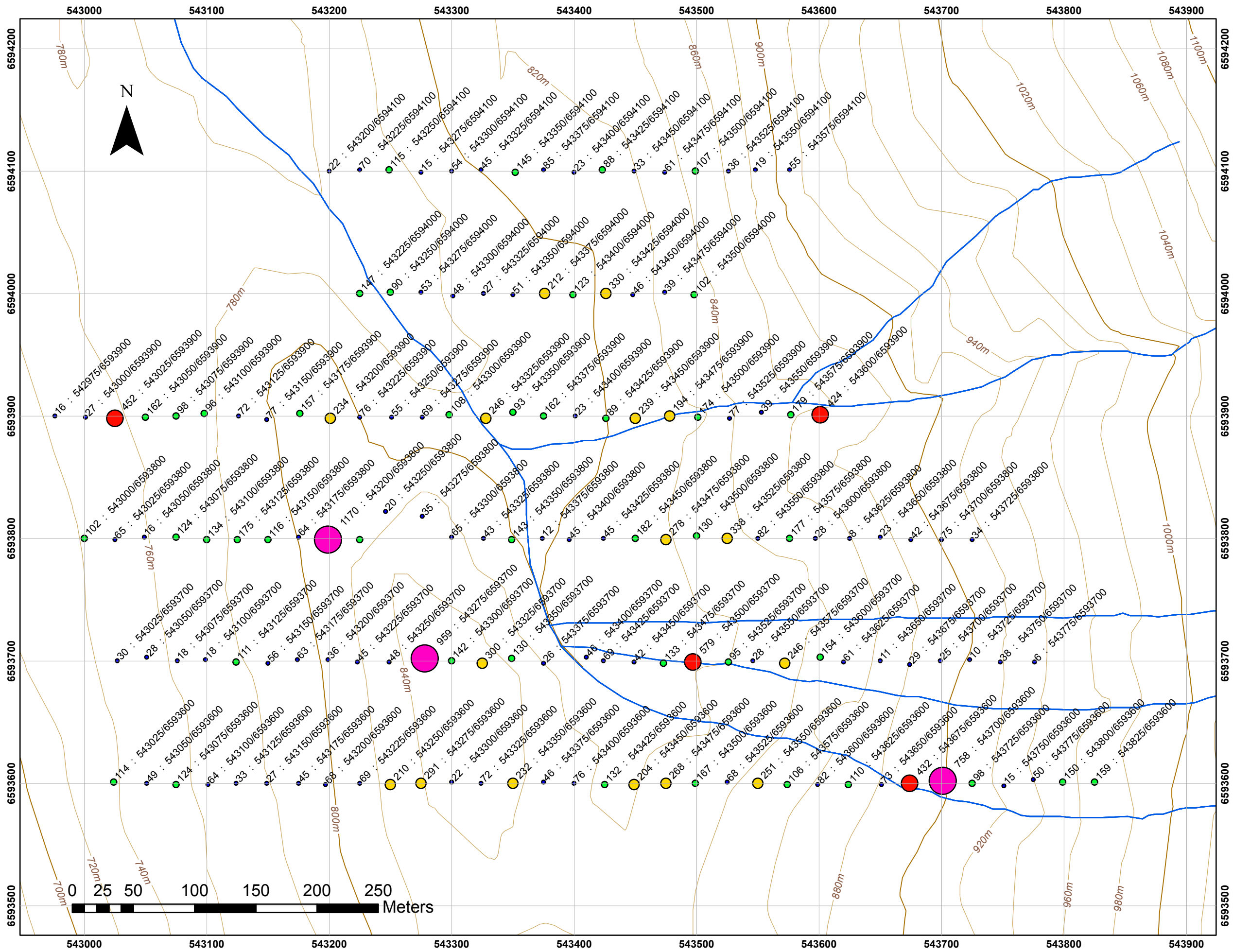
Nb_ppb

- 0.00000 - 0.70000
- 0.70001 - 2.30000
- 2.30001 - 4.60000
- 4.60001 - 8.30000
- 8.30001 - 11.80000

Labels:
value : sample number

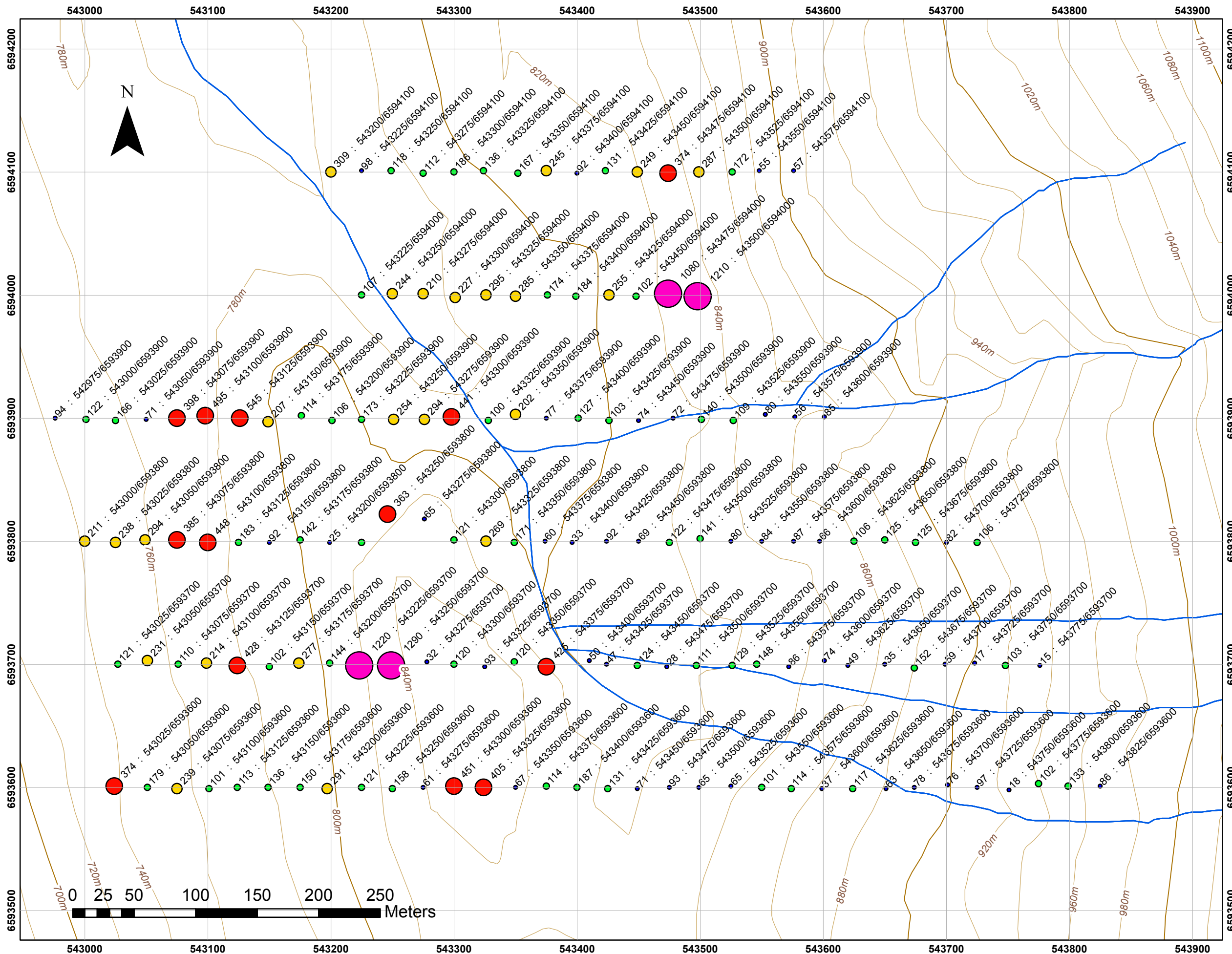
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Nd



Labels:
value : sample number

Ni



Legend

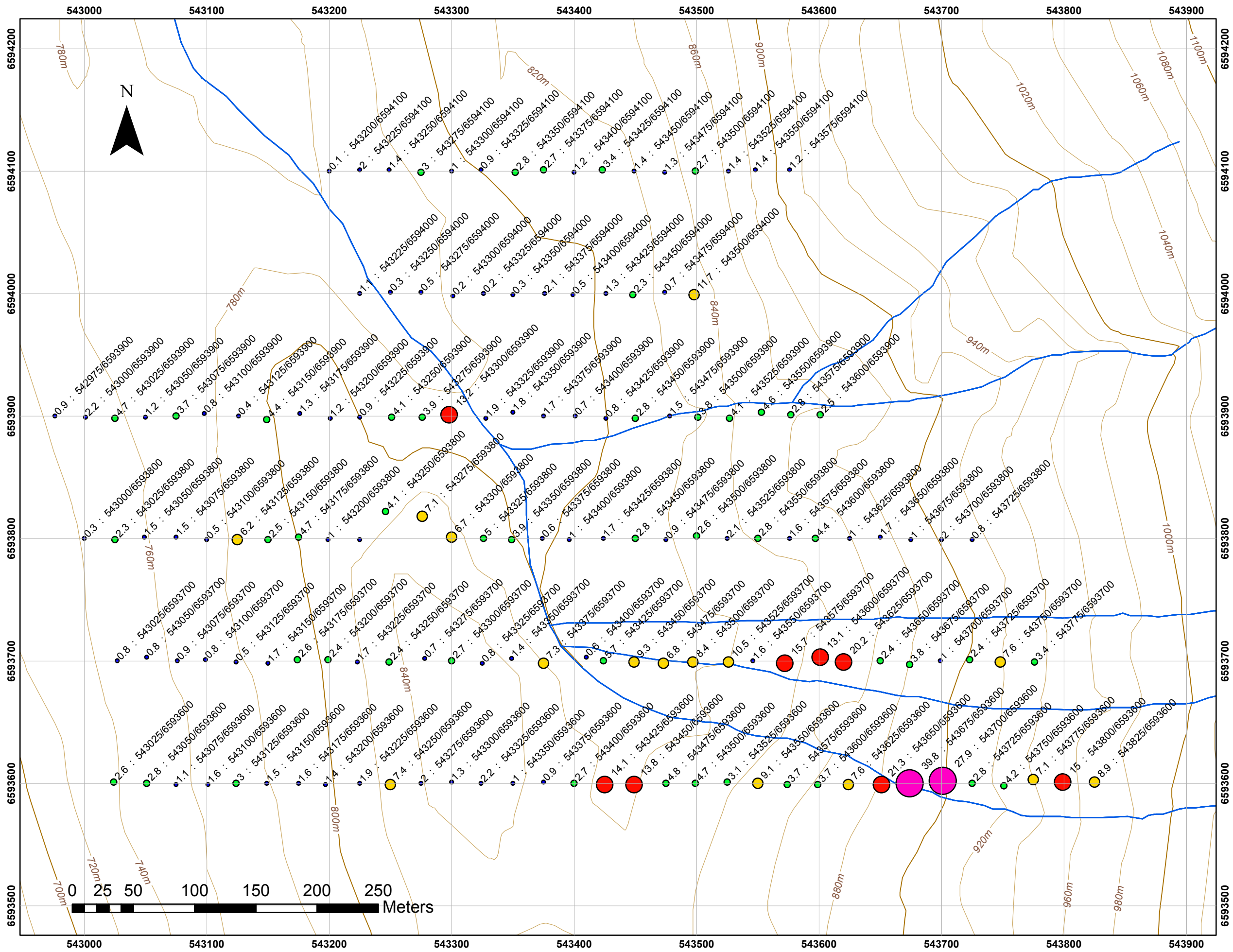
Engineer_2016_MMI_Ni

Ni_ppb

- 15.00000 - 98.00000
- 98.00001 - 187.00000
- 187.00001 - 309.00000
- 309.00001 - 545.00000
- 545.00001 - 1290.00000

Labels:
value : sample number

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P

Legend

Engineer_2016_MMI_P

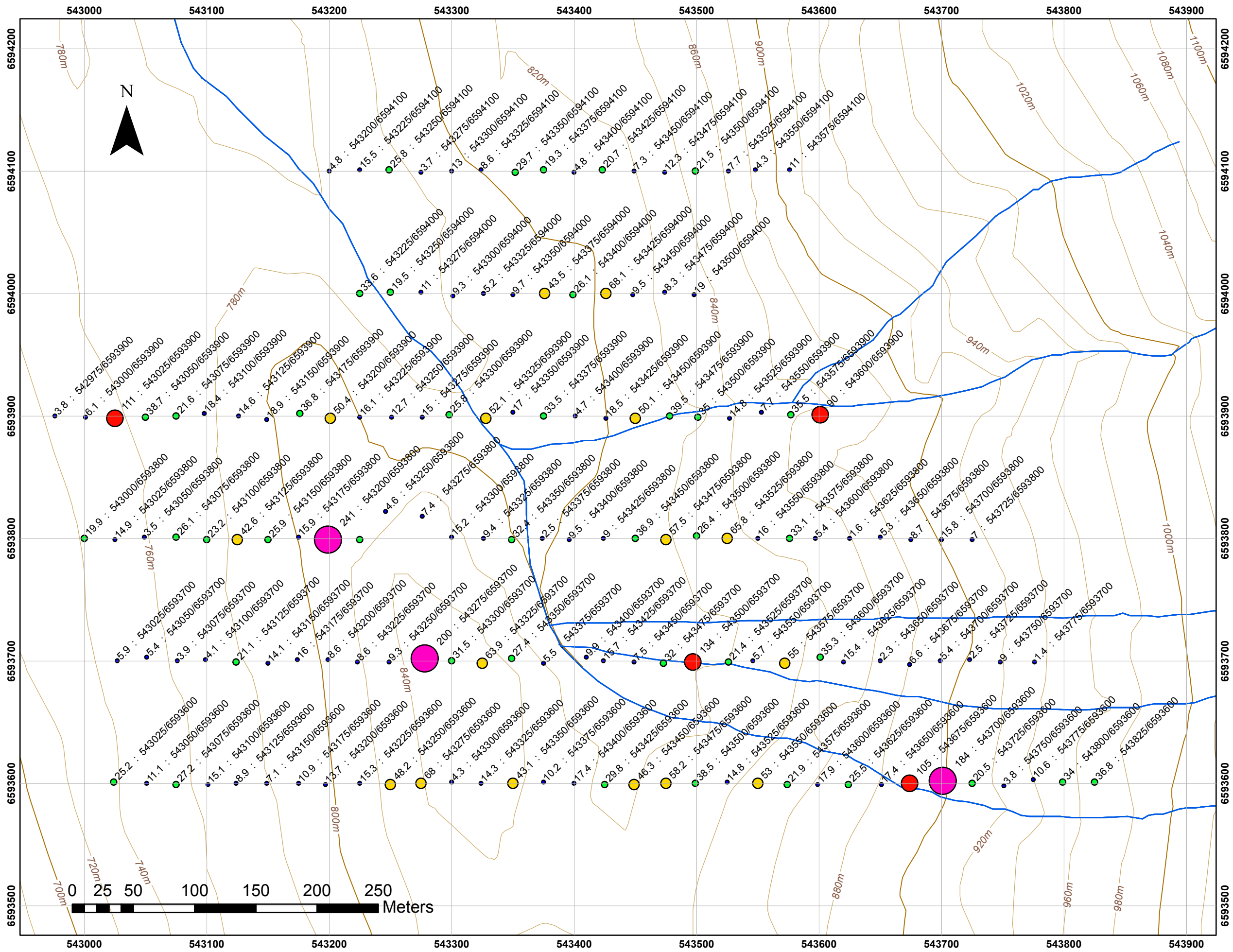
P_ppm

- 0.10000 - 2.20000
- 2.20001 - 5.70000
- 5.70001 - 11.70000
- 11.70001 - 21.30000
- 21.30001 - 39.80000

Labels:
value : sample number

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Pr



Legend

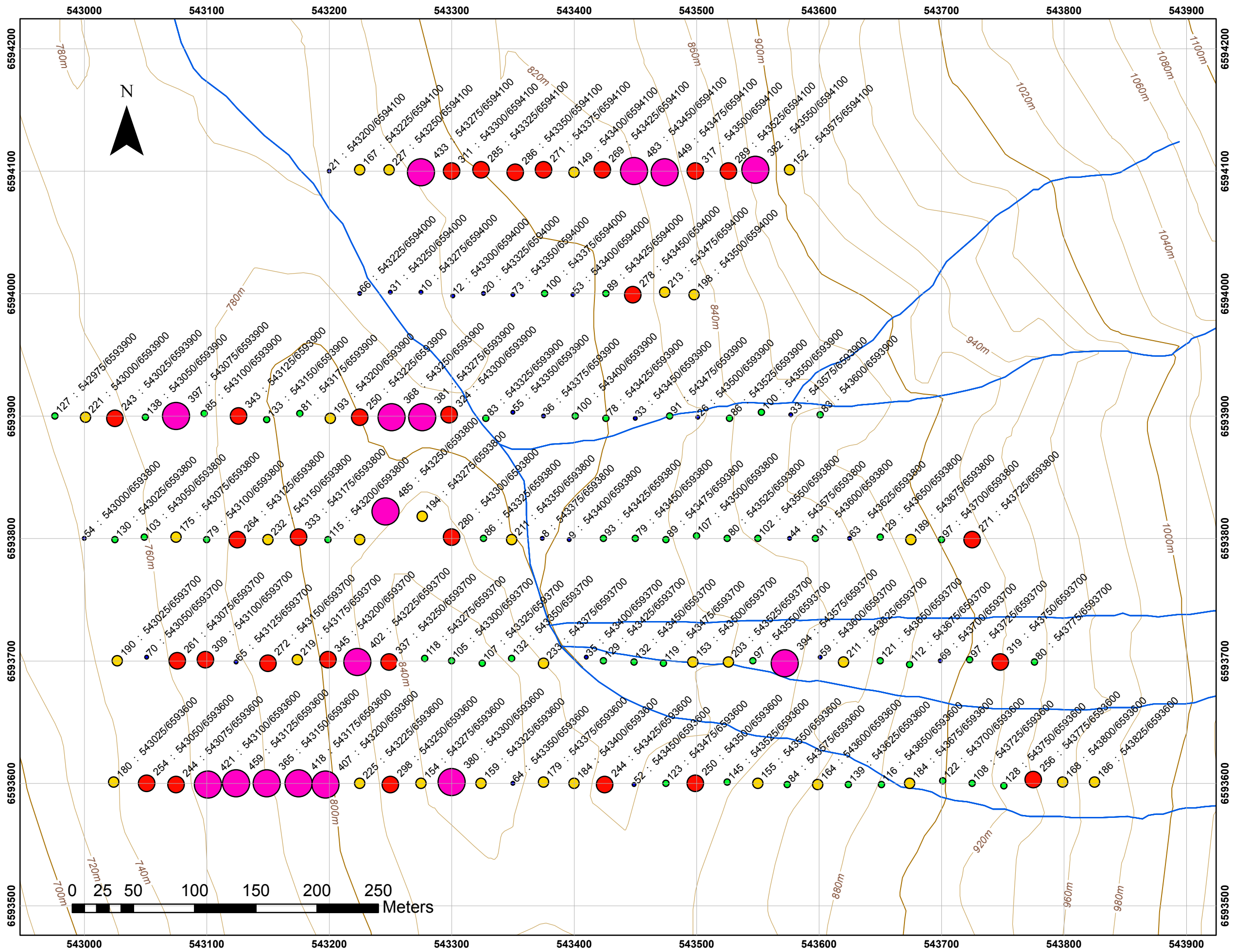
Engineer_2016_MMI_Pr

Pr_ppb

- 1.40000 - 19.00000
- 19.00001 - 39.50000
- 39.50001 - 68.10000
- 68.10001 - 134.00000
- 134.00001 - 241.00000

Labels:
value : sample number

Rb



Legend

Engineer_2016_MMI_Rb

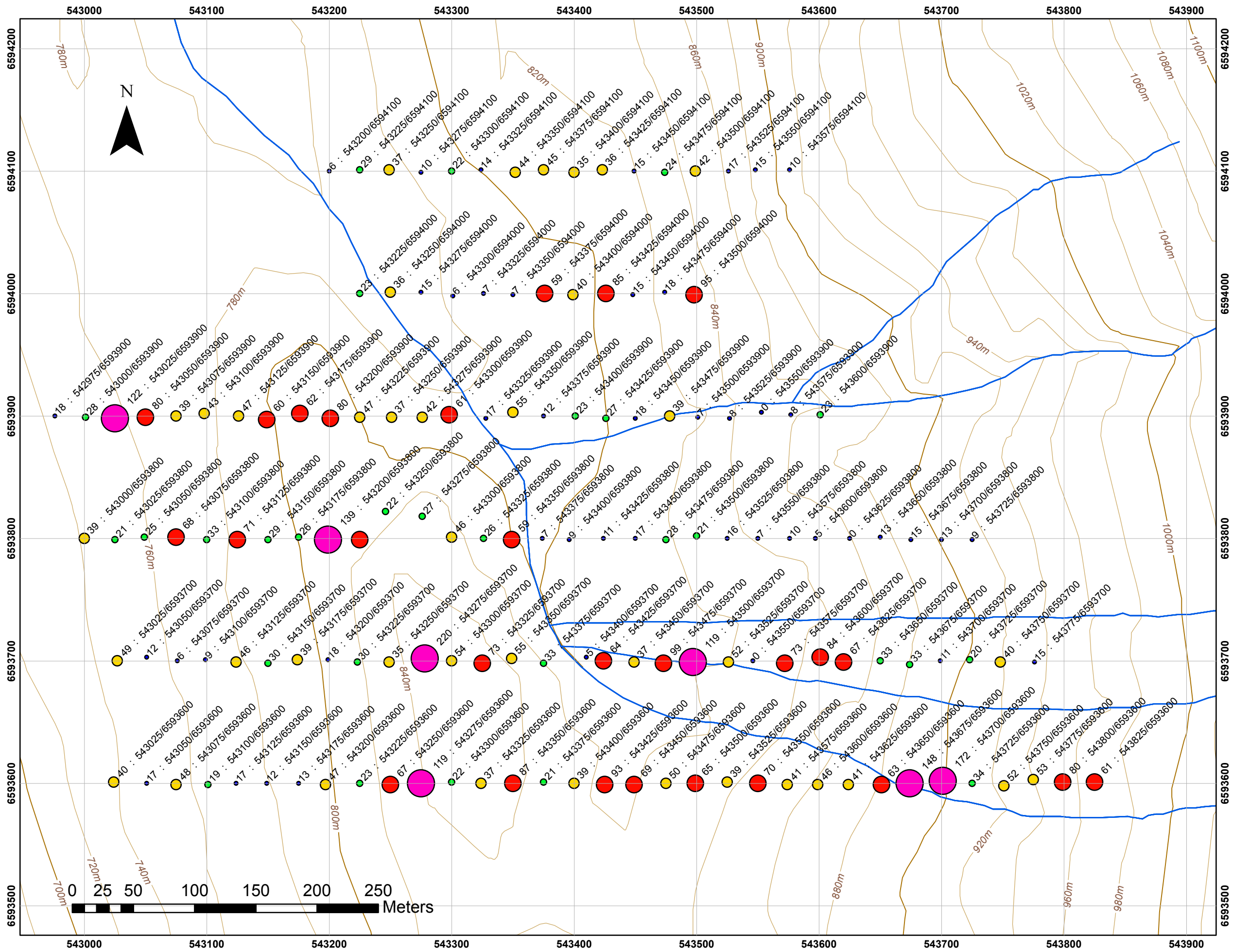
Rb_ppb

- 8.000000 - 73.000000
- 73.000001 - 145.000000
- 145.000001 - 233.000000
- 233.000001 - 345.000000
- 345.000001 - 485.000000

Labels:
value : sample number

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Sc



Legend

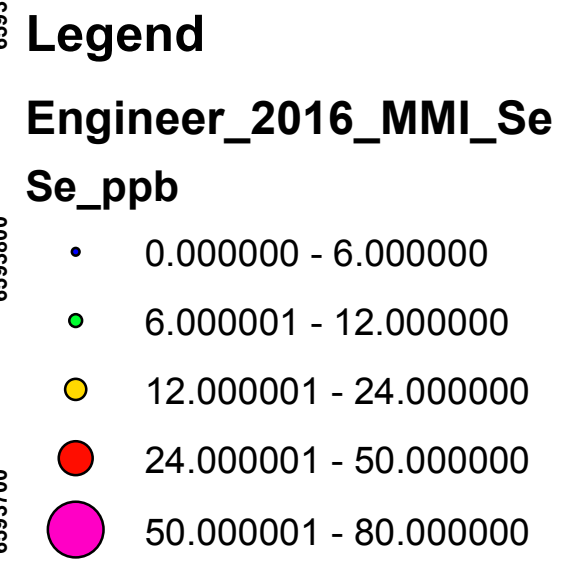
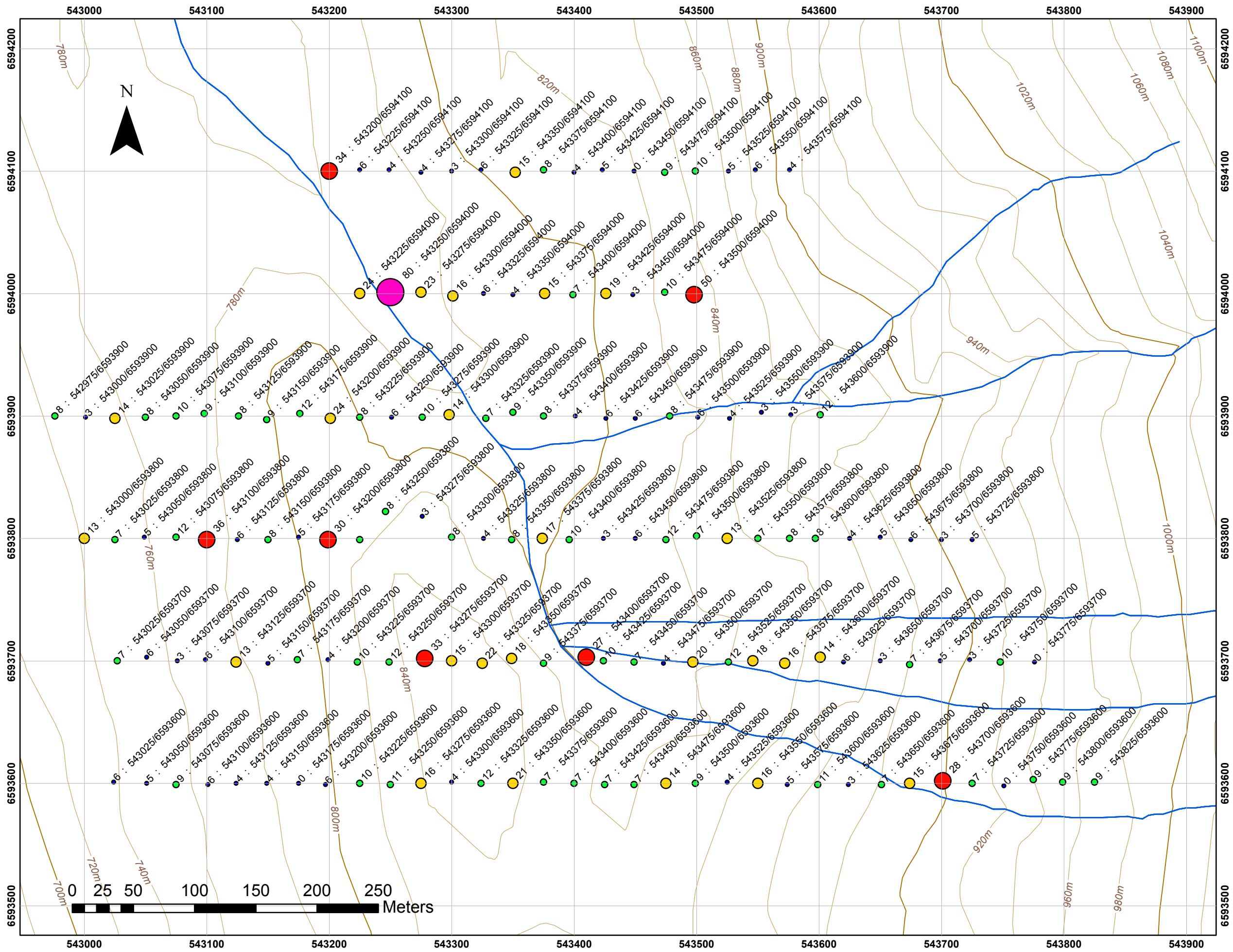
Engineer_2016_MMI_Sc

Sc_ppb

- 0.00000 - 18.00000
- 18.00001 - 34.00000
- 34.00001 - 55.00000
- 55.00001 - 99.00000
- 99.00001 - 220.00000

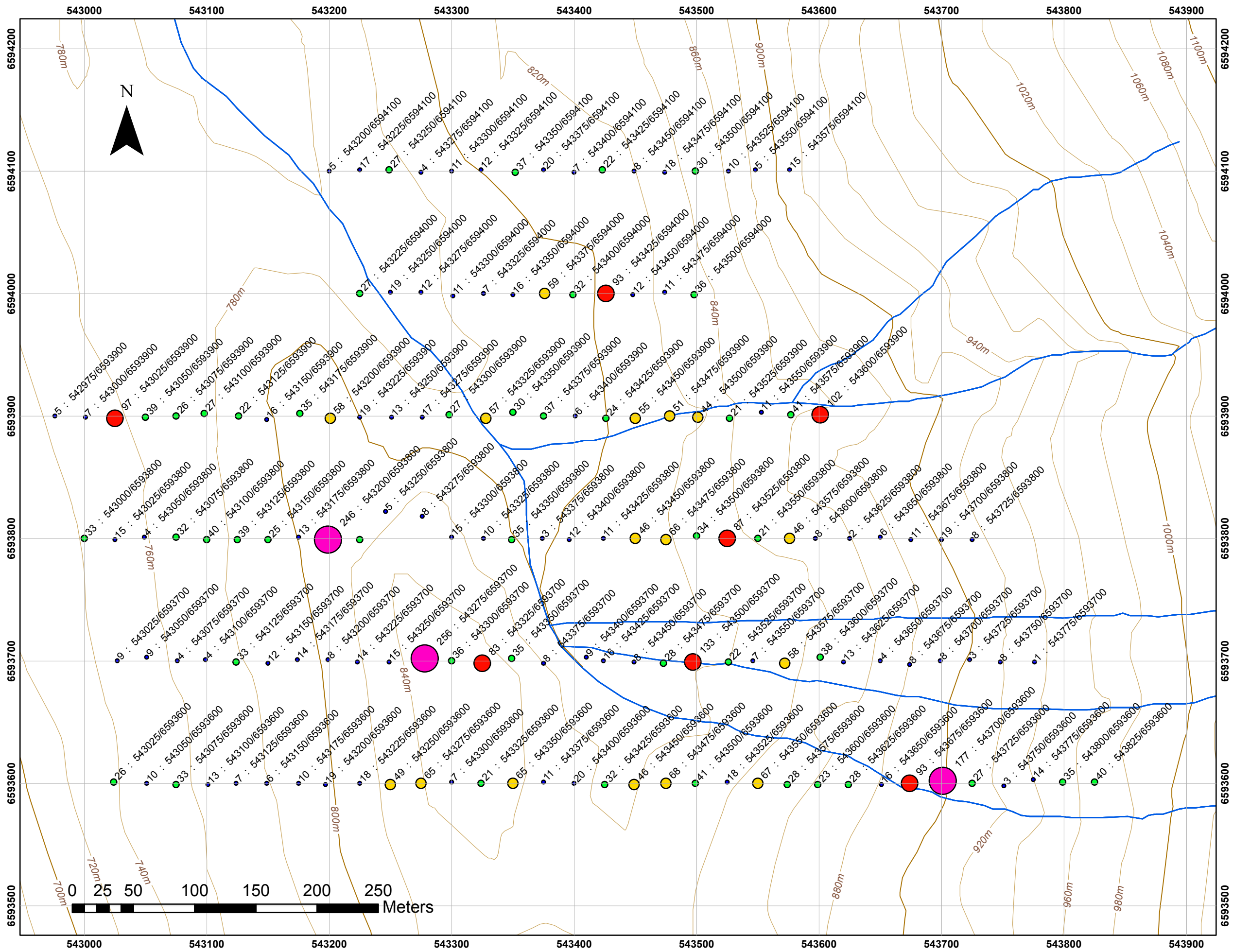
Labels:
value : sample number

Se



Labels:
value : sample number

Sm



Legend

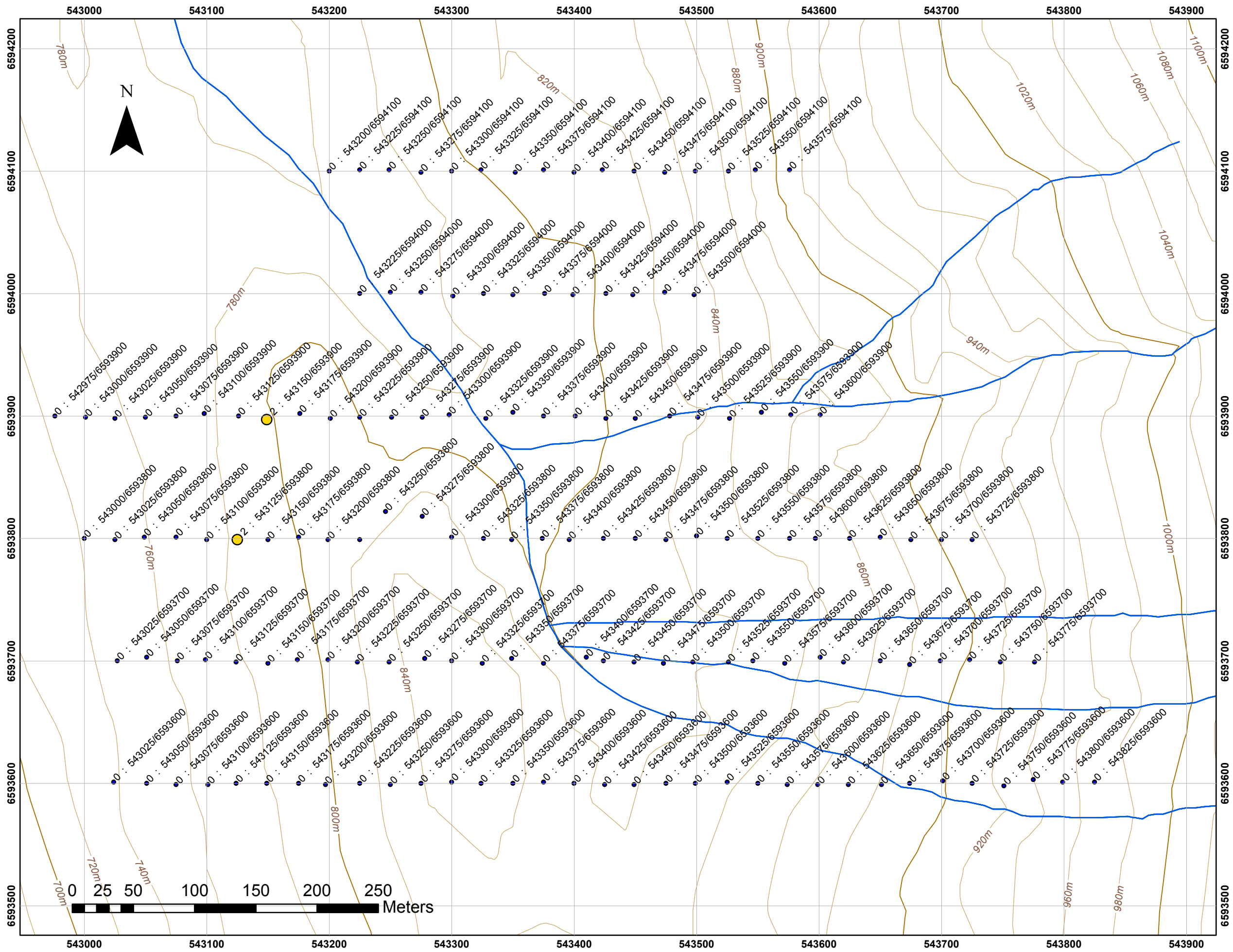
Engineer_2016_MMI_Sm

Sm_ppb

- 1.000000 - 20.000000
- 20.000001 - 41.000000
- 41.000001 - 68.000000
- 68.000001 - 133.000000
- 133.000001 - 256.000000

Labels:
value : sample number

Sn

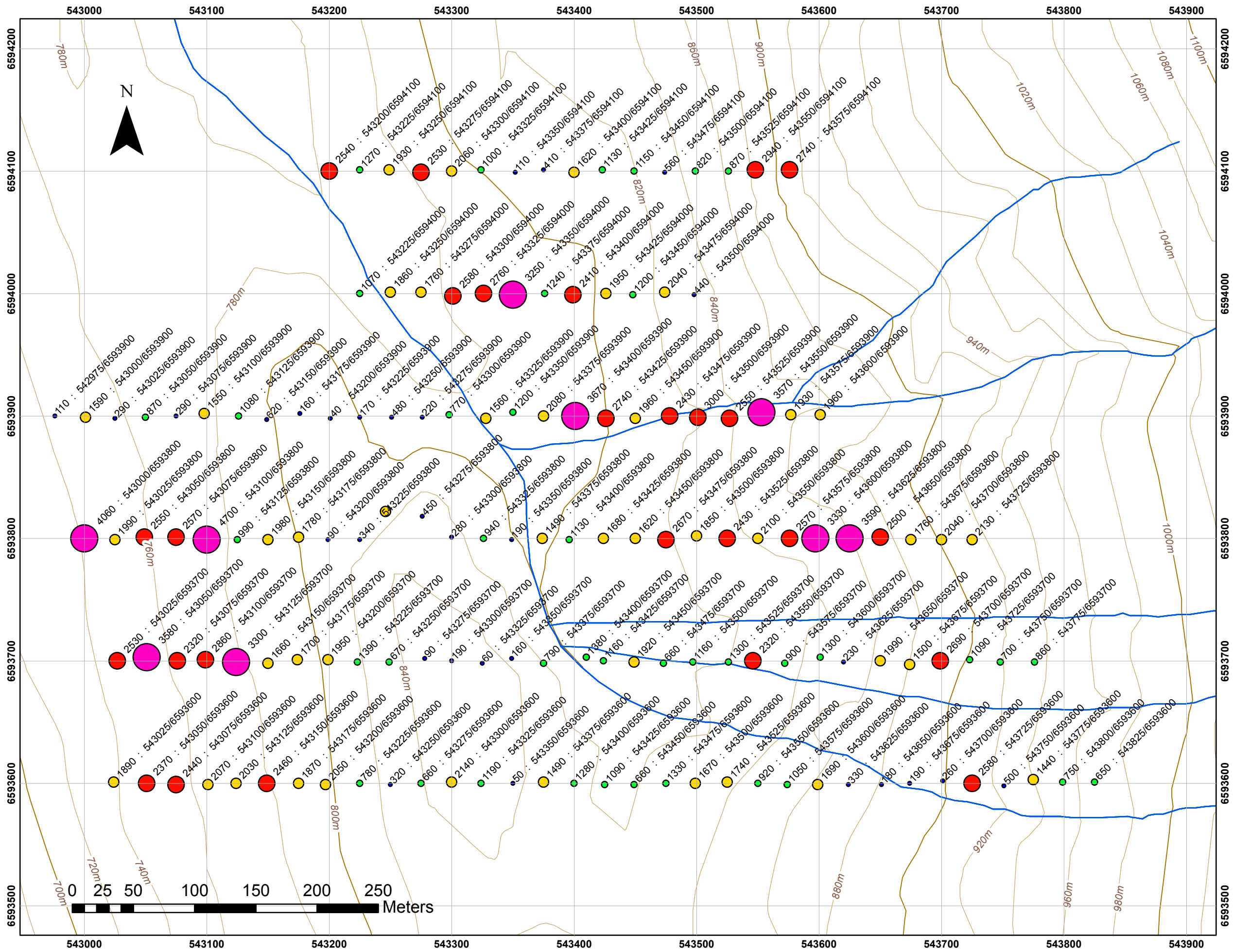


Legend
Engineer_2016_MMI_Sn
Sn_ppb

- 0.000000
- 0.000001 - 2.000000

Labels:
value : sample number

Sr



Legend

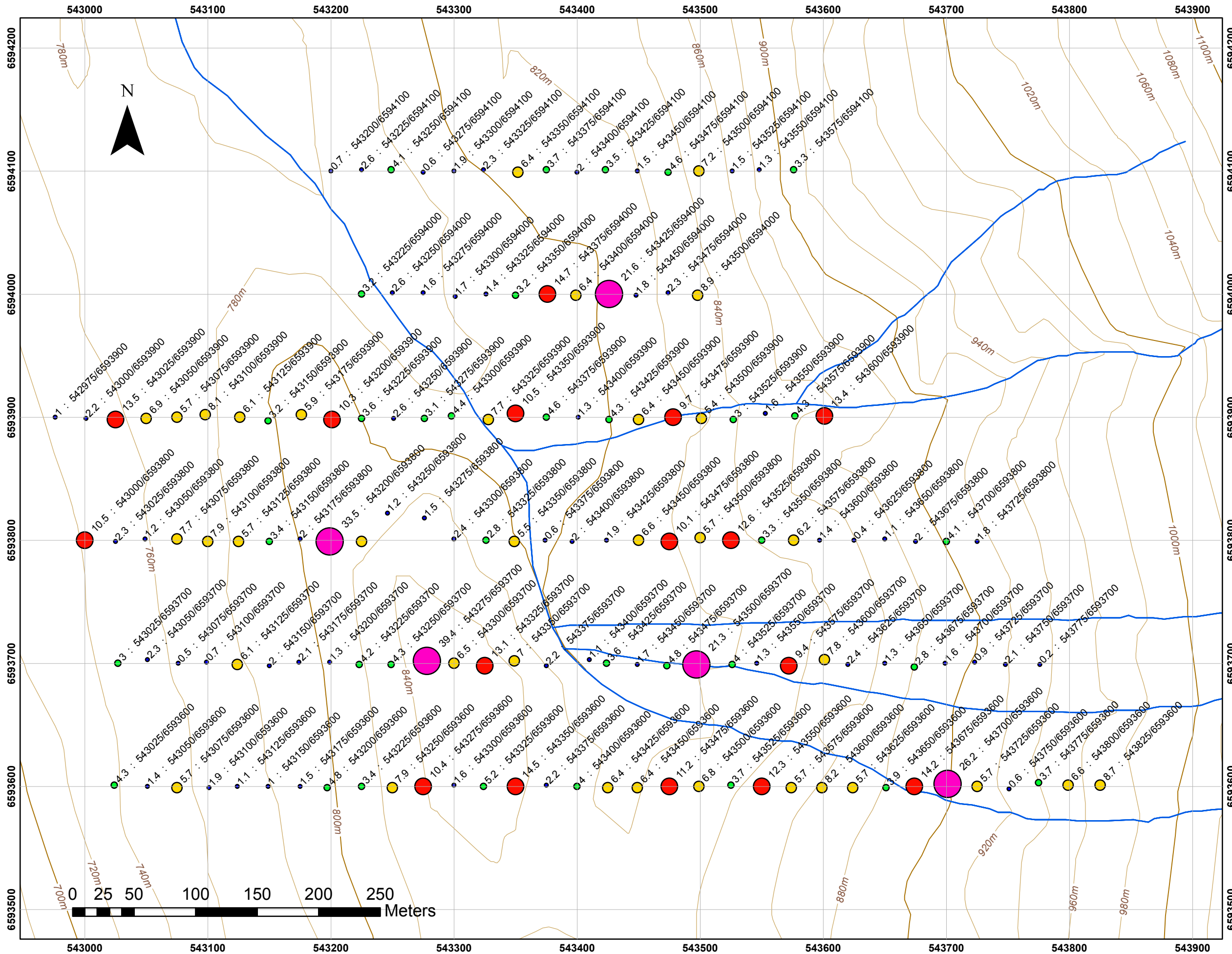
Engineer_2016_MMI_Sr

Sr_ppb

- 40.00000 - 620.00000
- 620.000001 - 1390.00000
- 1390.000001 - 2140.00000
- 2140.000001 - 3000.00000
- 3000.000001 - 4700.00000

Labels:
value : sample number

Tb



Legend

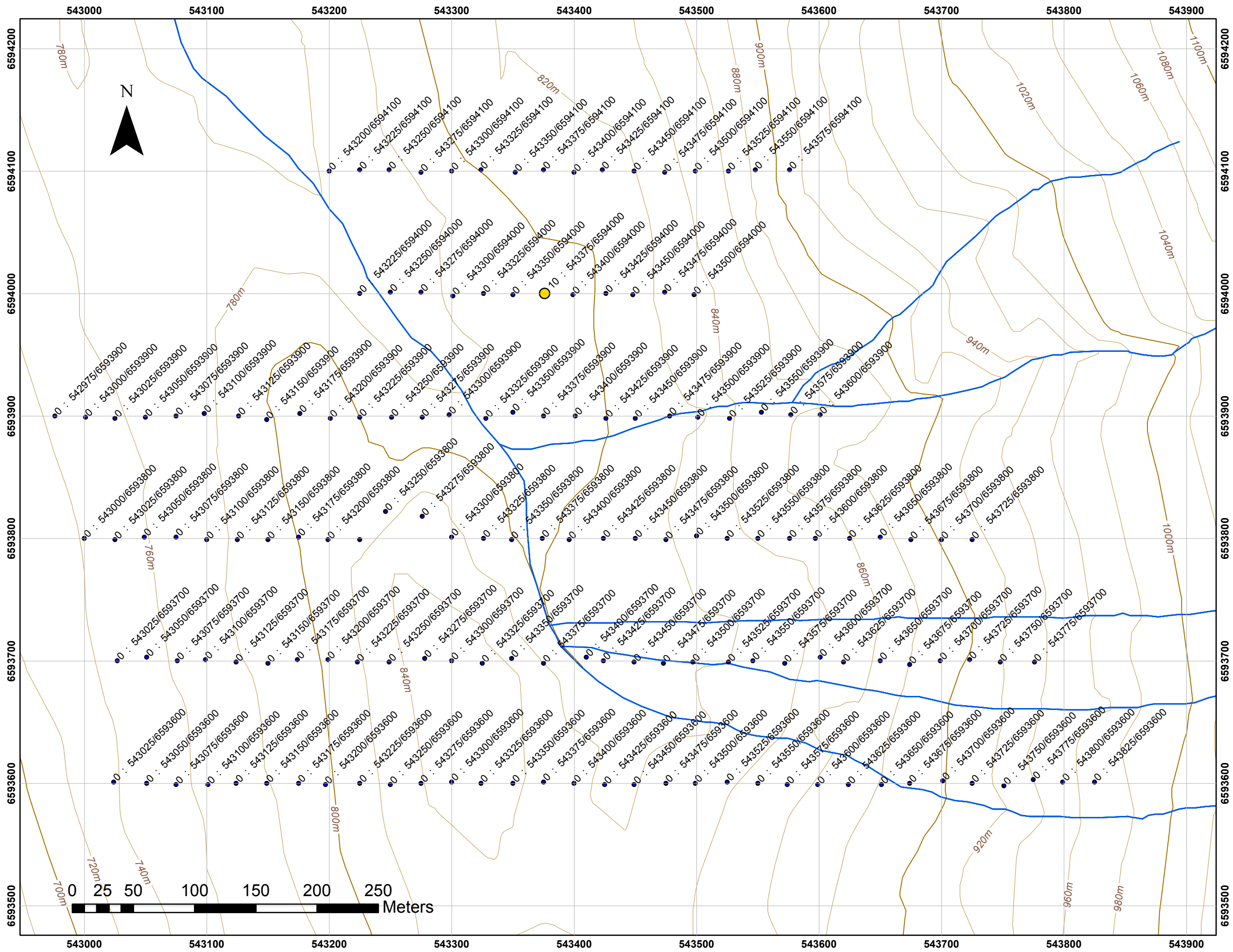
Engineer_2016_MMI_Tb

Tb_ppb

- 0.200000 - 2.600000
- 2.600001 - 5.200000
- 5.200001 - 8.900000
- 8.900001 - 14.700000
- 14.700001 - 39.400000

Labels:
value : sample number

Te

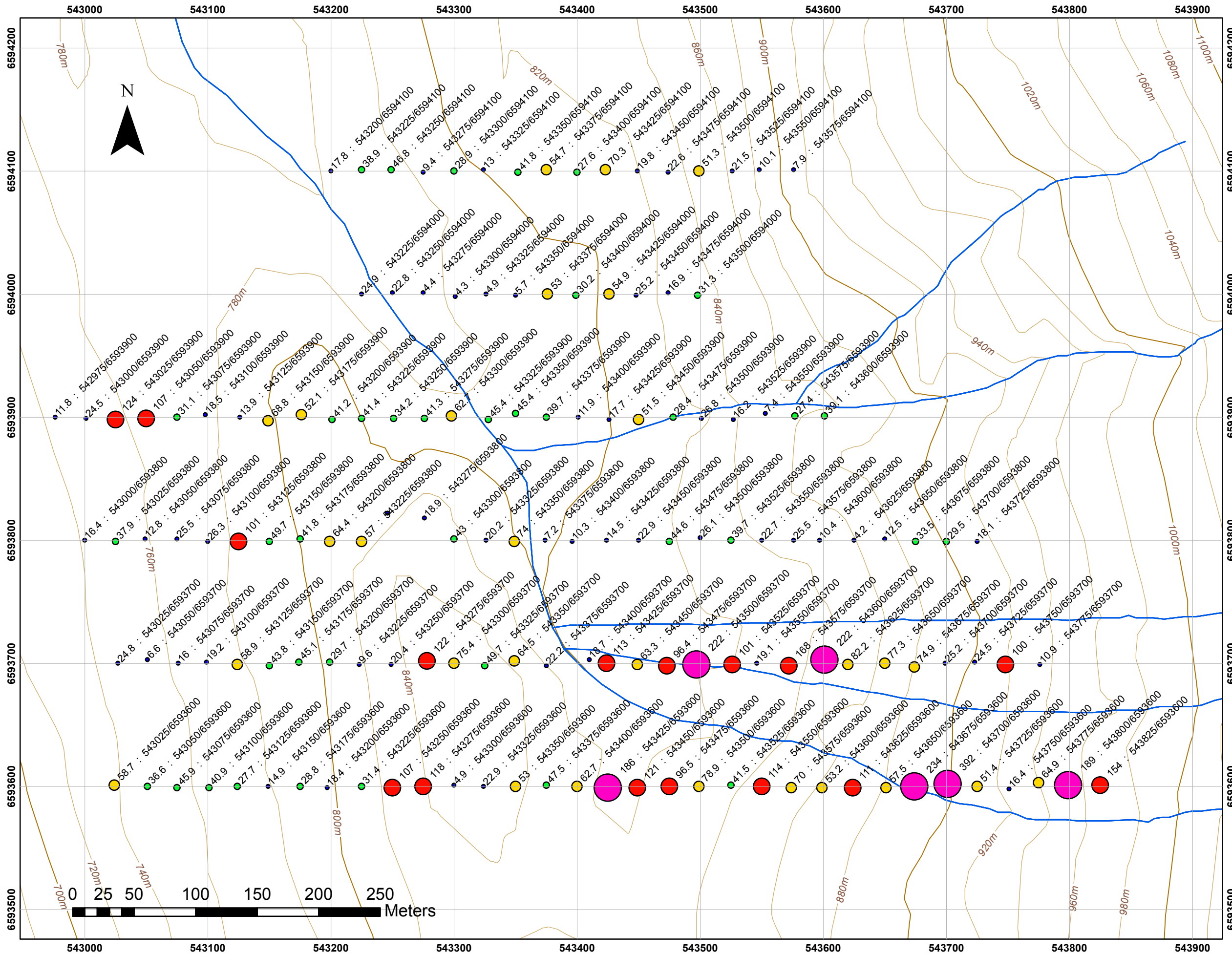


Legend
Engineer_2016_MMI_Te
Te_ppb

- 0.000000
- 0.000001 - 10.000000

Labels:
value : sample number

Th



Legend

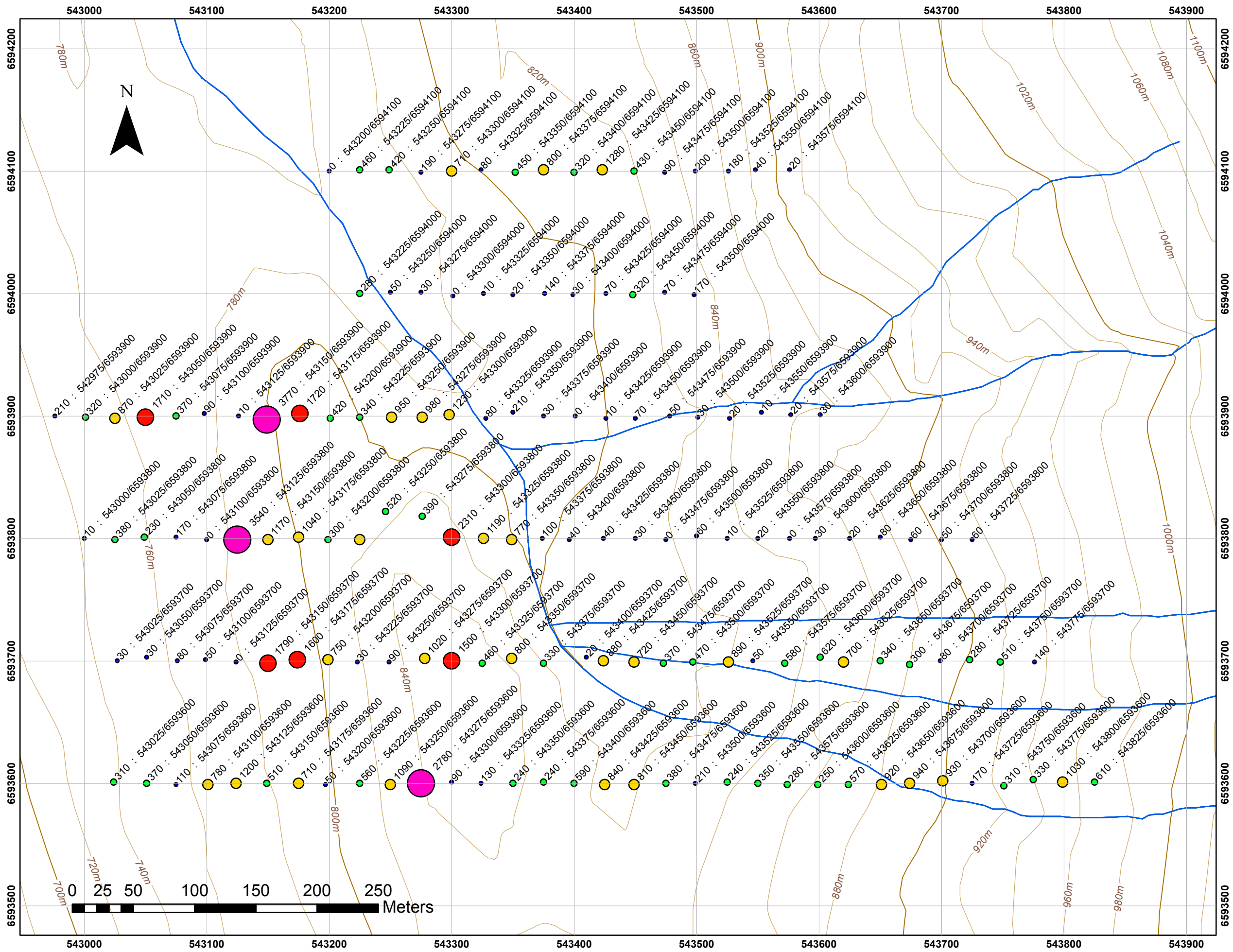
Engineer_2016_MMI_Th

Th_ppb

- 4.200000 - 26.800000
- 26.800001 - 49.700000
- 49.700001 - 82.200000
- 82.200001 - 168.000000
- 168.000001 - 392.000000

Labels:
value : sample number

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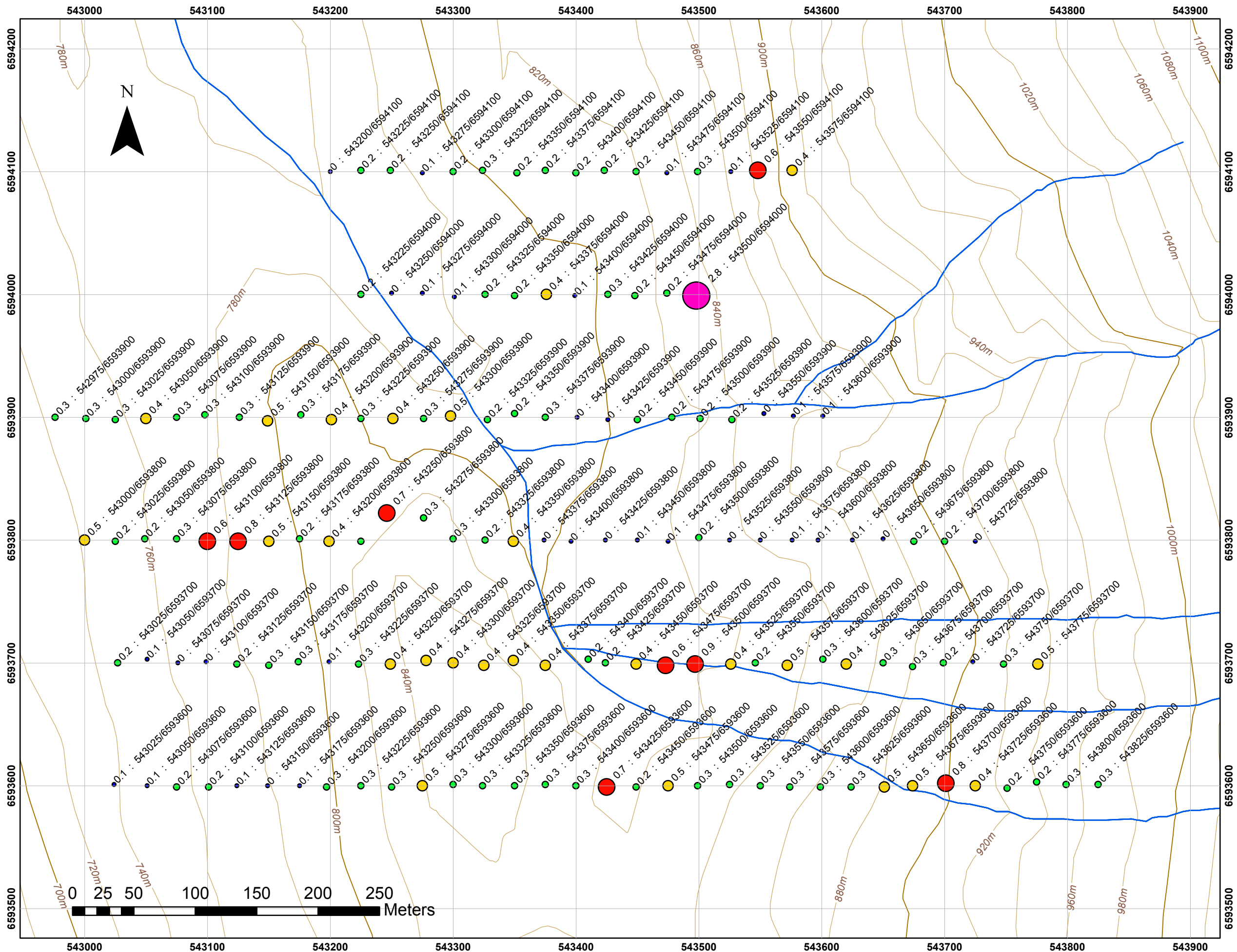
Legend

Engineer_2016_MMI_Ti

Ti_ppb

- 0.000000 - 210.000000
- 210.000001 - 620.000000
- 620.000001 - 1280.000000
- 1280.000001 - 2310.000000
- 2310.000001 - 3770.000000

Labels:
value : sample number



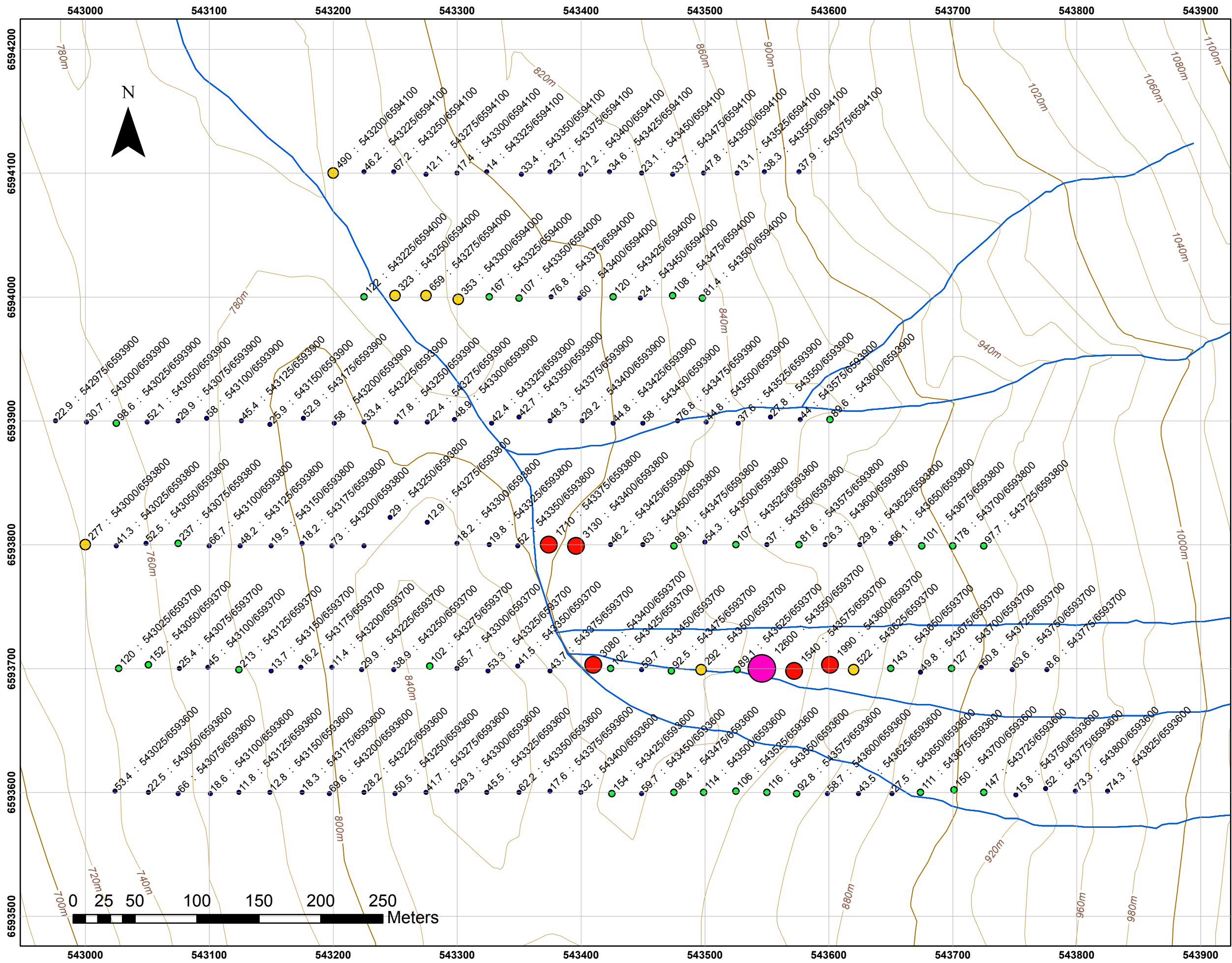
Legend

Engineer_2016_MMI_TI

TI_ppb

- 0.00000 - 0.10000
- 0.10001 - 0.30000
- 0.30001 - 0.50000
- 0.50001 - 0.90000
- 0.90001 - 2.80000

Labels:
value : sample number



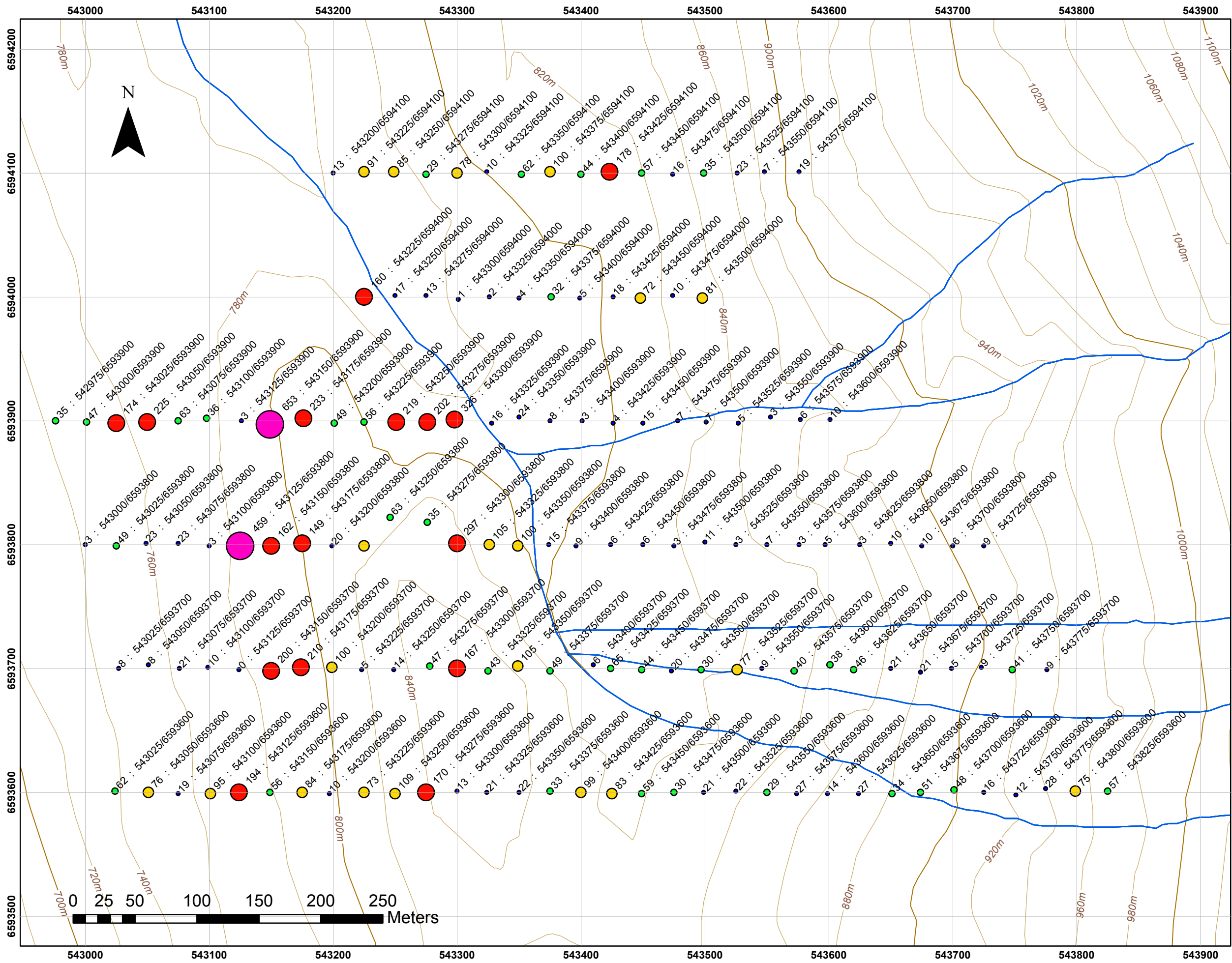
Legend

Engineer_2016_MMI_U

U_ppb

- 8.600000 - 76.800000
- 76.800001 - 237.000000
- 237.000001 - 659.000000
- 659.000001 - 3130.000000
- 3130.000001 - 12600.000000

Labels:
value : sample number



Legend

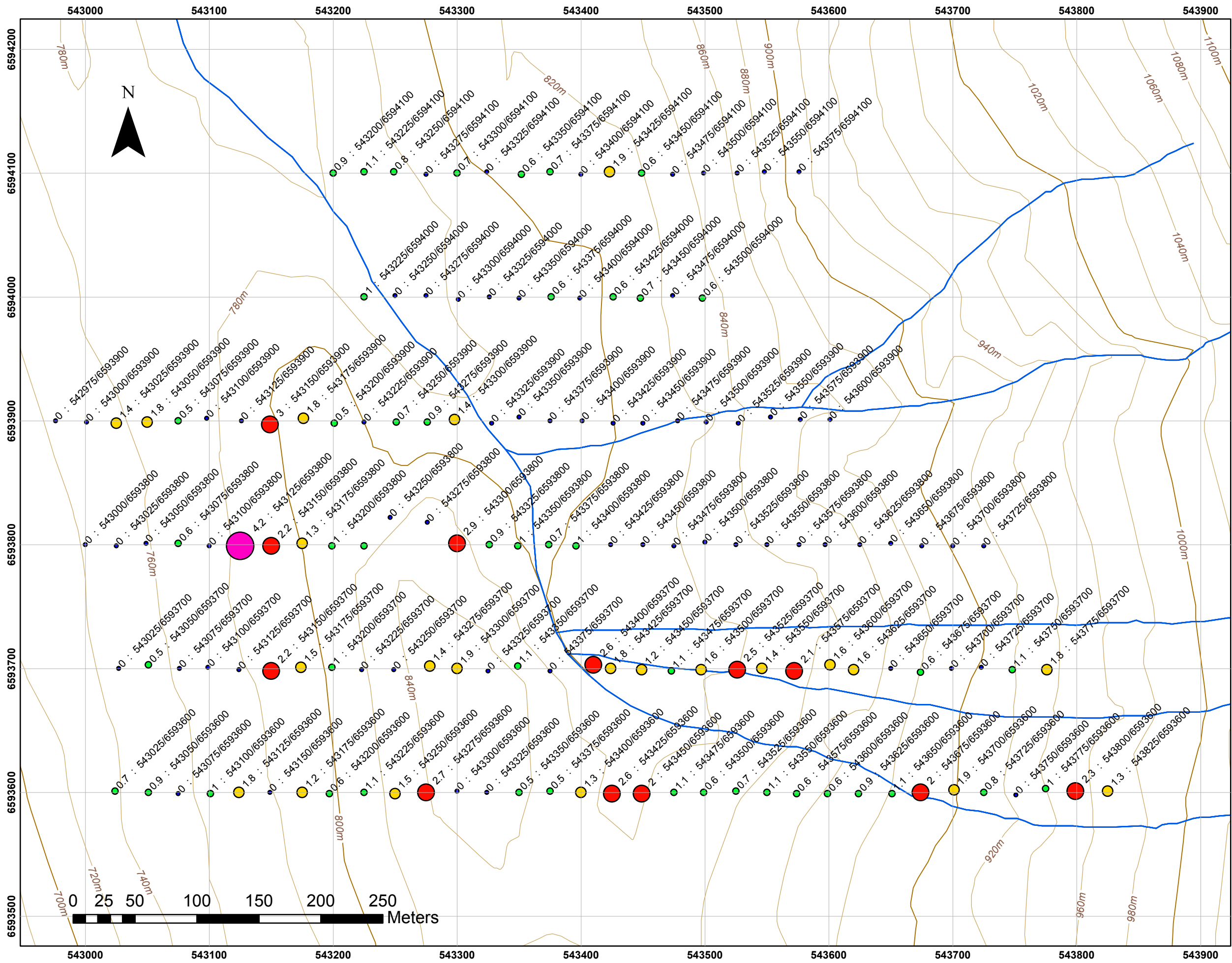
Engineer_2016_MMI_V

V_ppb

- 0.000000 - 28.000000
- 28.000001 - 65.000000
- 65.000001 - 109.000000
- 109.000001 - 326.000000
- 326.000001 - 653.000000

Labels:
value : sample number

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W

Legend

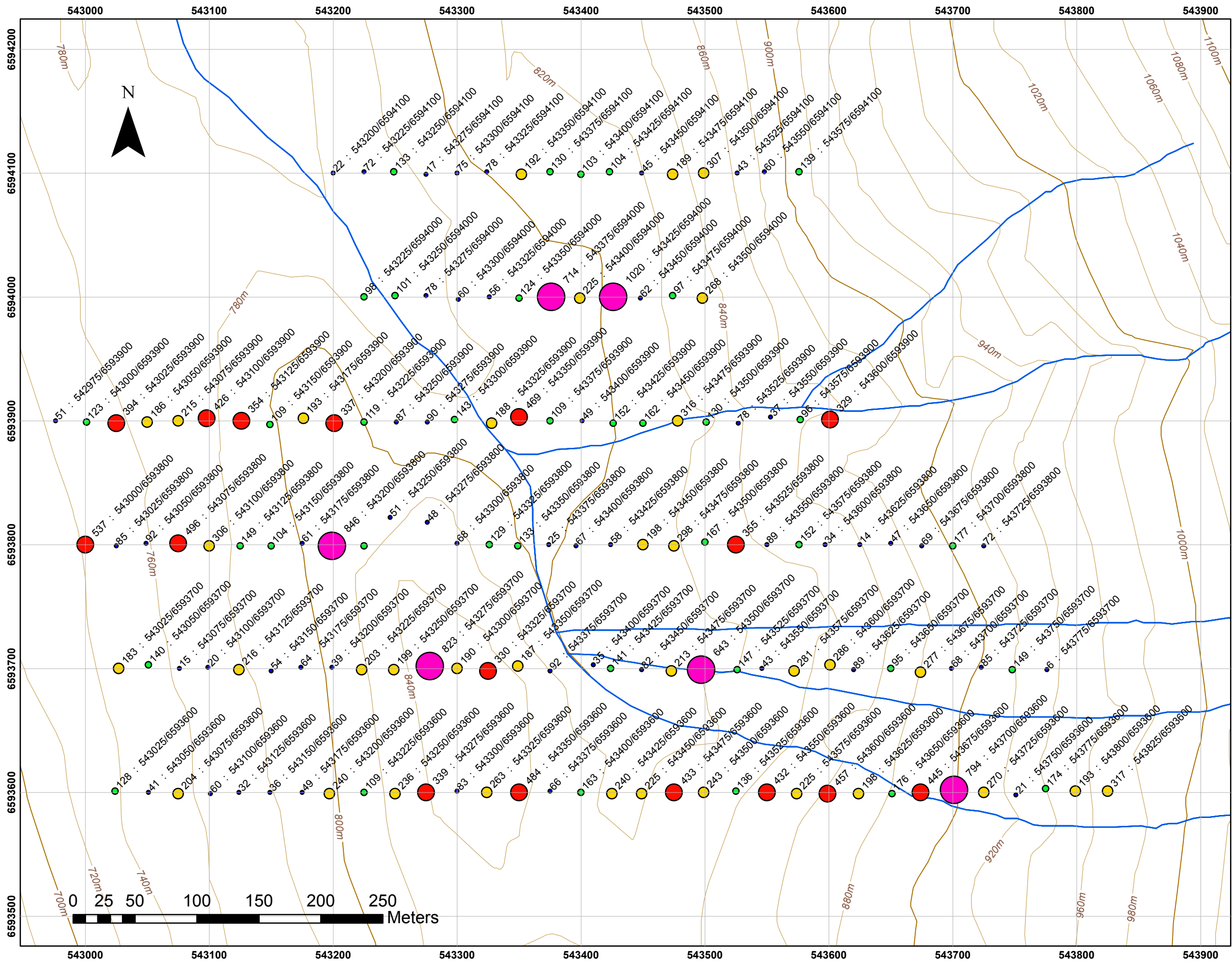
Engineer_2016_MMI_W

W_ppb

- 0.00000
- 0.00001 - 1.10000
- 1.10001 - 1.90000
- 1.90001 - 3.00000
- 3.00001 - 4.20000

Labels:
value : sample number

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Y

Legend

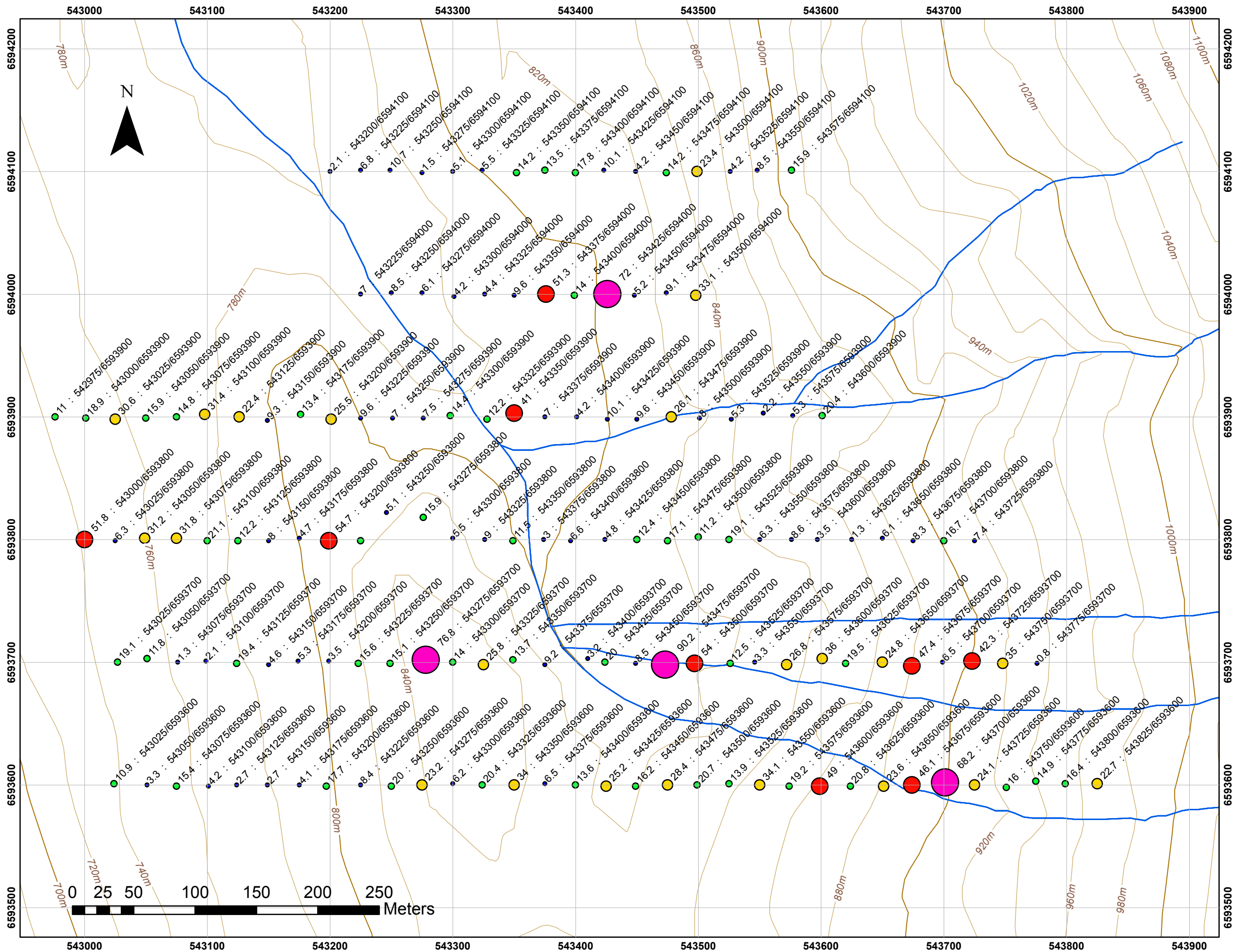
Engineer_2016_MMI_Y

Y_ppb

- 6.000000 - 92.000000
- 92.000001 - 177.000000
- 177.000001 - 317.000000
- 317.000001 - 537.000000
- 537.000001 - 1020.000000

Labels:
value : sample number

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Legend

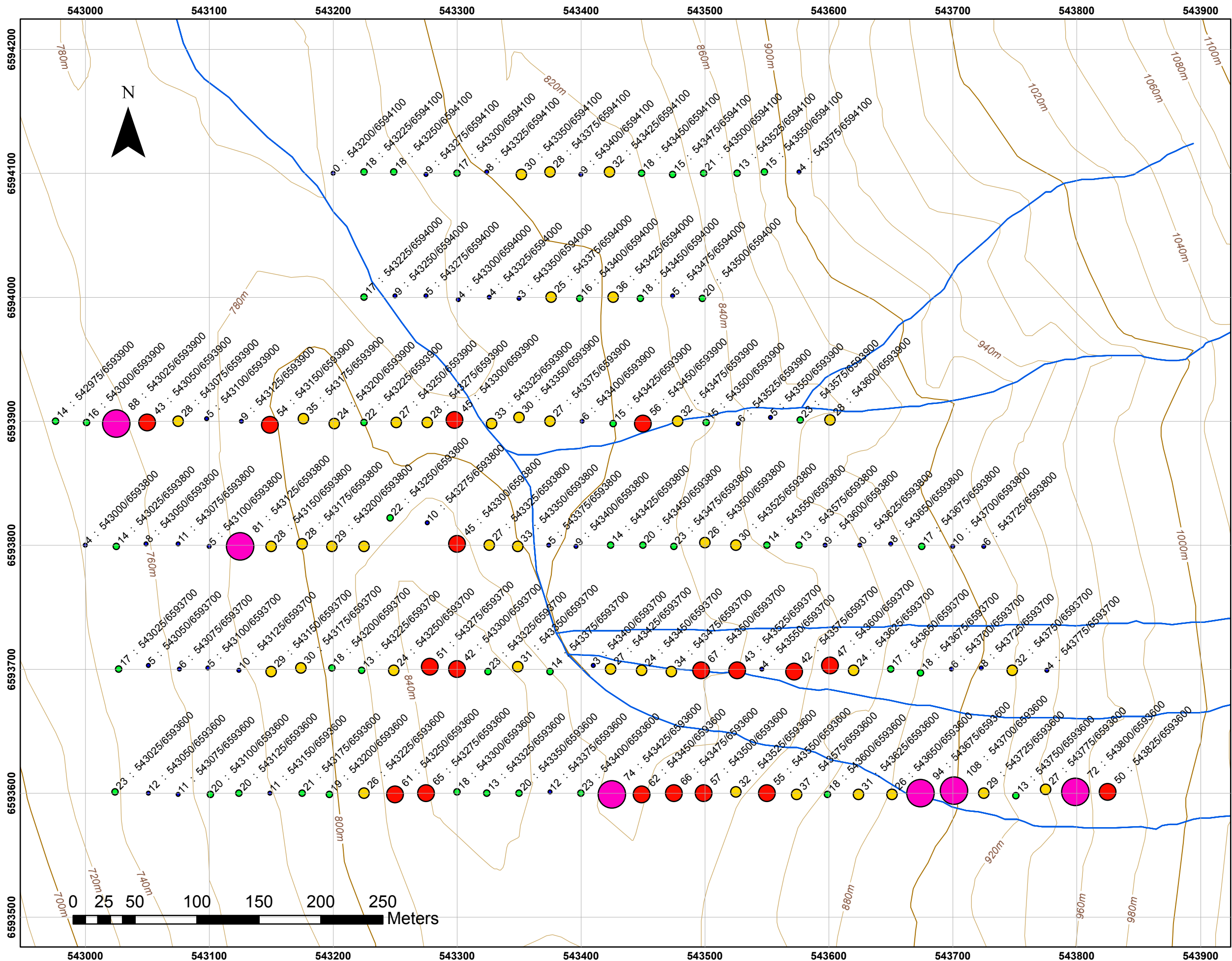
Engineer_2016_MMI_Yb

Yb_ppb

- 0.800000 - 10.700000
- 10.700001 - 21.100000
- 21.100001 - 36.000000
- 36.000001 - 54.700000
- 54.700001 - 90.200000

Labels:
value : sample number

Zr



Legend

Engineer_2016_MMI_Zr

Zr_ppb

- 0.00000 - 12.00000
- 12.00001 - 23.00000
- 23.00001 - 37.00000
- 37.00001 - 67.00000
- 67.00001 - 108.00000

Labels:
value : sample number

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APPENDIX IV

QA/QC Statistics

Eu	Fe	Ga	Gd	Hg	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt
0.2 ppb	1 ppm	0.5 ppb	0.5 ppb	1 ppb	0.1 ppb	0.5 ppm	1 ppb	1 ppb	0.5 ppm	100 ppb	2 ppb	0.5 ppb	1 ppb	5 ppb	0.1 ppm	5 ppb	1 ppb	0.5 ppb	0.1 ppb
1	37	4.9	3.6	0	0	59.9	16	2	22.7	4800	4	1.4	16	114	3.3	118	0	3.5	0
5	214	1.7	20.2	0	0.2	13.5	61	7	22.2	11500	116	0.7	102	250	0.3	180	0	21.6	0
9.2	125	14.5	38.9	0	0.2	19.7	161	2	11.7	1700	7	6.1	154	74	1.3	913	0	36.5	0
8.6	42	1	51.2	0	0	19.1	53	0	20.5	5300	0	0	97	179	0.3	120	0	19.2	0
1.5	130	9.2	6.5	0	0	67.2	16	3	33.4	17100	6	1.5	18	307	3.4	215	0	4	0
4.9	30	1.3	24.3	0	0	155	51	0	30.6	3300	5	0	86	84	3.2	75	0	17.4	0
3	64	3	15.5	0	0	34.5	21	0	19.3	11200	2	0	32	167	0.9	297	0	6.4	0
4.3	186	13.3	24.5	0	0.3	32.3	77	5	25.5	12300	15	4.4	91	133	9.7	554	0	20.3	0
6	274	18.7	34	0	0.7	41.7	137	13	18.7	18300	13	7.3	139	112	17.6	630	0	33.7	0
12.1	109	9.8	74.4	1	0.2	59.8	151	6	17.4	8800	13	1.2	223	94	8.9	725	0	48.5	0
1	37	4.5	3.9	0	0	62.6	15	1	23.6	5300	5	1.3	15	112	3	125	0	3.7	0
4.3	163	1.5	17.1	0	0.1	10.4	56	7	25.3	12400	108	0.6	90	244	0.3	159	0	19.5	0
9.8	111	13.3	42.7	0	0.2	19.9	165	1	11.5	2100	7	5.2	162	71	1.2	990	0	38.7	0
9.4	39	1.2	52.8	0	0	16.9	56	0	19.9	4700	0	0	102	211	0.3	118	0	19.9	0
1.6	144	9.9	6.7	0	0	68.3	18	4	29.2	19100	6	2	20	363	4.1	196	0	4.6	0
4.6	28	1.4	23.6	0	0	152	46	0	30.9	3000	5	0	82	84	2.8	76	0	16	0
3	72	2.9	14.7	0	0	40.8	19	0	21.6	12600	0	0	30	121	0.8	301	0	5.9	0
4.4	175	13.4	23.7	0	0.3	32.4	81	7	26.6	12300	20	5.2	95	129	10.5	483	0	21.4	0
5.8	254	14.9	35.5	0	0.6	39	114	11	18.1	17200	11	5.6	132	131	14.1	769	0	29.8	0
12.7	114	10	77.5	0	0.3	57.1	170	7	16.1	9000	17	1.5	251	101	9.1	735	0	53	0
1	37	4.7	3.75	0	0	61.25	15.5	1.5	23.15	5050	4.5	1.35	15.5	113	3.15	121.5	0	3.6	0
4.65	188.5	1.6	18.65	0	0.15	11.95	58.5	7	23.75	11950	112	0.65	96	247	0.3	169.5	0	20.55	0
9.5	118	13.9	40.8	0	0.2	19.8	163	1.5	11.6	1900	7	5.65	158	72.5	1.25	951.5	0	37.6	0
9	40.5	1.1	52	0	0	18	54.5	0	20.2	5000	0	0	99.5	195	0.3	119	0	19.55	0
1.55	137	9.55	6.6	0	0	67.75	17	3.5	31.3	18100	6	1.75	19	335	3.75	205.5	0	4.3	0
4.75	29	1.35	23.95	0	0	153.5	48.5	0	30.75	3150	5	0	84	84	3	75.5	0	16.7	0
3	68	2.95	15.1	0	0	37.65	20	0	20.45	11900	1	0	31	144	0.85	299	0	6.15	0
4.35	180.5	13.35	24.1	0	0.3	32.35	79	6	26.05	12300	17.5	4.8	93	131	10.1	518.5	0	20.85	0
5.9	264	16.8	34.75	0	0.65	40.35	125.5	12	18.4	17750	12	6.45	135.5	121.5	15.85	699.5	0	31.75	0
12.4	111.5	9.9	75.95	0.5	0.25	58.45	160.5	6.5	16.75	8900	15	1.35	237	97.5	9	730	0	50.75	0
0	0	0.282843	0.212132	0	0	1.909188	0.707107	0.707107	0.636396	353.5534	0.707107	0.070711	0.707107	1.414214	0.212132	4.949747	0	0.141421	0
0.494975	36.06245	0.141421	2.192031	0	0.070711	2.192031	3.535534	0	2.192031	636.3961	5.656854	0.070711	8.485281	4.242641	0	14.84924	0	1.484924	0
0.424264	9.899495	0.848528	2.687006	0	0	0.141421	2.828427	0.707107	0.141421	282.8427	0	0.636396	5.656854	2.12132	0.070711	54.44722	0	1.555635	0
0.565685	2.12132	0.141421	1.131371	0	0	1.555635	2.12132	0	0.424264	424.2641	0	0	3.535534	22.62742	0	1.414214	0	0.494975	0
0.070711	9.899495	0.494975	0.141421	0	0	0.777817	1.414214	0.707107	2.969848	1414.214	0	0.353553	1.414214	39.59798	0.494975	13.43503	0	0.424264	0
0.212132	1.414214	0.070711	0.494975	0	0	2.12132	3.535534	0	0.212132	212.132	0	0	2.828427	0	0.282843	0.707107	0	0.989949	0
0	5.656854	0.070711	0.565685	0	0	4.454773	1.414214	0	1.626346	989.9495	1.414214	0	1.414214	32.52691	0.070711	2.828427	0	0.353553	0
0.070711	7.778175	0.070711	0.565685	0	0	0.070711	2.828427	1.414214	0.777817	0	3.535534	0.565685	2.828427	2.828427	0.565685	50.20458	0	0.777817	0
0.141421	14.14214	2.687006	1.060666	0	0.070711	1.909188	16.26346	1.414214	0.424264	777.8175	1.414214	1.202082	4.949747	13.43503	2.474874	98.28784	0	2.757716	0
0.424264	3.535534	0.141421	2.192031	0.707111	0.070711	1.909188	13.43503	0.707107	0.919239	141.4214	2.828427	0.212132	19.79899	4.949747	0.141421	7.071068	0	3.181981	0
0.00%	0.00%	6.02%	5.66%	0.00%	0.00%	3.12%	4.56%	47.14%	2.75%	7.00%	15.71%	5.24%	4.56%	1.25%	6.73%	4.07%	0.00%	3.93%	0.00%
10.64%	19.13%	8.84%	11.75%	0.00%	47.14%	18.34%	6.04%	0.00%	9.23%	5.33%	5.05%	10.88%	8.84%	1.72%	0.00%	8.76%	0.00%	7.23%	0.00%
4.47%	8.39%	6.10%	6.59%	0.00%	0.00%	0.71%	1.74%	47.14%	1.22%	14.89%	0.00%	11.26%	3.58%	2.93%	5.66%	5.72%	0.00%	4.14%	0.00%
6.29%	5.24%	12.86%	2.18%	0.00%	0.00%	8.64%	3.89%	0.00%	2.10%	8.49%	0.00%	0.00%	3.55%	11.60%	0.00%	1.19%	0.00%	2.53%	0.00%
4.56%	7.23%	5.18%	2.14%	0.00%	0.00%	1.15%	8.32%	20.20%	9.49%	7.81%	0.00%	20.20%	7.44%	11.82%	13.20%	6.54%	0.00%	9.87%	0.00%
4.47%	4.88%	5.24%	1.07%	0.00%	0.00%	1.38%	7.29%	0.00%	0.69%	6.73%	0.00%	0.00%	3.37%	0.00%	9.43%	0.94%	0.00%	5.93%	0.00%
0.00%	8.32%	2.40%	3.75%	0.00%	0.00%	11.83%	7.07%	0.00%	7.95%	8.32%	141.42%	0.00%	4.56%	22.59%	8.32%	0.95%	0.00%	5.75%	0.00%
1.63%	4.31%	0.53%	2.35%	0.00%	0.00%	0.22%	3.58%	23.57%	2.99%	0.00%	20.20%	11.79%	3.04%	2.16%	5.60%	9.68%	0.00%	3.73%	0.00%
2.40%	5.36%	15.99%	3.05%	0.00%	10.88%	4.73%	12.96%	11.79%	2.31%	4.38%	11.79%	18.64%	3.65%	11.06%	15.61%	14.05%	0.00%	8.69%	0.00%
3.42%	3.17%	1.43%	2.89%	141.42%	28.28%	3.27%	8.37%	10.88%	5.49%	1.59%	18.86%	15.71%	8.35%	5.08%	1.57%	0.97%	0.00%	6.27%	0.00%
3.79%	6.60%	6.46%	4.24%	14.14%	8.63%	5.34%	6.38%	16.07%	4.42%	6.45%	21.30%	9.37%	5.10%	7.02%	6.61%	5.29%	0.00%	5.81%	0.00%

9.4	30	7.6	36.4	0	0	43.7	337	0	28.6	3500	4	2.4	318	375	2.5	89	0	80.9	0.1
10.8	39	9.4	42.6	0	0	43	376	0	30.8	3900	4	3	348	398	2.6	108	0	90.6	0.1
10.6	39	8.8	41.2	0	0	46.1	377	0	31.9	3900	4	2.8	353	406	2.9	101	0	91.5	0
10.26667	36	8.6	40.6667	0	0	44.26667	363.3333	0	30.43333	3766.667	4	2.733333	339.6667	393	2.666667	99.33333	0	87.66667	0.06667
0.757188	5.196152	0.916515	3.251666	0	0	1.625833	22.81082	0	1.680278	230.9401	0	0.305505	18.92969	16.09348	0.208167	9.609024	0	5.877358	0.05774
7.38%	14.43%	10.66%	8.12%	0.00%	0.00%	3.67%	6.28%	0.00%	5.52%	6.13%	0.00%	11.18%	5.57%	4.10%	7.81%	9.67%	0.00%	6.70%	86.60%

APPENDIX V

Correlation Matrix for the 2016 MMI Survey

In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Se	Sm	Sr
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1																						
-0.14079	1																					
0.357049	-0.06724	1																				
0.29659	-0.18113	-0.03776	1																			
-0.34601	0.657312	-0.26573	-0.03979	1																		
0.103349	0.041557	0.087639	0.167218	0.042454	1																	
-0.06406	-0.1299	-0.06421	0.305726	-0.03159	0.290781	1																
0.499422	-0.29454	0.327116	0.227648	-0.38708	-0.02252	-0.07335	1															
0.217282	-0.03063	0.95459	-0.07897	-0.22257	0.03585	-0.05796	0.155888	1														
-0.05707	-0.13244	-0.19213	-0.0087	-0.10805	0.084712	-0.06489	-0.13374	-0.16409	1													
0.761048	-0.02691	0.430271	0.219866	-0.26145	0.226514	-0.05899	0.48878	0.255169	-0.07767	1												
0.382613	-0.06394	0.255025	-0.02059	-0.1776	-0.01847	-0.12652	0.351627	0.199988	-0.21974	0.247157	1											
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1										
0.261241	-0.04818	0.976465	-0.06438	-0.241	0.055615	-0.05694	0.208364	0.99568	-0.17319	0.304756	0.219521	#DIV/0!	1									
-1E-15	-3.5E-16	-3.1E-18	-2.1E-16	2.55E-17	7.54E-17	-1E-16	3.6E-16	5.21E-17	5.84E-16	-2.4E-16	-1.3E-16	#DIV/0!	-4.4E-16	1								
-0.03107	-0.14878	-0.12085	-0.12631	-0.26743	0.175301	-0.18679	0.188613	-0.17794	0.272356	0.063574	0.019226	#DIV/0!	-0.15824	-8.3E-17	1							
0.204193	-0.03255	-0.03938	0.043169	-0.11762	-0.02886	0.036702	-0.01925	-0.00956	0.449969	0.07755	-0.10914	#DIV/0!	-0.01915	6.64E-17	-0.02723	1						
0.602279	-0.29997	0.795647	0.060036	-0.4924	0.102042	-0.13001	0.465026	0.747555	-0.03536	0.511605	0.387516	#DIV/0!	0.771437	-8.5E-17	-0.00519	0.124431	1					
0.124695	-0.24683	0.34196	0.237341	-0.23579	0.132805	0.309998	-0.03065	0.397633	0.207799	0.069357	-0.02124	#DIV/0!	0.388506	3.07E-16	-0.24261	0.490352	0.386709	1				
0.208216	-0.02114	0.930879	-0.093	-0.21906	0.024801	-0.07127	0.118372	0.991358	-0.13802	0.230469	0.204863	#DIV/0!	0.983081	0	-0.19042	0.014569	0.757918	0.413262	1			
0.060533	-0.08816	0.051555	0.196351	-0.06194	-0.09226	-0.00379	0.501995	0.003209	0.006826	0.033592	0.039562	#DIV/0!	0.014882	-6.4E-17	0.018373	0.029531	0.087248	-0.03298	-0.00798	1		
-0.47773	0.386979	-0.35531	-0.06546	0.759448	0.038747	0.0123	-0.46061	-0.296	0.012939	-0.37103	-0.3333	#DIV/0!	-0.3187	-1.1E-16	-0.21817	0.003334	-0.54448	-0.14411	-0.28315	-0.08779		
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
0.255718	-0.06402	0.871473	-0.09837	-0.25266	0.033731	-0.10183	0.086465	0.939365	-0.0662	0.222414	0.252527	#DIV/0!	0.928104	9.92E-17	-0.18724	0.0517	0.797006	0.430332	0.967309	-0.01798		
0.066846	-0.04652	0.022591	0.035187	0.014825	0.008463	-0.01965	-0.03449	0.047808	-0.0038	-0.02706	0.04797	#DIV/0!	0.041485	-9.1E-16	-0.05637	-0.00953	0.04565	0.042733	0.065246	-0.00965		
0.728602	-0.11903	0.704694	0.178616	-0.29715	0.218683	-0.06271	0.550148	0.548526	-0.20222	0.729576	0.433545	#DIV/0!	0.601308	3.43E-16	-0.01836	-0.05086	0.747659	0.183622	0.535098	0.076405		
0.288057	-0.32684	0.248441	0.124116	-0.3926	-0.15801	-0.08375	0.90561	0.120831	-0.11486	0.267358	0.315478	#DIV/0!	0.158544	1.94E-16	0.217827	-0.01301	0.39405	-0.03569	0.095599	0.610525		
0.497551	-0.19734	0.24505	0.079831	-0.3501	0.097264	-0.05319	0.256941	0.207983	0.355458	0.36955	0.050003	#DIV/0!	0.221	7.76E-16	0.10117	0.757607	0.46938	0.361291	0.224801	0.160708		
-0.02794	-0.0968	-0.05854	0.364715	0.004864	0.165938	0.493416	-0.07863	-0.05328	-0.05499	-0.01101	-0.07914	#DIV/0!	-0.05282	-2.9E-17	-0.14281	-0.01553	-0.09938	0.147662	-0.05721	-0.02113		
0.147642	-0.29211	0.109921	0.103933	-0.3389	-0.15439	-0.0574	0.800863	0.008715	-0.00311	0.121886	0.176228	#DIV/0!	0.039653	3.59E-16	0.256468	0.061672	0.221125	-0.02747	-0.01658	0.678648		
0.452495	-0.30833	0.347292	0.33557	-0.36341	0.115593	0.230448	0.833675	0.211611	-0.19778	0.448993	0.290325	#DIV/0!	0.252843	8.11E-16	0.107919	-0.00508	0.454866	0.082307	0.179062	0.440471		
0.292042	-0.0956	0.720887	-0.08977	-0.22652	0.095033	-0.12479	0.021978	0.770318	0.020893	0.210458	0.241719	#DIV/0!	0.761504	4.01E-17	-0.18704	0.046173	0.729129	0.383795	0.806016	-0.03834		
0.515401	-0.13145	0.591227	0.052961	-0.24215	0.043751	-0.12807	0.063034	0.605669	-0.03707	0.315203	0.231064	#DIV/0!	0.60911	-3.5E-16	-0.18547	0.065604	0.739118	0.287129	0.636393	-0.04617		
0.125953	0.296534	-0.06536	0.064554	0.336155	0.234752	-0.04708	-0.12929	-0.07876	-0.13923	0.129885	0.233656	#DIV/0!	-0.07419	3.04E-16	-0.07557	-0.04214	-0.02421	-0.08665	-0.07536	-0.06145		
0.603046	-0.08289	0.711853	0.055923	-0.34656	0.230742	-0.13294	0.663442	0.557177	-0.16313	0.631882	0.391547	#DIV/0!	0.606089	1.27E-16	0.079505	-0.04327	0.725577	0.115625	0.540591	0.256387		

Sr	Ta	Tb	Te	Th	Ti	Tl	U	V	W	Y	Yb	Zn	Zr
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1													
#DIV/0!	1												
-0.28987	#DIV/0!	1											
-0.02496	#DIV/0!	0.13772	1										
-0.4148	#DIV/0!	0.535087	0.00372	1									
-0.44202	#DIV/0!	0.071079	-0.04357	0.377752	1								
-0.30011	#DIV/0!	0.28336	0.035365	0.322024	0.23487	1							
0.053821	#DIV/0!	-0.06684	-0.01192	-0.01271	-0.09367	-0.04738	1						
-0.36051	#DIV/0!	-0.0423	-0.02524	0.183656	0.905523	0.218512	-0.09128	1					
-0.41192	#DIV/0!	0.150481	-0.02447	0.567995	0.81047	0.282063	0.133184	0.68016	1				
-0.21567	#DIV/0!	0.916239	0.249617	0.491389	-0.0063	0.288422	-0.0764	-0.10266	0.082478	1			
-0.26692	#DIV/0!	0.743709	0.182023	0.530909	0.001461	0.35565	-0.0707	-0.12473	0.092708	0.838966	1		
0.155781	#DIV/0!	-0.03541	0.076922	0.169521	-0.16633	0.059922	0.055322	-0.20809	-0.05722	0.056667	0.185648	1	
-0.50628	#DIV/0!	0.52308	0.001368	0.841585	0.571348	0.3365	-0.10693	0.424885	0.644585	0.458032	0.414867	0.040596	1