FINAL REPORT:
THE VANGRØFTA CU PROJECT

Prepared by:

Harry Guest

Exploration Geologist, Kuniko Norge AS

January 2024

CONTENTS

Title Page 0
1 Rights Holder and Rights Information 1
2 Project Background 1
2.1 History 1
2.2 Regional Geology 1
3 Exploration Overview 1
3.1 SkyTEM Geophysical Survey 2
3.2 Soil Sampling 3
3.3 Geological Mapping 4
4 Summary 4
4.1 Grounds for Abandonment 4
4.2 Prospectivity assessment 4
4.3 Conclusions 5
5 References 5
Appendix A – maps of exploration results 0
Appendix B1 – Soil Sampling Metadata 7
Appendix B2 – Soil Sampling Assays – Major Elements 17
Appendix B3 – Soil sampling Results - Trace Elements (ppm) 20

1 RIGHTS HOLDER AND RIGHTS INFORMATION

The rights holder, Kuniko Norge AS, is a Norwegian registered company (registration number 927 303 663) with registered address: Kuniko Norge Kuniko Norge AS, Schweigaardsgate 14, 0185 Oslo. The Company is actively undertaking Mineral Exploration in Norway.

This report details the exploration activities completed on the Vangrøfta Project area, and the reasons for why the licence was surrendered in 2022. The project consisted of a single tenement, under the name of Vangrøfta 102. All maps and coordinate data included in this report are presented as Eastings and Northings in the WGS 1984 UTM Zone 32N coordinate system.

2 PROJECT BACKGROUND

2.1 HISTORY

The Vangrøfta Project was focussed on the area surrounding three Mineral Occurrences in the NGU Ore Database; Vangrøften skjerp, Flatskarvåsen and Fredrik IV. These sulphide occurrences were the site of historical mining efforts, largely in the 18th and 19th centuries. Mining was most intensive at Fredrik IV, where workings reached a depth of 123 m. Folldal Verk AS undertook investigations from 1981 to 1984, but since this period no significant exploration activity has occurred on the property.

2.2 REGIONAL GEOLOGY

The project is found in the Norwegian Caledonides, straddling the boundary between the metasedimentary-dominated Gula Nappe to the west and the bimodal-volcanics of the Meråker Nappe in the east. The project is thought to be prospective for VMS-style base and precious metal mineralisation, in addition to vein-hosted base metal mineralisation which is prevalent at the Fredrik IV mine.

3 EXPLORATION OVERVIEW

3.1 SKYTEM GEOPHYSICAL SURVEY

3.1.1 METHODOLOGY

In 2021, Kuniko commissioned SkyTEM and EMerald Geomodelling to undertake a SkyTEM airborne geophysical survey at the Vangrøfta Project as part of a wider programme of surveys. A detailed methodology for this survey can be found in the Appendix C attached to this report.

3.1.2 RESULTS

Selected grids of the magnetic and electromagnetic results are presented as maps in Appendix A. The results of the programme have been described by EMerald Geomodelling as follows:

At Vangrøfta, resistivities of over 1000 Ωm are generally encountered (Figure 1) but several low- and medium-resistivity anomalies are found. Several of these have been assigned letter names in Figure 2. Most of these have SSW to NNE structural trend and often correspond to higher total magnetic intensities. Most are also deeper than 50 m from surface except Anomaly D, which is in the northwest of the survey area. The largest magnetic and resistivity anomalies – Anomalies A, B, and C – occur near the center of the survey area and extend entirely from the southern edge to the northern edge of the survey area. These may correspond to parallel banded beds or of an overturned fault in the area.

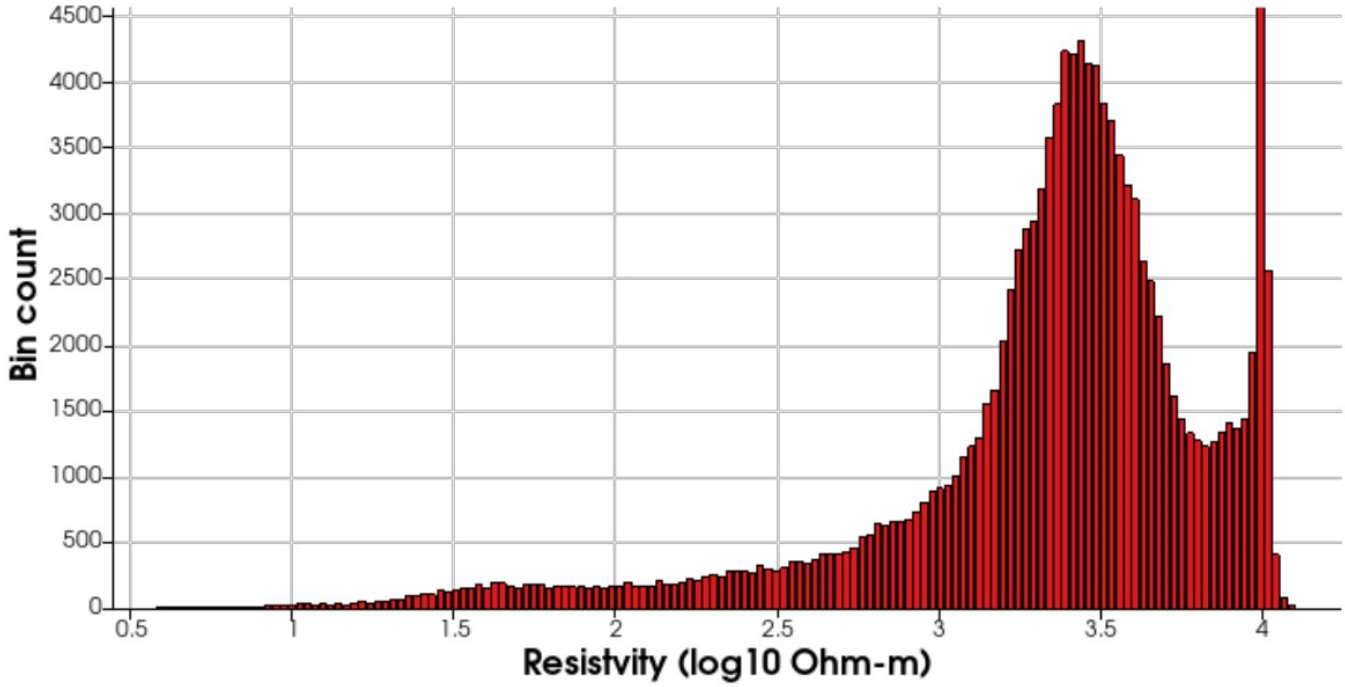


Figure 1: Distribution of values in the resistivity model at Vangrøfta. Note that the spike at 10^4 Ωm is due to constant values of 10^4 Ωm being inserted in the model where low EM-signal amplitude occurs.

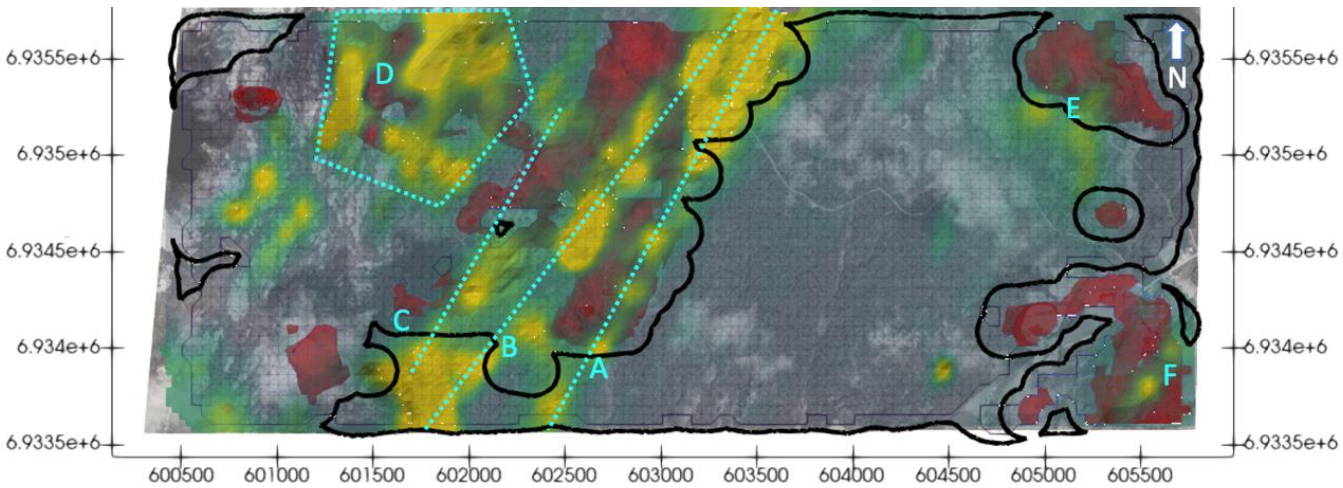


Figure 2: Plan view of high total magnetic intensity (yellow) and low electrical resistivity (red) anomalies at Vangrøfta. Areas where low signal and assumed high-resistivity rock occur are outlined in black. Features of interest labelled in cyan and are discussed further in the text.

NGU has mapped a shear zone passing through the scanned area. While having a similar structural trend to the magnetic and electrical resistivity anomalies in the area, it occurs in areas with resistive rock and low magnetic intensity (Figure 3). The shear zone seems to correspond to the western limit of Anomaly C and to the eastern edge of Anomaly D. Given the shape of Anomaly D and the position of phyllite outcrops mapped by the Kuniko Field Team, the position of the shear zone may be roughly 100 m to the west of its mapped position.

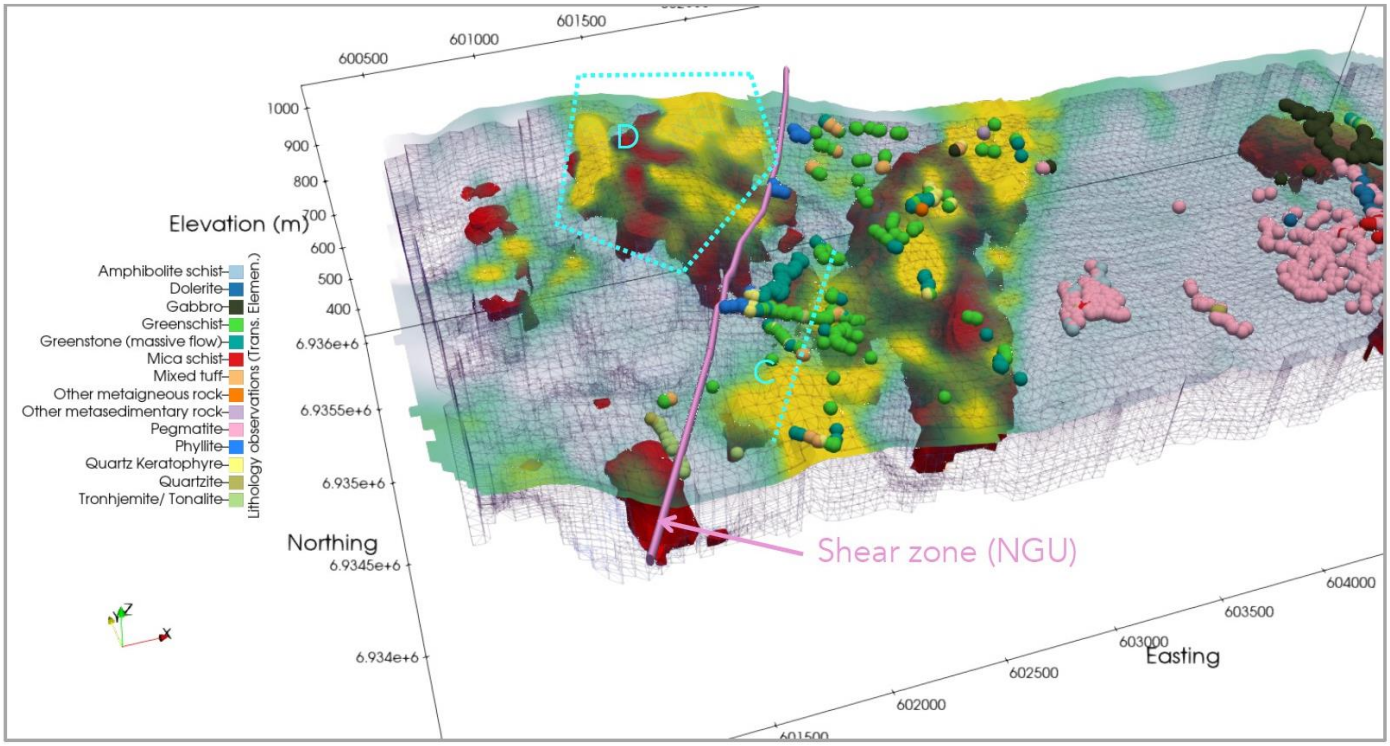


Figure 1: The shear zone mapped by NGU at the 1:250,000 scale (pink line) does not correspond to anomalously high magnetic or electrical conductivity anomalies, but rather corresponds to the eastern border of Anomaly D and the western limit of Anomaly C.

In central portions of the survey (the black polygons in Figure 2), the amplitude of the EM signal was below the noise threshold. We interpret this to mean that the bedrock in this area is highly resistive. Portions of the resistivity model within these areas were set to a placeholder value of 10,000 Ωm. (This explains the large spike at this value in Figure 3). Kuniko's mapped gabbro and pegmatite in these areas, and phaneritic, crystalline igneous rocks often have higher resistivities. Like with the EM response, the total magnetic intensity is generally low in this area except where more mafic rocks (gabbro) was observed by the Field Team.

3.1.3 CONCLUSIONS

The geophysical data collected during this survey offers improved insights into the licence scale geology of the Vangrøfta Project. Whilst several conductors were identified and modelled (see Appendix A) as Maxwell Plates, these were deemed to be too limited in magnitude and scale for them to be worth following up with further geophysical investigations or diamond drilling.

3.2 SOIL SAMPLING

3.2.1 METHODOLOGY

The Kuniko Field Team collected a total of 416 primary soil samples across the Vangrofta property over a period of two weeks. The programme focussed on establishing a baseline geochemical fingerprint of the Fredrik IV, Flatskarvasen Vangroften Skjerp mineral occurrences, and the suspected NE trending phyllites. Soil samples were collected from the B-Horizon, and sent to ALS Laboratories for analysis, using the PREP-41 and ME-MS61 workflows.

3.2.2 RESULTS

A suite of 48 elements was returned from the laboratory for 411 soil samples. A layout of the sampling grids is shown in Appendix A, and tabulated metadata and assay data for the samples can be found in Appendices B1-3.

3.2.3 CONCLUSIONS

The soil sampling campaign was successful in identifying characteristic geochemical signals in two target domains. Soil samples around the Fredrik IV indicated a Cu-dominated anomaly pattern, whereas targets associated with phyllites in the NW of the project area showed an As-Ag-S-Te-Zn (+- Pb) signature without a significant Cu component. The results of soil sampling around mine workings is likely to be affected by contamination, which may be the cause of the 1.15 % Cu soil sample assay returned from the Fredrik IV site.

3.3 GEOLOGICAL MAPPING

Mapping observations collected during the 2021 field programme have been synthesised into an interpretive geological map in Appendix A. Around and between the Fredrik IV and Flatskarvåsen mines, significant volumes of gabbroic rocks were mapped. These are potentially part of the same intrusion complex, or may be discrete intrusive bodies. They are likely of Caledonian age, although this has not been confirmed by Kuniko. They do not have a significant footprint in the geophysical data when compared to the volcanic sequence further to the west. In the far west of the project, the boundary between the nappes appears to have been mapped, with a transition from the greenschists and volcanics of the Meråker Nappe transitioning into the phyllites of the Gula Group, which correlates well with the geophysical data. The westernmost portion of the Meråker Nappe was observed to be a bimodal volcanic sequence of mafic (greenstone) and felsic (quartz keratophyre) volcanic rocks, alongside volcaniclastics (mixed tuffs) and metasedimentary rocks (greenschists). This package correlates well with a NE-SW magnetic high, which is about 1.2 km across and likely extends outside of the licence area. This is a clear refinement versus the available 1:250k scale geological mapping by the NGU, which does not include the mapped gabbroic intrusions. Individual magnetic anomalies within this trend appear to correlate with individual greenstone and/or quartz keratophyre horizons mapped in the field.

4 SUMMARY

4.1 GROUNDS FOR ABANDONMENT

The decision was made to drop the Vangrøfta Project after the results of the field programme were compiled and interpreted by the Kuniko team. Ultimately, there were no indications that the mineral occurences investigated by the Field Team could be of sufficient scale to produce an economically-viable mineral deposit. Several targets may have warranted additional follow-up exploration, although the broader context of the project must be considered. The licence area includes a portion of the Forolhogna National Park at its western extent, and in the north east of the licence falls within the Storflotjønna nature reserve. The area can for these reasons be considered to be at significant “ESG Risk”, as the presence and proximity of these protected areas will likely make the prospects of developing a new mining project significantly more challenging. It was decided that the Company would benefit from directing its efforts towards other projects in its Norwegian portfolio, which were believed to be more prospective and have a lower “ESG Risk” level. For these reasons, the licence was surrendered.

4.2 PROSPECTIVITY ASSESSMENT

Whilst the reasons given in Section 4.1 are valid and reasonable conclusions to draw for the Vangrøfta Project, the geology will remain for future prospectors who may be operating in a different economic or societal context. To this end, an interpretive map has been attached in Appendix A, summarising the general prospectivity assessment made by the Kuniko team. Based on knowledge from other VMS prospects globally and in Trøndelag, Kuniko believes that the ‘Western Bimodal Volcanic Sequence’ is a prospective target for VMS-style mineralisation. The presence of both felsic and mafic volcanism is an important factor in developing several styles of VMS mineralisation, and this is noted in the regionally important Folldal mining district. The presence of volcaniclastics within the stratigraphy may create a geological setting fertile for sub-seafloor replacement style deposits, which are increasingly thought to include larger tonnages in VMS districts globally. One particular trend is highlighted in the Interpretive Map, which follows a magnetic anomaly that coincides with a mapped sequence of quartz keratophyres and greenstones. The anomaly runs for around 1 km along strike, the northern 500 m of which is covered by Kuniko’s soil sampling. A conductivity anomaly has been modelled in this target area to produce a Maxwell Plate Model which has a strike length of 107 m. The conductor is coincident with outcrops of prospective quartz keratophyres and greenstones, and immediately to the north of the modelled conductor the soil sampling data reveals a pathfinder element anomaly, including multi-sample anomalies in Ag, As, Bi, Cd, Pb, Te and Tl contents. In the data collected by Kuniko, this target zone shows prospective geological, geophysical and geochemical characteristics. It appears that the same target was generated by Folldal Verk AS in 1983. In report BV3096, Folldal Verk reported that: “*A CEM conductor with high Cu and Zn in soil are drill tested at 2250N,*

75E. Mineralized greenschist with up to 1200ppm Cu and >4000ppm Zn in m-sections". A georeferenced copy of the Nordervollen Grid from BV3101 suggests that this drillhole would have been drilled in the vicinity of the SkyTEM Maxwell plate model. It is evident from this that there may be a base metal mineralising system at this target, although the suggested grades by Folldal Verk AS (Refer: BV3097) are not high enough to be considered economic. On the surrendered tenement, this is still considered to be the target with the highest prospectivity.

The processes that formed the narrow base-metal sulphide vein mineralisation at Fredrik IV is unlikely to form mineralisation on a scale that modern mining companies would consider economically attractive, and so further exploration for mineralisation of this style is not advised.

Elsewhere, there is a possibility that if these gabbros are of Caledonian age, they can be considered prospective for orthomagmatic nickel sulphide mineralisation. Currently there is no local evidence for this style of mineralisation, and there are no significant geophysical targets within the gabbroic intrusions mapped by Kuniko. To that end, prospectivity for Nickel mineralisation may be plausible in the region, but it is unlikely in the near-surface environment at Vangrøfta.

4.3 CONCLUSIONS

In summary, the area remains prospective, but indications in the available data are not strong enough to offset the potential ESG risks of developing a project in this location. There are prospective targets within the surrendered tenement, but the project does not align strongly enough with Kuniko's ongoing exploration strategy to warrant further expenditure of capital.

Since the exploration licence was surrendered in 2022, the region has been re-staked by Playfair Mining.

5 REFERENCES

NGU Ore Database Entries:

Vangrøfta Skjerp: https://aps.ngu.no/pls/oradb/minres_deposit_fakta.Main?p_objid=6450&p_spraak=N

Fredrik IV: https://aps.ngu.no/pls/oradb/minres_deposit_fakta.Main?p_objid=6451&p_spraak=N

Flatskarvåsen: https://aps.ngu.no/pls/oradb/minres_deposit_fakta.Main?p_objid=6468&p_spraak=N

Archived Exploration Reports:

BV3096 – Folldal Project Annual Report 1983, Folldal Verk AS (1984) Accessed at:

https://dirmin.no/sites/default/bibliotek/BV3096.pdf

BV3097 – Diamond Borehole Logs from Folldal Project, Folldal Verk AS (1984) Accessed at:

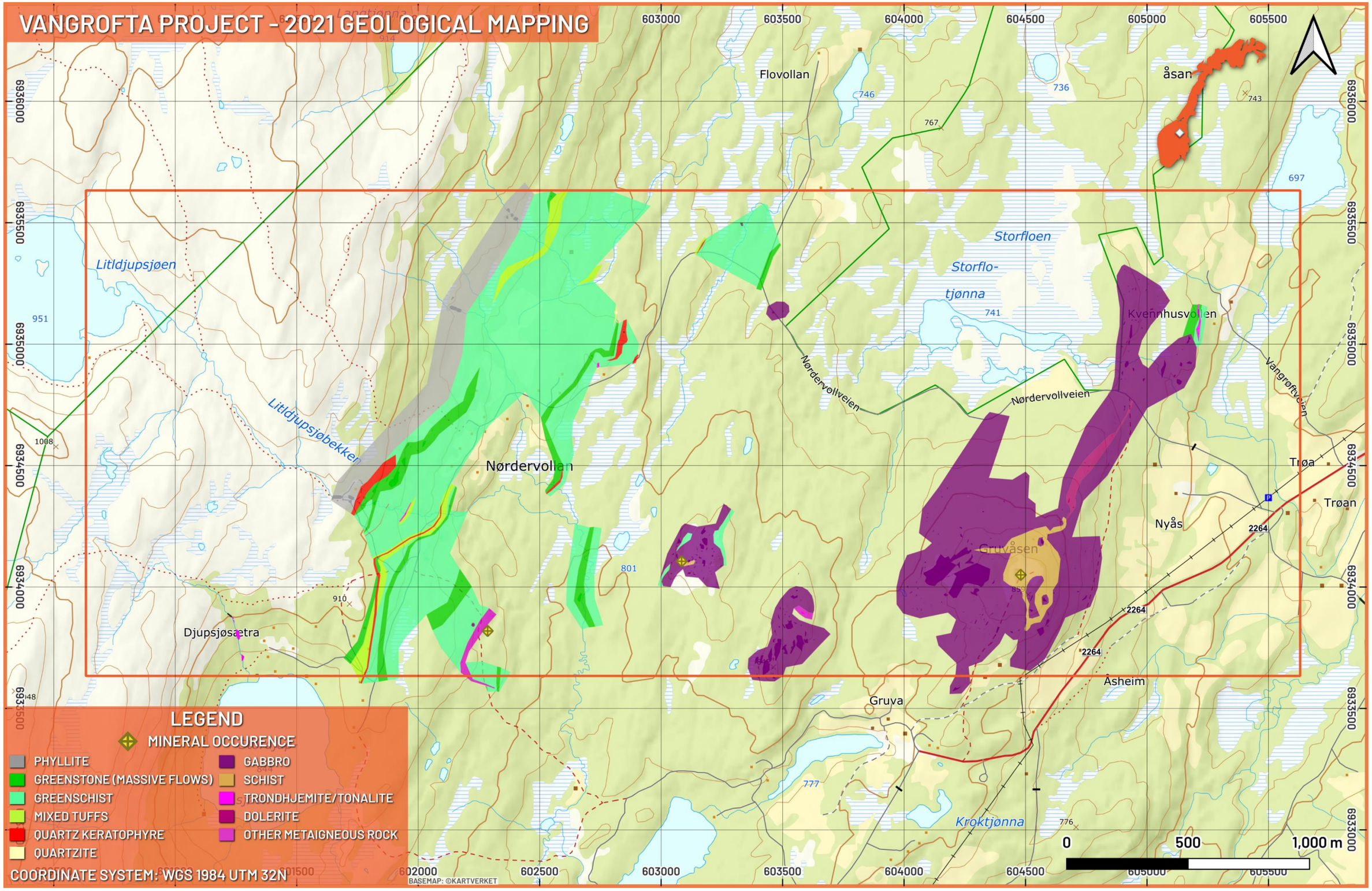
https://dirmin.no/sites/default/bibliotek/BV3097.pdf

BV3101 – Maps from the Folldal Project, Folldal Verk AS (1984) Accessed at:

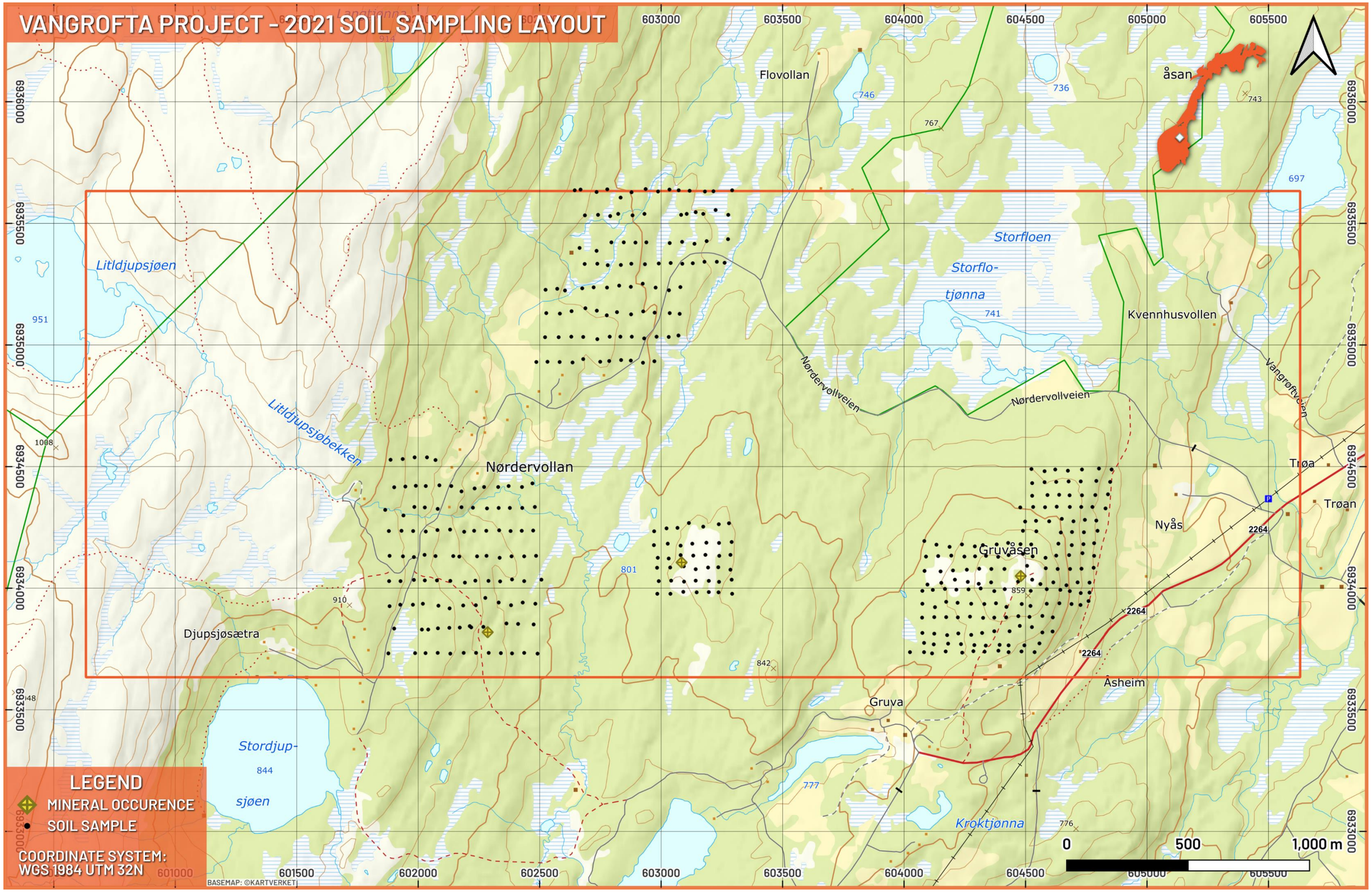
https://dirmin.no/sites/default/bibliotek/BV3101.pdf

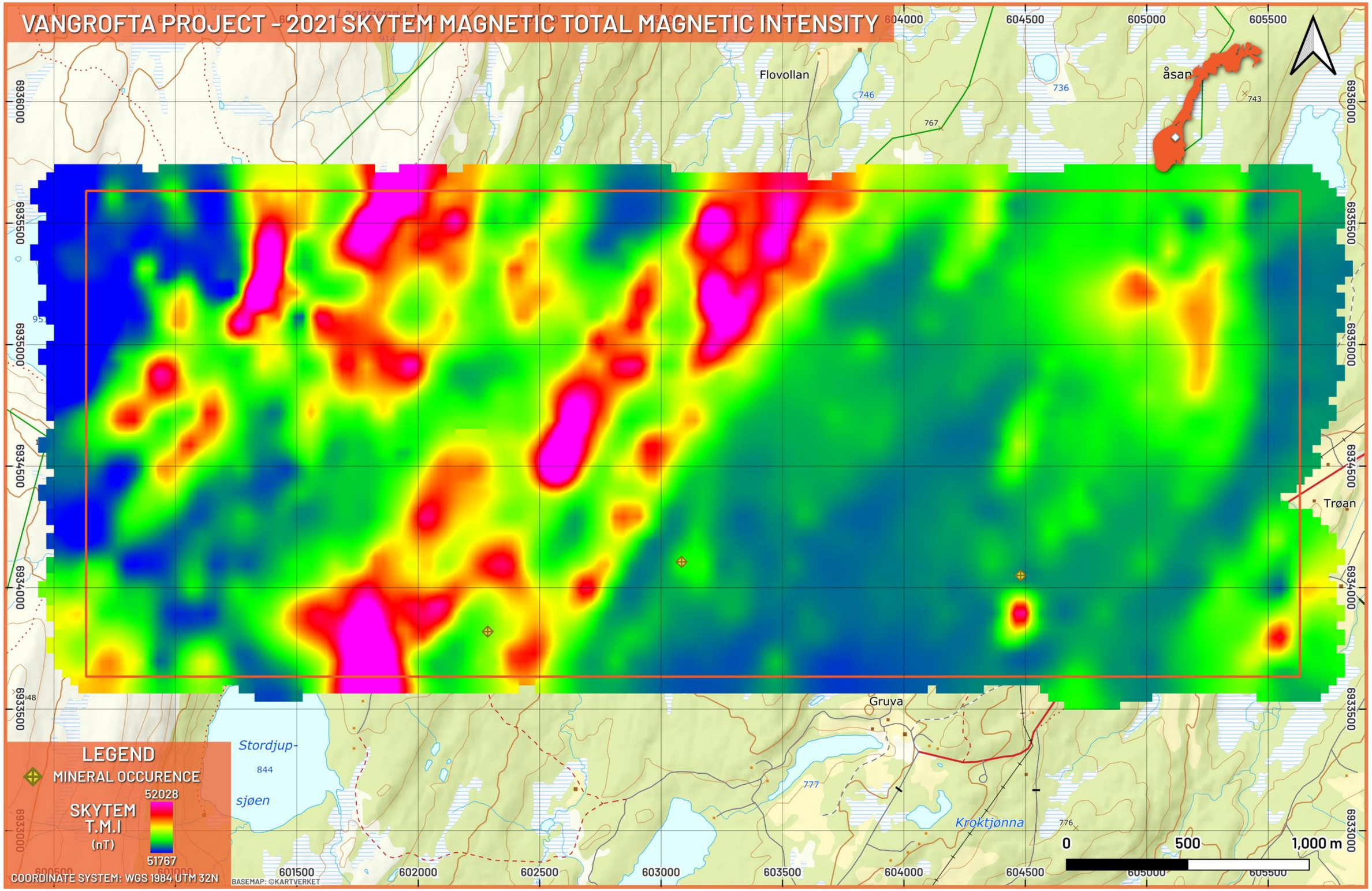
BV3104 – Maps from the Folldal Project, Folldal Verk AS (1984) Accessed at:

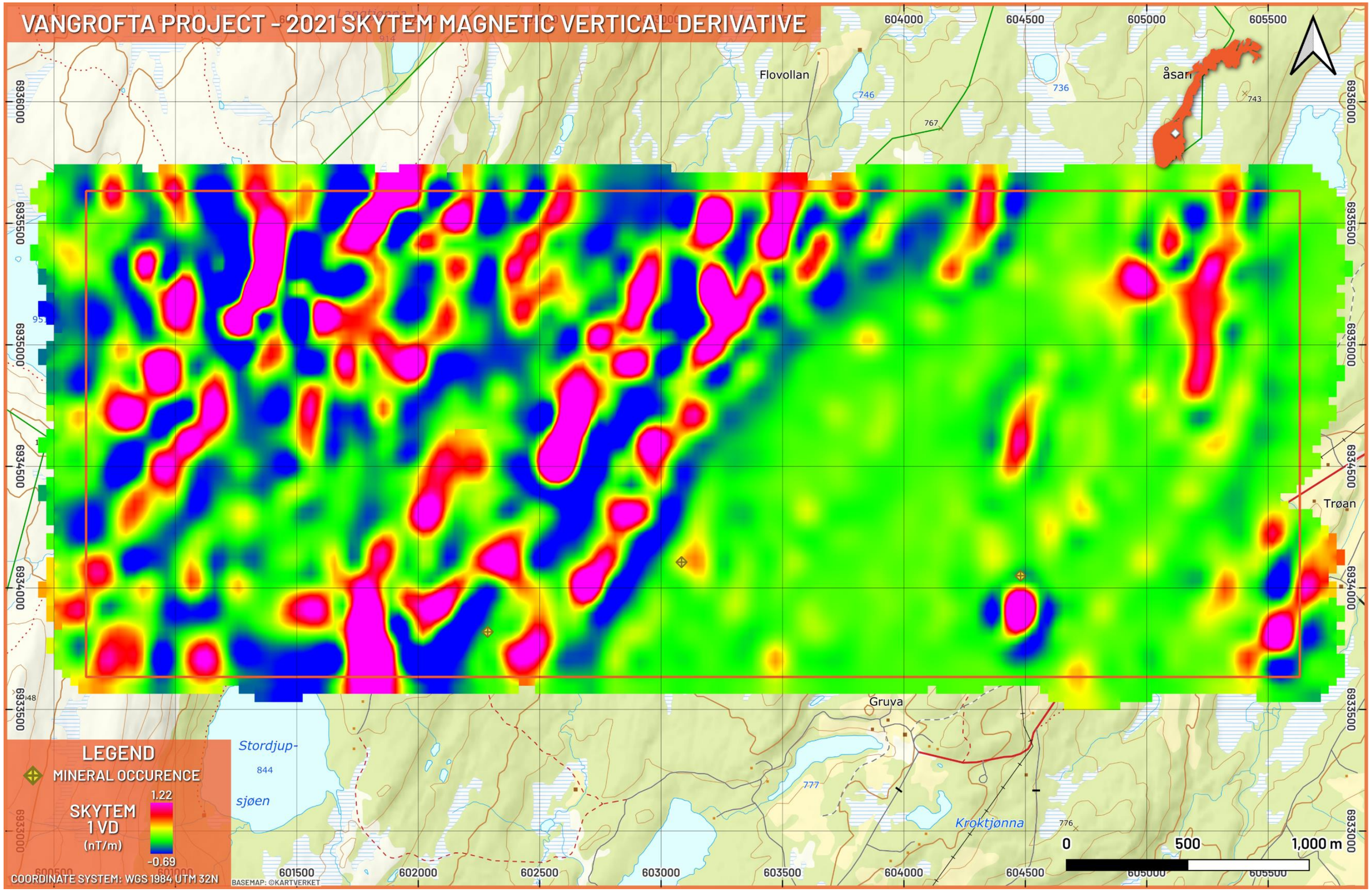
https://dirmin.no/sites/default/bibliotek/BV3104.pdf

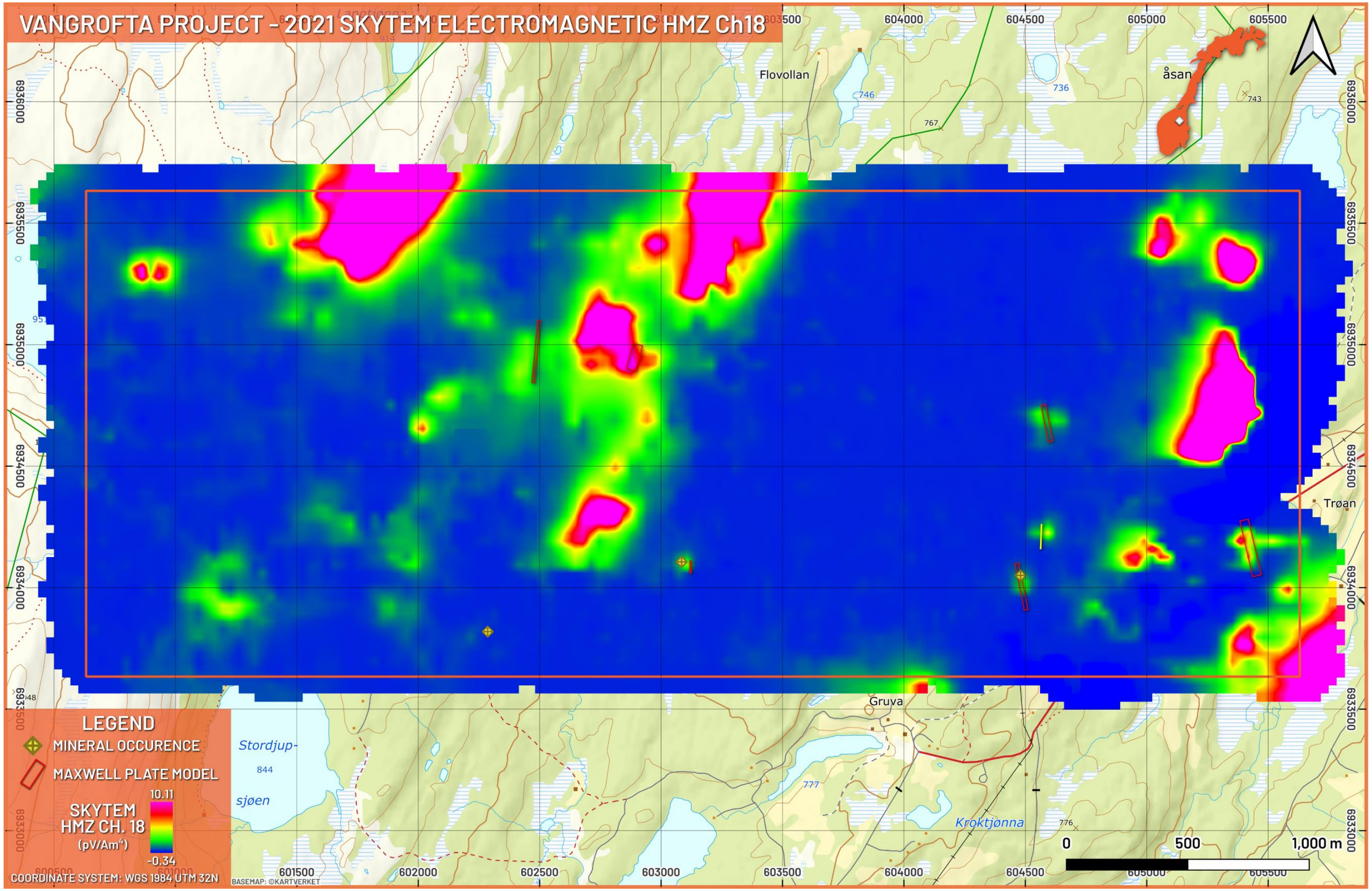

VANGROFTA PROJECT - 2021 GEOLOGICAL MAPPING
603000
603500
604000
604500
605000
605500
6936000
6935500
6935000
6934500
6934000
6933500
6933000
602000
602500
Flovollan
åsan
Storfloen
Storflo-
tjønna
Litldjupsjøen
Litldjupsjøbekken
Kvennhusvollen
Nørdervollveien
Vangroftveien
Nørdervollan
Trøa
Trøan
Nyås
Gruvåsen
Djupsjøsætra
Åsheim
Gruva
Kroktjønna
0
500
1,000 m
LEGEND
MINERAL OCCURENCE
PHYLLITE
GREENSTONE (MASSIVE FLOWS)
GREENSCHIST
MIXED TUFFS
QUARTZ KERATOPHYRE
QUARTZITE
GABBRO
SCHIST
TRONDHJEMITE/TONALITE
DOLERITE
OTHER METAIGNEOUS ROCK
COORDINATE SYSTEM: WGS 1984 UTM 32N
BASEMAP: ©KARTVERKET

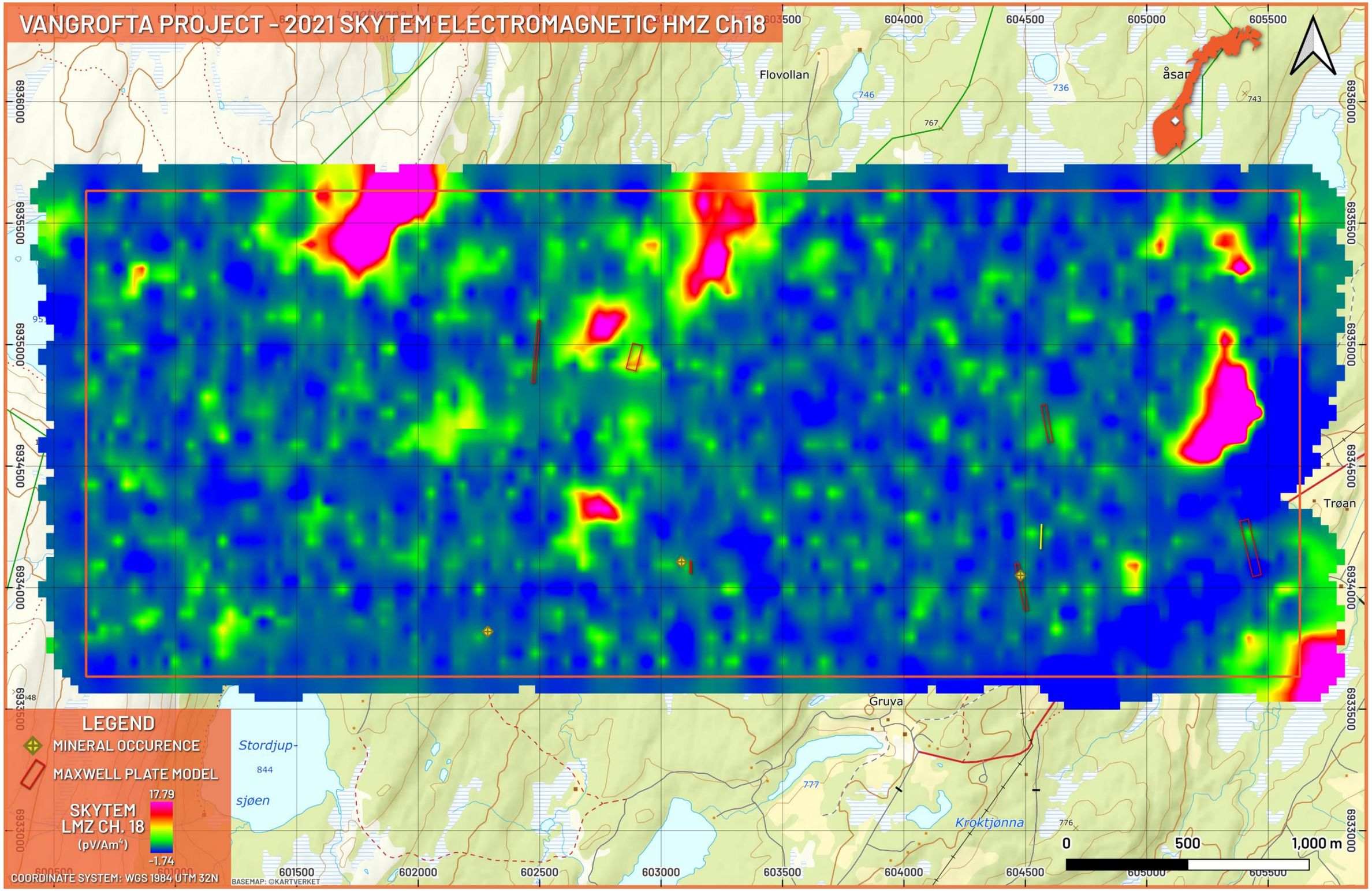
VANGROFTA PROJECT - 2021 SOIL SAMPLING LAYOUT

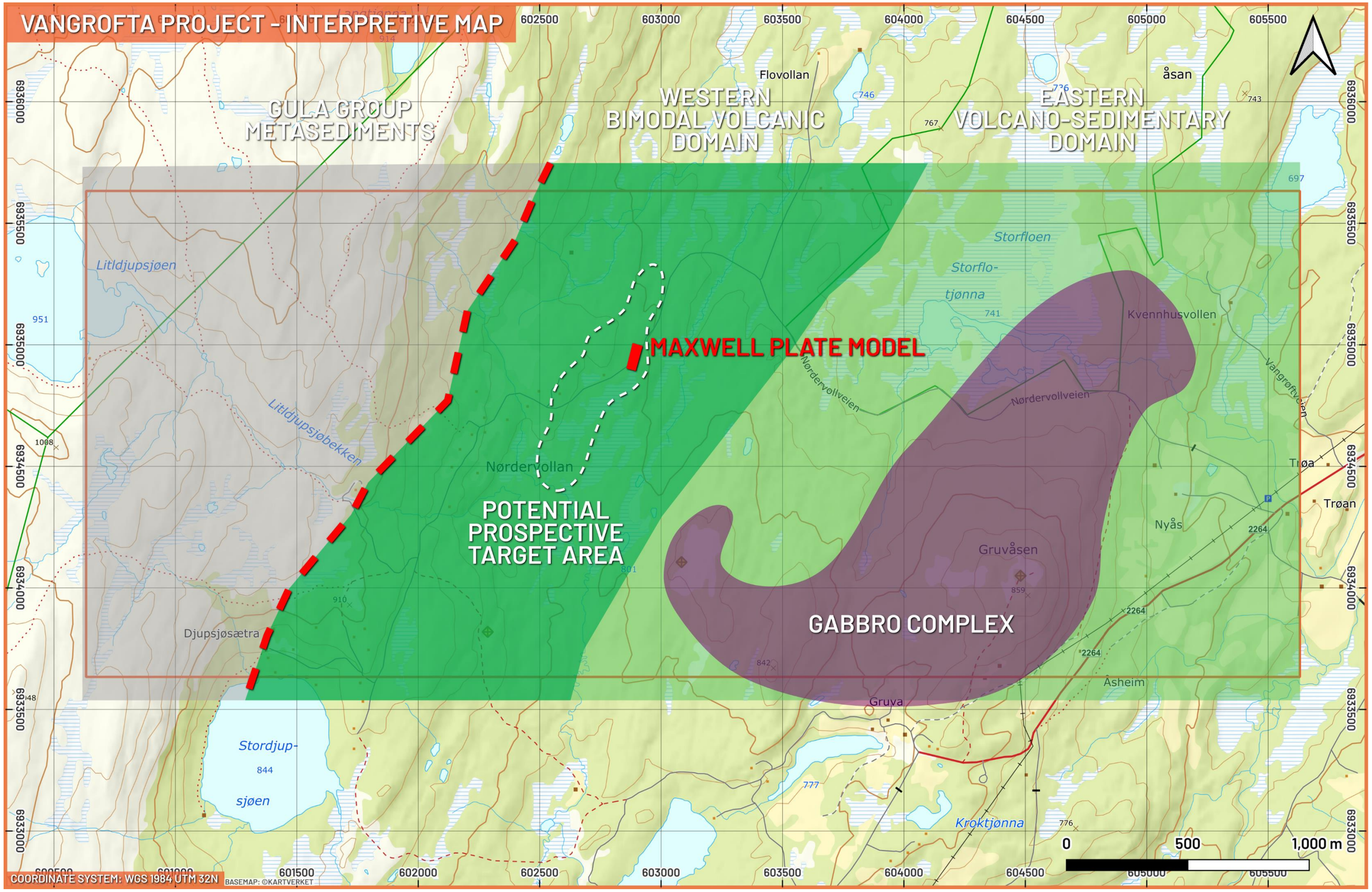



VANGROFTA PROJECT - 2021 SKYTEM MAGNETIC TOTAL MAGNETIC INTENSITY
Flovollan
åsan
Trøan
Gruva
Stordjup-
sjøen
Kroktjønna
LEGEND
MINERAL OCCURENCE
SKYTEM
T.M.I
(nT)
52028
51767
COORDINATE SYSTEM: WGS 1984 UTM 32N
BASEMAP: ©KARTVERKET
0
500
1,000 m
601500
602000
602500
603000
603500
604000
604500
605000
605500
6936000
6935500
6935000
6934500
6934000
6933500
6933000


VANGROFTA PROJECT - 2021 SKYTEM MAGNETIC VERTICAL DERIVATIVE
604000
604500
605000
605500
Flovollan
åsan
746
736
767
743
Trøan
Gruva
Stordjup-
844
sjøen
777
Kroktjønna
776
6936000
6935500
6935000
6934500
6934000
6933500
6933000
601500
602000
602500
603000
603500
604000
604500
605000
605500
LEGEND
MINERAL OCCURENCE
SKYTEM
1 VD
(nT/m)
1.22
-0.69
COORDINATE SYSTEM: WGS 1984 UTM 32N
BASEMAP: ©KARTVERKET
0
500
1,000 m


VANGROFTA PROJECT - 2021 SKYTEM ELECTROMAGNETIC HMZ Ch18
LEGEND
MINERAL OCCURENCE
MAXWELL PLATE MODEL
SKYTEM HMZ CH. 18
(pV/Am⁴)
10.11
-0.34
COORDINATE SYSTEM: WGS 1984 UTM 32N
BASEMAP: ©KARTVERKET
Flovollan
åsan
Trøan
Gruva
Stordjup-
sjøen
Kroktjønna
0
500
1,000 m


VANGROFTA PROJECT - 2021 SKYTEM ELECTROMAGNETIC HMZ Ch18
LEGEND
MINERAL OCCURENCE
MAXWELL PLATE MODEL
SKYTEM
LMZ CH. 18
(pV/Am⁴)
17.79
-1.74
COORDINATE SYSTEM: WGS 1984 UTM 32N
BASEMAP: ©KARTVERKET
Flovollan
åsan
Trøan
Gruva
Stordjup-
sjøen
Kroktjønna
0
500
1,000 m
601500
602000
602500
603000
603500
604000
604500
605000
605500
6936000
6935500
6935000
6934500
6934000
6933500
6933000


VANGROFTA PROJECT - INTERPRETIVE MAP
GULA GROUP METASEDIMENTS
WESTERN BIMODAL VOLCANIC DOMAIN
EASTERN VOLCANO-SEDIMENTARY DOMAIN
MAXWELL PLATE MODEL
POTENTIAL PROSPECTIVE TARGET AREA
GABBRO COMPLEX
Flovollan
åsan
Storfloen
Storflo-
tjønna
Kvennhusvollen
Litldjupsjøen
Litldjupsjøbekken
Nørdervollveien
Vangrøftveien
Nørdervollan
Trøa
Trøan
Nyås
Gruvåsen
Djupsjøsætra
Åsheim
Gruva
Stordjup-
sjøen
Kroktjønna
0
500
1,000 m
COORDINATE SYSTEM: WGS 1984 UTM 32N
BASEMAP: ©KARTVERKET

APPENDIX B1 – SOIL SAMPLING METADATA

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0002	604537	6933737	749	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Medium_Sand	Dry	Brown	Loose	None	Sharp edges, not Dre about clasts, sample taken, minor calc sillucaye rock	Other Metasedimentary Rock
VA-0003	604483	6933740	758	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Minor altered gabbro (calc sillicate ?), slate, shist weathered, quartzite	Schist
VA-0004	604430	6933737	767	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Black	SemiConsolidated	None	Gabbro with different degree of alteration, calc sillucate rock ?, moraine ? No grains, smooth	Gabbro
VA-0005	604388	6933743	772	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Altered gabbro, quartzite, schist sharp edges	Gabbro
VA-0006	604331	6933739	772	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Minor schist, sharp edges, till ?	Slate
VA-0007	604285	6933741	768	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Altered gabbro, sharp edges	Gabbro
VA-0008	604239	6933735	767	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Minor altered gabbro, sharp edges	Slate
VA-0009	604171	6933740	755	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Altered gabbro, big boulders, sharp / rounded edges	Gabbro
VA-0010	604115	6933732	751	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Big clasts of altered gabbro, sharp edges	Gabbro
VA-0011	604082	6933737	751	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Altrered gabbro, sharp edges	Gabbro
VA-0012	604024	6933737	754	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	BlackBlue	Loose	None	Sharp edges	Gabbro
VA-0013	604082	6933775	753	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Minor altered gabbro, sharp edges	CalcSilicate Rock
VA-0014	604122	6933769	756	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sharp edges	Gabbro
VA-0015	604181	6933772	753	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Altered gabbro big pebbles	Gabbro
VA-0016	604234	6933770	767	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sharp edges	CalcSilicate Rock
VA-0017	604289	6933766	769	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sharp edges	Gabbro
VA-0018	604336	6933764	780	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sharp edges	Slate
VA-0019	604393	6933767	779	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Foliated altered gabbro	Gabbro
VA-0020	604430	6933765	779	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sharp edges	Gabbro
VA-0024	604495	6933765	771	WGS1984 UTM32N	Rolling	None	None	A	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Minor schist, sharp edges, no a horizon	Gabbro
VA-0025	604557	6933773	760	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Minor slate , sharp edges	Gabbro
VA-0026	604759	6933947	734	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are altered angular gabbros.	Gabbro
VA-0027	604726	6933931	748	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Dry	Brown	Loose	None	The clasts are angular, altered gabbros.	Gabbro
VA-0028	604689	6933935	765	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Dry	Brown	Loose	None	The clasts are angular, altered gabbro	Gabbro
VA-0029	604639	6933938	787	WGS1984 UTM32N	Steep	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are angular, altered gabbros.	Gabbro
VA-0030	604587	6933936	812	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are probably highly altered gabbros. Thick grey A horizon.	Gabbro
VA-0031	604520	6933927	822	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Angular clasts of gabbro and chlorite shist, thin grey A horizon	Gabbro
VA-0032	604484	6933935	825	WGS1984 UTM32N	Gentle	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin A horizon, few angular clasts of gabbro	Gabbro
VA-0033	604421	6933923	824	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Thick brownish A horizon, few angular clasts of altered gabbro and chlorite shist	Gabbro
VA-0034	604378	6933938	821	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, clast-rich, angular clasts of altered gabbro and chlorite shist	Gabbro
VA-0035	604330	6933935	815	WGS1984 UTM32N	Gentle	None	None	B-C	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Sample taken above bedrock, angular clasts of gabbro and chlorite shist	Gabbro
VA-0036	604276	6933936	802	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Thin grey A horizon above brownish-grey B, abundant angular gabbro clasts, few chlorite shist clasts	Gabbro
VA-0037	604220	6933940	793	WGS1984 UTM32N	Gentle	None	None	A	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Thick clast-poor A horizon, angular clasts of altered gabbro	Gabbro
VA-0038	604173	6933944	787	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Brownish A horizon, abundant angular clasts of altered deformed gabbro	Gabbro
VA-0039	604127	6933922	782	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Thin grey A horizon, abundant angular clasts of deformed altered gabbro	Gabbro
VA-0040	604075	6933936	777	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Medium_Sand	Moist	Grey	Consolidated	None	Thick, clay-rich A horizon, B horizon solidified with abundant gabbro-clasts	Gabbro
VA-0044	604075	6933989	780	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of altered deformed gabbro	Gabbro
VA-0045	604118	6933993	782	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Medium_Sand	Moist	Brown	SemiConsolidated	None	Thin grey A horizon, abundant angular clasts of chlorite shist	Schist
VA-0046	604168	6933997	787	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Consolidated	None	Thick grey A horizon, me granite Boulder, angular altered deformed gabbro clasts	Gabbro
VA-0047	604215	6933994	791	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	Low	AB horizon sampled direct above bedrock, abundant angular clasts of deformed gabbro	Gabbro
VA-0048	604265	6933995	797	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	SemiConsolidated	None	Thick brownish-grey A horizon, angular clasts of gabbro and mylonite	Gabbro
VA-0049	604315	6933999	812	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Thin grayish A horizon, clast-rich B, angular clasts of gabbro, altered Gabbro and shist	Gabbro
VA-0051	604371	6933988	837	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin brownish A horizon, small angular clasts of altered gabbro	Gabbro

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0052	604414	6933996	850	WGS1984 UTM32N	Rolling	Industrial	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Brown AB horizon, single large angular gabbro clast	Gabbro
VA-0053	604521	6933989	853	WGS1984 UTM32N	Gentle	Industrial	Mining	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sample taken near mine shaft, angular clasts of deformed gabbro, thick A horizon sample taken directly above bedrock	Gabbro
VA-0054	604587	6933996	721	WGS1984 UTM32N	Gentle	Industrial	Mining	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sample taken near old mine shaft, subrounded clasts of gabbro and angular clasts of chlorite shist	Gabbro
VA-0055	604643	6933993	810	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Thin brownish A horizon, angular clasts of gabbro	Gabbro
VA-0056	604682	6933988	787	WGS1984 UTM32N	Moderate	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sample taken directly above bedrock, few angular clasts of gabbro	Gabbro
VA-0057	604727	6933980	776	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Brownish A horizon, angular to subrounded clasts of deformed and altered gabbro	Gabbro
VA-0058	604763	6933982	761	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	SemiConsolidated	None	Brownish A horizon, abundant angular clasts of chlorite shist and gabbro	Schist
VA-0059	604782	6934185	756	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Brownish A horizon, angular clasts of gabbro and chlorite shist	Gabbro
VA-0060	604738	6934181	770	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	SemiConsolidated	None	Brownish A horizon, clast-rich soil, abundant small clasts of gabbro, mylonite and chlorite shist	Gabbro
VA-0064	604690	6934177	785	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Thick brownish A horizon, angular clasts of gabbro and minor chlorite shist	Gabbro
VA-0065	604635	6934183	804	WGS1984 UTM32N	Gentle	Industrial	Mining	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Thin almost indistinguishable A horizon, angular clasts of deformed gabbro	Gabbro
VA-0066	604523	6934180	824	WGS1984 UTM32N	Rolling	Industrial	Mining	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	SemiConsolidated	None	Thin AB horizon above bedrock, angular clasts of deformed chloritized gabbro	Gabbro
VA-0067	604479	6934181	825	WGS1984 UTM32N	Gentle	Industrial	Mining	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	AB horizon above bedrock, angular clasts of chloritized gabbro and chlorite shist	Gabbro
VA-0068	604428	6934186	826	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin brownish A horizon, chloritized deformed gabbro clasts	Gabbro
VA-0069	604381	6934180	825	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Thin grey A and brown B horizon above bedrock, sample taken from both, small gabbro clasts	Gabbro
VA-0070	604324	6934177	834	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, abundant angular clasts of gabbro, mylonite and chlorite shist	Gabbro
VA-0071	604291	6934172	829	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Thin A and B horizon, both sampled, directly above bedrock, angular clasts of altered deformed gabbro	Gabbro
VA-0072	604238	6934180	819	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	Loose	Low	Very thin A horizon above bedrock	Gabbro
VA-0073	604187	6934170	810	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin A horizon, sampled above bedrock, angular clasts of deformed gabbro	Gabbro
VA-0074	604133	6934179	801	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Thin brownishA horizon, abundant angular gabbro clasts	Gabbro
VA-0075	604083	6934194	798	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, no clasts	Other Intrusive Rock
VA-0076	604527	6934380	799	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Dry	Brown	Loose	None	The clasts are angular, altered gabbro and shist.	Gabbro
VA-0077	604590	6934383	798	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Dry	Brown	Loose	None	The clasts are subangular, altered gabbros.	Gabbro
VA-0078	604638	6934384	795	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are only small (up to 5cm) highly weathered probably gabbro.	Gabbro
VA-0079	604681	6934382	790	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clast is angular, probably altered gabbro	Gabbro
VA-0080	604732	6934382	710	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are small (up to 5cm) subangular,altered gabbros.	Gabbro
VA-0084	604787	6934383	767	WGS1984 UTM32N	Moderate	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	The clasts are altered mylonitized subangular gabbros. The sample is taken just from above the bedrock.	Gabbro
VA-0085	604839	6934386	752	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts are quartzite and minor altered gabbro	Quartzite
VA-0086	604848	6934437	749	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts are small (up to 5cm), probably altered gabbro	Gabbro
VA-0087	604791	6934441	769	WGS1984 UTM32N	Steep	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts are altered gabbro	Gabbro
VA-0088	604727	6934439	777	WGS1984 UTM32N	Gentle	None	None	A	<2mm	Clay_and_Silt	Moist	Grey	SemiConsolidated	Low	Lack of clasts. Sample taken just from above the bedrock	Other Metasedimentary Rock
VA-0089	604677	6934439	714	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are only highly altered pebbles of probably gabbro	Other Metasedimentary Rock
VA-0090	604626	6934437	717	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are gabbro partially altered and chlorite shist.	Gabbro
VA-0091	604578	6934436	779	WGS1984 UTM32N	Gentle	None	None	A	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Clasts are pebbles of weathered, altered gabbro and shist .	Gabbro
VA-0092	604527	6934432	786	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts are altered gabbro with foliation, shist and. Sample is taken just from above the bedrock.	Gabbro
VA-0093	604524	6934490	780	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are massive quartz and quartzite with black minerals, also highly altered gabro and basalt.	Quartzite
VA-0094	604578	6934481	773	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts are altered gabbro	Gabbro
VA-0095	604622	6934488	769	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Highly altered rock, probably gabbro	Gabbro
VA-0096	604674	6934483	772	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts are altered gabbro with foliation and chlorite shist	Gabbro
VA-0097	604732	6934488	778	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts are only small pebbles	Schist
VA-0098	604802	6934492	767	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Highly altered gabbro	Gabbro
VA-0099	604854	6934488	746	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are mostly chlorite shist	Schist
VA-0100	604569	6933818	690	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Parent of VA-0102	Schist

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0104	604526	6933840	727	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Presnce of angular conbles of gabbro (massive, greenish becauze of alternateration, white grain) and schists. Angular cobbles of these as well in horizonB.	Gabbro
VA-0105	604476	6933845	731	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	Low	AB horizon sampled directly above bedrock, abundant angular clasts of gabbro and greenshist	Gabbro
VA-0106	604434	6933823	735	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly angular cobbles of gabbro	Gabbro
VA-0107	604371	6933823	708	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clasts cobbles and pebbles angular of schist (altered and black (slate?) and green) plus gabbro.	Schist
VA-0108	604321	6933816	704	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Presence of pebbles size clast, subrounded of gabbro and green schist. Cobbles on top	Schist
VA-0109	604276	6933808	698	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly green shist cobble and pebble size, angular cobble in horizon B	Schist
VA-0110	604223	6933814		WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	No pebbles in ho B, taken on bedrock (?)	
VA-0111	604177	6933807	686	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Lot of pebbles in horizon B, rounded, angular gabbro. Cobbles of schist and gabbro, angular	Gabbro
VA-0112	604124	6933813	758	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Coarse_Sand	Moist	Grey	Loose	None	Presence of pebbles and cobbles, angular and rounded, schist and gabbro in horizon AB. Sandy texture.	Schist
VA-0113	604075	6933816	686	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Mainly cobbles sub angular of gabbro in top of horizon B. Pebbles is horizon B of gneiss and shist, angular	Gabbro
VA-0114	604074	6933879	763	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Coarse_Sand	Moist	Brown	Loose	None	Mainly gabbro, small pebbles, rounded, Sandy texture	Gabbro
VA-0115	604124	6933881	758	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Coarse_Sand	Moist	Brown	Loose	None	Lot of schist and gneiss pebbles sub angular. Sandy texture	Schist
VA-0116	604173	6933881	754	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Coarse_Sand	Moist	Brown	Loose	None	High proportion of cobbles, angular, schist and gneiss before horizon B. Sandy texture, brown, pebbles of schist and gneiss	Schist
VA-0117	604221	6933880	700	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Taken between boulders. Cobbles of green schist, angular. Presence of gneiss pebbles angular	Schist
VA-0118	604271	6933883	705	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Coarse_Sand	Moist	Brown	Loose	None	Taken btw boulders. Angular cobbles of green schist, slate (?) and gabbro .Same pebbles	Schist
VA-0119	604325	6933878	742	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Cobbles angular of schist and gabbro	Gabbro
VA-0120	604371	6933879	716	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles of schist and gabbro	Gabbro
VA-0124	604420	6933880	720	WGS1984 UTM32N	Gentle	None	None	B-C	<2mm	Medium_Sand	Moist	Brown	Loose	None	Many clasts angular of gabbro and green shist.	Gabbro
VA-0125	604470	6933885	717	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Green schist angular cobbles mainly	Schist
VA-0126	604516	6933882	719	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Medium_Sand	Moist	Coral	Loose	None	Presence of gabbro - cobbles- angular and pebbles -green shist - angular	Gabbro
VA-0127	604569	6933886	717	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles of green schist angular. Few pebbles angular of green schist	Schist
VA-0128	604612	6933880	696	WGS1984 UTM32N	Steep	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Presence of chlorite schist very anglular cobble	Schist
VA-0129	604611	6933822	686	WGS1984 UTM32N	Steep	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	High proportion of clasts. Cobbles + pebbles - angular - schist and gabbro	Schist
VA-0130	604763	6934023	708	WGS1984 UTM32N	Moderate	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Presence of angular clasts , cobbles to small pebbles of altered gabbro and schist	Gneiss
VA-0131	604714	6934024	684	WGS1984 UTM32N	Steep	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Gabbro cobbles, sub angular, altered. angular cobbles and Pebbles of green schist.	Gabbro
VA-0132	604668	6934012	701	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular cobbles of green schist and gabbro. Same nature pebbles in horizon B	Schist
VA-0133	604614	6934024	734	WGS1984 UTM32N	Steep	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles angular of green schist. Cobbles subangular of gabbro. Pebbles sub angular of gabbro and schist.	Slate
VA-0134	604561	6934017	751	WGS1984 UTM32N	Steep	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock. Poor quality. Pebbles of schist sub angular, gabbro and green schist	Schist
VA-0135	604527	6934035	752	WGS1984 UTM32N	Rolling	Industrial	Mining	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Taken on bedrock near mine. Mostly green schist angular cobbles	Schist
VA-0136	604469	6934027	747	WGS1984 UTM32N	Rolling	Industrial	Mining	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	Medium	Taken by the mine. Not sure about the horizon. Taken on bedrock. Green schist angular cobbles and pebbles	Schist
VA-0137	604358	6934024	751	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Skip previous site due to bog and rock. Almost no clast, rare pebbles sub angular of gabbro.	Gabbro
VA-0138	604307	6934018	744	WGS1984 UTM32N	Gentle	None	None	A	<2mm	Medium_Sand	Moist	Brown	Loose	None	Many outcrop and boulders. Mainly gabbro cobbles angular	Gabbro
VA-0139	604262	6934026	731	WGS1984 UTM32N	Moderate	None	None	A	<2mm	Clay_and_Silt	Wet	BlackBrown	Loose	Medium	Bog plus white horizon. Poor quality. Taken on bedrock. Few pebbles of gabbro	Gabbro
VA-0140	604359	6934079	768	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Consolidated	None	No clear B horizon. Cobbles of angular gabbro . Angular pebbles and cobbles of schist with altered pyrite	Gabbro
VA-0144	604209	6934035	719	WGS1984 UTM32N	Moderate	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Had to move due to bog and bedrock	Gabbro
VA-0145	604153	6934022	713	WGS1984 UTM32N	Gentle	None	None	A	<2mm	(Very)Fine_Sand	Moist	BlackBrown	Loose	None	Horizon B not present. Clasts are gabbro angular cobbles. Taken on bedrock	Gabbro
VA-0146	604096	6934015	704	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Gabbro pebbles and schist, angular	Gabbro
VA-0147	604084	6934071	697	WGS1984 UTM32N	Moderate	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	No clasts	Gabbro
VA-0148	604150	6934069	708	WGS1984 UTM32N	Moderate	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Taken on bedrock. No clasts	Gabbro

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0149	604201	6934073	713	WGS1984 UTM32N	Moderate	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	Low	Taken on bedrock. Few clasts pebbles schist.	Schist
VA-0150	604258	6934076	723	WGS1984 UTM32N	Moderate	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	Low	Few clasts only of green schist angular, taken above bedrock	Schist
VA-0151	604309	6934080	734	WGS1984 UTM32N	Moderate	None	None	A	<2mm	(Very)Fine_Sand	Moist	BlackBrown	Loose	None	Taken on bedrock. Few pebbles of gabbro rounded	Schist
VA-0152	604413	6934079	762	WGS1984 UTM32N	Rolling	Industrial	Mining	A	<2mm	Clay_and_Silt	Moist	Grey	SemiConsolidated	None	Taken near the mine. A horizon. Clasts is mainly schist, angular, pebbles inside.	Schist
VA-0153	604506	6934092	763	WGS1984 UTM32N	Rolling	Industrial	Mining	A	<2mm	Medium_Sand	Moist	Black	Loose	Low	Taken near the tailing. Not sure about the soil quality. Must be polluted. Mostly schist angular cobbles and pebbles	Schist
VA-0154	604583	6934082	758	WGS1984 UTM32N	Gentle	Industrial	Mining	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken at the bottom of the tailing. Unsure of the quality. Seems to bo horizon B. Skip previous point as it was on the tailing. schist angular cobbles and pebbles	Schist
VA-0155	604632	6934079	741	WGS1984 UTM32N	Steep	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Mainly angular schist cobbles	Schist
VA-0156	604683	6934079	718	WGS1984 UTM32N	Steep	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles, angular, gabbro altered and schisted. Cobbles angular schist. Pebbles of schist mainly	Schist
VA-0157	604730	6934080	696	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist cobbles angular	Schist
VA-0158	604780	6934084	682	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly shist angular cobbles + shist su angular pebbles	Schist
VA-0159	604782	6934133	683	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	SemiConsolidated	None	Mainly sub angular cobbles of gabbro	Gabbro
VA-0160	604734	6934144	694	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Dry	Brown	SemiConsolidated	None	Mainly schist angular pebbles and cobbles	Schist
VA-0164	604679	6934136	717	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mostly angular cobbles of schist and pebbles. Few angular cobbles of gabbro	Schist
VA-0165	604626	6934134	735	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	High quantity of small pebbles to sand size in horizon B, schist and gabbro , angular. Cobbles of mainly green schist cobbles angular	Schist
VA-0166	604582	6934125	754	WGS1984 UTM32N	Moderate	Industrial	Mining	A-B	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Few clasts angular pebbles of schist. Taken near the tailing	Schist
VA-0167	604529	6934131	757	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Dry	Brown	Loose	None	Taken near the tailing. Horizon B. Mainly cobbles angular of gabbro , few pebbles	Gabbro
VA-0168	604489	6934141	762	WGS1984 UTM32N	Rolling	Industrial	Mining	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Far from the point due to the tailing. Presence of cobbles of gabbro angular to sub angular,	Gabbro
VA-0169	604430	6934136	759	WGS1984 UTM32N	Gentle	Industrial	Mining	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Gabbro cobbles angular	Gabbro
VA-0170	604387	6934129	763	WGS1984 UTM32N	Rolling	Industrial	Mining	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly gabbro angular cobbles and few schist pebbles angular	Gabbro
VA-0171	604337	6934133	766	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Gabbro with fuschite (?), angular cobbles of gabbro	Gabbro
VA-0172	604292	6934131	757	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Far from the point due to a cliff. Mainly schist, sub angular, cobbles	Schist
VA-0173	604248	6934130	747	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Cobbles angular gabbro	Gabbro
VA-0174	604194	6934134	750	WGS1984 UTM32N	Moderate	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	No horizon B. Taken on bedrock. Few pebbles of gabbro, sub angular. Presence of green crystals (chrisocal?)	Gabbro
VA-0175	604090	6934130	723	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly gabbro angular cobbles. Few pebbles of schist angular	Gabbro
VA-0176	604140	6934132	733	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles and pebbles of schist, angular. Taken on bedrock.	Schist
VA-0177	604489	6934236	754	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Take on bedrock. Mainly angular gabbro pebbles.	Gabbro
VA-0178	604544	6934234	754	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Chloritised deformed gabbro angular cobbles and pebbles and bit of chlorite schist	Gabbro
VA-0179	604645	6934229	732	WGS1984 UTM32N	Rolling	Industrial	Mining	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sample taken by mine. May be polluted. High concentration of angular cobbles and pebbles chlorite schist	Schist
VA-0180	604691	6934231	717	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Chloritised deformed gabbro, angular, pebbles and cobbles	Schist
VA-0184	604740	6934230	701	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock. Mostly cobbles of gabbro altered, angular. Also cobbles of schist	Gabbro
VA-0185	604796	6934236	687	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mostly chlorite schist angular cobbles. Few gabbro pebbles angular. Few pebbles of quartz	Schist
VA-0186	604791	6934278	687	WGS1984 UTM32N	Moderate	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly angular cobbles and pebbles of chlorite schist. Few cobbles angular of gabbro	Schist
VA-0187	604744	6934281	699	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mostly clast of chlorite schist, cobbles and pebbles, very high quantit. Few gabbro angular cobbles as well	Schist
VA-0188	604697	6934275	714	WGS1984 UTM32N	Moderate	None	None	B-C	<2mm	Clay_and_Silt	Wet	Brown	Loose	None	May be a water channel during spring. Clasts are mainly gabbro angular cobbles. Presence of schist in little quantity	Gabbro
VA-0189	604649	6934285	6934285	WGS1984 UTM32N	Moderate	Industrial	Mining	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Many pebbles of chlorite schist, grey brown horizon. Taken on bedrock and near a tailing	Schist
VA-0190	604597	6934275	734	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Consolidated	None	Taken on bedrock, horizon ab. Mostly chlorite schist angular pebbles.	Schist
VA-0191	604543	6934277	735	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly deformed gabbro angular pebbles and few schists. Taken on bedrock?	Gabbro
VA-0192	604498	6934274	737	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly cobbles of gabbro, angular, and few schists pebbles	Gabbro
VA-0193	604478	6934332	735	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	No clasts	Other Intrusive Rock
VA-0194	604531	6934334	725	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mix of gabbro, quartz but majority of chlorite schist. Pebbles and cobbles angular	Schist

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0195	604580	6934333	718	WGS1984 UTM32N	Moderate	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly gabbro angular cobbles and pebbles. Small pebbles angular of chlorite schist	Gabbro
VA-0196	604628	6934335	724	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock. Few pebbles of gabbro, angular	Gabbro
VA-0197	604682	6934334	715	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Quartz and schist pebbles, angular	Schist
VA-0198	604729	6934334	706	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	BlackBrown	Consolidated	None	Mainly gabbro but also quartzite, schist, quartz and calcite,	Gabbro
VA-0199	604775	6934334	686	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Gabbro cobbles, angular of gabbro. Few cobbles of schists.	Gabbro
VA-0200	604829	6934328	671	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles angular and pebbles angular of gabbro and chlorite schist	Gabbro
VA-0204	602986	6934125	724	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles angular of deformed gabbro. Taken on bedrock of gabbro soil for soil in	Gabbro
VA-0205	603031	6934122	724	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobble of gabbros altered plus few angular pebbles of schists	Gabbro
VA-0206	603080	6934136	734	WGS1984 UTM32N	Gentle	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Few Altered and deformed gabbro cobbles	Gabbro
VA-0207	603132	6934134	736	WGS1984 UTM32N	Gentle	Industrial	Mining	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Altered and deformed gabbro Cobbles (few)	Gabbro
VA-0208	603182	6934137	738	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Wet	Brown	Loose	None	Mainly gabbro pebbles angular of green schist	Schist
VA-0209	603239	6934133	739	WGS1984 UTM32N	Gentle	None	None	A	<2mm	Clay_and_Silt	Wet	BlackBrown	Loose	Low	Mainly cobbles of chlorite schist angular. Taken on bedrock. Few chloritised deformed gabbro	Schist
VA-0210	603285	6934137	732	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles and pebbles angular of chlorite schist	Schist
VA-0211	603290	6934190	731	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Very few angular pebbles and cobbles of chlorite schist	Schist
VA-0212	603238	6934186	739	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Angular pebbles of chlorite schist	Schist
VA-0213	603186	6934187	741	WGS1984 UTM32N	Gentle	None	None	A	<2mm	Clay_and_Silt	Wet	BlackBrown	Loose	Medium	Taken on bedrock. Few clasts of angular pebbles of schist	Schist
VA-0214	603128	6934183	737	WGS1984 UTM32N	Gentle	None	None	A	<2mm	Clay_and_Silt	Wet	BlackBrown	Loose	None	No clasts . Taken on bedrock	Gabbro
VA-0215	603080	6934175	735	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Very few small pebbles of schist and gabbro angular	Schist
VA-0216	603027	6934183	727	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Few quantity of small pebbles, angular, gabbro	Gabbro
VA-0217	602970	6934177	723	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Few clasts of chlorite schist angular pebbles	Schist
VA-0218	602971	6934234	717	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock. Cobbles angular of foliated gabbro	Gabbro
VA-0219	603022	6934246	724	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mix of gabbro, schist and quartzite pebbles, angular	Schist
VA-0220	603067	6934248	729	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Coral	Loose	None	Few cobbles of the same deformed gabbro	Gabbro
VA-0224	603114	6934268	735	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Taken on bedrock. Many Deformed gabbro, sub angular, pebbles. Few schist as well	Gabbro
VA-0225	603173	6934253	796	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly sub angular cobbles and pebbles of gabbro + few pebbles angular of schist	Gabbro
VA-0226	603237	6934263	795	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Pebbles of gabbro and schist, angular	Schist
VA-0227	603279	6934267	742	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Mainly schist angular pebbles and few angular pebbles of gabbro and quartzite	Schist
VA-0228	601877	6933732	799	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Dominant of schist chlorite schist, cobbles, angular. Presence of a very foliated and altered green gabbro	Schist
VA-0229	601987	6933733	796	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Wet	Brown	SemiConsolidated	None	Taken by the swamp. Many pebbles in ho B, of schists, angular. Few pebbles of quartz as well. Unsure about the horizon as there is no clear horizon A. skip previous point due to swamp	Slate
VA-0230	602030	6933733	798	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Few cobbles and pebbles of schist, angular, very altered. Also a piece of very altered gabbro with quartzite inside, outside completely weathered	Schist
VA-0231	602080	6933734	799	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly gabbro altered, angular and cobbles size. Few gabbro less weathered. Few pieces of schists angular pebbles	Gabbro
VA-0232	602132	6933731	791	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Taken on bedrock. Mostly chlorite schist, angular, pebbles and cobbles. Few gabbro as well	Schist
VA-0233	602187	6933734	780	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Presence of gabbro with quartz veins, quartzite -> angular and large cobbles. Few pieces of small pebbles of schists	Gabbro
VA-0234	602238	6933734	771	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	High quantity of pebbles, cobbles, large cobbles : chlorite schist angular. Few large cobbles of gabbro. Few pieces of quartz (pebbles angular)	Schist
VA-0235	602290	6933734		WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular cobbles of altered gabbro (some are foliated)	
VA-0236	602340	6933733	752	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Presence of green altered gabbro cobbles angular but also a white gabbro angular cobble. Few schist pebbles angular	Gabbro
VA-0237	602386	6933732	747	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles of altered (green) and classical gabbro (white), angular and schist . Pebbles of schist angular	Gabbro
VA-0238	602436	6933734	736	WGS1984 UTM32N	Gentle	None	None	C	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Horizon C? Cobbles of gabbro and quartz. Few pebbles of schist . All angular	Gabbro
VA-0239	602491	6933731	733	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Grey brown colour. Few pebbles of schist, angular. Cobbles of dark gabbro with few crystals of pyrite.	Gabbro
VA-0240	602482	6933936	736	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly cobbles of chlorite schist. Angular. High concentration of pebbles in ho B. Few clast of quartz	Schist

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0244	602382	6933930	748	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mainly cobbles of schist. Angular	Schist
VA-0245	602276	6933960	811	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Chlorite schist angular cobbles and pebbles	Schist
VA-0246	602237	6933930	781	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Taken above bedrock. Mostly quartzite sub angular. Few gabbro	Gabbro
VA-0247	602129	6933917	798	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None		Schist
VA-0248	602019	6933936	805	WGS1984 UTM32N	Gentle	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Had to move due to bog. Mainly schist cobbles angular	Schist
VA-0249	601926	6933932	811	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of chlorite schist	Schist
VA-0250	601880	6934029	823	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mostly schist pebbles and small pebbles, angular	Schist
VA-0251	601982	6934034	810	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular green schist cobbles and pebbles	Schist
VA-0252	602077	6934032	868	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles an cobbles of greenschist	Schist
VA-0253	602132	6934030	837	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	High quantity of pebbles and small pebbles angular schist, few gabbro as well.	Schist
VA-0254	602235	6934031	822	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Brown greyish colour. Few clasts of schist angular cobbles and pebbles	Schist
VA-0255	602337	6934028	800	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist cobbles and pebbles, angular. Few pebbles of gabbro, angular	Schist
VA-0256	602436	6934029	798	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock. Not much ho B, few gabbro, angular pebbles and schists	Schist
VA-0256	602846	6935422	794	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Had to move due to bog . No clasts	Schist
VA-0257	602485	6934133	794	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock. Few pebbles of quartz, gabbro and schist (green), all angular	Schist
VA-0258	602384	6934131	803	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Few cobbles of schists (black and green) + few pebbles as well of schist and quartz and gabbro	Schist
VA-0259	602281	6934133	816	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	High concentration of angular pebbles of schist	Schist
VA-0260	602169	6934130	832	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist pebbles angular, few gabbro	Schist
VA-0264	602071	6934132	846	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock of schist. Mainly schist cobbles and pebbles, thin and angular	Schist
VA-0265	601982	6934128	862	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	High concentration of angular cobbles and pebbles of schist. Few quartz, angular, pebbles . Taken on bedrock	Schist
VA-0266	601882	6934133	873	WGS1984 UTM32N	Gentle	None	None	C	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on bedrock. Few schist angular cobbles and pebbles	Schist
VA-0267	601879	6934235	891	WGS1984 UTM32N	Gentle	None	None	C	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Taken on bedrock. Very few clasts angular of schist	Schist
VA-0268	601931	6934236	877	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	High concentration of clasts. Mainly gabbro angular cobbles, few schist and quartz pebbles	Gabbro
VA-0269	601979	6934235	872	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Very few clasts some cobbles angular of gabbro and few pebbles of schists angular	Gabbro
VA-0270	602031	6934233	866	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist cobbles angular. Few gabbro angular cobbles	Schist
VA-0271	602079	6934239	857	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly pebbles of schist, angular. Few clasts of gabbro angular cobbles	Schist
VA-0272	602131	6934241	848	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	Low	Mainly schist, angular, pebbles	Schist
VA-0273	602189	6934232	837	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mainly pebbles of schist, angular. Few quartz pebbles	Schist
VA-0274	602230	6934236	834	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Cobbles, angular, of gabbro and schist. Also gabbro with quartz.	Schist
VA-0275	602280	6934236	829	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mostly schist pebbles and cobbles, angular. Few gabbro pebbles . Taken on bedrock	Schist
VA-0276	602333	6934238	818	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mainly schist large cobbles, angular. Few gabbro , angular, cobbles. Few pebbles of quartz	Schist
VA-0277	602380	6934235	816	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist cobbles and pebbles , angular. Few gabbro pebbles and cobbles , angular	Schist
VA-0278	602426	6934236	803	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	BlackBrown	Loose	None	Few clasts of gabbro, angular, pebbles	Gabbro
VA-0279	602473	6934237	803	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Few pebbles of green schist, angular	Quartzite
VA-0280	602427	6934416	807	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mainly green schist pebbles, angular. Few gabbro as well	Schist
VA-0284	602329	6934416	809	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	High quantity of clasts. Majority of schist angular cobbles and pebbles. Gabbro angular cobbles and pebbles	Schist
VA-0285	602232	6934410	827	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Presence of green schist angular cobbles and pebbles, also gabbro.	Schist
VA-0286	602136	6934420	846	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken on the side of the road (2m apart), may be polluted. Ho= 80% of pebbles and small pebbles. Schist and gabbro. Seems be an horizon A-c. Almost no soil.	Schist
VA-0287	602031	6934420	858	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Exclusively small pebbles. Schist and gabbro, angular	Schist
VA-0288	601947	6934418	875	WGS1984 UTM32N	Gentle	None	None	A	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Small pebbles to pebbles of schist, gneiss and quartz	Schist
VA-0289	601886	6934528	893	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Wet	Brown	Loose	Medium	Gabbro cobbles angular, pebbles angular of schist	Gabbro
VA-0290	601985	6934538	868	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Few schist pebbles angular. Had to move due to bog and rock	Schist

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0291	602071	6934527	860	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Had to move due to rock. Mainly schist, angular, cobbles and few pebbles	Schist
VA-0292	602486	6934930	849	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Few clasts angular of schist, pebbles (green and black)	Schist
VA-0293	602532	6934931	851	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Few clasts of green schist, angular, pebbles	Schist
VA-0294	602582	6934930	850	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist, angular, pebbles and pebbles (green and black) + few clasts of quartz angular pebbles	Schist
VA-0295	602635	6934928	845	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Presence of basalt, angular, cobbles. Sugary quartzite angular cobbles. Many pebbles of schist, angular	Schist
VA-0296	602679	6934942	834	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Few clasts, pebbles, angular quartz and schist. Few gabbro	Schist
VA-0297	602749	6934931	839	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Presence oh	Schist
VA-0298	602786	6934934	831	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Ochre	Loose	None	Few clasts of quartz, angular, pebbles. Clasts of angular, cobbles of gabbro (rich in feldspars, white, altered). Nearby is a Boulder of chloritised basalt with quartz vein	Quartzite
VA-0299	602835	6934938	826	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Ochre	Loose	None	Mainly schist, pebbles, angular	Schist
VA-0350	602776	6935122	884	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenstone and quartzite	Gabbro
VA-0351	602688	6935151	881	WGS1984 UTM32N	Rolling	Tourism	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist	Schist
VA-0352	602583	6935129	887	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles of angular quartzite,	Quartzite
VA-0353	602524	6935227	886	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist	Schist
VA-0358	603032	6935225	846	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular cobbles of foliated quartzite minor greenschist	Quartzite
VA-0359	602685	6935333	872	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are quartzite and minor shist. â€œAâ€œ horizon is completely white.	Quartzite
VA-0360	602737	6935334	867	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The only clast is small 3cm pebble of shist.	Schist
VA-0364	602780	6935328	867	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are quartzite and pebbles of shist.	Quartzite
VA-0365	602834	6935329	864	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are angular altered greenstone and quartzite. No pebbles, photo taken after fulfilling the hole due to iPad crash	Gabbro
VA-0366	602877	6935334	802	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are angular schist	Schist
VA-0367	602933	6935332	838	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are angular quartzite, some cobbles are foliated. Pebbles are also mostly quartzite with minor schist. The sample is taken just from above the bedrock	Quartzite
VA-0368	602990	6935335	839	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are angular, green schist	Schist
VA-0369	603039	6935337	843	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are: subrounded (20 cm) altered gabbro and angular pebbles of schist	Gabbro
VA-0370	603087	6935334	844	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are angular quartz and schist	Schist
VA-0371	603130	6935336	845	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are angular schist. Also numerous pebbles of schist	Schist
VA-0372	603178	6935342	837	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are only few pebbles of schist	Schist
VA-0373	603229	6935342	832	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are mostly schist but also recrystalised gabbro.	Schist
VA-0374	603261	6935338	832	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	No clasts, sampling not possible at the exact location due to bog occurrence	Schist
VA-0375	603276	6935535	834	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are subangular pebbles of green schist	Schist
VA-0376	603224	6935555	834	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are angular schist. Localisation changed due to the bog occurreance	Schist
VA-0377	603173	6935539	835	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	No clasts	Schist
VA-0378	603142	6935546	838	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	The clasts are subrounded greenstone and numerous schist pebbles	Schist
VA-0379	602936	6935641	785	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Cerusite schist, quartz, schist. Angular clasts cobbles and pebbles	Schist
VA-0380	602878	6935628	791	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Ochre	Loose	None	Gabbro/basalt chloritized cobbles, angular. Black schist, angular , cobbles. Quartz pebbles angular	Gabbro
VA-0384	602833	6935606	800	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	No clasts	Schist
VA-0385	602778	6935640	809	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Had to move move away from the swamp to get the sampl. Mainly gabbro foliated cobbles and pebbles . Granite rich on quartz cobbles. Schist pebbles	Gabbro
VA-0386	602734	6935629	815	WGS1984 UTM32N	Moderate	Tourism	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Schist (green, cerusite chlorite) pebbles, angular	Schist
VA-0387	602668	6935639	828	WGS1984 UTM32N	Moderate	None	None	Ae	<2mm	(Very)Fine_Sand	Moist	Brown	SemiConsolidated	None	Taken above bedrock, thin soil developing due to slope (?), bad quality. Mica schist mainly, angular, cobbles and pebbles. Few clasts of gabbro and quartz, angular, pebbles.	Schist
VA-0388	602644	6935636	829	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Bonus, taken above bedrock. Mainly schist pebbles, angular, with chlorite and mica	Schist
VA-0389	603082	6935535	843	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Clasts are only few schist	Schist
VA-0390	603105	6935539	789	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are angular, weathered gabbro	Gabbro

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0391	602931	6935539	855	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are quartzite with foliation and altered gabbro with foliation. Both angular	Quartzite
VA-0392	602882	6935533	866	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are subrounded altered greenstone and pebbles of schist	Schist
VA-0393	602823	6935539	863	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	There is only thin (5cm) layer of soil, under it there is well weathered schist. Impossible to sample only B horizon	Schist
VA-0394	602790	6935530	859	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Black	Loose	None	The clasts are mostly subangular quartzites but also green schist. Numerous 2-5mm grains.	Quartzite
VA-0395	602740	6935535	868	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	The clasts are weathered schists	Schist
VA-0396	602686	6935533	879	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	The clasts are subangular quartz, schist and greenstone with foliation.	Schist
VA-0400	602983	6934084	795	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Consolidated	None	Solidified B horizon under grey A, chlorite shist, gabbro and quartz pebbles	Schist
VA-0404	603037	6934085	802	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Extensive AB horizon, angular clasts of gabbro, chlorite shist and quartz	Gabbro
VA-0405	603093	6934090	806	WGS1984 UTM32N	Rolling	Industrial	None	A	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Sample above bedrock, next to testmine, angular clasts of deformed altered gabbro, minor sulphide minerals in gabbro,	Gabbro
VA-0406	603142	6934078	808	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Sample taken above bedrock, few angular clasts of gabbro	Gabbro
VA-0407	603193	6934085	812	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Medium_Sand	Moist	Grey	Loose	None	Sample taken close to bedrock, abundant cobbles and pebbles of gabbro and minor chlorite shist	Gabbro
VA-0408	603235	6934086	810	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Extensive A horizon fading into solidified clay-rich B, angular clasts of chlorite shist with quartz/calcite layers	Schist
VA-0409	603285	6934076	804	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Brownish A horizon, few angular clasts of gabbro and altered gabbro	Gabbro
VA-0410	603290	6934035	802	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Abundant angular clasts of gabbro and chlorite shist, shist contain disseminated arsenopyrite and pyrite	Gabbro
VA-0411	603238	6934026	805	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Extensive AB horizon, gabbro boulders host arsenopyrite and pyrote on chloritized planes and quartz veins	Gabbro
VA-0412	603196	6934030	809	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Fine-grained grey A horizon, clasts of quartz and chloritized gabbro	Quartzite
VA-0413	603142	6934031	808	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	Grey	SemiConsolidated	Low	Thin A horizon above bedrock, no clasts	Other Intrusive Rock
VA-0414	603094	6934027	805	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Sample raken above bedrock, angular small chlorite shist samples	Schist
VA-0415	603041	6934031	803	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	Grey	Loose	None	Thin A horizon above bedrock, abundant angular clasts of chlorite shist and foliated gabbro	Schist
VA-0416	602990	6934029	797	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of chlorite whilst and gabbro	Schist
VA-0417	602984	6933977	804	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of chloritized gabbro/chlorite shist	Schist
VA-0418	603038	6933977	803	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Medium_Sand	Moist	Grey	Loose	None	Thick clast-rich A horizon, b horizon could not be reached, angular clasts of quartz, gabbro and chlorite shist	Quartzite
VA-0419	603091	6933985	806	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Sample probably taken above bedrock, abundant angular clasts of gabbro and minor chlorite shist	Gabbro
VA-0420	603146	6933983	809	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Brownish A horizon, angular clasts of chlorite shist and minor gabbro	Schist
VA-0424	603196	6933984	810	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	AB horizon above bedrock, angular clasts of gabbro and quartz	Gabbro
VA-0425	603236	6933983	810	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Thin grey A horizon, angular to subrounded clasts of gabbro minor quartz	Gabbro
VA-0426	603292	6933977	807	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of gabbro and chlorite shist	Gabbro
VA-0427	601901	6933834	869	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Angular clasts	Granite
VA-0428	602015	6933830	869	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Angular, greenstone, minor schist	Gabbro
VA-0429	602041	6933830	869	WGS1984 UTM32N	Rolling	None	None	B	Not Sieved	(Very)Fine_Sand	Wet	Brown	Loose	None	Angular chloritized gabbro	Gabbro
VA-0430	602081	6933835	869	WGS1984 UTM32N	Rolling	None	None	B	Not Sieved	(Very)Fine_Sand	Moist	Brown	Loose	None	Cobbles of quartzite, minor greenschist	Quartzite
VA-0431	602128	6933837	864	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Cobbles of chloritized gabbro with quartz, angular	Gabbro
VA-0432	602171	6933838	856	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Big clasts of chloritized gabbro with foliation and without	Gabbro
VA-0433	602218	6933839	843	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Boulders of foliated quartzite, minor chloritized gabbro and greenschist	Quartzite
VA-0434	602268	6933841	836	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of foliated quartzite and gabbro with quartz, bed rock reached	Gabbro
VA-0435	602212	6933844	825	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular big cobbles of greenstone	Gabbro
VA-0436	602363	6933855	817	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular boulders of foliated quartzite with minor slate	Slate
VA-0437	602411	6933853	809	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Cobbles af altered gabbro	Gabbro
VA-0438	602475	6933851	805	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of altered gabbro and quartzite	Gabbro
VA-0439	602430	6933941	814	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Angular pebbles of altered gabbro, minor schist and quartzite	Gabbro
VA-0440	602331	6933941	829	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist	Schist
VA-0444	602185	6933929	859	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of foliated altered gabbro	Gabbro

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0445	602083	6933928	876	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist, and altered gabbro	Schist
VA-0446	601978	6933932	879	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist and minor gabbro	Schist
VA-0447	601882	6933926	891	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Small pebbles of altered gabbro and greenschist	Gabbro
VA-0448	601927	6934029	888	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist minor altered foliated gabbro	Schist
VA-0449	602027	6934032	874	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular clasts of quartzite and altered gabbro	Quartzite
VA-0450	602192	6934023	900	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of altered gabbro	Gabbro
VA-0451	602289	6934030	887	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist	Schist
VA-0452	602386	6934036	870	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of altered gabbro	Gabbro
VA-0453	602507	6934035	858	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist	Schist
VA-0454	602436	6934131	868	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Blue	Loose	None	Pebbles of greenschist minor altered gabbro	Schist
VA-0455	602335	6934125	872	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of altered gabbro	Gabbro
VA-0456	602242	6934131	893	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Angular pebbles of altered gabbro minor greenschist	Gabbro
VA-0457	602144	6934132	904	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of altered gabbro minor greenschist	Gabbro
VA-0458	602026	6934137	921	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of greenschist	Schist
VA-0459	601937	6934131	932	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of altered gabbro	Gabbro
VA-0460	601864	6934322	956	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Sample taken above bedrock, angular clasts of highly foliated chlorite shist/meta gabbro	Schist
VA-0464	601939	6934299	942	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Brownish-black A horizon, few pebbles of quartz and foliated gabbro/shist	Gabbro
VA-0465	601984	6934334	939	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of granite and foliated greenstone	Granite
VA-0466	602027	6934332	932	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Sample taken above bedrock, angular clasts of chlorite shist/greenstone	Schist
VA-0467	602080	6934326	924	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Ochre	Loose	None	Thin grey A horizon, angular clasts of greenstone and quartz	Schist
VA-0468	602178	6934333	907	WGS1984 UTM32N	Moderate	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular clasts of Felicia intrusive and greenstone	Schist
VA-0469	602225	6934331	888	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Medium_Sand	Moist	Grey	Loose	None	Sample taken next to river but to lacking variation in clast-size suggests no fluvial deposit, dark-grey color, clasts of greenshgreenschist ist	Schist
VA-0470	602283	6934328	883	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Brownish-black A, no clasts	Other Intrusive Rock
VA-0471	602331	6934330	890	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, few angular clasts of greenschist/greenstone	Schist
VA-0472	602377	6934330	880	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, abundant angular pebbles of chlorite shist	Schist
VA-0473	602428	6934330	872	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Abundant clasts of greenschist and gabbro, potential fluvial deposit, sampled next to creek	Schist
VA-0474	602480	6934334	874	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts depth pebbles of chlorite shist/greenschist,	Schist
VA-0475	602470	6934431	869	WGS1984 UTM32N	Rolling	None	None	B-C	<2mm	(Very)Fine_Sand	Moist	Grey	Loose	None	Clast-rich soil, angular clasts of quartz and pebbles of chlorite shist/greenstone	Quartzite
VA-0476	602372	6934420	874	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, few pebbles of chlorite shist	Schist
VA-0477	602271	6934416	891	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Brownish A horizon, angular greenstone/chlorite shist clasts	Schist
VA-0478	602178	6934398	902	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin brownish A horizon, angular clasts of greenstone/chlorite shist	Schist
VA-0479	602087	6934423	910	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular clasts of greenschist/greenstone	Schist
VA-0480	601990	6934421	924	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Extensive AB horizon, angular clasts of greenstone/greenschist	Schist
VA-0484	601901	6934415	942	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Black	Loose	Low	Abundant clasts of felsic shist (quartz sericite), sample taken above bedrock	Schist
VA-0485	601936	6934531	937	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Clast-poor, single Boulder of felsic shist	Schist
VA-0486	602036	6934538	919	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Black	Loose	Medium	Angular quartz clasts and chlorite shist pebbles, sampled on side of bog	Schist
VA-0487	602522	6935032	913	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of quartz and greenstone, sampled close to bedrock	Quartzite
VA-0488	602578	6935032	911	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of quartz sericite shist and quartz	Schist
VA-0489	602630	6935034	905	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of chlorite shist/greenstone	Other Intrusive Rock
VA-0490	602679	6935033	898	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thick grey A horizon, abundant weathered clasts of chlorite shist	Schist
VA-0491	602737	6935024	901	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Blackish A horizon, angular clasts of chlorite sericite shist and quartz	Schist
VA-0492	602788	6935034	898	WGS1984 UTM32N	Rolling	None	None	A	<2mm	Clay_and_Silt	Moist	Grey	SemiConsolidated	Low	Extensive A horizon	Schist
VA-0493	602832	6935034	890	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of quartz sericite shist and greenstone	Schist
VA-0494	602879	6935034	884	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Thin grey A horizon, angular clasts of quartz sericite shist and chlorite shist	Schist
VA-0495	602930	6935027	873	WGS1984 UTM32N	Moderate	None	None	A-B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Extensive AB horizon, angular clasts of quartz and quartz sericite shist	Quartzite

Sample ID	Easting	Northing	Elevation	Coordinate System	Topography	Land Use	Contamination	Soil Horizon	Grain Size Collected	Matrix Grain Size	Moisture	Colour	Soil Packing	OM Content	Comments	Clast Lithology
VA-0496	602981	6935034	860	WGS1984 UTM32N	Gentle	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Abundant clasts of quartz sericite shist	Schist
VA-0497	603031	6935033	851	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Thick grey A horizon, big granite Boulder, smaller quartz sericite shist-clasts	Granite
VA-0498	603071	6935039	850	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	SemiConsolidated	None	Dark A horizon, pyrite in the only few chlorite shist-clasts	Schist
VA-0499	602876	6935126	871	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Pebbles of angular greenschist	Schist
VA-0500	602875	6934936	817	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Schist pebbles angular, very few quartzite with Muscovites	Schist
VA-0504	602925	6934927	817	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Majority of clasts are angular, pebbles, of schist. Presence of basalt (few, angular cobbles), bit of pebbles angular of quartz	Schist
VA-0505	602972	6934933	799	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist, angular pebbles and cobbles. Two sort, chloritised one with a lot of layers, other one more massive with quartz veins	Schist
VA-0506	603076	6935128	790	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Pebbles of schist, angular.	Schist
VA-0507	603035	6935131	794	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Biotite schists, basalt with minor qtz, quartzite with minor biotite (large cobbles) , all angular	Schist
VA-0508	602973	6935133	803	WGS1984 UTM32N	Moderate	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Mainly schist and quartzite sugary (with weathered biotite) foliated, cobbles and pebbles	Schist
VA-0509	602926	6935138	800	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Black	Loose	None	Schist , angular, pebbles, cobbles. Not big quantity of soil	Schist
VA-0510	602818	6935135	815	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Above bedrock, chloritised basalt, quartzite, schi- cobbles angular	Schist
VA-0511	602735	6935141	814	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mainly schist angular pebbles and cobbles	Schist
VA-0512	602631	6935139	818	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Quartzite with Muscovites, schist, angular pebbles and cobbles	Quartzite
VA-0513	602527	6935131	822	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Quartzite, large cobbles, angular. Schists angular cobbles	Quartzite
VA-0514	602572	6935231	815	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Schist angular cobbles, altered, black	Schist
VA-0515	602675	6935233	806	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Has to move due to bog. Basalt + very foliated gabbro, cobbles and angular	Gabbro
VA-0516	602777	6935236	806	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Quartz and schist , angular, cobbles	Quartzite
VA-0517	602875	6935239	798	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Few schist angular, gneiss ?	Gneiss
VA-0518	602977	6935236	780	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Mainly schist cobbles angular	Schist
VA-0519	603079	6935238	777	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Coral	Loose	None	Lot of pebbles of schist, angular. Few quartzite angular cobbles	Schist
VA-0520	602664	6935399	800	WGS1984 UTM32N	Rolling	None	None	A-B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Vclast of chlorite shist, angular, cobbles . Had to move due to bog. Taken on bedrock	Schist
VA-0524	602734	6935387	801	WGS1984 UTM32N	Gentle	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Mainly schist clasts, angular, pebbles to small pebbles	Schist
VA-0525	602795	6935422	795	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Had to move due to bogs. Mainly chloritized basalt	Other Intrusive Rock
VA-0527	602894	6935421	789	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Quartz cerusite schist Cobbles angular + quartz. Pebbles of greenschist	Schist
VA-0528	602939	6935422	778	WGS1984 UTM32N	Moderate	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	High concentration of chloritized basalt, angular, pebbles. Quartzite angular clasts	Other Intrusive Rock
VA-0529	603035	6935419	768	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Had to skip previous as it was in bog. Mainly schist and chloritized gabbro	Schist
VA-0530	603086	6935424	768	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Medium_Sand	Moist	Brown	Loose	None	Taken on bedrock. High concentration of pebbles angular of schist chloritized	Schist
VA-0531	603137	6935416	767	WGS1984 UTM32N	Rolling	None	None	B	<2mm	Clay_and_Silt	Moist	Brown	Loose	None	Had to move due to bog. Chloritized gabbro or basalt, angular, cobbles	Schist
Va-0532	603187	6935427	767	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Wet	Black0	Loose	None	Had to move due to bog . Mainly angular gabbro chloritized, cobbles	Gabbro
VA-0533	603275	6935435	780	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Black0	Loose	None	Chlorite shist on the bottom creating a lot of pebbles, angular	Schist
VA-0534	602604	6935224	876	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of of greenstone indie chlorite greenschist	Gabbro
VA-0534	603292	6935636	764	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Taken above bedrock. High concentration of shist mica chloritized	Schist
VA-0535	602722	6935237	869	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of foliated greenstone	Gabbro
VA-0535	603215	6935632	766	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Had to skip previous point due to bog. Chlorite mica schist . T	Schist
VA-0536	602827	6935244	870	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of chlorite schist	Schist
VA-0536	603180	6935631	771	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Mainly schist angular (mica chlorite)	Schist
VA-0537	602924	6935252	860	WGS1984 UTM32N	Rolling	None	None	B	<2mm	(Very)Fine_Sand	Moist	Brown	Loose	None	Angular pebbles of foliated greenstone	Gabbro
VA-0537	603117	6935634	776	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None		Schist
VA-0538	603072	6935636	773	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Few schist pebbles	Schist
VA-0539	603034	6935639	782	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Mica chloritized shist	Schist
VA-0540	602987	6935631	776	WGS1984 UTM32N	Gentle	None	None	B	<2mm	(Very)Fine_Sand	Moist	Ochre	Loose	None	Quartz cerusite schist, angular, cobbles. Few schist pebbles	Schist

APPENDIX B2 – SOIL SAMPLING ASSAYS – MAJOR ELEMENTS

Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%
VA-0002	**604537**	**6933737**	749	6.48	1.62	6.17	0.87	3.32	0.89	0.02	0.295
VA-0003	**604483**	**6933740**	758	7.7	1.54	8.58	1.16	4.07	0.8	0.04	0.302
VA-0004	**604430**	**6933737**	767	6.79	1.51	7.95	1.12	3.33	0.76	0.02	0.339
VA-0005	**604388**	**6933743**	772	6.45	1.34	6.69	1.11	2.29	1.06	0.03	0.287
VA-0006	**604331**	**6933739**	772	7.14	1.26	6.78	1.1	3.23	1	0.04	0.314
VA-0007	**604285**	**6933741**	768	6.78	1.24	7.91	1.12	3.18	0.94	0.03	0.328
VA-0008	**604239**	**6933735**	767	5.48	1.02	3.68	1.43	1.16	1.21	0.02	0.341
VA-0009	**604171**	**6933740**	755	5.6	1.04	6.45	1.26	1.32	1.05	0.03	0.452
VA-0010	**604115**	**6933732**	751	5.91	1.04	5.78	1.24	1.61	0.91	0.04	0.416
VA-0011	**604082**	**6933737**	751	7.89	2.29	6.39	0.78	5.22	0.89	0.03	0.248
VA-0012	**604024**	**6933737**	754	7.43	1.34	5.86	1.21	3.49	1.16	0.02	0.312
VA-0013	**604082**	**6933775**	753	6.6	1.25	4.55	1.47	1.91	1.17	0.02	0.338
VA-0014	**604122**	**6933769**	756	7.15	2.21	5.51	1	4.06	1.18	0.02	0.306
VA-0015	**604181**	**6933772**	753	6.17	1.07	4.16	1.63	1.4	1.06	0.04	0.276
VA-0016	**604234**	**6933770**	767	7.13	1.24	8.47	1.17	3	0.98	0.03	0.333
VA-0017	**604289**	**6933766**	769	6.04	1.24	5.43	1.4	1.8	1.08	0.03	0.355
VA-0018	**604336**	**6933764**	780	6.57	1.11	6.85	1.25	2.74	1	0.02	0.405
VA-0019	**604393**	**6933767**	779	6.17	1.3	8.85	0.94	3.23	0.83	0.02	0.351
VA-0020	**604430**	**6933765**	779	6.6	1.32	6.85	1.2	2.65	0.91	0.03	0.322
VA-0024	**604495**	**6933765**	771	6.34	1.6	5.72	1.16	3.29	1.03	0.01	0.276
VA-0025	**604557**	**6933773**	760	6.84	1.54	7.33	0.93	3.99	1	0.02	0.291
VA-0026	**604759**	**6933947**	734	7.13	1.66	6.97	0.78	4.68	1.23	0.01	0.244
VA-0027	**604726**	**6933931**	748	7.07	1.7	6.34	0.91	3.41	1.26	0.02	0.278
VA-0028	**604689**	**6933935**	765	6.33	1.32	5.12	1.29	1.82	1.11	0.02	0.307
VA-0029	**604639**	**6933938**	787	6.64	1.66	6.6	0.96	3.75	1.09	0.01	0.288
VA-0030	**604587**	**6933936**	812	6.92	1.74	6.59	0.94	4.45	0.99	0.02	0.277
VA-0031	**604520**	**6933927**	822	6.54	1.58	5.88	0.81	4.3	1.04	0.04	0.264
VA-0032	**604484**	**6933935**	825	6.98	1.64	6.39	1.13	4.5	0.89	0.02	0.258
VA-0033	**604421**	**6933923**	824	6.61	1.74	6.55	0.87	3.68	1.04	0.02	0.34
VA-0034	**604378**	**6933938**	821	6.42	1.58	5.8	0.93	2.53	1.04	0.03	0.288
VA-0035	**604330**	**6933935**	815	7.51	1.63	6.49	0.99	4.55	0.86	0.02	0.286
VA-0036	**604276**	**6933936**	802	7.24	1.6	5.75	1.14	4.43	1.41	0.02	0.262
VA-0037	**604220**	**6933940**	793	5.9	1.65	3.85	1.36	2.84	1.07	0.03	0.314
VA-0038	**604173**	**6933944**	787	5.82	1.54	4.54	1.3	2.18	1.06	0.02	0.309
VA-0039	**604127**	**6933922**	782	6.23	1.46	4.81	1.21	2.14	1.03	0.03	0.309
VA-0040	**604075**	**6933936**	777	5.79	2.27	3.67	0.92	3.46	1.15	0.01	0.346
VA-0044	**604075**	**6933989**	780	6.41	1.56	5.13	0.98	2.62	1.06	0.04	0.299
VA-0045	**604118**	**6933993**	782	6.94	1.15	4.92	1.87	2.22	1.12	0.02	0.366
VA-0046	**604168**	**6933997**	787	5.51	1.86	4.11	1	2.76	1.02	0.02	0.357
VA-0047	**604215**	**6933994**	791	6.43	1.17	3.32	1.48	2.52	1.04	0.03	0.302
VA-0048	**604265**	**6933995**	797	10.3	2.37	6.12	3.26	3.61	2.25	0.01	0.603
VA-0049	**604315**	**6933999**	812	5.96	1.52	5.32	1.16	2.25	1.05	0.02	0.288
VA-0051	**604371**	**6933988**	837	6.61	1.62	6.2	0.71	4.32	0.9	0.03	0.273
VA-0052	**604414**	**6933996**	850	7.07	1.52	6.63	0.99	4.5	0.95	0.06	0.276
VA-0053	**604521**	**6933989**	853	5.71	1.56	3.74	1.08	3.1	1.07	0.02	0.279
VA-0054	**604587**	**6933996**	721	6.01	1.5	4.22	1.38	2.27	1.23	0.02	0.31
VA-0055	**604643**	**6933993**	810	5.44	1.28	3.61	1.56	1.62	1.24	0.01	0.342
VA-0056	**604682**	**6933988**	787	5.7	2.25	4.09	0.89	2.99	1.25	0.02	0.249
VA-0057	**604727**	**6933980**	776	6.7	1.22	4.56	1.92	2.36	1.23	0.01	0.302
VA-0058	**604763**	**6933982**	761	7.09	1.79	6.83	0.69	4.58	1.47	0.01	0.269
VA-0059	**604782**	**6934185**	756	6.34	1.96	5.4	0.95	3.99	1.43	0.02	0.25
VA-0060	**604738**	**6934181**	770	6.73	2.2	6.24	0.59	4.57	1.65	0.02	0.254
VA-0064	**604690**	**6934177**	785	6.13	1.84	5.48	0.79	3.4	1.4	0.02	0.251
VA-0065	**604635**	**6934183**	804	6.75	1.59	5.41	1.22	3.52	1.23	0.02	0.275
VA-0066	**604523**	**6934180**	824	6.52	1.84	6.17	0.74	3.5	1.18	0.04	0.398
VA-0067	**604479**	**6934181**	825	6.08	2.27	5.19	0.78	3.48	1.14	0.02	0.284
VA-0068	**604428**	**6934186**	826	5.7	1.88	6.2	0.83	2.68	1.06	0.02	0.342
VA-0069	**604381**	**6934180**	825	4.48	1.46	3.12	1.25	1.05	1.07	0.02	0.409
VA-0070	**604324**	**6934177**	834	6.32	1.44	4.92	1.34	1.82	1.07	0.03	0.371
VA-0071	**604291**	**6934172**	829	5.86	1.74	5.45	0.77	1.96	0.88	0.03	0.334

Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%
VA-0072	**604238**	**6934180**	819	4.54	0.92	1.04	1.64	0.46	1.2	0.01	0.343
VA-0073	**604187**	**6934170**	810	6.03	1.68	6.29	0.76	2.05	0.85	0.03	0.321
VA-0074	**604133**	**6934179**	801	6.35	1.12	4.41	1.83	1.54	1.09	0.02	0.34
VA-0075	**604083**	**6934194**	798	6.77	1.02	4.56	1.8	1.51	1.09	0.02	0.339
VA-0076	**604527**	**6934380**	799	6.45	1.52	4.05	1.52	1.95	1.26	0.02	0.343
VA-0077	**604590**	**6934383**	798	5.93	1.4	5.38	1.18	1.68	1.15	0.03	0.384
VA-0078	**604638**	**6934384**	795	6.45	1.6	5.14	0.9	2.53	1.2	0.03	0.332
VA-0079	**604681**	**6934382**	790	6.21	1.26	4.01	1.68	1.73	1.28	0.01	0.353
VA-0080	**604732**	**6934382**	710	7.41	1.54	5.33	1.62	2.83	1.36	0.02	0.321
VA-0084	**604787**	**6934383**	767	7.1	2.74	6.25	0.7	5.03	1.61	0.01	0.247
VA-0085	**604839**	**6934386**	752	6.66	2.09	5.11	1.07	3.11	1.56	0.02	0.285
VA-0086	**604848**	**6934437**	749	6.82	2.61	6.68	0.73	4.24	1.45	0.02	0.28
VA-0087	**604791**	**6934441**	769	5.76	1.44	5.3	1.59	1.6	1.2	0.02	0.345
VA-0088	**604727**	**6934439**	777	5.63	1.62	2.48	1.4	1.68	1.51	0.01	0.347
VA-0089	**604677**	**6934439**	714	6.16	1.28	3.87	1.63	1.82	1.27	0.02	0.322
VA-0090	**604626**	**6934437**	717	6.5	2.23	5.18	0.68	3.09	1.33	0.03	0.267
VA-0091	**604578**	**6934436**	779	6.47	2.02	4.89	1.36	3.06	1.38	0.01	0.326
VA-0092	**604527**	**6934432**	786	6.09	2.22	5.35	0.55	2.8	1.21	0.02	0.32
VA-0093	**604524**	**6934490**	780	6.85	1.5	5.1	1.76	2.26	1.24	0.02	0.326
VA-0094	**604578**	**6934481**	773	6.69	2.18	7.19	0.84	2.78	1.3	0.03	0.329
VA-0095	**604622**	**6934488**	769	5.67	1.12	3.02	2.1	1.15	1.23	0.01	0.333
VA-0096	**604674**	**6934483**	772	6.77	2.09	4.86	1.36	3.2	1.43	0.01	0.314
VA-0097	**604732**	**6934488**	778	5.99	2.15	4.95	0.92	1.99	1.58	0.02	0.366
VA-0098	**604802**	**6934492**	767	6.08	1.47	7.24	0.83	1.87	1.02	0.05	0.338
VA-0099	**604854**	**6934488**	746	7.06	2.5	6.36	0.84	4.47	1.4	0.02	0.27
VA-0100	**604569**	**6933818**	690	7.02	1.67	7.6	0.66	4.4	0.98	0.03	0.289
VA-0104	**604526**	**6933840**	727	6.66	1.94	6	1.02	4.1	1.17	0.01	0.298
VA-0105	**604476**	**6933845**	731	6.65	2.07	5.37	0.79	3.85	1.2	0.03	0.314
VA-0106	**604434**	**6933823**	735	7.17	1.76	6.3	1.06	3.98	0.95	0.03	0.324
VA-0107	**604371**	**6933823**	708	7.17	1.32	6.55	1.26	3.43	0.93	0.03	0.34
VA-0108	**604321**	**6933816**	704	7.54	1.86	7.07	0.8	4.4	0.99	0.03	0.328
VA-0109	**604276**	**6933808**	698	6.35	1.63	6.1	0.99	2.33	1.17	0.03	0.368
VA-0110	**604223**	**6933814**		5.6	1.14	3.46	1.9	1.27	1.15	0.01	0.309
VA-0111	**604177**	**6933807**	686	6.99	1.7	6.77	0.89	4.13	0.88	0.03	0.3
VA-0112	**604124**	**6933813**	758	6.46	1.66	3.89	1.71	2.88	1.2	0.01	0.313
VA-0113	**604075**	**6933816**	686	6.7	1.74	4.49	1.44	2.14	1.22	0.03	0.344
VA-0114	**604074**	**6933879**	763	7.47	2.72	5.49	1.01	4.75	1.3	0.02	0.277
VA-0115	**604124**	**6933881**	758	7.47	2.1	7.74	1.08	4.76	1.06	0.02	0.322
VA-0116	**604173**	**6933881**	754	7.83	2.35	8.76	0.82	5.14	0.92	0.04	0.327
VA-0117	**604221**	**6933880**	700	5.9	1.34	4.5	1.38	1.7	1.06	0.02	0.33
VA-0118	**604271**	**6933883**	705	6.06	1.81	4.38	1.3	3.38	1.03	0.01	0.304
VA-0119	**604325**	**6933878**	742	6.67	1.36	5.79	1.3	2.45	1.07	0.03	0.305
VA-0120	**604371**	**6933879**	716	5.87	1.22	4.2	1.58	1.54	1.16	0.03	0.335
VA-0124	**604420**	**6933880**	720	6.41	1.56	5.39	1.04	3.08	1.07	0.02	0.282
VA-0125	**604470**	**6933885**	717	6.71	1.51	6.02	1.03	3.92	0.99	0.03	0.296
VA-0126	**604516**	**6933882**	719	7.39	1.22	7.98	1.18	3.27	1.07	0.07	0.451
VA-0127	**604569**	**6933886**	717	7.03	1.78	6.8	0.8	4.35	1.06	0.02	0.321
VA-0128	**604612**	**6933880**	696	7.04	2.12	6.64	0.84	4.96	1.19	0.01	0.305
VA-0129	**604611**	**6933822**	686	6.56	1.81	7.17	0.78	3.1	1.52	0.02	0.399
VA-0130	**604763**	**6934023**	708	7.35	1.78	7.29	0.78	5.25	1.38	0.01	0.288
VA-0131	**604714**	**6934024**	684	6.32	1.4	4.72	1.57	1.86	1.25	0.03	0.298
VA-0132	**604668**	**6934012**	701	6.24	1.46	5.21	1.18	2.64	1.26	0.02	0.302
VA-0133	**604614**	**6934024**	734	6.64	1.58	5.9	1.2	3.82	1.26	0.01	0.305
VA-0134	**604561**	**6934017**	751	5.08	1.32	5.16	1.2	2.19	1.11	0.03	0.298
VA-0135	**604527**	**6934035**	752	5.96	1.84	4.59	1.04	2.59	1.14	0.05	0.309
VA-0136	**604469**	**6934027**	747	4.44	1.52	2.27	1.31	1.14	1.2	0.06	0.276
VA-0137	**604358**	**6934024**	751	7	1.4	6	0.95	3.58	1.11	0.04	0.295
VA-0138	**604307**	**6934018**	744	6.04	1.8	4.39	1.1	2.42	1.26	0.02	0.352
VA-0139	**604262**	**6934026**	731	4.61	0.92	1.55	1.83	0.81	1.15	0.01	0.309
VA-0140	**604359**	**6934079**	768	6.76	1.98	5.74	1.04	4.23	1.15	0.01	0.311

Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%
VA-0144	**604209**	**6934035**	**719**	5.53	1.38	2.12	1.61	1.75	1.24	0.01	0.363
VA-0145	**604153**	**6934022**	**713**	5.88	1.44	2.56	1.77	1.84	1.18	0.01	0.376
VA-0146	**604096**	**6934015**	**704**	6.85	1.41	4.93	1.82	3.3	1.14	0.01	0.315
VA-0147	**604084**	**6934071**	**697**	5.21	1.48	2.15	1.42	1.76	1.26	0.01	0.374
VA-0148	**604150**	**6934069**	**708**	3.76	0.33	0.67	1.7	0.26	1	0.01	0.296
VA-0149	**604201**	**6934073**	**713**	6.27	1.58	4.57	1.31	3.04	1.02	0.02	0.321
VA-0150	**604258**	**6934076**	**723**	5.48	1.28	2.87	1.6	1.9	1.1	0.02	0.321
VA-0151	**604309**	**6934080**	**734**	5.56	1.6	2.81	1.42	2.17	1.34	0.01	0.323
VA-0152	**604413**	**6934079**	**762**	5.66	1.76	4.04	1.04	3.23	1.18	0.02	0.287
VA-0153	**604506**	**6934092**	**763**	5.3	2.42	15.85	0.15	4.92	0.23	1.31	0.15
VA-0154	**604583**	**6934082**	**758**	6.74	1.91	5.29	1.3	2.68	1.18	0.05	0.328
VA-0155	**604632**	**6934079**	**741**	6.14	1.96	5.88	0.96	2.97	1.28	0.02	0.295
VA-0156	**604683**	**6934079**	**718**	6.64	1.64	6.18	0.94	3.83	1.28	0.01	0.272
VA-0157	**604730**	**6934080**	**696**	5.84	2.03	5.53	0.8	3.11	1.38	0.02	0.304
VA-0158	**604780**	**6934084**	**682**	6.71	2.1	6.74	0.5	4.89	1.56	0.01	0.248
VA-0159	**604782**	**6934133**	**683**	6.12	1.88	5.43	0.91	3.53	1.4	0.01	0.29
VA-0160	**604734**	**6934144**	**694**	6.1	1.52	4.43	1.32	1.54	1.08	0.04	0.251
VA-0164	**604679**	**6934136**	**717**	6.35	1.58	5.88	1.16	2.83	1.44	0.02	0.291
VA-0165	**604626**	**6934134**	**735**	6	1.96	5.6	0.7	3.46	1.16	0.02	0.277
VA-0166	**604582**	**6934125**	**754**	6.65	2.15	5.71	0.87	4.39	1.19	0.03	0.252
VA-0167	**604529**	**6934131**	**757**	6.35	1.62	6.3	0.93	2.77	1.11	0.03	0.353
VA-0168	**604489**	**6934141**	**762**	7.15	2.02	6.83	0.82	3.74	0.98	0.05	0.281
VA-0169	**604430**	**6934136**	**759**	6.13	1.98	5.37	1.02	3.68	1.17	0.02	0.304
VA-0170	**604387**	**6934129**	**763**	6.28	1.35	5.78	1.2	2.23	1.04	0.03	0.288
VA-0171	**604337**	**6934133**	**766**	6.15	1.09	4.86	1.28	1.61	1	0.04	0.3
VA-0172	**604292**	**6934131**	**757**	6.23	1.41	5.3	1.14	2.48	0.94	0.03	0.273
VA-0173	**604248**	**6934130**	**747**	6.89	1.46	6.52	0.95	3.29	0.94	0.03	0.297
VA-0174	**604194**	**6934134**	**750**	5.22	1.98	1.51	1	0.9	1.21	0.01	0.336
VA-0175	**604090**	**6934130**	**723**	6.16	1.69	6.64	0.87	2.54	0.97	0.04	0.32
VA-0176	**604140**	**6934132**	**733**	5.71	1.52	3.97	1.08	2.79	1.12	0.02	0.332
VA-0177	**604489**	**6934236**	**754**	6.67	1.83	4.88	1.4	2.78	1.12	0.03	0.304
VA-0178	**604544**	**6934234**	**754**	5.77	1.56	5.75	1.16	1.78	1.28	0.03	0.346
VA-0179	**604645**	**6934229**	**732**	7.02	1.73	6.4	0.84	4.5	1.33	0.01	0.297
VA-0180	**604691**	**6934231**	**717**	6.2	1.36	4.32	1.66	2.04	1.35	0.02	0.313
VA-0184	**604740**	**6934230**	**701**	6.06	1.78	4.75	1.16	2.65	1.49	0.02	0.298
VA-0185	**604796**	**6934236**	**687**	6.24	1.58	4.9	1.37	2.5	1.42	0.02	0.304
VA-0186	**604791**	**6934278**	**687**	6.77	1.68	4.82	1.66	2.75	1.42	0.01	0.326
VA-0187	**604744**	**6934281**	**699**	6.49	1.96	5.53	1.05	3.55	1.49	0.01	0.309
VA-0188	**604697**	**6934275**	**714**	7.26	1.87	6.32	1.22	4.07	1.28	0.02	0.356
VA-0189	**604649**	**6934285**		6.83	1.72	4.87	1.42	3.02	1.46	0.02	0.33
VA-0190	**604597**	**6934275**	**734**	5.95	1.57	3.19	1.94	1.31	1.44	0.01	0.382
VA-0191	**604543**	**6934277**	**735**	5.89	1.19	6.28	1.26	1.4	1.2	0.03	0.389
VA-0192	**604498**	**6934274**	**737**	6.6	1.56	4.98	1.58	1.84	1.3	0.02	0.372
VA-0193	**604478**	**6934332**	**735**	4.06	0.5	1.08	1.76	0.3	1.04	0.01	0.354
VA-0194	**604531**	**6934334**	**725**	6.94	1.88	5.73	0.94	2.67	1.18	0.04	0.313
VA-0195	**604580**	**6934333**	**718**	6.18	2.23	5.24	0.86	3.21	1.44	0.02	0.294
VA-0196	**604628**	**6934335**	**724**	6	1.21	3.84	1.58	1.6	1.3	0.02	0.332
VA-0197	**604682**	**6934334**	**715**	5.21	1.14	1.22	1.44	0.75	1.79	0.01	0.346
VA-0198	**604729**	**6934334**	**706**	5.3	1.25	1.26	1.44	0.71	1.92	0.01	0.422
VA-0199	**604775**	**6934334**	**686**	6.83	2.14	5.73	1.18	3.63	1.55	0.02	0.311
VA-0200	**604829**	**6934328**	**671**	6.81	1.24	4.56	1.86	2.26	1.34	0.01	0.341
VA-0204	**602986**	**6934125**	**724**	7.5	1.54	6.47	1.24	2.51	1.5	0.03	0.417
VA-0205	**603031**	**6934122**	**724**	6.74	1.31	4.76	1.56	1.56	1.34	0.02	0.369
VA-0206	**603080**	**6934136**	**734**	7.12	1.18	3.69	2.1	1.95	1.32	0.01	0.387
VA-0207	**603132**	**6934134**	**736**	7.99	1.22	5.65	1.47	2.3	1.3	0.03	0.388
VA-0208	**603182**	**6934137**	**738**	6.82	1.29	5.14	1.44	1.79	1.32	0.03	0.389
VA-0209	**603239**	**6934133**	**739**	7.25	1.1	4.53	2.3	2.22	1.26	0.01	0.359
VA-0210	**603285**	**6934137**	**732**	6.88	1.18	4.59	1.72	1.51	1.3	0.03	0.401
VA-0211	**603290**	**6934190**	**731**	6.54	1.64	6.71	1.28	1.66	1.33	0.03	0.496
VA-0212	**603238**	**6934186**	**739**	6.65	1.15	3.56	2.08	1.66	1.31	0.01	0.38

Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%
VA-0177	**604489**	**6934236**	754	6.67	1.83	4.88	1.4	2.78	1.12	0.03	0.304
VA-0178	**604544**	**6934234**	754	5.77	1.56	5.75	1.16	1.78	1.28	0.03	0.346
VA-0179	**604645**	**6934229**	732	7.02	1.73	6.4	0.84	4.5	1.33	0.01	0.297
VA-0180	**604691**	**6934231**	717	6.2	1.36	4.32	1.66	2.04	1.35	0.02	0.313
VA-0184	**604740**	**6934230**	701	6.06	1.78	4.75	1.16	2.65	1.49	0.02	0.298
VA-0185	**604796**	**6934236**	687	6.24	1.58	4.9	1.37	2.5	1.42	0.02	0.304
VA-0186	**604791**	**6934278**	687	6.77	1.68	4.82	1.66	2.75	1.42	0.01	0.326
VA-0187	**604744**	**6934281**	699	6.49	1.96	5.53	1.05	3.55	1.49	0.01	0.309
VA-0188	**604697**	**6934275**	714	7.26	1.87	6.32	1.22	4.07	1.28	0.02	0.356
VA-0189	**604649**	**6934285**	6934285	6.83	1.72	4.87	1.42	3.02	1.46	0.02	0.33
VA-0190	**604597**	**6934275**	734	5.95	1.57	3.19	1.94	1.31	1.44	0.01	0.382
VA-0191	**604543**	**6934277**	735	5.89	1.19	6.28	1.26	1.4	1.2	0.03	0.389
VA-0192	**604498**	**6934274**	737	6.6	1.56	4.98	1.58	1.84	1.3	0.02	0.372
VA-0193	**604478**	**6934332**	735	4.06	0.5	1.08	1.76	0.3	1.04	0.01	0.354
VA-0194	**604531**	**6934334**	725	6.94	1.88	5.73	0.94	2.67	1.18	0.04	0.313
VA-0195	**604580**	**6934333**	718	6.18	2.23	5.24	0.86	3.21	1.44	0.02	0.294
VA-0196	**604628**	**6934335**	724	6	1.21	3.84	1.58	1.6	1.3	0.02	0.332
VA-0197	**604682**	**6934334**	715	5.21	1.14	1.22	1.44	0.75	1.79	0.01	0.346
VA-0198	**604729**	**6934334**	706	5.3	1.25	1.26	1.44	0.71	1.92	0.01	0.422
VA-0199	**604775**	**6934334**	686	6.83	2.14	5.73	1.18	3.63	1.55	0.02	0.311
VA-0200	**604829**	**6934328**	671	6.81	1.24	4.56	1.86	2.26	1.34	0.01	0.341
VA-0204	**602986**	**6934125**	724	7.5	1.54	6.47	1.24	2.51	1.5	0.03	0.417
VA-0205	**603031**	**6934122**	724	6.74	1.31	4.76	1.56	1.56	1.34	0.02	0.369
VA-0206	**603080**	**6934136**	734	7.12	1.18	3.69	2.1	1.95	1.32	0.01	0.387
VA-0207	**603132**	**6934134**	736	7.99	1.22	5.65	1.47	2.3	1.3	0.03	0.388
VA-0208	**603182**	**6934137**	738	6.82	1.29	5.14	1.44	1.79	1.32	0.03	0.389
VA-0209	**603239**	**6934133**	739	7.25	1.1	4.53	2.3	2.22	1.26	0.01	0.359
VA-0210	**603285**	**6934137**	732	6.88	1.18	4.59	1.72	1.51	1.3	0.03	0.401
VA-0211	**603290**	**6934190**	731	6.54	1.64	6.71	1.28	1.66	1.33	0.03	0.496
VA-0212	**603238**	**6934186**	739	6.65	1.15	3.56	2.08	1.66	1.31	0.01	0.38
VA-0213	**603186**	**6934187**	741	5.71	1.04	2.17	2	1.14	1.31	0.01	0.409
VA-0214	**603128**	**6934183**	737	11.1	2.02	7.82	3.39	4.5	2.18	0.01	0.576
VA-0215	**603080**	**6934175**	735	6.9	1.65	4.91	1.51	3.19	1.44	0.01	0.417
VA-0216	**603027**	**6934183**	727	6.45	1.14	6.07	1.32	1.46	1.19	0.04	0.401
VA-0217	**602970**	**6934177**	723	7.63	1.5	5.55	1.18	2	1.3	0.05	0.322
VA-0218	**602971**	**6934234**	717	5.33	0.97	3.4	2.12	0.83	1.11	0.02	0.318
VA-0219	**603022**	**6934246**	724	6.82	1.76	6.38	0.54	2.25	2.05	0.03	0.263
VA-0220	**603067**	**6934248**	729	6.54	1.26	5.17	1.4	1.71	1.18	0.03	0.364
VA-0224	**603114**	**6934268**	735	5.99	1.39	3.57	1.74	1.63	1.37	0.01	0.385
VA-0225	**603173**	**6934253**	796	6.41	1.3	5.66	1.4	1.97	1.52	0.02	0.493
VA-0226	**603237**	**6934263**	795	7.69	1.19	4.67	2.21	2.79	1.3	0.02	0.339
VA-0227	**603279**	**6934267**	742	7.18	1.58	4.83	1.89	2.23	1.26	0.01	0.37
VA-0228	**601877**	**6933732**	799	7.63	1.34	5.67	1.42	3.06	1.41	0.02	0.38
VA-0229	**601987**	**6933733**	796	7.74	1.38	6.39	1.28	2.92	1.52	0.02	0.345
VA-0230	**602030**	**6933733**	798	7.28	1.14	4.49	1.1	2.47	1.5	0.04	0.31
VA-0231	**602080**	**6933734**	799	7.04	1.55	5.31	1.26	2.19	1.5	0.02	0.371
VA-0232	**602132**	**6933731**	791	6.71	1.42	7.66	0.89	6.53	1.4	0.02	0.38
VA-0233	**602187**	**6933734**	780	6.65	1.24	6.62	0.93	4.55	1.71	0.02	0.396
VA-0234	**602238**	**6933734**	771	7.09	1.84	5.83	1.12	3.17	1.66	0.02	0.363
VA-0235	**602290**	**6933734**		7.28	1.62	5.37	1.4	2.85	1.65	0.03	0.372
VA-0236	**602340**	**6933733**	752	7.18	1.21	4.25	1.84	1.97	1.33	0.02	0.384
VA-0237	**602386**	**6933732**	747	6.74	1.16	4.9	1.54	1.9	1.66	0.02	0.45
VA-0238	**602436**	**6933734**	736	6.89	1.3	4.02	1.96	1.92	1.32	0.01	0.365
VA-0239	**602491**	**6933731**	733	7.05	1.38	4.36	2.14	2.16	1.35	0.01	0.408
VA-0240	**602482**	**6933936**	736	6.93	0.64	7.2	0.8	2.16	2.08	0.05	0.314
VA-0244	**602382**	**6933930**	748	6.21	1.12	3.94	1.8	1.5	1.71	0.02	0.388
VA-0245	**602276**	**6933960**	811	6.38	1.42	5.78	0.57	3.06	2.37	0.02	0.522

Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%
VA-0249	**601926**	**6933932**	811	7.37	1.27	6.03	1.24	2.73	1.65	0.03	0.412
VA-0250	**601880**	**6934029**	823	6.76	1.4	5.66	1.28	2	1.7	0.02	0.383
VA-0251	**601982**	**6934034**	810	6.84	1.06	6.31	1.28	1.64	2.01	0.02	0.44
VA-0252	**602077**	**6934032**	868	7.3	0.83	6.56	1.26	3.23	1.53	0.02	0.389
VA-0253	**602132**	**6934030**	837	6.99	0.78	6.23	1.44	1.64	1.5	0.03	0.387
VA-0254	**602235**	**6934031**	822	7.1	1.15	4.71	1.94	2.45	1.49	0.01	0.419
VA-0255	**602337**	**6934028**	800	6.31	1.06	5.98	1.12	1.4	2.13	0.03	0.504
VA-0256	**602436**	**6934029**	798	6.48	1.08	6.24	1.04	1.71	1.54	0.06	0.363
VA-0256	**602846**	**6935422**	794								
VA-0257	**602485**	**6934133**	794	6.45	2.16	5.49	1.1	2.71	1.72	0.02	0.478
VA-0258	**602384**	**6934131**	803	7.37	1.28	6.72	0.73	3.12	1.64	0.03	0.392
VA-0259	**602281**	**6934133**	816	6.42	0.9	6.92	0.61	1.71	2.05	0.04	0.48
VA-0260	**602169**	**6934130**	832	7.12	0.57	10.1	0.69	2.81	1.76	0.05	0.494
VA-0264	**602071**	**6934132**	846	6.6	1.18	4.44	1.6	1.75	1.54	0.02	0.351
VA-0265	**601982**	**6934128**	862	6.74	1.18	5.35	0.94	2.23	2.14	0.03	0.465
VA-0266	**601882**	**6934133**	873	6.5	1.36	4.07	1.4	1.71	1.54	0.03	0.362
VA-0267	**601879**	**6934235**	891	5.38	0.48	1.42	1.24	0.59	2.55	0.01	0.325
VA-0268	**601931**	**6934236**	877	6.47	1.6	5.21	1.12	1.84	1.8	0.03	0.449
VA-0269	**601979**	**6934235**	872	7.92	2.95	4.58	1.17	1.2	1.68	0.01	0.458
VA-0270	**602031**	**6934233**	866	6.25	1.17	4.51	1.14	1.98	1.97	0.02	0.506
VA-0271	**602079**	**6934239**	857	6.55	0.55	3.42	1.17	1.14	2.68	0.01	0.257
VA-0272	**602131**	**6934241**	848	6.81	0.87	4.42	1.18	1.82	2.16	0.06	0.34
VA-0273	**602189**	**6934232**	837	6.98	1.17	6.46	1.12	2.79	1.76	0.02	0.434
VA-0274	**602230**	**6934236**	834	6.42	0.96	6.66	1.26	1.62	1.52	0.03	0.458
VA-0275	**602280**	**6934236**	829	7.04	0.93	8.8	0.47	2.86	2.15	0.04	0.671
VA-0276	**602333**	**6934238**	818	6.87	1.2	4.23	1.97	1.86	1.51	0.01	0.407
VA-0277	**602380**	**6934235**	816	7.82	1.38	7.85	0.51	4.19	2.07	0.02	0.483
VA-0278	**602426**	**6934236**	803	6.86	1.23	3.86	2.15	1.81	1.42	0.02	0.379
VA-0279	**602473**	**6934237**	803	7.36	1.21	4.66	2.15	2.42	1.52	0.01	0.403
VA-0280	**602427**	**6934416**	807	6.85	1.08	11.6	0.32	2.96	2	0.05	0.644
VA-0284	**602329**	**6934416**	809	6.83	0.81	6.31	1.1	1.89	1.94	0.03	0.429
VA-0285	**602232**	**6934410**	827	7.05	1.02	5.62	1.3	2.46	1.7	0.01	0.458
VA-0286	**602136**	**6934420**	846	5.86	1.04	2.89	0.83	1.42	2.33	0.02	0.379
VA-0287	**602031**	**6934420**	858	8.73	1	6	1.32	4.25	2.22	0.02	0.48
VA-0288	**601947**	**6934418**	875	6.81	1.68	4.24	1.22	2.09	1.8	0.02	0.398
VA-0289	**601886**	**6934528**	893	7.08	1.57	6.16	1.14	2.9	1.58	0.04	0.375
VA-0290	**601985**	**6934538**	868	6.15	1.48	6.46	1.08	1.95	1.46	0.05	0.361
VA-0291	**602071**	**6934527**	860	7.09	0.64	5.67	1.16	1.73	2.04	0.02	0.328
VA-0292	**602486**	**6934930**	849	7.34	1.06	5.36	1.42	2.35	1.54	0.02	0.39
VA-0293	**602532**	**6934931**	851	7.25	0.95	5.35	1.38	2.18	1.64	0.02	0.366
VA-0294	**602582**	**6934930**	850	6.96	0.89	5.63	1.14	2.26	1.64	0.03	0.352
VA-0295	**602635**	**6934928**	845	7.19	0.87	6.72	0.97	2.3	2.07	0.03	0.369
VA-0296	**602679**	**6934942**	834	7.1	1.14	5.26	1.33	2.36	1.58	0.03	0.37
VA-0297	**602749**	**6934931**	839	7.52	1.08	5.63	1.48	2.54	1.7	0.02	0.363
VA-0298	**602786**	**6934934**	831	7.66	1.01	5.58	1.54	2.3	1.66	0.02	0.373
VA-0299	**602835**	**6934938**	826	6.62	0.67	6.24	1.16	1.42	1.8	0.03	0.365
VA-0350	**602776**	**6935122**	884	6.38	1.02	6.13	1.39	1.62	1.37	0.03	0.412
VA-0351	**602688**	**6935151**	881	7.52	1.04	5	1.51	1.9	1.98	0.02	0.39
VA-0352	**602583**	**6935129**	887	7.94	1.1	5.91	1.48	2.66	1.66	0.03	0.449
VA-0353	**602524**	**6935227**	886	7.1	0.93	4.25	1.78	1.41	1.57	0.03	0.417
VA-0358	**603032**	**6935225**	846	7.68	1.4	6.26	1.45	3.47	1.76	0.01	0.46
VA-0359	**602685**	**6935333**	872	6.78	0.48	3.11	0.18	0.24	3.84	0.03	0.198
VA-0360	**602737**	**6935334**	867	7.28	1.14	5.95	1.78	2.44	1.62	0.02	0.322
VA-0364	**602780**	**6935328**	867	7.31	0.99	5.46	1.59	1.81	1.36	0.03	0.365
VA-0365	**602834**	**6935329**	864	6.92	0.81	4.97	1.54	1.07	1.9	0.03	0.387
VA-0366	**602877**	**6935334**	802	5.77	0.68	6.78	1.38	0.95	1.62	0.03	0.348
VA-0367	**602933**	**6935332**	838	6.75	0.97	4.12	2.04	1.48	1.5	0.03	0.336

Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%
VA-0371	**603130**	**6935336**	**845**	7.48	0.57	7.5	1.15	2.67	1.19	0.03	0.251
VA-0372	**603178**	**6935342**	**837**	7.32	0.09	10.95	0.28	4.57	1.94	0.02	0.767
VA-0373	**603229**	**6935342**	**832**	6.89	1.18	5.25	1.39	1.75	1.5	0.04	0.332
VA-0374	**603261**	**6935338**	**832**	6.02	1.12	2.87	2	1.28	1.32	0.03	0.373
VA-0375	**603276**	**6935535**	**834**	7.04	0.88	8.47	0.62	2.43	1.73	0.05	0.31
VA-0376	**603224**	**6935555**	**834**	6.54	0.74	5.13	1.26	2.03	1.77	0.01	0.313
VA-0377	**603173**	**6935539**	**835**	7	1.02	4.35	2.4	1.84	1.16	0.02	0.335
VA-0378	**603142**	**6935546**	**838**	5.51	1.03	5.81	0.68	1.81	1.22	0.03	0.251
VA-0379	**602936**	**6935641**	**785**	7.58	1.07	8.43	0.49	3.04	1.7	0.03	0.254
VA-0380	**602878**	**6935628**	**791**	7.05	0.87	4.52	1.89	1.86	1.48	0.02	0.365
VA-0384	**602833**	**6935606**	**800**	5.41	2.47	3.22	0.47	2.29	2.31	0.02	0.168
VA-0385	**602778**	**6935640**	**809**	6.51	0.91	7.68	1.32	1.39	1.2	0.04	0.49
VA-0386	**602734**	**6935629**	**815**	8.15	0.12	7.24	0.11	3.8	3.59	0.03	0.146
VA-0387	**602668**	**6935639**	**828**	5.34	0.99	2.22	1.3	0.95	1.84	0.02	0.368
VA-0388	**602644**	**6935636**	**829**	7.8	0.42	6.56	0.62	1.62	3.76	0.02	0.41
VA-0389	**603082**	**6935535**	**843**	6.45	0.82	3.83	2.14	1.48	1.24	0.01	0.354
VA-0390	**603105**	**6935539**	**789**	6.16	1.53	4.58	1.5	2.18	1.36	0.02	0.345
VA-0391	**602931**	**6935539**	**855**	6.66	0.76	5.44	1.38	1.26	1.46	0.04	0.408
VA-0392	**602882**	**6935533**	**866**	7.21	1.26	6.81	0.98	2.71	1.86	0.03	0.287
VA-0393	**602823**	**6935539**	**863**	5.8	1.72	5.98	0.76	5.87	1.05	0.03	0.194
VA-0394	**602790**	**6935530**	**859**	6.46	1.46	4.69	0.72	2.83	2.07	0.02	0.392
VA-0395	**602740**	**6935535**	**868**	6.91	0.97	5.13	0.55	2.8	2.61	0.02	0.275
VA-0396	**602686**	**6935533**	**879**	6.78	1.2	5.68	1.06	2.22	1.88	0.03	0.332
VA-0400	**602983**	**6934084**	**795**	7.03	1.26	3.92	2.08	1.96	1.22	0.02	0.355
VA-0404	**603037**	**6934085**	**802**	6.71	1.61	4.66	1.46	2.94	1.38	0.02	0.383
VA-0405	**603093**	**6934090**	**806**	5.2	1.3	2.1	0.86	1.04	1.59	0.03	0.413
VA-0406	**603142**	**6934078**	**808**	6.43	1.06	6.52	0.98	1.41	1.22	0.05	0.414
VA-0407	**603193**	**6934085**	**812**	7.6	1.07	4.58	2.47	2.25	1.26	0.01	0.367
VA-0408	**603235**	**6934086**	**810**	7.44	2.13	4.83	1.24	2.19	1.94	0.01	0.36
VA-0409	**603285**	**6934076**	**804**	6.45	1.24	4.16	1.83	1.66	1.22	0.02	0.392
VA-0410	**603290**	**6934035**	**802**	6.94	1.48	4.48	1.9	2.01	1.26	0.01	0.369
VA-0411	**603238**	**6934026**	**805**	6.99	1.32	4.3	1.87	2.12	1.3	0.03	0.373
VA-0412	**603196**	**6934030**	**809**	7.2	1.23	5.32	1.48	1.9	1.32	0.02	0.346
VA-0413	**603142**	**6934031**	**808**	5.28	0.83	1.02	1.38	0.44	2.1	0.01	0.54
VA-0414	**603094**	**6934027**	**805**	7.54	1.65	5.86	1.18	3.3	1.42	0.02	0.341
VA-0415	**603041**	**6934031**	**803**	6.51	1.58	3.7	1.42	2.51	1.66	0.01	0.447
VA-0416	**602990**	**6934029**	**797**	6.89	1.32	4.83	1.76	1.69	1.21	0.02	0.379
VA-0417	**602984**	**6933977**	**804**	7.61	1.54	5.66	1.38	2.59	1.53	0.02	0.392
VA-0418	**603038**	**6933977**	**803**	6.62	2	5.64	0.8	3.06	2.09	0.02	0.394
VA-0419	**603091**	**6933985**	**806**	6.69	1.5	4.41	1.67	2.18	1.4	0.01	0.374
VA-0420	**603146**	**6933983**	**809**	7.99	1.02	5.59	1.9	2.23	1.16	0.03	0.354
VA-0424	**603196**	**6933984**	**810**	7.5	1.06	3.85	2.28	1.94	1.27	0.03	0.375
VA-0425	**603236**	**6933983**	**810**	6.74	1.44	5.15	1.28	1.94	1.38	0.02	0.355
VA-0426	**603292**	**6933977**	**807**	7.98	1.06	5.11	1.83	2.3	1.12	0.03	0.339
VA-0427	**601901**	**6933834**	**869**	7.25	1.38	5.23	1.78	2.16	1.39	0.03	0.39
VA-0428	**602015**	**6933830**	**869**	6.49	1.18	3.48	2.03	1.53	1.37	0.02	0.36
VA-0429	**602041**	**6933830**	**869**	7.94	1.38	6.09	0.83	2.78	1.3	0.04	0.318
VA-0430	**602081**	**6933835**	**869**	7.62	1.56	6	1.36	3.45	1.58	0.01	0.426
VA-0431	**602128**	**6933837**	**864**	7.62	1.66	5.8	1.42	3.52	1.62	0.01	0.45
VA-0432	**602171**	**6933838**	**856**	6.94	1.38	5.38	1.18	2.38	1.72	0.02	0.4
VA-0433	**602218**	**6933839**	**843**	6.99	1.12	5.01	1.44	1.94	1.76	0.03	0.358
VA-0434	**602268**	**6933841**	**836**	7.2	0.81	6.42	0.58	2.55	2.39	0.03	0.494
VA-0435	**602212**	**6933844**	**825**	7.31	0.94	5.3	1.7	1.74	1.34	0.03	0.346
VA-0436	**602363**	**6933855**	**817**	7.06	0.76	5.16	1.42	2.06	1.76	0.02	0.305
VA-0437	**602411**	**6933853**	**809**	7.03	0.5	6.18	0.91	2.69	1.82	0.02	0.295
VA-0438	**602475**	**6933851**	**805**	7.87	1.15	5.79	1.08	1.98	1.21	0.05	0.286
VA-0439	**602430**	**6933941**	**814**	6.99	0.83	5.83	0.38	2.53	2.25	0.03	0.297

VA-0246	**602237**	**6933930**	781	6.45	1.16	6	0.66	2.83	2.17	0.02	0.48	**VA-0368**	**602990**	**6935335**	839	6.51	1.22	3.88	1.94	1.54	1.4	0.03	0.344	**VA-0440**	**602331**	**6933941**	**829**	7.17	1.25	5.71	1.16	2.92	1.78	0.02	0.491
VA-0247	**602129**	**6933917**	798	6.7	1.64	5.58	0.91	2.62	1.96	0.02	0.479	**VA-0369**	**603039**	**6935337**	843	7.49	0.96	5.68	1.48	2.08	1.48	0.02	0.377	**VA-0444**	**602185**	**6933929**	**859**	6.61	1.4	5.15	0.75	2.02	2.33	0.03	0.439
VA-0248	**602019**	**6933936**	805	7.11	1.34	4.3	1.59	2.19	1.3	0.04	0.367	**VA-0370**	**603087**	**6935334**	844	6.16	0.76	4.4	1.85	1.1	1.36	0.02	0.374	**VA-0445**	**602083**	**6933928**	**876**	6.76	1.16	5.81	1.18	1.46	1.4	0.05	0.402

Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%	Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%	Sample ID	Easting	Northing	Elevation	Al%	Ca%	Fe%	K%	Mg%	Na%	S%	Ti%
VA-0446	**601978**	**6933932**	879	7.28	1.38	5.27	1.37	2.46	1.42	0.02	0.358	**VA-0479**	**602087**	**6934423**	910	6.76	0.96	4.92	1.04	1.52	2.36	0.02	0.436	**VA-0515**	**602675**	**6935233**	**806**	7.49	1	4.72	1.38	1.64	2.53	0.02	0.427
VA-0447	**601882**	**6933926**	891	6.79	1.86	5.73	1	2.43	1.68	0.02	0.386	**VA-0480**	**601990**	**6934421**	924	6.34	1.76	4.61	0.98	1.88	1.82	0.02	0.425	**VA-0516**	**602777**	**6935236**	**806**	6.04	0.92	4.79	1.59	1.42	1.16	0.02	0.352
VA-0448	**601927**	**6934029**	888	7.22	1.44	5.3	1.38	2.33	1.65	0.02	0.382	**VA-0484**	**601901**	**6934415**	942	6.04	1.59	3.75	1.28	1.36	1.7	0.04	0.436	**VA-0517**	**602875**	**6935239**	**798**	6.98	0.94	5.66	1.36	1.64	1.62	0.03	0.38
VA-0449	**602027**	**6934032**	874	6.56	1.13	4.26	1.84	1.82	1.35	0.01	0.376	**VA-0485**	**601936**	**6934531**	937	6.98	1.32	6.09	1.34	2.52	1.6	0.03	0.416	**VA-0518**	**602977**	**6935236**	**780**	7.4	0.9	5.79	1.66	2.38	1.45	0.02	0.381
VA-0450	**602192**	**6934023**	900	6.69	1.08	4.46	1.57	1.88	1.55	0.03	0.415	**VA-0486**	**602036**	**6934538**	919	6.31	1.35	4.11	1.15	2	1.9	0.04	0.451	**VA-0519**	**603079**	**6935238**	**777**	6.9	0.93	6.01	1.33	2.1	1.63	0.02	0.375
VA-0451	**602289**	**6934030**	887	7.15	1.42	4.96	2.02	2.2	1.46	0.02	0.395	**VA-0487**	**602522**	**6935032**	913	7.18	1.18	4.77	1.3	1.86	1.68	0.03	0.413	**VA-0520**	**602664**	**6935399**	**800**	6.31	1.21	5.53	0.75	1.8	2.28	0.05	0.32
VA-0452	**602386**	**6934036**	870	6.9	1.69	6.34	0.92	2.57	1.78	0.03	0.458	**VA-0488**	**602578**	**6935032**	911	8.59	0.95	6.31	1.72	2.74	1.7	0.02	0.41	**VA-0524**	**602734**	**6935387**	**801**	7.87	3.36	6.79	0.62	3.87	1.51	0.01	0.238
VA-0453	**602507**	**6934035**	858	6.95	0.67	5.29	1.18	1.9	2.08	0.02	0.428	**VA-0489**	**602630**	**6935034**	905	8.08	1.06	6.26	1.64	2.54	1.4	0.03	0.396	**VA-0525**	**602795**	**6935422**	**795**	5.62	0.68	3.4	1.69	0.85	1.4	0.02	0.364
VA-0454	**602436**	**6934131**	868	6.68	1.87	4.91	1.17	2.61	1.68	0.02	0.41	**VA-0490**	**602679**	**6935033**	898	7.27	1.7	6.54	1.04	3.81	1.68	0.02	0.38	**VA-0527**	**602894**	**6935421**	**789**	6.88	0.82	5.64	1.29	1.8	1.64	0.02	0.44
VA-0455	**602335**	**6934125**	872	6.8	0.97	7.19	1.17	1.96	1.6	0.03	0.473	**VA-0491**	**602737**	**6935024**	901	6.24	1.22	5	0.77	2.38	1.51	0.02	0.378	**VA-0528**	**602939**	**6935422**	**778**	7.27	0.96	6.48	1.29	2	1.94	0.03	0.364
VA-0456	**602242**	**6934131**	893	6.64	0.95	6.41	1.34	1.8	1.6	0.02	0.581	**VA-0492**	**602788**	**6935034**	898	7.45	1.48	5.18	1.51	3.06	1.61	0.02	0.374	**VA-0529**	**603035**	**6935419**	**768**	5.89	0.69	5.03	1.16	1.5	0.94	0.03	0.333
VA-0457	**602144**	**6934132**	904	6.23	0.7	5.86	0.78	1.57	2.15	0.04	0.456	**VA-0493**	**602832**	**6935034**	890	7.22	1.02	7.65	0.95	2.63	1.8	0.03	0.391	**VA-0530**	**603086**	**6935424**	**768**	6.44	1.12	7.32	0.4	3.85	1.1	0.03	0.164
VA-0458	**602026**	**6934137**	921	6.25	0.95	6.46	1.34	1.56	1.5	0.04	0.431	**VA-0494**	**602879**	**6935034**	884	5.84	0.4	6.02	1.04	1.46	1.12	0.02	0.24	**VA-0531**	**603137**	**6935416**	**767**	5.66	0.76	3.6	1.79	0.89	1.14	0.02	0.319
VA-0459	**601937**	**6934131**	932	6.11	1.36	5.25	0.91	1.52	2.02	0.04	0.429	**VA-0495**	**602930**	**6935027**	873	6.61	0.45	7.49	1.61	1.8	1.24	0.03	0.224	**Va-0532**	**603187**	**6935427**	**767**	7.16	1.27	6.37	0.99	2.67	1.22	0.03	0.377
VA-0460	**601864**	**6934322**	956	6.03	1.13	3.45	1.54	1.3	1.6	0.02	0.418	**VA-0496**	**602981**	**6935034**	860	6.41	1.01	7.02	1.42	1.8	1.33	0.05	0.28	**VA-0533**	**603275**	**6935435**	**780**	8.49	0.46	7.87	1.49	2.18	1.84	0.02	0.309
VA-0464	**601939**	**6934299**	942	6.6	1.14	4.08	2.02	1.61	1.49	0.01	0.405	**VA-0497**	**603031**	**6935033**	851	7.54	0.91	5.52	1.76	2.21	1.69	0.03	0.432	**VA-0534**	**602604**	**6935224**	**876**	7.32	0.5	5.78	1.9	1.54	1.36	0.02	0.317
VA-0465	**601984**	**6934334**	939	6.1	0.94	3.66	1.41	0.96	1.42	0.03	0.354	**VA-0498**	**603071**	**6935039**	850	7.05	0.98	6.36	0.81	2.89	2.3	0.06	0.356	**VA-0534**	**603292**	**6935636**	**764**								
VA-0466	**602027**	**6934332**	932	6.5	1.82	5.04	1.1	2.05	1.44	0.03	0.487	**VA-0499**	**602876**	**6935126**	871	6.78	1.09	5.06	1.54	1.91	1.76	0.02	0.395	**VA-0535**	**602722**	**6935237**	**869**	7.18	0.78	6.28	1.22	2.36	1.34	0.02	0.286
VA-0467	**602080**	**6934326**	924	7.55	1.03	6.77	1.37	2.51	1.84	0.03	0.498	**VA-0500**	**602875**	**6934936**	817	7.71	0.98	7.23	1.06	2.64	1.9	0.05	0.484	**VA-0535**	**603215**	**6935632**	**766**								
VA-0468	**602178**	**6934333**	907	7.72	0.92	7.31	0.83	3.15	2.28	0.02	0.415	**VA-0504**	**602925**	**6934927**	817	7.37	0.97	5.84	0.97	2.76	2.21	0.02	0.551	**VA-0536**	**602827**	**6935244**	**870**	7.05	0.99	6.91	1.1	2.11	1.3	0.03	0.316
VA-0469	**602225**	**6934331**	888	6.98	0.86	5.37	1.17	2.9	1.77	0.02	0.411	**VA-0505**	**602972**	**6934933**	799	7.43	0.76	6.94	0.84	3.04	2.3	0.02	0.432	**VA-0536**	**603180**	**6935631**	**771**								
VA-0470	**602283**	**6934328**	883	6.23	0.91	3.12	2.23	1.12	1.44	0.01	0.348	**VA-0506**	**603076**	**6935128**	790	7.48	0.66	7.51	1.04	2.58	1.93	0.03	0.352	**VA-0537**	**602924**	**6935252**	**860**	7.71	1.42	7.55	0.74	2.65	1.6	0.04	0.268
VA-0471	**602331**	**6934330**	890	6.46	0.58	8.02	0.74	1.63	2.13	0.04	0.401	**VA-0507**	**603035**	**6935131**	794	7.06	0.87	5.48	1.58	1.94	1.64	0.02	0.387	**VA-0537**	**603117**	**6935634**	**776**								
VA-0472	**602377**	**6934330**	880	5.96	0.85	5.04	0.99	1.5	1.56	0.03	0.548	**VA-0508**	**602973**	**6935133**	803	7.15	0.79	6.65	1.04	2.54	1.92	0.02	0.324	**VA-0538**	**603072**	**6935636**	**773**	6.85	0.93	4.39	1.88	1.57	1.44	0.02	0.355
VA-0473	**602428**	**6934330**	872	6.93	0.72	4.71	0.89	2.04	2.67	0.03	0.404	**VA-0509**	**602926**	**6935138**	800	8.09	1.07	8.91	0.49	2.94	3.21	0.03	0.426	**VA-0539**	**603034**	**6935639**	**782**	7.11	1.45	5.59	1.46	2.03	1.62	0.02	0.57
VA-0474	**602480**	**6934334**	874	7.55	1.03	10.25	0.35	3.75	1.76	0.04	0.474	**VA-0510**	**602818**	**6935135**	815	6.24	1.17	6.31	0.94	1.76	1.48	0.05	0.41	**VA-0540**	**602987**	**6935631**	**776**	7.54	1.08	8.16	0.49	2.84	1.74	0.05	0.278
VA-0475	**602470**	**6934431**	869	5.98	1.14	4.49	1.29	1.52	1.74	0.02	0.415	**VA-0511**	**602735**	**6935141**	814	7.1	1.08	6.01	0.85	2.28	2.09	0.02	0.352												
VA-0476	**602372**	**6934420**	874	6.43	0.55	6.2	0.97	0.89	1.56	0.07	0.331	**VA-0512**	**602631**	**6935139**	818	6.87	1.06	4.37	1.65	1.8	1.42	0.03	0.394												
VA-0477	**602271**	**6934416**	891	6.86	1.28	5.76	0.89	2.43	2.01	0.02	0.46	**VA-0513**	**602527**	**6935131**	822	6.54	1.05	5.04	1.67	1.32	1.28	0.04	0.485												
VA-0478	**602178**	**6934398**	902	6.83	1.06	5.86	1.18	2.11	1.6	0.02	0.432	**VA-0514**	**602572**	**6935231**	815	8.37	0.81	6.18	1.65	2.8	1.7	0.03	0.383												

APPENDIX B3 – SOIL SAMPLING RESULTS - TRACE ELEMENTS (PPM)

Sample ID	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mn	Mo	Nb	Ni	P	Pb	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U	V	W	Y	Zn	Zr
VA-0002	0.22	49.4	160	0.93	0.13	0.21	21.9	30	546	1.3	87.7	12.25	0.05	1.4	0.053	7.4	24.6	626	2.22	5.8	164	310	11.8	40.4	0.001	0.34	28.4	1	0.9	76.1	0.48	0.14	3.12	0.3	1.1	159	0.6	11.2	94	50.4
VA-0003	1.74	78.1	180	1.3	0.24	0.52	50.7	53.2	638	1.57	167.5	14.7	0.08	1.9	0.06	8.8	29.5	896	8.12	7	241	520	23.2	52.6	0.002	0.7	30.9	2	1.1	62.8	0.54	0.27	5.03	0.49	2.8	229	0.9	17.4	181	60.8
VA-0004	0.19	67	160	1.2	0.22	0.45	47.9	41.6	481	1.51	165	13.9	0.08	1.5	0.058	8.8	22.7	809	10.75	7.5	196.5	340	20.5	51.2	0.001	0.82	26.7	3	1.1	67.3	0.56	0.24	4.96	0.51	4	228	0.9	19.1	145	51.9
VA-0005	0.24	35.9	200	1.07	0.16	0.18	26.5	22.8	304	1.4	78.7	13.75	0.09	1.9	0.055	10.7	20.8	649	3.76	6.8	80.6	430	12.9	48.4	0.002	0.38	22.2	2	1	82.2	0.48	0.12	3.74	0.33	1.6	143	0.6	13.9	103	55.8
VA-0006	0.11	54	190	1.04	0.14	0.16	26.4	27.9	509	1.78	83.9	14.3	0.06	1.6	0.056	8.3	26.6	578	3.26	7	139	320	12.8	49.9	0.001	0.32	28.1	1	1.1	72.2	0.51	0.12	3.65	0.41	1.4	171	0.7	14	98	56.3
VA-0007	0.14	72.1	160	1.14	0.2	0.32	41.3	39.4	497	1.39	139.5	13.7	0.07	1.8	0.054	10	23.2	861	7.3	7.2	170	370	18.4	48.3	0.001	0.52	27.4	2	1	66.4	0.54	0.23	4.87	0.42	3	183	0.8	17	130	47.8
VA-0008	0.38	16.6	270	0.98	0.13	0.14	31.7	12.3	136	1.7	22.7	12.65	0.025	2	0.044	12.9	13.5	345	1.96	7.4	37	240	13.1	62.9	0.001	0.2	15	2	1.1	102	0.54	0.08	3.43	0.39	1.4	112	0.5	13.3	44	64.1
VA-0009	0.36	29.9	240	0.87	0.16	0.07	24.8	11.5	183	1.9	22.1	16.6	0.09	1.4	0.053	10.9	10.4	312	1.82	8.8	49.2	260	13.1	63.1	0.001	0.31	15.4	1	1.2	90.6	0.58	0.13	2.65	0.33	1	133	0.5	10	40	45.1
VA-0010	0.34	14	240	0.84	0.11	0.18	23.3	13.5	216	1.62	26.4	14.65	0.06	1.6	0.053	10	12.6	357	0.71	8.2	59.8	380	10.5	53.6	0.001	0.23	17.2	1	1.2	79.8	0.59	0.025	2.84	0.31	1	119	0.5	11.9	41	53.5
VA-0011	0.19	18.2	150	0.81	0.05	0.11	17.2	40.9	502	1.17	55.5	13.45	0.05	1	0.044	6.6	21.9	700	0.62	4.2	234	410	5.5	34.8	0.001	0.24	23.2	1	0.8	76.8	0.3	0.025	2.1	0.21	0.7	125	0.5	9.5	75	31.1
VA-0012	0.54	38.3	220	0.98	0.09	0.13	18.4	29.1	471	1.86	34.2	16.5	0.025	1.5	0.055	7.7	24.8	661	1.15	5.7	137.5	390	8.7	59.3	0.001	0.25	28.5	1	1.1	84.8	0.41	0.06	2.28	0.37	0.9	172	0.6	10.4	99	50.6
VA-0013	0.2	14.8	290	1.19	0.1	0.09	34.4	18.4	250	1.68	40	14.2	0.025	2.1	0.054	13	19.2	443	0.77	8.6	79.6	360	11.1	61.1	0.001	0.19	20.1	1	1.2	98.8	0.6	0.025	3.9	0.35	1.2	115	0.6	15.4	62	66
VA-0014	0.14	31.8	190	0.88	0.1	0.13	26.2	40.6	350	1.36	80.4	14.35	0.06	1.2	0.045	9.9	18.6	1210	1.22	6	179.5	250	9	47.4	0.001	0.3	22.8	1	0.9	100.5	0.38	0.07	2.98	0.25	1.2	123	0.5	12.4	68	43.9
VA-0015	0.73	41.7	320	1.28	0.12	0.38	93.1	44.4	173	4.07	413	12.65	0.07	2.1	0.047	39.5	16.2	998	1.92	7.6	98.2	840	13.2	74.4	0.002	0.55	19	1	1.1	104	0.54	0.07	8.46	0.44	4.8	78	0.6	35.6	75	64.2
VA-0016	0.51	80	190	1.14	0.22	0.53	53.9	43	462	1.53	160	14.5	0.09	1.5	0.068	12.3	25.2	684	6.81	7.5	176	500	24.9	51.2	0.001	0.61	26.6	2	1.1	71	0.53	0.19	4.93	0.4	3.1	180	0.8	18	139	49.4
VA-0017	0.31	46	260	1.13	0.16	0.25	62	40.3	277	1.66	74.9	13.85	0.08	2	0.053	15.8	17	822	3.67	9	92.7	370	17.6	60.4	0.001	0.33	20.5	1	1.2	105	0.7	0.13	5.41	0.38	2.4	125	0.6	19.6	75	66.6
VA-0018	0.09	48.4	200	1.01	0.17	0.2	28.3	29.6	415	1.62	86.1	14.45	0.06	1.5	0.051	10.2	20.8	620	5.22	7.5	117.5	350	14.3	56.9	0.001	0.38	25.4	2	1.2	76	0.53	0.2	4.46	0.43	2.7	181	0.7	16.5	113	51.1
VA-0019	0.18	119.5	140	0.92	0.25	0.53	51.4	63.2	499	1.29	197	13.2	0.11	1.3	0.054	8.9	22	1065	9.32	7.8	243	370	22.9	40.8	0.001	0.76	28.8	3	1	60.1	0.55	0.26	4.8	0.4	3.7	192	0.8	20.3	145	48
VA-0020	0.18	49.1	200	1.01	0.17	0.27	34.9	26.9	405	1.62	87.8	14.2	0.06	1.7	0.055	10.9	20.4	567	4.99	7.4	132	410	16.6	53.7	0.001	0.47	22.8	2	1.1	79	0.52	0.18	4.01	0.44	2.2	173	0.7	14.5	92	56.9
VA-0024	0.17	47.1	210	0.95	0.14	0.21	33.1	34.9	465	1.74	78.2	13.95	0.05	1.6	0.057	10	21.8	917	2.74	6.3	146	250	10.3	63.8	0.001	0.35	26.4	1	1	86.7	0.46	0.12	3.17	0.39	1.4	170	0.6	12.6	124	51.2
VA-0025	0.29	63.8	170	0.95	0.15	0.22	28.9	37.6	649	1.64	110.5	14.3	0.05	1.3	0.059	7.8	25.5	752	2.69	5.9	193	260	10.5	48.1	0.001	0.35	30.4	1	0.9	73.6	0.42	0.17	2.71	0.31	1.1	192	0.5	11.9	132	42.3
VA-0026	0.17	23.9	140	0.69	0.13	0.12	20.8	45.3	596	1.16	147.5	14.4	0.025	1	0.053	7.3	26.3	1105	0.74	4.3	192	360	8.5	26.3	0.001	0.3	35.3	1	0.7	72.6	0.31	0.23	2.61	0.24	0.7	199	0.5	9.5	113	34.6
VA-0027	0.19	22.6	180	0.88	0.12	0.17	29.5	29.9	495	1.5	98.3	13.4	0.05	1.6	0.049	9	25.2	692	0.59	5.8	148	350	9.1	42.2	0.001	0.25	30.6	1	0.9	89.5	0.41	0.14	3.24	0.24	0.9	165	0.5	10.7	101	44.4
VA-0028	0.19	15.5	260	1.08	0.13	0.19	35.9	24.6	259	1.7	100	12.5	0.025	1.6	0.053	13.5	20.1	467	0.49	7.9	87.3	350	11.6	54.3	0.001	0.21	20.1	1	1	104.5	0.55	0.12	3.89	0.3	1.1	107	0.4	14.4	84	49.7
VA-0029	0.07	14.2	190	0.79	0.11	0.17	24.5	29	465	1.62	79.3	14.4	0.025	1.2	0.048	8.5	24.8	670	0.54	5.6	131.5	200	7.7	48.9	0.001	0.25	27.2	1	0.9	84.7	0.4	0.14	2.21	0.25	0.8	161	0.5	9.3	102	37.5
VA-0030	0.05	18.8	170	0.87	0.1	0.08	23.2	39.1	464	1.62	267	14.15	0.06	1.2	0.05	8.7	25.5	797	0.63	5.5	187	250	7.5	44.1	0.001	0.25	27.4	1	0.8	81.1	0.38	0.1	2.59	0.23	0.8	159	0.5	10	108	41.5
VA-0031	0.08	11.6	140	0.68	0.09	0.06	21.9	40.2	526	1.7	428	14.05	0.025	1.1	0.047	8.6	19.8	1030	0.79	4.6	175.5	260	6.7	40.2	0.001	0.25	28.9	1	0.8	78.8	0.35	0.07	2.15	0.27	0.8	162	0.4	10.4	74	37.5
VA-0032	0.08	13.8	190	0.82	0.09	0.05	18.75	29.9	606	1.69	494	15	0.05	1.3	0.048	7.1	26.6	751	0.97	5.1	166	210	7.2	53.5	0.001	0.27	29.8	2	0.9	72.6	0.35	0.025	2.11	0.35	0.8	186	0.6	8.9	95	41.3
VA-0033	0.32	36.4	160	0.72	0.12	0.15	16.7	36.6	458	1.62	134	14.15	0.025	1.2	0.05	6.6	19.2	1130	1.44	5.3	193	400	8.2	45.6	0.001	0.37	26	1	0.9	86.1	0.37	0.12	2.26	0.25	0.8	159	0.5	9.4	102	36.4
VA-0034	0.18	37	180	0.88	0.14	0.21	29	29.9	353	1.34	112.5	12.5	0.06	1.4	0.056	10.4	18.2	573	2.11	6	144	440	12.8	39.6	0.001	0.3	24.2	1	0.8	88.6	0.42	0.14	3.13	0.29	1.5	135	0.5	13.9	78	44.3
VA-0035	0.23	25.2	140	0.88	0.1	0.08	11.75	26.6	633	1.3	58.3	14.25	0.06	1.1	0.056	5	24.6	657	2.44	5.4	168	290	6.4	41.1	0.001	0.28	30	2	0.8	65	0.4	0.06	1.9	0.28	1	183	0.6	10.3	90	36.9
VA-0036	0.12	20.3	180	0.91	0.11	0.09	16.55	28.4	708	1.14	88	14.45	0.08	1.1	0.051	7.3	25.2	625	2.49	5.3	163	360	7.7	22.6	0.001	0.37	25.6	1	1	87.2	0.48	0.08	2.21	0.29	1.2	195	0.5	9.6	84	37.6
VA-0037	0.15	16.4	250	0.99	0.14	0.17	30.1	33.5	362	1.82	39.2	13.75	0.1	1.8	0.054	13	19.9	1265	1.9	7.5	100.5	390	10.8	51.2	0.003	0.3	21	1	1.3	98.4	0.61	0.025	3.19	0.37	1.5	140	0.5	13.6	78	62.8
VA-0038	0.09	63.6	250	1	0.12	0.17	44.9	51.1	274	1.68	138	12.55	0.11	1.6	0.048	18.4	16.6	927	2.51	7.3	103.5	320	12.4	54	0.001	0.47	19	1	1.2	99.1	0.56	0.07	4.1	0.36	2.2	113	0.5	17.2	65	51.7
VA-0039	0.67	28.3	220	0.96	0.13	0.1	37.3	15.4	289	2.07	69.7	13.7	0.11	1.6	0.051	18.8	13	346	2.96	6.8	84.1	380	12.2	58.4	0.001	0.29	20.1	1	1.1	87.2	0.49	0.11	3.83	0.34	2.4	124	0.5	17	39	55.7
VA-0040	0.08	14	160	0.69	0.11	0.06	12.45	21	329	1.24	12.6	14.9	0.07	1.2	0.043	5.5	13	475	1.61	6.4	124	150	8.8	33.3	0.001	0.33	23.2	1	1	90.4	0.48	0.06	1.36	0.26	0.7	159	0.5	10.4	52	43
VA-0044	0.6	28.4	170	0.86	0.13	0.15	22.1	18.8	361	1.32	50	12.8	0.09	1.3	0.05	10	15.1	424	2.62	6	105	380	13.2	41.1	0.001	0.29	23.7	1	1	76.4	0.44	0.1	2.71	0.26	1.4	139	0.5	12.1	64	44.4
VA-0045	0.08	27.4	350	1.46	0.16	0.11	41.5	25.4	237	2.88	60.8	16.55	0.12	1.9	0.054	16.9	22.2	575	3.1	9.6	80.1	150	14	86.9	0.001	0.26	19.4	1	1.7	89.4	0.65	0.09	4.75	0.51	1.9	135	0.7	13.4	77	66.3
VA-0046	0.07	21.1	170	0.73	0.11	0.06	17.15	17.2	318	1.53	23.3	15.15	0.08	1.3	0.046	7.7	12.2	416	1.98	7.7	99.7	150	8.6	48.5	0.001	0.31	22.5	1	1.1	85.5	0.54	0.06	1.92	0.29	0.9	157	0.5	9.7	49	46.7
VA-0047	0.07	18.3	270	1.02	0.08	0.06	27.6	15.4	358	1.88	23.2	15.4	0.11	1.6	0.048	13.4	18.4	382	0.57	7.4	83.7	310	8.7	61.4	0.001	0.21	18.7	1	1.2	82.2	0.51	0.025	3.02	0.34	1.1	119	0.5	10.4	49	54.5
VA-0048	0.1	15	610	2.09	0.17	0.09	62.1	29.5	425	3.2	49.5	25.7	0.2	3.4	0.095	27.6	30.8	774	1.93	15.9	178.5	230	18.7	96.5	0.001	0.27	28.6	1	2.5	216	1.11	0.06	5.87	0.69	2.3	192	0.9	22.5	90	116.5
VA-0049	0.13	38.3	230	1.04	0.12	0.27	57.2	59.7	328	1.43	206	11.5	0.12	1.5	0.054	14.6	18.8	916	2.02	6.6	144.5	540	13	44	0.002	0.42	21.1	1	1	101	0.47	0.13	4.28	0.26	1.7	125	0.4	17.3	80	52.8
VA-0051	0.11	37.6	120	0.76	0.11	0.27	14.15	32.2	637	1.22	109	12.1	0.07	1	0.057	6.3	21.9	741	1.91	4.7	202	460	9.8	29.1	0.001	0.35	30.3	1	0.9	62.7	0.34	0.1	2.42	0.25	1	179	0.4	9.7	105	40.4
VA-0052	0.16	26.2	170	0.84	0.1	0.19	17.25	31	596	1.88	101	14.45	0.09	1.1	0.053	7.3	23.8	750	1.42	5	161	730	9.5	48.4	0.001	0.28	28.2	1	1.1	65.3	0.34	0.09	2.33	0.27	0.9	190	0.5	8	118	49.3
VA-0053	0.06	4	200	0.76	0.08	0.04	23.2	19.6	363	1.66	40.4	13.1	0.09	1.4	0.048	11.4	15.6	500	0.38	6.2	99.4	250	7.2	42.9	0.001	0.16	24.9	1	1	88.1	0.41	0.025	2.15	0.26	0.8	132	0.4	10.4	52	49.2
VA-0054	0.16	7.1	280	0.98	0.11	0.2	53	28.8	264	2.17	270	12.65	0.11	1.8	0.051	20.1	18	1280	0.56	7.9	85.6	340	10.9	60.8	0.001	0.2	21.4	1	1.2	104	0.57	0.1	4.18	0.3	1.3	115	0.4	17.8	149	59.5
VA-0055	0.05	4.5	310	1.08	0.1	0.08	46.5	12.9	186	2.15	69.3	13.6	0.13	2.2	0.053	21.1	16.1	454	0.42	11	46.2	290	10.2	63.5	0.001	0.19	16.7	1	1.7	112.5	0.72	0.05	5.03	0.32	1.5	99	0.5	17.5	49	71.4
VA-0056	0.13	10.2	180	0.72	0.1	0.11	20.5	21.9	281	1.38	24.8	13.25	0.07	1.2	0.046	9.5	13.5	598	0.29	5	90.3	220	8.8	44.7	0.001	0.25	27.8	0.5	0.9	105	0.38	0.08	1.87	0.21	0.7	144	0.4	8.1	77	42.6
VA-0057	0.13	13.6	380	1.4	0.11	0.09	55.4	27.8	246	2.54	116.5	15.15	0.14	1.8	0.057	20.8	23.2	704	0.36	8	87.6	220	11.2	82.6	0.001	0.21	20.3	1	1.4	97.3	0.56	0.12	5.21	0.43	1.3	121	0.5	15.3	73	63.5
VA-0058	0.14	28	140	0.91	0.16	0.14	30	47.3	561	1.42	184	14	0.09	1.1	0.056	12.6	23.2	1190	0.7	5.4	165.5	280	10.4	30.1	0.001	0.38	33.4	1	0.9	87.7	0.39	0.27	3.66	0.21	1	203	0.4	12.6	113	37.7
VA-0059	0.12	24.2	190	0.86	0.1	0.19	32.5	46.5	434	1.66	178.5	13	0.09	1.2	0.051	14.8	20.1	1230	0.72	5.2	159	340	8.6	29.6	0.001	0.51	30.5	1	0.9	88.5	0.4	0.16	3.66	0.25	1	166	0.4	13.7	85	39.8
VA-0060	0.08	29	120	0.65	0.1	0.14	27.5	52.2	506	1.26	143.5	13.2	0.07	1	0.06	7.6	22	1195	0.58	4.1	160	200	7.6	25.7	0.001	0.43	36.4	1	0.7	81.1	0.3	0.2	2.4	0.17	0.7	194	0.3	11.2	105	34
VA-0064	0.13	19	160	0.72	0.11	0.19	27.6	43.8	388	1.38	147	12.2	0.08	1.3	0.057	11.2	18.9	955	0.51	4.8	120	310	8.7	30.1	0.001	0.39	30	1	0.8	82.5	0.35	0.2	2.74	0.21	0.9	161	0.3	12	80	36.7
VA-0065	0.07	14	240	1.14	0.11	0.11	40.5	35.5	415	2.54	172.5	14.3	0.12	1.5	0.061	13.6	24.6	1045	0.52	6.4	130	440	8.9	53.6	0.001	0.27	27.2	2	1.1	85.4	0.44	0.15	4	0.29	1	155	0.6	12.8	99	52.4
VA-0066	0.18	10.8	150	0.73	0.12	0.18	22	41.9	410	1.98	456	15.55	0.1	1.1	0.056	16.4	15.4	1990	1.26	5.4	112.5	400	8.1	45.5	0.011	0.39	29.9	2	1	73.9	0.4	0.09	2.2	0.22	1	188	0.5	18	64	41.9
VA-0067	0.12	14.1	150	0.73	0.08	0.14	29.3	36.9	406	1.4	294	11.9	0.09	1.1	0.052	10.9	16.4	1265	0.56	4.7	122.5	240	7.2	35	0.002	0.32	29.6	1	0.8	89.3	0.35	0.09	2.83	0.2	0.9	156	0.3	13.4	60	39.4
VA-0068	0.11	15.3	160	0.76	0.09	0.11	19.95	28.5	377	1.21	80.9	12.6	0.09	1.2	0.055	8.6	13	617	0.51	5.8	83.1	220	8.1	37.8	0.001	0.27	25.1	1	0.9	84.4	0.42	0.15	2.15	0.19	0.8	158	0.4	10	62	40.2
VA-0069	0.09	5.9	240	0.96	0.1	0.06	28.3	8.3	117	2.59	48.1	14	0.11	1.8	0.044	13.2	5.6	316	0.41	7.2	24.9	130	10.8	56.6	0.001	0.19	16.4	1	1.3	103.5	0.51	0.025	2.55	0.28	1	213	0.4	10.4	21	61.6
VA-0070	0.17	10.6	270	1.04	0.09	0.08	31	19.9	226	1.86	62.4	13.7	0.1	1.7	0.054	13.6	15.9	494	0.45	7.6	61.4	270	9.6	60.8	0.001	0.22	21.1	1	1.2	94.9	0.52	0.06	3.5	0.31	1.1	129	0.4	12.2	62	58.3
VA-0071	0.14	27.2	150	0.75	0.11	0.11	16.8	27.8	322	1.39	61.2	12.35	0.09	1.1	0.061	7.7	14.2	653	0.74	6.1	74.6	310	9.5	37.9	0.001	0.34	24.5	1	1	73.2	0.43	0.09	2.37	0.21	0.8	141	0.4	9.3	56	36.4
VA-0072	0.14	2.4	310	0.94	0.11	0.12	26.5	3.1	60	2.04	2.7	12.65	0.09	2.1	0.031	12.9	5.2	180	0.43	8.6	9.7	150	14.9	70.3	0.001	0.23	10.8	1	1.3	81.4	0.61	0.07	2.62	0.35	0.9	67	0.5	5.8	26	76.4
VA-0073	0.38	38.1	140	0.76	0.12	0.15	16.2	18.6	284	1.24	56	11.65	0.07	1.1	0.055	7.4	12.4	452	1.72	6.2	75.8	350	10.7	36.1	0.001	0.33	25.2	1	0.9	69.3	0.43	0.15	2.21	0.22	1.1	135	0.4	9.8	61	41.8

Sample ID	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mn	Mo	Nb	Ni	P	Pb	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U	V	W	Y	Zn	Zr
VA-0074	0.11	25.6	360	1.36	0.14	0.11	53.4	18.3	151	2.46	166.5	14.35	0.12	1.9	0.055	23	19	470	1.19	8.8	57.1	270	12.6	83.3	0.001	0.24	17.2	1	1.4	95.8	0.61	0.11	5.34	0.42	1.9	99	0.6	17.4	56	65.2
VA-0075	0.67	18.4	380	1.54	0.12	0.17	39.2	12	155	2.64	39.4	15.35	0.12	1.8	0.056	16.2	23.1	354	0.97	9.2	50	220	12.6	89.9	0.001	0.21	17.2	1	1.5	83.6	0.57	0.07	5.51	0.45	1.4	104	0.6	11	74	66.1
VA-0076	0.21	33.5	310	1.28	0.1	0.12	54.8	25	193	1.94	480	13.3	0.13	1.8	0.053	30	18.8	808	0.32	8.3	77.4	250	9.7	62.9	0.001	0.21	23.9	1	1.2	114.5	0.56	0.07	5.51	0.3	2	103	0.5	26.3	73	65.6
VA-0077	0.11	15.2	230	0.92	0.13	0.07	29.6	13.2	245	1.7	29.4	13.05	0.1	1.4	0.057	13.8	13.6	411	0.3	8.3	53.3	230	10.8	58.7	0.001	0.21	21.8	1	1.1	86.1	0.57	0.16	3.19	0.26	1	127	0.4	9.2	51	48.3
VA-0078	0.11	12.7	180	0.76	0.12	0.08	19.15	31.3	348	1.74	57.4	12.9	0.08	1.1	0.063	8.6	19.5	976	0.27	6.6	87.9	270	9	44.6	0.001	0.22	24.6	1	1	79.1	0.46	0.11	2.41	0.24	1.2	139	0.4	8.2	72	38.9
VA-0079	0.07	7.4	330	1.22	0.11	0.05	36.2	13.8	178	2.42	43.7	14.5	0.11	2	0.05	17.3	18.8	437	0.18	8.8	50.5	140	9.4	77.9	0.001	0.18	19.4	1	1.3	101.5	0.55	0.08	3.59	0.37	1.2	108	0.5	11.6	52	68.4
VA-0080	0.08	18.2	310	1.3	0.12	0.1	35.5	25.8	300	2.62	67.1	15.55	0.1	1.4	0.06	12.2	27.8	682	0.3	7.3	95.2	230	11.8	66.7	0.001	0.23	24	1	1.4	85.9	0.47	0.18	3.76	0.36	1	138	0.6	9.5	93	52.5
VA-0084	0.05	20.3	130	0.67	0.09	0.12	20	47.4	489	0.98	219	12.85	0.07	0.9	0.053	9	20.2	1170	0.33	4	183	280	7.8	25.1	0.001	0.33	39.4	1	0.6	96.4	0.28	0.22	2.39	0.16	0.8	193	0.3	11.8	90	40.4
VA-0085	0.27	9.8	220	0.81	0.09	0.14	21.8	25	330	1.73	22.4	13.75	0.07	1.3	0.048	9.7	19.1	595	0.21	5.5	106	200	7.8	48.7	0.001	0.2	28.5	1	0.9	106	0.38	0.14	2.1	0.23	0.9	150	0.4	9.8	110	48.3
VA-0086	0.08	16.8	130	0.64	0.08	0.09	20	30.1	418	1.14	85.5	12.6	0.19	0.9	0.059	8.4	21	696	0.3	4.1	151.5	180	5.1	30.6	0.001	0.28	33.8	1	0.7	98.2	0.34	0.15	2.06	0.17	0.8	179	0.4	10.8	73	37.9
VA-0087	0.08	9.8	300	1.06	0.11	0.08	34.8	12.2	170	2.33	22.6	14.6	0.11	1.7	0.052	15.6	13.3	407	0.55	8	45.2	210	9	79.7	0.001	0.18	17.8	1	1.2	99.6	0.51	0.09	2.98	0.31	1.1	116	0.5	10.4	45	60.6
VA-0088	0.06	1.8	270	0.94	0.11	0.05	28.4	9.9	163	2.19	8.4	14.15	0.08	1.6	0.046	14	11	360	0.19	8.1	45.4	210	10.6	64.1	0.001	0.15	20.3	1	1.3	106.5	0.54	0.06	2.71	0.38	1	110	0.5	9.9	33	58.3
VA-0089	0.12	7.8	330	1.16	0.1	0.06	44	21.8	191	3.04	132.5	14.3	0.11	1.8	0.054	21.1	19.4	641	0.32	8.4	63.4	140	10.4	79.3	0.001	0.19	18.2	1	1.3	108	0.53	0.07	4.42	0.45	1.3	102	0.5	14.6	61	67.5
VA-0090	0.1	22.7	130	0.78	0.1	0.13	26.1	31.8	393	0.99	109	10.7	0.06	1	0.063	8.2	18.2	667	0.25	4.8	125.5	330	9.7	26.8	0.001	0.33	31.2	1	0.6	91.8	0.34	0.17	3.01	0.16	0.8	142	0.4	10	72	36.6
VA-0091	0.09	22.7	270	1.16	0.12	0.21	41.8	36.5	290	1.78	332	14.25	0.1	1.5	0.059	19.2	19.2	958	0.22	7.3	118	190	12.4	43.5	0.001	0.32	28.9	1	1.1	105	0.48	0.13	4.78	0.33	1.5	138	0.7	17.4	80	58.4
VA-0092	0.08	30.4	100	0.56	0.13	0.12	15.15	28.4	368	0.82	112	10.8	0.06	1	0.062	6.7	13.7	864	0.45	4.8	104.5	430	8.8	20.6	0.001	0.35	32	1	0.6	89.2	0.37	0.18	2.48	0.14	0.8	142	0.4	10.6	70	36.8
VA-0093	0.09	18.4	350	1.46	0.11	0.12	47.2	22.8	204	2.74	189.5	16.2	0.11	1.6	0.06	20	23.2	528	0.45	8.1	77.1	280	11.1	81.4	0.001	0.35	21.5	1	1.4	95	0.5	0.1	4.14	0.39	1.2	122	0.6	14.8	73	56.8
VA-0094	0.14	29.7	170	0.88	0.11	0.12	40.9	29.3	339	1.35	115.5	14.15	0.07	1.1	0.068	9.7	20.1	565	0.3	5.9	101	270	9.4	36.8	0.001	0.3	29.3	1	0.8	91.3	0.41	0.17	2.46	0.18	0.9	160	0.4	12.4	74	42.1
VA-0095	0.06	32.5	400	1.47	0.1	0.08	77.7	21.2	88	2.35	175.5	13.35	0.12	2.3	0.048	30.5	17	460	0.15	9.6	48.6	300	10.8	84.5	0.001	0.18	13.8	1	1.4	123.5	0.65	0.025	6.19	0.38	1.6	72	0.5	20.2	46	81.8
VA-0096	0.09	17	280	1.14	0.09	0.11	42.2	35.3	282	1.71	210	14.4	0.11	1.5	0.056	18.4	20.5	928	0.26	7	122	150	9.5	35.1	0.001	0.25	26.7	1	1.1	107.5	0.47	0.14	4.13	0.31	1.3	143	0.5	17.8	74	54.8
VA-0097	0.07	7.5	180	0.66	0.1	0.09	21.7	12.1	201	1.97	12.2	16.6	0.07	1.4	0.053	10.5	11.7	390	0.11	6.5	58.1	150	9.7	46.6	0.001	0.25	24	1	1.1	96.7	0.44	0.1	1.9	0.28	0.8	177	0.5	10.8	41	58.6
VA-0098	0.14	10.7	170	0.88	0.09	0.13	39.1	29.2	275	1.88	56.7	13.5	0.09	1	0.058	12.2	15.3	996	0.7	5.3	67.3	640	9.8	40.9	0.001	0.27	22	1	0.8	77.3	0.37	0.07	2.73	0.18	1.1	130	0.4	13.1	70	37.9
VA-0099	0.08	20.1	150	0.73	0.08	0.15	28.5	38.5	449	1.18	107	13.2	0.07	1.1	0.059	8.9	25.6	753	0.34	4.7	169.5	260	6.8	26.5	0.001	0.3	32.9	1	0.7	97	0.32	0.1	2.09	0.17	0.8	166	0.4	11.2	88	40.1
VA-0100	0.14	40.5	120	0.8	0.12	0.23	15.5	34	730	1.6	99.6	14.1	0.06	1	0.057	5.4	30.1	716	1.13	4.8	185	360	9.1	33.1	0.001	0.35	34	1	0.8	65.7	0.32	0.12	1.86	0.22	0.9	205	0.5	16.6	100	37.3
VA-0104	0.1	24.9	210	0.85	0.1	0.2	36.5	43	504	1.59	110.5	13.8	0.08	1.4	0.049	12.4	22.5	1060	0.62	5.9	167	240	9.1	45.7	0.001	0.27	30.3	1	0.9	95.6	0.4	0.06	3.09	0.24	1.2	172	0.5	13.4	99	49.3
VA-0105	0.16	19.7	150	0.74	0.11	0.23	22.7	37.5	478	1.85	69.2	14.05	0.08	1.3	0.053	9.1	23.1	1320	1.04	5.4	137.5	380	10.4	47.5	0.001	0.3	31.3	1	0.9	97.1	0.38	0.07	2.09	0.24	1.1	179	0.5	13.2	135	46.6
VA-0106	0.17	53.9	170	1.24	0.17	0.23	54.1	33.3	562	2.08	443	14.2	0.1	1.8	0.057	17.2	25.2	733	4.59	7.1	237	390	11.4	49.1	0.001	0.63	32	1	1.1	77	0.48	0.17	4.38	0.38	3.8	201	0.7	23.9	99	55.3
VA-0107	0.18	44.3	200	1.09	0.16	0.17	21	20.7	503	1.68	69.8	15.2	0.12	1.5	0.064	9.9	22.3	535	5.51	7.5	126.5	360	12.6	54.7	0.001	0.55	25.9	1	1.2	71.9	0.52	0.15	2.92	0.44	1.6	210	0.8	13.8	97	54.9
VA-0108	0.42	37.6	130	0.71	0.1	0.31	16	34	525	0.92	75.1	13.65	0.09	0.9	0.053	5	20.9	692	2.05	4.6	172.5	320	9.2	20.4	0.001	0.46	26.5	1	0.8	75.8	0.35	0.09	2.02	0.25	1.1	175	0.5	11.4	92	31
VA-0109	0.14	50.6	180	1.02	0.17	0.41	65.2	51	289	1.31	143	12.7	0.12	1.4	0.055	16.5	15.5	943	4.1	6.8	112	490	17	41	0.001	0.69	22.3	2	1	105.5	0.47	0.16	5.01	0.3	3.1	139	0.5	21.3	113	49.2
VA-0110	0.3	18	360	1.28	0.12	0.3	74.6	23.8	134	1.92	115.5	12.55	0.18	2	0.048	30.6	13.3	889	2.16	8.7	60.7	370	13	76.8	0.001	0.28	15	1	1.3	118.5	0.56	0.06	6.03	0.43	3.3	86	0.5	21.4	55	71
VA-0111	0.3	35.5	160	0.79	0.13	0.25	18.6	31.3	419	1.4	50.9	12.95	0.11	1.1	0.049	8.2	15	507	2.46	5.6	186.5	360	11.4	45.7	0.001	0.36	18.8	1	0.9	68.7	0.39	0.13	2.39	0.25	1.1	130	0.4	10.7	76	38.2
VA-0112	0.12	9.7	350	1.26	0.08	0.09	39.6	23	236	1.98	98.7	14.55	0.13	1.7	0.054	19	19.2	655	0.58	7.7	114	280	9	62.5	0.001	0.24	16.9	0.5	1.3	105	0.52	0.025	4.08	0.37	1.4	100	0.5	14	60	57.9
VA-0113	0.23	10.2	280	0.99	0.1	0.12	30.1	16.6	220	1.9	29.2	14.2	0.1	1.6	0.047	13.6	13.4	369	0.79	7.4	84	300	9.5	65.4	0.001	0.21	15.9	1	1.2	107.5	0.49	0.025	3.08	0.32	1.1	101	0.5	11.6	43	58.2
VA-0114	0.16	27.9	180	0.82	0.1	0.11	20.8	31	404	1.26	117	13.1	0.09	1	0.05	9.7	18.2	624	1.81	5	195.5	320	7.9	41	0.001	0.34	25.5	1	0.9	97.3	0.33	0.07	2.86	0.24	1.1	138	0.5	13.1	75	36.4
VA-0115	0.42	59.8	180	1.02	0.18	0.35	51.6	45.7	470	1.32	172	13.9	0.12	1.3	0.055	13	20.9	859	5.85	5.9	235	230	18.2	37.5	0.001	0.57	24.5	2	1	75.9	0.42	0.19	4.16	0.33	2.8	166	0.6	15.4	119	44.1
VA-0116	0.44	112.5	130	0.79	0.18	0.32	25.9	44.4	540	1.19	115.5	13.7	0.1	1	0.055	6.9	20	749	5.27	5.1	265	400	15.4	35.4	0.001	0.5	24.3	2	0.8	70.4	0.36	0.26	2.53	0.26	1.3	162	0.6	12.3	130	34
VA-0117	0.27	27.1	260	0.94	0.12	0.19	30.1	16.1	233	1.66	34.2	12.7	0.12	1.6	0.049	13.2	12.7	429	1.94	7.7	65.4	310	11.8	64.9	0.001	0.25	17.8	1	1.1	99.9	0.51	0.08	3.21	0.31	1.3	118	0.5	13	53	57.9
VA-0118	0.22	12.2	230	0.85	0.09	0.09	23.9	22.6	362	1.68	24.7	13.5	0.1	1.4	0.044	11.1	15.6	533	1.38	6.6	124	170	8.6	52.1	0.001	0.22	20.4	1	1.1	95.2	0.43	0.05	2.39	0.32	1	136	0.5	8.3	55	52.9
VA-0119	0.44	41.3	240	1.21	0.13	0.21	42.7	25	386	1.87	96.7	13.05	0.13	1.7	0.061	13.2	21.4	500	3.07	7.1	113	370	12.9	69.4	0.001	0.41	21.4	2	1.1	88	0.47	0.16	4.21	0.37	1.9	152	0.6	12.6	87	57.7
VA-0120	0.54	16.5	300	1.1	0.13	0.15	38.6	20.7	221	1.93	34.3	13.5	0.12	1.8	0.051	16.1	13.2	837	1.86	8.1	60.3	340	13.4	73.7	0.001	0.23	16.9	1	1.3	109.5	0.55	0.07	3.84	0.39	1.5	117	0.5	13	64	63.4
VA-0124	0.06	30.1	200	0.93	0.1	0.23	32.1	27.3	459	1.27	96.3	11.95	0.09	1.4	0.052	13	21	603	1.54	5.9	124.5	440	9.4	40.6	0.001	0.36	23.5	1	1.1	93.7	0.4	0.07	3.63	0.26	1.2	138	0.4	12.1	74	47.5
VA-0125	0.21	32.3	180	0.84	0.1	0.21	22.7	33.4	498	2.29	92.9	12.9	0.12	1.3	0.055	9.8	23.3	637	1.32	5.2	195.5	380	8.8	49.9	0.001	0.33	24.3	1	0.9	80.6	0.36	0.09	2.62	0.29	1.1	161	0.4	11	85	51.3
VA-0126	0.13	25.5	220	1.18	0.16	0.12	27.9	27	453	2.46	66.9	16.65	0.12	1.6	0.074	9.3	30.6	519	1.13	8.3	126.5	250	12.4	56.4	0.001	0.29	24.8	1	1.4	75.5	0.54	0.09	3.26	0.33	1.1	182	0.6	11.5	87	57.9
VA-0127	0.07	38.7	150	0.85	0.12	0.12	30.2	34.5	548	1.17	106.5	13.15	0.11	1.1	0.06	8.9	24.4	845	0.9	5.3	159	270	9.2	29.2	0.001	0.33	31.2	1	0.8	79.5	0.38	0.19	2.87	0.21	0.9	186	0.5	10.8	100	38.7
VA-0128	0.18	28.8	150	0.88	0.11	0.23	32.1	50.2	611	1.3	412	13.8	0.11	1.3	0.065	15.6	25.4	1195	1.07	5.4	213	390	9.3	32.9	0.001	0.37	37.6	1	0.9	86.3	0.39	0.12	4.01	0.26	1.2	209	0.5	17.2	107	46.9
VA-0129	0.16	12.5	170	0.7	0.08	0.12	20.9	27.4	350	2.41	56.2	14.7	0.1	1.1	0.057	7.6	20.7	777	0.53	5.3	86.8	340	6.5	52.3	0.001	0.28	28.5	1	0.9	103	0.36	0.07	1.85	0.25	0.8	171	0.4	10.6	83	39.4
VA-0130	0.1	28	150	0.91	0.15	0.18	32.4	50.3	604	1.4	201	14.65	0.11	1.3	0.06	9.3	28.3	1350	0.79	5.1	191	280	10	32.4	0.001	0.38	37.6	1	0.9	72.9	0.37	0.28	3.4	0.22	0.9	221	0.5	11.8	142	45.2
VA-0131	0.25	126.5	320	1.32	0.15	0.29	66.1	34.2	235	3.51	318	13.55	0.17	2	0.06	31.9	19.2	887	0.83	7.3	146.5	460	15.7	71.1	0.001	0.73	25.6	1	1.2	101	0.48	0.24	7.22	0.38	1.9	116	0.5	29.1	81	67.5
VA-0132	0.08	17.1	260	0.97	0.11	0.08	31.2	24	332	1.6	76.6	12.8	0.08	1.5	0.055	12.8	19.8	577	0.46	6.5	93.7	300	10.2	44.1	0.001	0.23	23.4	1	1	95	0.45	0.12	3.31	0.25	1	141	0.4	11.8	65	50.3
VA-0133	0.05	15.8	230	1	0.11	0.09	23.5	28.5	462	1.47	95.2	14.7	0.09	1.4	0.058	8.4	24.9	807	0.38	6.5	126	190	8.6	30.1	0.001	0.24	25.8	1	1.1	89.7	0.43	0.11	2.66	0.26	0.9	176	0.5	9	124	50.2
VA-0134	0.13	5.6	220	0.69	0.11	0.16	22.9	15.4	267	2.24	130	13.5	0.1	1.7	0.042	10.4	8.3	484	0.33	6.7	62.8	480	9.5	68.1	0.001	0.23	18.9	1	1.2	74.5	0.47	0.09	2.64	0.28	0.8	145	0.4	7	64	52.7
VA-0135	0.13	7.2	200	0.76	0.11	0.1	21.3	21.3	351	1.66	310	13.9	0.1	1.5	0.056	9.8	14.9	491	0.5	5.9	80.6	400	11.2	49.2	0.002	0.29	23.2	2	1.2	88.1	0.41	0.12	2.26	0.26	0.9	155	0.5	8.3	213	51
VA-0136	0.17	2.5	250	0.74	0.08	0.1	27.9	20.2	142	1.65	687	12.35	0.1	1.8	0.044	13.6	5.9	320	0.52	6.2	50.1	140	9	56.7	0.002	0.16	14.8	2	1	94	0.43	0.07	2.62	0.26	0.8	98	0.5	7.2	33	60.6
VA-0137	0.09	33.2	170	0.93	0.1	0.16	21.8	32.9	532	1.26	127	13	0.09	1.2	0.064	10.2	23.8	676	1.64	5.8	150.5	420	9.8	30.8	0.001	0.26	28	2	1	73.8	0.4	0.1	3.61	0.28	1.3	174	0.5	12.3	94	44.3
VA-0138	0.16	22.1	210	0.91	0.12	0.1	28.7	20	331	1.41	290	12.4	0.11	1.4	0.056	13.7	16.1	508	1.32	6.5	104.5	370	10.6	43.3	0.001	0.3	22.9	1	1.1	104.5	0.46	0.11	3.5	0.28	1.4	135	0.5	14.4	57	50.9
VA-0139	0.02	1.5	350	0.97	0.08	0.02	40.9	5.7	99	1.8	5.8	11.55	0.12	2.1	0.04	19.4	7.9	249	0.18	8.3	21	160	9.9	69.8	0.001	0.2	11.2	1	1.2	109	0.56	0.025	4.01	0.35	1.3	65	0.4	13.2	20	78.3
VA-0140	0.03	32.9	180	0.91	0.09	0.12	26.3	31.3	551	1.16	217	13.05	0.11	1.2	0.062	12.8	21.6	742	1.48	6	171	360	8	38.5	0.001	0.34	31.9	1	1	88.6	0.41	0.11	3.47	0.26	1.3	185	0.5	15.4	90	45
VA-0144	0.02	5.8	290	0.9	0.13	0.04	25.1	9.8	226	2.67	9.3	16.75	0.18	1.8	0.042	12.1	10.8	323	0.76	8.5	52.3	130	14.6	83.5	0.001	0.12	17.7	1	1.4	105.5	0.55	0.025	2.54	0.48	0.9	113	0.6	9.1	30	67.2
VA-0145	0.06	4.4	330	1.22	0.15	0.05	27.2	10.8	245	2.65	4.5	17.05	0.21	1.9	0.043	13.1	14.6	340	0.98	9.3	56.4	210	14.5	79.7	0.001	0.1	19	1	1.5	103	0.6	0.025	2.8	0.45	1	128	0.6	10.2	40	66.9
VA-0146	0.05	18.5	330	1.48	0.12	0.07	26.9	21.9	360	2.04	65.1	15.6	0.2	1.6	0.05	13.5	25.7	531	1.91	7.8	115.5	210	10.8	48.8	0.001	0.14	21.7	2	1.3	84	0.48	0.06	3.83	0.45	1.2	142	0.6	11.8	83	55.5
VA-0147	0.05	14.3	250	0.91	0.13	0.03	23.1	9.1	208	2.03	3.5	15.1	0.2	1.7	0.04	11.2	10	318	0.85	8.1	50.3	120	14.2	55.8	0.001	0.07	19.6	1	1.3	99.5	0.54	0.05	2.29	0.37	0.9	124	0.6	10	29	60
VA-0148	0.01	1.7	310	0.79	0.09	0.02	26.4	1.8	39	2.04	1.7	11.9	0.21	2.1	0.023	13.3	4.9	119	0.36	8.1	4.4	70	10.6	73.4	0.001	0.025	6.2	1	1.2	58.6	0.53	0.025	2.64	0.4	0.8	49	0.5	4.3	10	75.5

Sample ID	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mn	Mo	Nb	Ni	P	Pb	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U	V	W	Y	Zn	Zr
VA-0149	0.1	22.4	220	1.08	0.11	0.07	25	19	403	1.49	85.5	13.45	0.22	1.3	0.05	12.9	20.2	501	2.13	7.4	103	380	9	41.1	0.001	0.17	25.4	2	1	82.1	0.5	0.09	3.79	0.34	1.3	150	0.5	15.5	67	48.2
VA-0150	0.08	3.7	300	0.88	0.1	0.04	32	16	242	1.95	30.2	13.2	0.21	1.7	0.04	15.9	17.6	447	0.53	8	56.8	270	10.2	73.1	0.001	0.025	17.1	1	1.1	104.5	0.54	0.025	3.2	0.37	1.2	100	0.5	11.9	55	62.3
VA-0151	0.08	3.9	260	0.86	0.11	0.05	22.4	12.4	307	1.72	15.4	13.75	0.23	1.5	0.039	11	12.6	406	0.47	7.3	61.5	150	12.1	60.1	0.001	0.08	21.8	1	1.1	112	0.49	0.025	2.3	0.33	0.9	124	0.5	10.7	44	54.6
VA-0152	0.09	7.1	190	0.74	0.1	0.06	17.75	22.7	394	1.67	69.4	12.85	0.23	1.3	0.044	8.7	17.8	635	0.65	5.8	101.5	320	8.1	40.1	0.001	0.1	27	1	0.9	94.6	0.4	0.025	1.94	0.25	0.8	144	0.4	10.5	71	45.7
VA-0153	8.11	3.9	30	0.14	0.15	1.24	3.02	401	705	2.07	11500	12.95	0.28	0.3	0.342	1.3	6	1250	6.47	0.4	281	150	5.9	5	0.026	0.1	33	36	0.2	19.9	0.025	1.49	0.2	0.08	0.2	171	0.1	7.1	136	8.2
VA-0154	0.1	9.8	250	1.05	0.11	0.06	31.8	42.2	342	2.92	230	14.05	0.17	1.5	0.056	14.3	22.8	1415	0.7	7.1	92.6	520	9.1	56.8	0.002	0.26	26.7	4	1.1	107	0.46	0.1	3.94	0.34	1.1	144	0.5	13.8	80	54.9
VA-0155	0.1	13.4	190	0.71	0.11	0.09	24.2	23.1	378	1.61	93.1	12.85	0.2	1.5	0.047	9	17.5	596	0.37	5.4	99.1	210	9.3	47.6	0.001	0.17	25.4	2	0.9	94.1	0.37	0.15	2.08	0.24	0.7	165	0.4	9.4	96	50.3
VA-0156	0.08	26.3	170	0.8	0.12	0.07	24.2	47.7	460	1.91	100.5	13.75	0.18	1.2	0.051	7.7	23.9	1025	0.71	5.4	134	190	8.7	34.7	0.001	0.22	27.6	1	0.9	82.6	0.36	0.17	2.21	0.25	0.7	171	0.5	9	94	41.7
VA-0157	0.92	189	170	0.77	0.16	0.16	36	44	423	1.27	201	11.85	0.18	1.3	0.056	16.7	16.9	1115	0.5	6	135	310	11.2	29.4	0.001	0.8	33.8	2	0.8	105	0.42	0.24	4.84	0.22	1.3	161	0.4	17.4	88	47.9
VA-0158	0.08	25.8	90	0.62	0.1	0.13	24.2	49.8	539	0.81	139	12.9	0.16	0.8	0.051	6.6	23	1065	0.49	3.6	166	140	8.2	13.7	0.001	0.34	36.4	1	0.6	75.9	0.25	0.28	2.38	0.18	0.7	205	0.3	11	104	29.1
VA-0159	0.06	18.8	180	0.72	0.11	0.09	25.8	36.1	384	1.37	91.8	12.7	0.18	1.2	0.044	9.9	19	1130	0.71	5.4	124.5	210	9.3	26.2	0.001	0.21	25.4	1	0.8	91.8	0.37	0.14	2.65	0.25	0.8	156	0.4	11.1	81	40.7
VA-0160	0.32	241	260	1.1	0.14	0.37	70.5	35.3	236	3.82	199	10.75	0.2	1.5	0.054	27.1	18.9	628	0.54	6.1	86.5	570	12.8	57.9	0.001	0.53	22.7	2	0.9	96.6	0.42	0.23	6.11	0.31	1.6	99	0.5	21.3	51	50.2
VA-0164	0.06	18.4	230	0.9	0.14	0.1	24.6	23.2	336	1.91	87.5	14.15	0.16	1.2	0.051	9.4	20.5	626	0.63	6.4	95	240	11.2	52	0.001	0.17	24.6	2	1.1	88.8	0.42	0.23	2.35	0.29	0.8	159	0.5	10.1	81	44.1
VA-0165	0.05	14.2	130	0.59	0.1	0.1	16.15	26.1	417	1.11	96.7	12.2	0.16	1	0.049	7.3	19	672	0.56	4.8	120.5	190	7.2	23.9	0.001	0.2	31.1	2	0.7	90.1	0.35	0.19	1.79	0.18	0.7	168	0.4	10.3	76	38
VA-0166	0.08	14.7	150	0.78	0.09	0.1	22.2	40.1	497	2	275	12.5	0.19	1.1	0.047	10	22.9	968	0.64	4.3	175.5	360	6.3	24.3	0.001	0.37	33.8	3	0.7	87.8	0.29	0.11	2.93	0.22	0.9	177	0.4	13.5	86	38.3
VA-0167	0.24	18.6	170	0.74	0.13	0.11	18.1	25.2	412	1.48	124.5	13.25	0.17	1.2	0.053	8.3	16.6	602	0.69	6.6	98.6	270	10.2	43.9	0.001	0.17	26.6	2	0.9	82.4	0.46	0.2	2.53	0.27	0.8	165	0.4	8.6	87	40
VA-0168	0.12	15	150	0.84	0.1	0.1	19.8	30.8	534	1.37	124	12.7	0.19	1	0.054	7.7	22.1	679	0.58	4.7	130	400	7.6	33.8	0.003	0.13	29.5	3	0.8	70.2	0.33	0.14	2.44	0.22	0.8	169	0.5	9.5	91	33.1
VA-0169	0.06	11.9	180	0.83	0.11	0.07	22.8	28	432	1.22	142.5	13.45	0.18	1.4	0.049	9.1	19.8	727	0.66	5.8	121	200	8.4	25.3	0.003	0.19	27.5	2	0.9	93.8	0.4	0.1	2.26	0.25	0.9	161	0.5	11.5	81	46.8
VA-0170	0.08	17.2	230	0.92	0.1	0.13	31.1	17.4	320	1.63	91.7	12.8	0.2	1.5	0.05	14.2	15.2	487	0.7	6.4	71.9	350	9.4	50.8	0.001	0.12	21.8	2	1	91.9	0.42	0.12	3.35	0.28	1.1	127	0.4	12.5	60	53
VA-0171	0.17	16.3	240	0.94	0.12	0.07	27.7	13.4	269	1.89	55.9	12.7	0.18	1.7	0.05	13.5	14.8	382	0.8	7	55.3	390	11.2	52.7	0.001	0.08	18.2	2	1.1	90.6	0.47	0.07	3.12	0.34	1.2	109	0.4	12.4	50	59.1
VA-0172	0.11	23.4	210	0.9	0.1	0.11	26.8	25.4	376	1.33	72	11.55	0.21	1.3	0.048	12.3	16.4	590	0.9	6	93.8	340	10.1	46.8	0.001	0.1	23	2	0.9	86.6	0.41	0.08	3.22	0.29	1.1	127	0.4	11.9	55	45
VA-0173	0.6	28.8	170	0.93	0.09	0.14	17.9	27.8	478	1.36	85.1	13	0.2	1.2	0.055	7.3	23.3	580	1.06	5.6	121	370	8.9	29	0.001	0.16	26.7	2	0.9	70.3	0.38	0.09	2.41	0.29	1	166	0.4	10.6	78	43.6
VA-0174	0.03	7.6	190	0.54	0.11	0.03	25.2	5.3	80	1.6	2.9	15.75	0.19	1.9	0.03	11.5	4	254	0.25	7.2	17.3	140	10.4	44.7	0.001	0.23	16.4	2	1.4	87.9	0.47	0.06	2.38	0.28	0.8	106	0.6	6	18	69.5
VA-0175	0.56	71.2	160	0.89	0.14	0.24	27.1	30.9	360	1.09	113.5	10.15	0.2	1.2	0.055	11	16.2	514	2.17	6.9	156	350	16.8	36.5	0.001	0.3	24	3	0.8	76.4	0.48	0.17	3.73	0.26	1.5	122	0.4	16.8	92	39.5
VA-0176	0.08	15.8	180	0.87	0.12	0.05	16.65	15.1	357	1.46	39.1	13.6	0.19	1.3	0.045	8	18	444	1.02	7	89.2	340	8.7	39.5	0.001	0.09	25.1	2	1	76.6	0.46	0.07	2.23	0.29	1.2	153	0.5	12.5	64	47
VA-0177	0.08	10.2	260	1.1	0.09	0.08	27.2	22	280	1.89	102	14.65	0.13	1.3	0.05	13	18.8	575	0.35	7	79.5	400	8.2	62.4	0.002	0.22	24.5	3	1.2	85.1	0.45	0.06	3.08	0.32	1	130	0.5	12.4	58	44.4
VA-0178	0.08	14.3	230	0.88	0.13	0.11	29.7	19.6	250	1.71	106.5	14.3	0.15	1.4	0.056	13.6	19.7	486	0.42	7.8	51.8	230	10	53.8	0.001	0.19	19.9	3	1.2	99	0.52	0.11	2.69	0.27	1	136	0.4	11.5	76	51.4
VA-0179	0.06	13	150	0.86	0.11	0.1	13.6	31	515	1.42	253	15.2	0.12	1.1	0.055	5.8	27.3	790	0.45	5.7	145.5	190	7.9	23.3	0.001	0.21	31.3	2	1	77.4	0.37	0.13	1.6	0.22	0.7	196	0.5	9.4	107	40.9
VA-0180	0.1	15.6	330	1.2	0.13	0.19	63.3	27.1	207	2.49	185.5	14	0.19	1.9	0.052	25.3	18	902	0.31	8.3	76.8	390	12.8	74.6	0.001	0.31	21.2	2	1.3	108.5	0.54	0.12	6.16	0.41	1.5	109	0.5	19	93	60.3
VA-0184	0.08	18.4	240	0.88	0.1	0.14	35.4	36.3	299	1.98	60.3	13.25	0.1	1.7	0.046	13.6	17.7	1045	0.38	7.1	85.3	290	11.4	61.2	0.001	0.24	23.7	1	1.1	107.5	0.45	0.08	3.46	0.29	1.1	134	0.4	14.2	110	55.3
VA-0185	0.1	15.6	270	1.08	0.12	0.11	45.3	38.1	289	2.22	96.1	13.95	0.15	1.6	0.05	17.7	18.4	995	0.37	7.7	91.1	280	11	63.6	0.001	0.25	22.8	1	1.2	113.5	0.49	0.11	4.84	0.34	1.3	126	0.5	16.8	65	56.2
VA-0186	0.04	14.8	320	1.38	0.11	0.1	50.3	31.5	272	2.31	153	15.35	0.18	1.7	0.052	18.9	22.2	825	0.25	8.4	101.5	300	11.4	70.8	0.001	0.27	23.6	2	1.3	97.5	0.53	0.19	5.31	0.4	1.1	135	0.5	14.1	76	58.5
VA-0187	0.08	21.7	190	0.89	0.12	0.14	43.2	44.3	412	1.58	253	13.75	0.11	1.5	0.058	14.6	20.9	999	0.43	6.8	145.5	220	10.8	39.8	0.001	0.28	30.5	2	1	95.6	0.46	0.16	4.14	0.29	1.1	159	0.4	15.5	80	49.5
VA-0188	0.13	19.6	220	1.12	0.12	0.22	41.2	69.6	449	1.95	1245	16.05	0.15	1.7	0.057	13.4	26.9	1020	0.78	7.5	172.5	350	10.8	33.7	0.002	0.29	31.1	2	1.2	95.8	0.49	0.08	3.85	0.29	1.2	176	0.6	17.5	104	58.2
VA-0189	0.06	10.4	270	1.18	0.1	0.15	48	34.9	304	2.12	292	14.35	0.13	1.6	0.054	15.6	22	1265	0.2	7.8	111.5	390	9.8	60.3	0.001	0.22	27.5	2	1.2	89.6	0.54	0.1	4.22	0.33	1	145	0.5	15.6	91	54.2
VA-0190	0.05	3.9	360	1.54	0.1	0.07	50.1	13.2	106	1.68	238	13.6	0.17	1.9	0.051	22.7	12.8	454	0.23	10.6	38.9	510	11.8	71.7	0.001	0.15	16.1	1	1.4	150	0.66	0.025	4.9	0.34	1.5	87	0.4	20.1	50	64.6
VA-0191	0.09	13.5	240	0.9	0.13	0.1	27.3	13.3	207	1.97	41.2	14.75	0.13	1.5	0.066	12.6	13.5	397	0.32	9.1	39.2	330	12.6	66.1	0.001	0.2	19.1	1	1.3	94.6	0.54	0.16	3.06	0.32	1	132	0.4	9.6	65	56.8
VA-0192	0.09	20	310	1.35	0.14	0.09	49.8	29.3	208	2.05	272	15.3	0.16	1.9	0.061	17.4	19.6	783	0.52	9.8	66.9	270	16.2	75.7	0.002	0.24	20.8	1	1.4	114	0.61	0.1	4.69	0.37	1.5	116	0.5	18.4	62	62.1
VA-0193	0.03	0.7	440	0.91	0.1	0.02	32.3	2.4	31	2.06	3.7	12.85	0.14	2.3	0.03	14.9	4.6	158	0.06	9.7	5	110	16.4	73.7	0.001	0.12	7	1	1.5	78.9	0.62	0.025	3.21	0.4	1	63	0.5	6.1	13	79.2
VA-0194	0.19	35	180	0.88	0.15	0.15	34.5	39.3	341	1.88	274	12.5	0.11	1.3	0.064	12	20	1085	0.67	6.3	120	370	10.5	44.6	0.002	0.32	26.2	4	0.9	96.9	0.42	0.12	3.33	0.25	1.1	131	0.4	14.7	109	46
VA-0195	0.1	28.9	250	0.93	0.13	0.21	35.7	44.9	341	1.3	334	12.4	0.14	1.3	0.056	14.7	16.4	1170	0.41	5.6	128	280	11.3	32.5	0.001	0.37	32.7	2	0.8	96.8	0.38	0.21	3.97	0.23	1.1	150	0.4	17	70	43
VA-0196	0.11	6	340	1.1	0.11	0.08	39.6	21.6	186	2.45	44	14.1	0.16	1.7	0.046	16.3	15	916	0.3	8.6	47.2	230	11.4	87.9	0.001	0.18	18.5	2	1.3	103	0.53	0.07	4	0.41	1.2	107	0.5	11.5	52	62.5
VA-0197	0.01	0.8	270	0.77	0.11	0.02	23.6	4.2	91	2.1	2.1	15.2	0.09	1.9	0.032	10.8	5.2	213	0.025	8.3	18.4	90	12	66.3	0.001	0.15	14.1	1	1.3	93.9	0.52	0.025	2.36	0.34	0.8	87	0.5	6.6	17	65.5
VA-0198	0.02	0.6	260	0.85	0.1	0.02	27.3	3.9	80	2.43	2.1	13.6	0.12	2	0.036	12.9	5.1	232	0.24	8.9	15	90	12.3	67	0.001	0.19	14.3	1	1.5	90.4	0.56	0.025	2.71	0.36	0.8	92	0.5	6.7	16	74.6
VA-0199	0.06	25.1	220	0.96	0.12	0.17	50.7	48.2	387	1.6	240	14.05	0.09	1.4	0.056	15.8	22.6	1100	0.4	6.8	147.5	270	11.3	38.9	0.001	0.32	30.6	2	1	105	0.44	0.19	4.52	0.27	1.2	162	0.4	17.3	117	48.5
VA-0200	0.06	9.9	360	1.48	0.12	0.1	66.6	22.5	217	2.95	45.1	15.5	0.16	2	0.053	18.8	24.8	521	0.27	9.2	77.4	220	13.8	88.5	0.001	0.15	18.9	1	1.5	105.5	0.56	0.06	5.68	0.45	1.3	111	0.5	14.9	79	66.4
VA-0204	0.28	11.4	240	1	0.11	0.11	21.5	22.4	264	2.1	33.3	17.4	0.11	1.3	0.063	9.3	19.2	620	0.41	7.3	69.4	400	9.8	72.5	0.001	0.2	26.6	1	1.3	96.1	0.46	0.05	2.57	0.29	0.8	172	0.5	9.9	94	44.1
VA-0205	0.06	13	300	1.39	0.1	0.1	75.4	34.4	198	2.28	275	15	0.19	1.9	0.062	23.4	19.5	662	0.7	8.3	66.6	350	11	76.1	0.001	0.18	24.7	1	1.3	108.5	0.53	0.025	5.15	0.37	1.6	118	0.5	26	47	64.3
VA-0206	0.02	1.6	420	1.44	0.1	0.03	34.3	13.5	164	3.37	15	20	0.17	2	0.064	15.9	21	416	0.22	9.9	44.1	100	11.4	114	0.001	0.12	21.3	1	1.9	96.1	0.59	0.025	3.22	0.58	1.1	139	0.7	10.1	59	67.9
VA-0207	0.04	6.3	340	1.38	0.08	0.08	32.3	18	267	2.2	111	16.75	0.17	1.7	0.063	15	24.6	486	0.34	8.7	66.3	290	10.6	62.7	0.001	0.16	24.9	1	1.4	90.7	0.52	0.025	4.6	0.37	1.2	152	0.6	13.4	69	57.6
VA-0208	0.04	3.5	270	1.19	0.1	0.06	30.2	14.5	173	2.5	22.5	17.2	0.17	1.6	0.057	13.9	20.8	416	0.45	8.6	43.2	260	10	68.9	0.001	0.15	22	2	1.5	100.5	0.49	0.025	3.38	0.37	1	151	0.6	11.7	48	56.5
VA-0209	0.03	13.2	430	1.74	0.11	0.08	50.2	23.1	165	2.86	91.7	17.75	0.18	1.9	0.054	22.3	26	620	0.41	9.7	66.1	210	11.6	95.9	0.001	0.16	19.2	1	1.7	88.1	0.57	0.025	7.09	0.58	1.4	126	0.7	14.7	70	67.5
VA-0210	0.07	10.3	330	1.34	0.12	0.1	39.9	12.4	143	2.69	30.4	16.8	0.15	1.8	0.056	17	16.4	439	0.54	9.2	34.3	250	10.6	92.5	0.001	0.13	19.7	1	1.6	97.4	0.55	0.025	4	0.44	1.2	119	0.6	14.8	51	61.7
VA-0211	0.13	8.1	250	1.03	0.12	0.12	25.9	16.1	179	2.12	14.3	17.35	0.14	1.4	0.063	11.8	12.6	607	0.63	8.5	36.4	340	10.2	62.3	0.001	0.17	22.2	1	1.4	106	0.51	0.08	3.2	0.31	1	159	0.5	14.1	58	51.4
VA-0212	0.04	2.5	410	1.34	0.12	0.04	33.7	11.7	125	2.77	44.2	16.75	0.12	1.8	0.056	15.8	19	403	0.57	9.1	36.1	160	10.4	94.2	0.001	0.15	16.3	1	1.7	100.5	0.64	0.025	3.57	0.47	1.2	117	0.7	11.8	50	61.9
VA-0213	0.04	1.3	380	1.1	0.1	0.02	30.6	6.7	123	2.22	7	15.3	0.12	1.9	0.048	14	10.6	293	0.31	8.9	24.9	210	12.9	83	0.001	0.17	14.8	1	1.5	99.5	0.61	0.025	3.56	0.4	1.2	117	0.6	9.6	28	65.1
VA-0214	0.03	6.8	660	2.36	0.14	0.06	39.6	33.2	412	3.19	88	28.4	0.2	2.9	0.094	16.2	43.3	914	0.36	13.2	126	480	15	58	0.001	0.23	28.4	1	2.5	152	0.88	0.025	5.11	0.76	1.8	245	1.1	16.4	130	98.7
VA-0215	0.04	2.7	280	0.92	0.08	0.04	17.9	19.8	296	1.82	9.9	18.4	0.09	1.5	0.056	7.8	18.9	579	1.4	7	81.4	130	8.4	40.8	0.001	0.15	24.1	1	1.5	92.5	0.48	0.025	1.77	0.33	0.8	192	0.6	10.1	78	50.3
VA-0216	0.21	5.9	270	0.93	0.08	0.08	22.8	10.8	165	1.68	23.9	13.35	0.12	1.4	0.054	10.2	13.6	379	0.52	6.3	32.8	300	7.8	60	0.001	0.17	16.6	1	1.1	88.1	0.43	0.025	2.81	0.27	0.9	133	0.4	8.8	54	46.1
VA-0217	0.1	20.2	250	1.2	0.13	0.11	91.2	20.7	256	1.88	78.8	13.75	0.14	1.3	0.057	31.3	18.6	523	1.04	6.2	75.1	540	10.8	51.7	0.001	0.28	22.9	1	1.1	93.4	0.43	0.1	4.29	0.3	1.6	140	0.5	22.3	65	44.4
VA-0218	0.17	4.6	410	1.32	0.1	0.09	71.9	11.2	65	2.04	87.6	12.95	0.15	1.8	0.053	23.9	15.3	384	0.44	8.9	29.1	320	11	84.9	0.001	0.13	11.4	1	1.3	104	0.58	0.025	5.66	0.39	1.7	69	0.4	18.9	41	62.9
VA-0219	0.12	21.7	110	0.6	0.1	0.12	12.2	24.9	309	0.8	64.9	11.7	0.06	0.7	0.062	5	16.8	542	0.97	3.8	90.2	220	9.4	20.3	0.001	0.33	23.4	1	0.7	111.5	0.27	0.13	1.72	0.14	0.9	149	0.8	9.9	85	25.5
VA-0220	0.18	7.5	290	1.12	0.09	0.09	45.6	17.8	194	1.54	37	12.6	0.09	1.4	0.061	12.2	18.4	501	0.35	7	52.8	320	10.4	54.9	0.001	0.17	18.2	1	1.1	88.3	0.52	0.025	4.14	0.28	1.4	126	0.5	12	63	45.1

Sample ID	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mn	Mo	Nb	Ni	P	Pb	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U	V	W	Y	Zn	Zr
VA-0224	0.03	3.8	340	1.04	0.11	0.04	33.2	12.4	157	2.04	14.6	15	0.11	2	0.049	14.4	13.4	435	0.58	8.3	39.7	140	9.6	70.4	0.001	0.13	17	0.5	1.4	118.5	0.55	0.025	3.24	0.34	1.3	123	0.5	13.8	48	63.1
VA-0225	0.07	4.1	290	0.82	0.12	0.07	23.2	15.6	186	1.86	11.9	15.95	0.1	2	0.055	9.7	11.6	586	0.29	7.4	42.4	250	10.8	75.2	0.001	0.21	20.9	1	1.5	89.2	0.49	0.025	2.98	0.33	1	194	0.5	9.3	52	52
VA-0226	0.06	3.3	430	1.51	0.08	0.04	38.5	18.4	244	2.36	54.8	16.85	0.15	1.7	0.051	18.8	26.9	516	0.24	8.1	71.3	430	9.1	81.7	0.001	0.15	19.6	1	1.6	83.1	0.53	0.025	4.97	0.45	1.2	136	0.7	13.8	80	58.8
VA-0227	0.08	5	370	1.32	0.11	0.05	30.8	17	153	2.4	52.9	16.55	0.11	1.6	0.054	13.4	20.7	574	0.61	7.8	46.3	200	9.1	78.8	0.001	0.16	20.5	1	1.5	110	0.51	0.025	3.37	0.38	1.1	143	0.6	11.6	64	53.7
VA-0228	0.06	14.8	270	1.08	0.09	0.07	26.3	20.5	328	2	41.9	16.05	0.11	1.5	0.059	11.2	22.1	561	0.73	6.5	88.9	310	9.8	49.9	0.001	0.17	24.8	1	1.3	91	0.46	0.05	3.42	0.35	1.2	179	0.6	12.8	81	50.3
VA-0229	0.09	34.8	240	1.12	0.13	0.19	66.4	39.7	358	1.82	110	15.5	0.11	1.5	0.067	14.4	24.9	834	2.5	5.7	116	400	11.9	46.4	0.001	0.25	27.3	1	1.2	87.4	0.4	0.07	4.71	0.34	1.5	185	0.6	18.2	89	47.8
VA-0230	0.17	5.1	210	0.85	0.07	0.07	19.65	16	319	1.62	16.4	14.05	0.07	1.3	0.055	8.7	18.2	410	0.51	5	63.5	580	7.8	44.8	0.001	0.14	24.1	1	1	75.1	0.36	0.025	2.61	0.26	1.2	153	0.5	11	66	44.1
VA-0231	0.39	17.9	310	0.87	0.09	0.17	28.1	22.4	300	2.36	36.2	14.3	0.1	1.3	0.052	9.1	17.4	591	0.78	5.9	75.2	320	9.4	61.6	0.001	0.28	25.1	1	1.2	98	0.41	0.025	2.79	0.32	1.1	166	0.5	11.2	70	44.9
VA-0232	0.14	18.2	200	0.73	0.1	0.28	33.2	63.1	620	1.88	56.2	14.6	0.1	1.1	0.052	10.4	18	1350	0.77	4.1	296	410	14.1	49	0.001	0.32	25.2	1	0.9	66.2	0.29	0.025	3.04	0.23	1.1	196	0.5	15.4	124	38.2
VA-0233	0.08	15.8	190	0.68	0.08	0.1	17.7	33.5	498	2.27	16	14.95	0.09	1.3	0.052	6.8	15.7	834	0.51	4.3	155.5	250	6.8	45.5	0.001	0.15	23	1	0.9	74.3	0.31	0.025	1.86	0.23	0.7	204	0.4	8.8	80	41.8
VA-0234	0.09	21.7	230	0.89	0.1	0.15	42.4	31.1	318	1.38	50.8	14.75	0.08	1.3	0.057	8.8	18.6	1100	0.67	5.3	94.7	390	10.8	49.8	0.001	0.31	29	1	1.1	91.9	0.39	0.025	3.29	0.25	1	191	0.5	12.8	164	45.2
VA-0235	0.12	19	290	1.06	0.1	0.19	51.3	31.6	271	1.62	70	14.5	0.1	1.5	0.06	13	19	1205	0.58	6.3	80.6	620	13.6	57.8	0.001	0.25	24.8	1	1.3	90.6	0.43	0.06	4.29	0.3	1.2	162	0.6	15.6	114	48.8
VA-0236	0.07	6.8	390	1.44	0.1	0.08	53.3	21.5	182	2.4	46.6	16.2	0.13	2	0.058	17	20.5	1415	0.51	9	58.8	380	11.2	92.2	0.001	0.17	20	1	1.6	101	0.59	0.025	5.69	0.42	1.4	125	0.6	15	98	66.4
VA-0237	0.13	4.8	320	1.07	0.1	0.1	31	15.6	148	1.82	15	14.95	0.11	1.7	0.066	13	15.8	543	0.36	6.8	41.7	300	9.6	73.7	0.001	0.18	19.6	1	1.7	90.5	0.47	0.025	3.19	0.32	1	157	0.5	13	75	61.3
VA-0238	0.09	4.1	410	1.52	0.11	0.1	58.6	17.4	146	2.59	102.5	16.05	0.15	2.1	0.055	25.8	21.9	641	0.31	9.3	54.7	470	11.2	81.8	0.001	0.15	17.8	1	1.6	109	0.61	0.025	6.76	0.44	2.4	113	0.6	19.1	71	71.4
VA-0239	0.05	4.3	440	1.54	0.1	0.07	58.5	20.1	161	2.45	40	16.55	0.14	2.1	0.059	21.3	22.6	733	0.32	9.6	58.7	410	10.6	84.5	0.001	0.17	20.1	0.5	1.7	104.5	0.61	0.025	6.55	0.45	1.6	127	0.6	16.5	79	71.3
VA-0240	0.16	4.9	160	0.8	0.13	0.11	23.9	18.4	183	1.18	32.7	16.1	0.08	1.4	0.083	7.6	11.7	518	0.9	5	50.4	240	10	35.1	0.001	0.16	21.5	1	1.1	52.3	0.34	0.08	2.44	0.19	0.9	171	0.4	9.1	61	46.1
VA-0244	0.16	8.6	360	1.18	0.11	0.4	48.2	19.6	116	2.05	66.4	13.85	0.11	2	0.059	21.7	17.2	857	0.66	7.9	52.4	360	11.6	76.4	0.001	0.19	20	1	1.4	112.5	0.55	0.025	4.86	0.34	1.7	118	0.4	20.3	196	72.1
VA-0245	0.12	32.6	120	0.57	0.12	0.18	20.7	42.6	240	0.96	145.5	12.3	0.06	1	0.08	6.3	12.5	1075	0.9	3.3	90	390	8.5	24.4	0.001	0.2	26.4	1	0.8	67.8	0.24	0.09	1.9	0.15	0.7	171	0.3	13.1	231	34.2
VA-0246	0.07	31.8	140	0.65	0.07	0.11	25.6	36.4	237	1.37	41.5	13	0.08	1.3	0.062	8.8	12.7	889	1.18	3.9	76.6	370	8.6	31.1	0.001	0.22	24.6	1	0.8	68.3	0.28	0.025	2.54	0.18	1	180	0.3	25.1	86	56.2
VA-0247	0.17	59.1	180	0.9	0.12	0.19	26.1	27.2	197	1.51	44.6	15.2	0.06	1.4	0.086	8.9	15.7	1080	1.07	5.3	64.6	380	15.5	48.1	0.002	1.12	28.5	1	1	101	0.37	0.05	2.52	0.27	0.8	176	0.5	14.9	120	42.5
VA-0248	0.39	9.2	290	1.4	0.1	0.07	34	15.8	226	2.03	29.3	15.15	0.06	1.8	0.071	17.1	22.6	463	0.57	7.7	60	600	9.7	63.2	0.002	0.25	24.2	1	1.3	97.3	0.52	0.025	4.31	0.38	1.4	134	0.6	17	62	59.4
VA-0249	0.25	15.6	230	1.24	0.15	0.15	40.2	28.7	289	2.02	65.2	16.35	0.09	1.7	0.089	10.3	25.5	718	0.84	6.4	89.7	520	9.8	56.8	0.002	0.23	28.5	1	1.2	90.7	0.46	0.18	3.98	0.33	1.2	180	0.6	14.8	101	57.4
VA-0250	0.11	36.7	250	1.14	0.16	0.26	48.4	33.3	205	2.32	47.7	15.95	0.09	1.9	0.066	15.9	19	1385	1.41	7	62.7	410	14.5	66.3	0.002	0.47	25.6	1	1.2	118	0.5	0.07	4.37	0.37	1.6	163	0.7	21.4	93	59.4
VA-0251	0.48	15.5	240	0.95	0.13	0.14	19.6	12	147	2	13.4	18	0.09	1.7	0.074	9	13.6	468	0.74	6.4	32.8	280	9.3	71.2	0.002	0.49	26.9	1	1.2	90	0.45	0.09	2.03	0.29	0.9	172	0.6	16.6	79	54.5
VA-0252	1.09	13	260	1.08	0.39	0.3	34.3	29.9	302	1.78	45.9	17.3	0.12	1.4	0.207	8.7	24.9	837	0.69	6	78.7	420	14.4	34.7	0.001	0.27	27	1	1.7	70.1	0.42	0.1	2.79	0.32	0.9	191	0.6	13.3	143	46.4
VA-0253	0.07	6.9	310	1.11	0.15	0.33	33.1	13.8	121	1.9	12.3	16.5	0.14	1.6	0.073	12.8	19.6	462	0.89	7.3	34	390	10.3	63.3	0.001	0.19	20.3	1	1.4	80.9	0.51	0.07	3.47	0.32	1.1	130	0.6	14.8	93	50.7
VA-0254	0.04	5.8	410	1.48	0.11	0.11	49.6	22.8	187	2.5	61	17.35	0.13	2.1	0.06	20.6	22.8	853	0.46	8.7	64.2	250	10.6	63.3	0.001	0.23	21.3	0.5	1.6	94.2	0.58	0.025	5.74	0.48	1.5	146	0.7	18.6	94	65.9
VA-0255	0.03	16.8	220	0.71	0.12	0.08	22.6	19.5	119	1.65	18.4	17.05	0.12	1.3	0.07	8.4	8.9	612	1.58	5.5	25.3	240	8.3	58.2	0.001	0.23	19.7	1	1.1	105.5	0.4	0.07	2.22	0.26	0.8	196	0.4	10.9	39	42.1
VA-0256	0.18	11	250	0.91	0.16	0.36	61.7	103.5	173	2.78	202	14.65	0.15	1.5	0.061	18.1	17.1	4940	2.77	5.8	55.5	770	11.2	58.3	0.003	0.22	25.2	2	1	88.6	0.39	0.08	5.1	0.35	1.8	152	0.5	27.5	103	45.4
VA-0256																																								
VA-0257	0.07	2.4	260	0.79	0.11	0.14	21.6	24.2	174	2.05	11.4	15.7	0.11	1.4	0.057	8.9	14	1230	0.44	5.4	51.2	300	9.1	63.5	0.001	0.2	24.1	1	1.1	129	0.38	0.025	2.12	0.27	0.8	185	0.4	10.6	74	43.1
VA-0258	0.23	12.5	160	0.82	0.08	0.16	15.15	29.1	284	1.34	47.5	14.95	0.12	1	0.074	6.2	21.4	691	0.58	4	85.1	450	6.3	22.7	0.001	0.22	29.4	1	0.9	72.1	0.28	0.07	2.1	0.19	0.7	196	0.4	11.2	120	32
VA-0259	0.29	11.8	130	0.6	0.08	0.1	20.5	21.3	154	1.06	40.6	14	0.12	1	0.062	7.2	12.6	603	0.66	3.9	35.4	340	7	26.6	0.001	0.17	28.3	1	0.8	70	0.29	0.11	1.9	0.16	0.7	182	0.3	13.6	75	32.2
VA-0260	0.11	22.6	150	0.67	0.14	0.2	24.7	40.6	133	1.27	58.3	17.65	0.15	1.1	0.102	7.3	15.2	959	0.77	4.3	36.8	440	9.6	34.5	0.001	0.22	29.8	1	1	46.6	0.3	0.16	2.13	0.18	0.7	245	0.4	14.8	67	33.9
VA-0264	0.36	35.8	320	1.18	0.09	0.43	54.4	20.6	140	2.72	107	15.3	0.13	2	0.063	25.2	17	1085	0.6	7.2	48.4	310	11.7	64.9	0.002	1.38	24.3	0.5	1.3	109.5	0.5	0.025	5.56	0.42	1.7	132	0.6	40.1	101	61
VA-0265	0.09	10.6	200	0.88	0.1	0.19	41.2	27.3	175	1.78	32.9	15.6	0.13	1.7	0.063	17.4	14.6	1345	0.96	6.1	50.5	390	8.3	52.8	0.001	0.19	25.6	0.5	1.1	93.5	0.43	0.07	3.58	0.26	1.3	160	0.5	25	95	54
VA-0266	0.17	8.2	310	1.08	0.11	0.12	40.8	15.2	160	3.21	50.4	14.7	0.14	1.8	0.058	22.8	17.4	562	0.94	7.7	48	660	10.8	72.3	0.001	0.19	23	1	1.3	131.5	0.53	0.025	5.63	0.38	1.8	129	0.5	22.9	82	56.5
VA-0267	0.03	1	250	0.68	0.1	0.08	20.2	4.3	48	2.58	1	14.85	0.08	1.6	0.033	9.3	5	181	0.34	6	10.8	80	10.8	60.9	0.001	0.12	14.5	1	1.1	87.6	0.42	0.05	2.07	0.26	0.6	114	0.4	6	20	50.6
VA-0268	0.11	22.2	240	0.99	0.15	0.22	58	28.1	152	1.71	95.1	15.05	0.14	2	0.064	20.6	14.9	1105	1.02	8.8	51.2	500	14	50.1	0.002	0.3	24.2	1	1.4	125	0.58	0.1	6.2	0.3	2.1	144	0.6	27	75	60.3
VA-0269	0.05	5.2	300	2.03	0.21	0.22	93.5	15.2	71	1.67	59	20.6	0.13	2.3	0.076	20.4	21.2	1285	0.71	17.8	22.3	340	13.8	43.1	0.002	0.15	17.1	1	2.7	410	1.21	0.05	11.45	0.29	2.9	91	0.6	32.4	111	69.8
VA-0270	0.05	7.4	240	0.84	0.11	0.09	27.8	17	134	1.91	39.5	15	0.12	2	0.06	11.4	14	893	0.51	6.6	37.3	420	7.9	52.5	0.001	0.18	24.8	1	1.2	93.5	0.46	0.025	3.39	0.29	1.2	148	0.5	17.4	84	63.2
VA-0271	0.06	5.5	190	0.8	0.06	0.1	26.5	8.6	53	1.53	5.5	17	0.1	1.3	0.08	8.9	12	740	0.45	4.8	15	190	6.9	51.5	0.001	0.17	16.2	0.5	1.1	80.9	0.33	0.025	2.47	0.2	0.7	57	0.6	25.1	93	40.5
VA-0272	0.25	6.9	250	1	0.08	1.01	39.7	22.4	78	2.95	166	14.45	0.15	1.8	0.051	33	15	2120	0.81	5.7	35.1	1290	8.2	48.4	0.005	0.18	36.3	2	1.1	87.8	0.4	0.025	6.84	0.31	2.7	114	0.4	57.3	282	57.2
VA-0273	0.1	18.5	230	0.89	0.17	0.15	36.8	40.3	233	2.41	166	15.6	0.14	1.6	0.06	14.5	17.2	1390	1.51	5.7	75.2	330	8.5	51.7	0.002	0.23	29	1	1	96.8	0.39	0.17	3.79	0.27	1.5	190	0.5	21.8	87	51
VA-0274	0.17	7.5	270	0.93	0.16	0.16	30.5	34.1	144	1.93	83.2	15.05	0.14	1.8	0.083	11.9	13.7	2370	1.94	7	47.7	370	11.7	59.9	0.001	0.2	21.9	2	1.2	93.9	0.48	0.53	3.69	0.3	1	137	0.5	13.8	56	58
VA-0275	0.36	12.5	90	0.46	0.09	0.09	16.75	28.2	163	1.3	43.1	16.95	0.13	1	0.073	5.4	13.6	832	0.44	3.4	48.5	290	7.1	19.8	0.001	0.2	33	1	0.9	51.6	0.25	0.08	1.46	0.16	0.5	273	0.3	14	72	27
VA-0276	0.06	3.3	410	1.5	0.1	0.09	59.1	16.9	116	2.5	23.7	16.4	0.13	2.1	0.058	24	18.4	953	0.58	9.3	42.3	400	10.8	85.9	0.001	0.13	18.6	1	1.5	117	0.62	0.025	6.12	0.43	2	121	0.6	19.8	85	66.8
VA-0277	0.17	11.6	110	0.67	0.05	0.13	24.4	38.9	265	0.89	34.3	16.15	0.13	0.9	0.068	4.7	21.1	971	0.46	2.9	86	360	4.8	13.2	0.001	0.18	35.5	1	0.7	61.3	0.22	0.05	1.97	0.13	0.6	253	0.4	14.4	113	27.8
VA-0278	0.09	3.7	450	1.62	0.1	0.12	60.1	16.8	124	3.01	45.3	16.65	0.14	2.2	0.054	26.2	21.9	721	0.48	9.6	48.1	350	10.9	95.8	0.001	0.17	18.5	1	1.6	112.5	0.64	0.025	7.02	0.5	1.7	110	0.7	19.4	93	67.3
VA-0279	0.02	4	450	1.61	0.09	0.09	56.6	21.4	168	2.57	38.2	17.65	0.14	2	0.058	21.4	23.7	798	0.37	9.1	62.7	350	10.2	90.4	0.002	0.15	21.5	1	1.6	98.4	0.58	0.025	6.52	0.48	1.3	138	0.7	17.6	84	66.2
VA-0280	0.13	24.4	60	0.42	0.21	0.12	33	34.5	142	0.76	408	13.65	0.17	1	0.092	9.1	12.2	871	2.16	2.5	40.7	650	7	11.9	0.002	0.24	37.8	5	0.7	62.8	0.19	0.47	2.95	0.12	1.1	241	0.3	22.9	47	30.7
VA-0284	0.16	18.1	230	0.85	0.14	0.27	51.3	27.5	135	2.28	54.3	15.6	0.13	1.8	0.077	12.1	15.6	1005	1.18	5.9	45.8	450	13.1	48.3	0.001	0.2	22.2	1	1.1	84	0.4	0.11	4.55	0.25	1.3	182	0.5	15.2	99	57.7
VA-0285	0.18	5.9	270	0.98	0.08	0.1	32.7	24.2	160	1.78	35.6	16.55	0.12	1.5	0.068	10.4	19.6	989	0.42	6.4	52.1	330	8.3	54.5	0.002	0.16	25.8	1	1.3	80.4	0.42	0.025	3.4	0.3	0.9	172	0.5	16	111	48.6
VA-0286	0.05	2.3	160	0.58	0.07	0.06	16.15	10.4	101	1.54	10.3	14.6	0.09	1.4	0.047	7.2	9.2	441	0.59	4.7	30.9	180	7.6	39.9	0.001	0.16	18.8	1	0.9	84.1	0.33	0.025	1.56	0.19	0.7	115	0.4	12.6	62	44.8
VA-0287	0.37	4.1	380	0.75	0.07	0.28	18.25	41.9	372	1.12	99.2	13.35	0.16	0.7	0.035	7.3	23.2	1700	1.16	2.5	131.5	320	5.3	12.4	0.002	0.2	16.9	1	0.6	81.7	0.24	0.22	1.42	0.18	0.9	154	1	13.3	139	20.1
VA-0288	0.09	5.7	240	0.99	0.1	0.14	26.3	16.9	183	1.72	32.7	15.4	0.16	1.8	0.069	11.9	17.1	588	0.99	6.5	54.4	540	15.8	43	0.001	0.43	26.8	1	1.1	143	0.49	0.025	3.29	0.32	1.5	162	0.5	17.4	141	57
VA-0289	0.17	116	250	1.05	0.12	0.34	40.5	26.7	267	5.53	94.6	15.8	0.21	1.7	0.066	28.4	24.7	1830	1.46	6.3	114.5	680	17.2	55.9	0.002	0.54	34.8	1	1.1	109.5	0.44	0.07	5.7	0.43	3.7	176	0.6	35.6	166	56.6
VA-0290	0.16	106.5	250	1.06	0.13	0.36	55.3	30.2	195	4.51	68.1	13.65	0.2	1.9	0.058	32.1	19.2	2670	1.66	6.8	111.5	730	15.4	57.1	0.001	0.41	26.7	1	1.1	116	0.48	0.07	5.99	0.35	3.3	133	0.5	32.9	148	65
VA-0291	0.23	3.5	220	0.89	0.08	0.12	23.1	15.8	106	1.54	14.2	14.85	0.15	1.5	0.06	10.8	14.2	495	0.45	5.8	29.1	200	7.4	63	0.001	0.1	25.4	1	1	76.8	0.4	0.025	2.39	0.26	0.8	166	0.4	11.8	75	51.5
VA-0292	0.05	11	280	1.31	0.09	0.09	43.4	20.4	233	1.88	30.5	16.1	0.17	1.8	0.07	13.2	23.4	556	0.62	7.6	67.6	300	9.8	54	0.001	0.14	25.8	1	1.3	93.1	0.53	0.025	4.3	0.34	1.2	149	0.6	17.2	80	59.9
VA-0293	0.09	10.8	260	1.16	0.1	0.1	35.7	16	181	1.8	26.2	15.25	0.15	1.7	0.067	12	20	569	0.99	7	47.1	270	9.7	59.5	0.001	0.15	24.2	1	1.2	87.7	0.48	0.07	4.8	0.34	1.2	127	0.5	15.5	109	55.1
VA-0294	0.37	8.4	190	0.86	0.08	0.13	21.5	16.8	155	1.45	14.6	14.35	0.16	1.6	0.068	9.5	17.6	564	0.84	5.2	39.6	310	7.1	47.3	0.001	0.13	26.7	1	0.9	83.6	0.36	0.06	2.45	0.23	1	138	0.4	14.4	113	48.8

Sample ID	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mn	Mo	Nb	Ni	P	Pb	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U	V	W	Y	Zn	Zr
VA-0295	0.14	10	150	0.71	0.09	0.1	20.6	26.2	132	1.62	31.7	14.8	0.15	1.1	0.076	7.3	17.8	930	0.71	4.2	36.7	390	7.4	44.7	0.001	0.16	30.9	1	0.8	87.7	0.29	0.1	2.21	0.19	0.8	154	0.3	13.2	278	34.3
VA-0296	0.07	5.4	260	1	0.08	0.07	29.6	17.4	202	1.74	17.2	15.15	0.13	1.6	0.056	12.8	17.8	528	0.42	6.4	52.1	420	8.2	62	0.001	0.11	27.4	1	1.1	93.5	0.43	0.025	3.39	0.31	1.1	144	0.5	14.3	88	53.2
VA-0297	0.17	34.4	300	1.2	0.11	0.2	55.1	28.6	224	2.39	83.6	16.1	0.16	1.8	0.064	13.9	22.4	820	0.67	7.3	76.7	200	17.2	62.8	0.001	0.22	26.7	0.5	1.3	95.5	0.49	0.1	5.06	0.48	1.4	156	0.5	15	109	58.4
VA-0298	0.24	12.8	300	1.27	0.13	0.25	50	21.8	202	2.17	79.4	16.1	0.17	1.8	0.066	15.8	23.2	572	0.79	7.5	62.1	210	17.6	70.2	0.001	0.17	24.2	0.5	1.4	87.5	0.5	0.08	4.27	0.59	1.2	149	0.6	14.6	144	60
VA-0299	0.11	6.4	230	1.02	0.09	0.17	25.4	12.1	115	2.06	12.9	15.2	0.17	1.6	0.065	11.4	14.8	344	0.51	6.5	28.4	240	9.8	55.4	0.001	0.11	19	1	1.1	76.4	0.44	0.025	2.68	0.31	1	151	0.4	9.6	94	51.7
VA-0350	0.07	49.7	290	1.14	0.13	0.11	39.4	15.8	197	2.13	22.7	15.7	0.15	1.8	0.061	12.9	16	433	0.69	8.8	40.7	350	12.8	80	0.001	0.14	21.6	0.5	1.4	90.3	0.58	0.08	3.28	0.35	1.2	140	0.6	11.9	70	62.1
VA-0351	0.12	1.7	260	0.94	0.08	0.07	25.3	18.1	112	2.05	5.3	15.45	0.16	1.4	0.059	11.6	18.2	742	0.26	6.2	29.3	430	7.4	75.7	0.001	0.11	25.3	0.5	1.1	112.5	0.41	0.025	2.59	0.27	1	139	0.4	13.2	121	47.6
VA-0352	0.43	7.8	310	1.4	0.1	0.08	29.9	19.5	230	1.9	17	17.2	0.17	1.8	0.072	13.1	24	638	0.46	8.7	63.6	410	10.2	60.8	0.001	0.11	26.3	0.5	1.4	94	0.58	0.025	4.08	0.33	1.2	174	0.6	16	136	59.5
VA-0353	0.15	2.2	370	1.32	0.1	0.11	33.8	11.1	146	2.69	5.3	16.2	0.16	2.1	0.058	15.1	17	399	0.61	9.4	33.3	220	10.8	101	0.001	0.1	19.5	0.5	1.6	107	0.63	0.025	3.55	0.41	1.2	128	0.6	15.4	56	69.6
VA-0358	0.16	15.4	270	1.22	0.07	0.17	39.3	28.8	280	2.11	192.5	16.7	0.18	1.7	0.067	22.9	22.8	659	0.66	8.5	106	700	7.9	48.2	0.001	0.24	39.2	0.5	1.2	86.4	0.49	0.025	4.99	0.35	2.7	198	0.6	22.8	89	57.1
VA-0359	0.3	1.4	30	0.42	0.03	0.08	7.11	2.5	9	0.74	23.2	8.84	0.08	0.6	0.045	3	3.8	114	0.5	1.5	2.8	230	3.2	9.4	0.001	0.11	12.9	0.5	0.3	72.4	0.1	0.025	0.92	0.06	0.5	19	0.1	11.5	52	16
VA-0360	0.32	9.2	300	1.16	0.11	0.28	45.4	28.7	288	2.17	55.7	15.45	0.16	1.7	0.054	18	21	1395	4.78	6.8	75.4	370	9.9	72.6	0.001	0.12	24.7	1	1.1	96	0.45	0.06	4.26	0.4	2	182	0.6	19.6	96	54.8
VA-0364	0.11	8.2	310	1.36	0.11	0.13	38.9	17.7	248	2.19	19.6	14.85	0.16	1.9	0.064	15.4	21.4	468	0.77	8.1	55.2	310	11.3	77.2	0.001	0.13	22.2	1	1.4	93.9	0.54	0.025	4.07	0.36	1.2	124	0.5	13.1	66	62.7
VA-0365	0.22	4.6	300	1.14	0.11	0.09	29.6	12.1	112	2.21	11	15.7	0.14	1.8	0.063	13.4	16.2	322	1.3	7.7	25.2	190	14.6	77.5	0.001	0.12	20.8	1	1.4	107.5	0.5	0.05	3.24	0.37	1.7	125	0.5	14.7	49	60.1
VA-0366	0.33	23.3	260	0.84	0.31	0.1	26.9	8.3	70	1.69	24.8	14.55	0.15	2	0.063	12.6	9.6	366	1.2	7.7	16.4	240	15.4	64.6	0.001	0.25	16.7	1	1.2	90.5	0.51	0.69	2.53	0.41	1	122	0.5	9.5	126	64.2
VA-0367	0.14	9.4	380	1.31	0.13	0.61	49.4	16.4	102	2.56	161.5	15.5	0.19	2.1	0.055	34.6	19.2	895	0.67	8.3	34	580	13.5	94	0.003	0.12	22.4	1	1.4	102.5	0.53	0.06	5.1	0.5	1.8	110	0.6	56	354	69.3
VA-0368	0.19	15.4	380	1.38	0.11	0.5	61.4	21	120	3.09	129.5	14.6	0.2	2.2	0.058	36	17.8	955	0.63	8.8	55.4	520	13.6	88.1	0.002	0.17	28.1	1	1.4	118	0.58	0.025	7.05	0.46	3	106	0.5	41.8	129	71.1
VA-0369	0.18	63.3	280	1.34	0.11	0.26	57	31.4	218	2.32	50.9	15.1	0.16	1.7	0.062	15.4	23.5	563	1.01	7.3	84.4	330	13	70.8	0.001	0.25	25.7	1	1.2	82.9	0.49	0.06	4.71	0.38	1.4	148	0.5	15.8	85	57.5
VA-0370	0.25	30.1	360	1.22	0.11	0.08	40.3	10.9	117	3.42	11.1	15.15	0.16	2.1	0.051	18.1	14.6	361	0.9	9.3	27.2	190	11.3	105	0.001	0.16	16.4	0.5	1.5	93.5	0.59	0.05	3.81	0.48	1.2	108	0.6	10.4	45	71
VA-0371	1.58	50.5	120	0.8	0.08	0.26	24.5	20.6	145	1.3	48.3	14.65	0.16	1.7	0.089	7.9	34.4	505	1.12	3.3	50.1	410	14.8	32.7	0.001	0.25	28.3	1	0.8	47.9	0.23	0.025	2.61	0.61	0.9	135	0.3	9	112	56.6
VA-0372	0.22	7.3	70	0.51	0.09	0.22	4.74	54.1	112	1.31	134	20.5	0.2	1.1	0.102	1.7	35.1	1200	0.38	1.5	48.3	170	6.6	2	0.001	0.22	51.8	1	0.9	21.7	0.13	0.07	0.6	0.17	0.3	461	0.1	2.4	113	36.1
VA-0373	0.14	45.5	220	0.92	0.12	0.4	40.6	34.3	205	2.69	90.2	15.6	0.16	1.5	0.06	15.2	23.8	1450	1.88	5.5	72.8	480	11.4	64.4	0.001	0.3	32.5	1	1	90.8	0.39	0.07	3.86	0.31	2.1	173	0.5	19.1	135	51.8
VA-0374	0.05	12.2	410	1.43	0.1	0.09	51.4	13.6	101	2.93	15.6	15.45	0.15	2.1	0.049	23.4	18.4	389	0.58	9.8	40	340	11.1	92.1	0.001	0.17	15.5	0.5	1.5	117	0.64	0.025	5.48	0.5	1.5	93	0.6	15.7	109	72.3
VA-0375	0.12	46.3	100	0.57	0.09	0.14	9.56	21.9	307	3.95	45.6	15.8	0.16	0.7	0.056	4.3	21.6	625	0.83	2.6	53.8	390	6.7	36.6	0.001	0.4	34.5	1	0.6	54.5	0.19	0.12	1.22	0.18	0.7	247	0.3	5.7	58	24.5
VA-0376	0.03	49.7	240	0.88	0.08	0.06	25.3	20.8	252	5.69	33.3	15.1	0.12	1.5	0.051	12.4	25.5	817	0.95	5.3	67	160	7.5	58.3	0.001	0.16	25.6	1	0.9	75.4	0.36	0.025	2.64	0.38	1	180	0.4	12	66	52.3
VA-0377	0.08	22.3	480	1.68	0.11	0.11	52.1	21.2	206	5.54	26	17.45	0.15	1.9	0.055	25.5	28.8	638	1.92	9.1	82	340	9.9	111.5	0.002	0.27	20.1	1	1.7	99.9	0.59	0.025	6.93	0.58	1.5	117	0.7	16.6	79	64.2
VA-0378	0.15	213	100	0.59	0.09	0.28	29.6	37.3	318	1.03	151.5	10.65	0.14	1	0.055	9.9	16.9	544	1.44	3	113	180	11.6	27	0.001	0.63	32	1	0.5	74	0.22	0.1	2.58	0.22	1	152	0.3	12.2	64	30.7
VA-0379	0.11	24.3	70	0.57	0.1	0.26	15.1	38.9	291	0.96	141	14	0.17	0.6	0.052	5	28.9	597	0.87	2.6	88.3	240	8.8	5.6	0.001	0.26	31.4	1	0.4	76.4	0.19	0.16	1.7	0.21	0.6	213	0.2	7.5	91	20.4
VA-0380	0.15	6.1	360	1.41	0.11	0.09	45.9	16.2	173	2.67	25.3	17.5	0.12	1.7	0.055	17	22.4	436	0.47	8.3	48.5	180	10.5	94.6	0.001	0.18	21.1	1	1.5	87.2	0.54	0.05	4.82	0.46	1.1	140	0.6	10.7	62	59.9
VA-0384	0.08	0.6	90	0.3	0.12	0.11	11.05	13.7	112	0.9	3.1	11.5	0.07	0.8	0.041	5.3	5.9	483	0.16	2.5	22.2	160	16.3	21.9	0.001	0.35	41.7	0.5	0.6	181	0.18	0.025	1	0.12	0.4	167	0.2	7.3	36	25.9
VA-0385	0.11	9.6	270	1.17	0.11	0.23	51.4	13.9	121	2.6	38.5	18.9	0.17	1.9	0.075	21.9	16.6	456	0.53	12	30.5	240	15.6	62.8	0.001	0.22	19.6	1	1.7	95.2	0.74	0.07	4.07	0.3	1.2	159	0.5	19.7	61	63.3
VA-0386	0.11	1.6	30	0.2	0.04	0.2	1.69	44.8	224	0.45	59.3	14.15	0.1	0.4	0.04	0.6	19.8	753	0.26	0.5	74.6	190	8.5	0.9	0.001	0.13	37	1	0.2	31.1	0.05	0.025	0.22	0.04	0.2	231	0.1	2.1	84	10.5
VA-0387	0.09	13	260	0.86	0.13	0.15	28.7	7	85	4.83	4.6	15	0.1	2	0.042	13.2	7.7	286	1	9	22.7	150	13.2	87.3	0.001	0.22	16.5	1	1.4	98.9	0.55	0.05	2.85	0.4	1	121	0.6	9.9	34	70.1
VA-0388	0.09	4.9	120	0.59	0.07	0.08	13.65	17.2	41	3.06	36.2	17.8	0.12	0.9	0.044	5.7	11	460	0.6	3.6	15.8	150	11.4	38.9	0.001	0.17	29.4	1	0.8	66.2	0.27	0.025	1.29	0.18	0.6	242	0.3	8.9	94	33.6
VA-0389	0.06	4.8	410	1.46	0.1	0.08	62	15.8	119	2.51	17	16	0.16	2	0.048	24.4	24.4	393	0.57	9.2	40.8	180	11.4	104.5	0.001	0.17	16.4	0.5	1.5	100.5	0.6	0.025	5.39	0.53	1.4	105	0.5	15.4	59	66
VA-0390	0.09	9.9	300	1.04	0.09	0.15	51.6	27	210	2.53	35.8	13.75	0.13	1.7	0.052	20.1	20	924	0.41	7	65.1	310	9.7	69	0.001	0.19	25.9	1	1	120.5	0.46	0.025	5.5	0.33	1.6	139	0.4	18.7	117	57.1
VA-0391	0.27	9.7	280	1.13	0.11	0.21	53.5	13.4	179	1.97	20.8	15.75	0.15	1.8	0.06	15.2	17.6	384	1.18	9.5	38.5	360	14.4	66.1	0.001	0.19	19.2	1	1.3	89.5	0.59	0.05	5.03	0.32	1.3	130	0.7	12.8	78	63.8
VA-0392	0.09	37.4	140	0.63	0.08	0.18	16.55	41.4	214	1.51	58.7	16	0.13	1	0.05	6.6	18	845	0.82	3.5	57.2	310	7.5	34.5	0.001	0.21	31.8	1	0.6	78.7	0.23	0.06	1.65	0.22	0.8	220	0.3	11	98	31.4
VA-0393	0.11	2.4	140	0.55	0.16	0.15	16.9	34	331	2.25	49.1	12.25	0.13	1.1	0.039	7.2	23.6	1090	0.35	3.5	93.5	200	11	37.6	0.001	0.24	30.3	1	0.7	41.8	0.24	0.5	1.57	0.2	0.5	165	0.2	5.8	67	33.6
VA-0394	0.03	5.1	130	0.55	0.11	0.08	42.7	17.8	140	1.21	43.4	14.65	0.14	1.9	0.065	16.6	16.6	776	0.29	9.4	36.7	150	11.6	25.6	0.001	0.19	35.3	1	1.4	108	0.61	0.13	2.83	0.15	1.2	186	0.3	24.7	89	62.6
VA-0395	0.24	4.5	110	0.56	0.07	0.2	20.7	28.8	112	1.65	66.7	13.45	0.11	1	0.045	9.7	15.8	670	0.49	3.4	38.4	230	7.8	29	0.001	0.16	32.4	1	0.6	71.8	0.24	0.06	1.85	0.15	0.8	168	0.2	15.4	69	30.5
VA-0396	0.4	11	210	0.92	0.14	0.69	44.9	33.2	115	2.69	176.5	12.7	0.13	1.3	0.055	24.4	17.3	1295	0.66	5.4	57	390	16.8	43.2	0.003	0.22	29.1	1	0.9	92.3	0.42	0.14	4.28	0.27	1.6	152	0.4	33.2	437	42.7
VA-0400	0.04	3.6	400	1.56	0.11	0.04	30.6	14.9	196	2.93	19.6	18.15	0.09	1.6	0.053	14.2	22.8	477	0.46	8.6	51.1	360	10.1	105.5	0.001	0.21	22	1	1.6	93.6	0.6	0.025	3.58	0.47	1.1	126	0.7	12	59	53.1
VA-0404	0.07	3.4	260	1.04	0.09	0.05	26.1	23.7	318	2.08	103.5	17.4	0.13	1.5	0.052	12	18.6	627	0.44	6.9	84	200	8.4	82.1	0.001	0.18	28.4	1	1.3	95	0.48	0.025	2.7	0.36	0.9	167	0.6	11.9	69	49.9
VA-0405	0.04	2.7	160	0.6	0.11	0.05	20.5	7	158	1.2	33.6	18.2	0.08	1.7	0.044	9.7	6	279	0.5	6.9	26.2	300	10.6	40.4	0.001	0.25	20.9	1	1.2	95.7	0.46	0.025	2.14	0.2	0.8	158	0.5	7.6	28	56.7
VA-0406	0.09	4.2	190	0.81	0.06	0.08	23	11.6	181	1.65	31	14.6	0.15	1.2	0.051	10.4	12.6	331	2.51	5.7	36.8	380	6.3	62.3	0.001	0.14	21.6	2	1	78	0.39	0.025	2.39	0.26	0.9	158	0.4	14.2	37	40.8
VA-0407	0.01	10.2	490	1.86	0.1	0.04	51.5	27.6	166	3.15	99.6	18.8	0.15	2	0.048	23.4	28.4	706	0.45	9.6	65	230	10.6	111	0.001	0.18	19.4	0.5	1.8	89.9	0.58	0.06	6.51	0.6	1.3	127	0.8	13.8	73	67.7
VA-0408	0.04	2	250	0.99	0.08	0.03	23.7	24.3	118	1.84	101	16.65	0.13	1.3	0.053	10.8	17.7	651	0.43	6.1	51	270	6.7	47.6	0.001	0.17	25.5	1	1.1	133	0.42	0.025	2.61	0.31	0.8	180	0.5	12.4	48	41.8
VA-0409	0.06	6.3	370	1.35	0.12	0.05	42	13.8	140	2.43	26.2	16.45	0.11	1.9	0.052	17.2	18.9	460	0.76	9	39.1	210	10.7	96.9	0.001	0.16	18.6	1	1.6	105.5	0.6	0.025	4.02	0.44	1.2	115	0.6	14	54	63.7
VA-0410	0.07	5.7	380	1.38	0.11	0.05	41.4	22.4	162	2.56	57.3	16.65	0.13	1.7	0.05	16.6	18	721	0.82	7.9	45.6	240	9.4	91.6	0.001	0.18	21.2	1	1.4	107	0.5	0.06	3.95	0.44	1.1	134	0.6	15.3	58	59.7
VA-0411	0.06	3.2	370	1.37	0.08	0.04	36.2	24.8	193	2.55	155	15.85	0.14	1.9	0.047	16.4	21.5	642	1.64	8	60.4	480	7.9	75.8	0.001	0.19	21.2	1	1.3	107.5	0.53	0.025	3.92	0.41	1.2	123	0.6	18	65	62.6
VA-0412	0.03	3.9	290	1.1	0.08	0.04	26.5	14.7	145	2.03	23.5	16.15	0.14	1.5	0.05	11.8	17.4	457	0.42	6.6	37.8	220	8.2	63.3	0.001	0.16	24.2	1	1.2	109.5	0.42	0.025	3.14	0.34	0.8	165	0.5	10.2	53	51.2
VA-0413	0.02	0.6	260	0.76	0.1	0.01	23	2.9	52	2.3	3.5	16.15	0.1	1.8	0.038	10.6	4.6	161	1.42	7.3	7.4	120	10.9	68.7	0.001	0.21	12.3	1	1.4	83	0.48	0.025	2.45	0.37	0.7	105	0.6	7.5	12	61.5
VA-0414	0.03	10	220	1.02	0.07	0.09	21.6	24.8	370	1.62	47.1	15.2	0.14	1.2	0.053	7.8	22	633	0.45	5.2	101	290	7.3	33.5	0.001	0.18	29.4	0.5	1	84.2	0.34	0.05	2.35	0.3	0.8	180	0.6	11.7	83	41.9
VA-0415	0.05	2	250	0.97	0.09	0.05	23	16.2	241	2.3	20.5	19.7	0.13	1.6	0.051	10.4	12.2	499	0.22	6.9	61.7	130	8.7	78.8	0.001	0.17	28	1	1.3	105.5	0.45	0.025	2.25	0.36	0.8	182	0.5	11	50	54.2
VA-0416	0.1	7.3	340	1.28	0.08	0.07	36.8	13.4	183	2.33	26.3	16.2	0.16	1.8	0.049	14.6	17	449	0.54	7.7	46.5	190	9.6	88.7	0.001	0.17	22.1	1	1.3	108	0.51	0.025	3.55	0.39	1.1	142	0.6	12.5	54	63.7
VA-0417	0.16	9.1	260	1.26	0.08	0.11	27.8	21.9	281	1.96	31.8	15.9	0.16	1.5	0.055	11.6	21.5	577	0.45	6.6	79.3	300	8.3	56.8	0.001	0.21	27.9	0.5	1.2	99.6	0.44	0.025	3	0.31	0.9	166	0.6	13.4	83	51.3
VA-0418	0.05	3.2	160	0.57	0.1	0.05	12.05	101	309	1.84	31.3	18.05	0.11	0.9	0.051	4.9	10	3710	0.92	4.3	73.8	190	7.6	32.1	0.001	0.17	34.9	0.5	0.9	105	0.29	0.025	1.22	0.23	0.5	212	0.4	8.6	55	32.3
VA-0419	0.05	7.3	330	1.22	0.09	0.09	42	20.5	209	1.84	64.8	14.85	0.15	1.9	0.048	16.9	17.8	553	0.32	7.5	64.6	230	9.1	61.9	0.001	0.17	23.3	0.5	1.2	119	0.49	0.025	3.89	0.37	1.2	132	0.5	17.5	59	63.6
VA-0420	0.09	7.8	370	1.74	0.09	0.19	43.8	19.8	235	2.75	70.5	17.65	0.15	1.8	0.056	15.7	29.3	482	0.62	8.7	63.1	310	11.6	88.1	0.001	0.18	22.6	1	1.5	83.3	0.53	0.06	5.49	0.49	1.3	138	0.7	14.1	77	61.1
VA-0424	0.04	3.7	440	1.72	0.1	0.06	39.9	14.8	157	3.04	39.3	18.9	0.15	2	0.056	19.5	25.4	416	0.39	9.9	49.1	370	10.7	103.5	0.001	0.16	20.1	1	1.7	96.6	0.58	0.025	3.92	0.53	1.2	126	0.7	13.2	67	67.6
VA-0425	0.06	6.8	260	1.02	0.09	0.06	32.9	22.8	190	1.96	54.1	15.3	0.14	1.6	0.051	12.4	17.9	827	0.74	6.9	46.9	290	8.6	66.2	0.001	0.16	23.7	1	1.1	104.5	0.44	0.05	2.8	0.31	0.9	145	0.5	14.2	54	56.3
VA-0426	0.59	32.6	370	1.54	0.1	0.12	26.6	23.9	228	2.49	34	16.55	0.17	1.6	0.055	11.2	27.2	506	0.65	8.1	68	330	10.8	77.5	0.001	0.2	22.4	1	1.4	78.7	0.49	0.05	3.76	0.44	1.1	132	0.7	10.1	101	56.3

Sample ID	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mn	Mo	Nb	Ni	P	Pb	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U	V	W	Y	Zn	Zr
VA-0427	0.11	18	350	1.39	0.12	0.08	40.9	19.5	233	2.23	47.4	17.25	0.16	2.1	0.056	19.8	20.9	479	1.43	8.8	65.2	360	13	75.1	0.001	0.23	25.5	1	1.4	125	0.57	0.05	4.49	0.45	1.6	153	0.6	19.7	77	70.7
VA-0428	0.17	9.2	400	1.36	0.09	0.06	45.2	13.4	139	2.23	81.5	14.6	0.15	2.1	0.05	20.9	17.4	427	0.56	8.9	46.9	230	10.8	80.6	0.001	0.25	17.9	1	1.3	126	0.59	0.025	6.05	0.48	1.5	103	0.6	17.3	59	69.4
VA-0429	0.16	23.6	150	0.93	0.09	0.08	20.3	25.7	403	1.5	83.2	14.45	0.14	1.2	0.06	8.8	20.9	516	1.16	4.9	99.2	610	8.6	31.6	0.001	0.24	31.8	1	0.9	81.6	0.33	0.06	3.28	0.25	1.1	170	0.5	14.1	75	40
VA-0430	0.05	21.3	270	1.26	0.09	0.09	43	35.5	316	1.79	123	16.85	0.16	1.8	0.058	15.2	22.3	1060	0.7	6.7	112	350	10.2	43.5	0.001	0.32	32.9	0.5	1.2	102	0.43	0.025	4.91	0.37	1.3	194	0.6	21.6	92	63.2
VA-0431	0.08	26.3	280	1.28	0.08	0.13	32.6	32	270	1.88	75.3	17.4	0.15	1.6	0.064	13.2	22.1	873	0.56	6.3	96.2	370	11.6	41.8	0.001	0.49	31.6	1	1.2	101	0.4	0.025	4.09	0.4	1.1	194	0.6	18.4	97	55.1
VA-0432	0.14	53.1	240	0.97	0.09	0.14	37.2	28.6	248	1.81	86.3	14.05	0.14	1.6	0.054	13	15.9	888	1.16	6.5	71.6	340	15.6	52.2	0.001	1.5	25.9	0.5	1.1	100.5	0.41	0.06	3.82	0.37	1.1	153	0.5	17.2	98	54.4
VA-0433	0.19	12.6	300	1.26	0.12	0.49	52.8	57.5	199	2.64	601	15.25	0.16	1.8	0.062	23.2	18	1270	0.8	6.7	65.1	500	10.9	64.7	0.001	0.22	24.8	1	1.1	110.5	0.43	0.08	5.25	0.4	1.4	132	0.5	28.1	177	59.2
VA-0434	0.13	41	120	0.6	0.06	0.19	23	29.9	205	1.34	49.3	14.05	0.13	1.2	0.064	6.8	13.4	796	0.58	3.6	69.1	310	10.4	25.4	0.001	0.22	28.4	1	0.7	64.5	0.23	0.06	1.98	0.16	0.6	200	0.3	13.5	73	39.1
VA-0435	0.14	6.3	350	1.42	0.1	0.13	50.6	19.9	164	2.2	51.9	15.8	0.16	1.9	0.066	14.6	23.3	553	0.48	7.9	51.3	360	10.6	75.8	0.001	0.18	21.4	0.5	1.3	90.4	0.5	0.025	4.45	0.37	1.1	125	0.6	12.5	68	61.7
VA-0436	0.09	3.6	300	1.1	0.11	0.15	37.7	20.8	191	1.74	32.6	15.75	0.15	1.7	0.057	12.6	19	850	0.31	6.7	59.3	280	8.1	76.6	0.001	0.16	25.3	1	1.1	83.1	0.42	0.06	3.33	0.31	0.9	145	0.5	10.9	134	59.1
VA-0437	0.21	3.4	190	0.88	0.1	0.11	27.2	32.6	246	1.16	46.5	15.4	0.13	1.3	0.063	7.3	14.4	1225	0.89	5.1	80	310	11.9	34.5	0.001	0.52	29.2	1	0.8	57.5	0.33	0.05	2.72	0.2	0.7	188	0.4	7.8	84	46
VA-0438	0.1	8.7	230	1.34	0.07	0.13	40.7	47.6	166	1.41	438	12.25	0.15	1.2	0.053	17.5	20	723	1.06	5	89.3	770	6.9	41.1	0.001	0.34	27.2	1	0.9	73.1	0.33	0.1	4.18	0.26	1	132	0.5	21.8	54	40.2
VA-0439	0.11	18	70	0.55	0.08	0.13	21.7	33.8	252	1.12	98.1	11.8	0.13	0.9	0.066	6.4	13.2	637	0.95	2.4	74.3	280	5.8	15.4	0.001	0.16	30.8	1	0.5	48.3	0.17	0.05	1.72	0.1	0.5	164	0.3	10.4	62	30.1
VA-0440	0.48	33.2	250	1.07	0.08	0.22	40.5	30.5	232	1.65	57.3	14.7	0.16	1.6	0.067	12.2	20.3	696	0.73	6.5	86.9	280	8.5	43.6	0.001	0.15	25.8	1	1	86.9	0.43	0.06	3.89	0.25	0.9	176	0.5	16	124	54.7
VA-0444	0.08	16.2	150	0.7	0.08	0.11	15.8	15.1	161	1.11	24.6	13.35	0.11	1	0.055	6.9	10.2	487	1.32	4.4	45.5	310	8.3	30.5	0.001	0.26	26.9	1	0.8	91.7	0.29	0.07	1.76	0.19	0.7	162	0.4	12.6	71	35.6
VA-0445	0.1	109.5	240	1.05	0.11	0.21	26.7	14.6	198	1.86	14.5	15.35	0.12	1.6	0.053	11.5	14.4	379	1.36	6.8	40.3	440	14.3	55.6	0.001	0.65	22.4	2	1.3	94.1	0.5	0.05	2.81	0.39	1.1	144	0.5	14.8	66	52.7
VA-0446	0.25	44.3	260	1.12	0.09	0.13	28.4	25.1	312	2.25	25.1	16.15	0.15	1.7	0.055	10.8	21.6	586	0.97	6.2	75.6	360	10.8	71.7	0.001	0.61	27	2	1.3	101	0.46	0.025	3.02	0.39	1	164	0.6	13.3	70	57.3
VA-0447	0.05	9.4	200	0.86	0.13	0.13	24	20.2	236	2.01	43.9	15.45	0.15	1.3	0.073	10.1	17	651	0.79	5.1	64.2	190	8.8	47.2	0.001	0.25	26.9	1	1.1	123	0.4	0.33	2.36	0.3	1	167	0.5	13.8	66	43.7
VA-0448	0.11	43.6	280	1.27	0.1	0.15	60.7	28.8	252	2.06	50.3	16.5	0.18	1.8	0.061	13.4	23.4	685	0.94	7.4	80.4	410	12	59.8	0.001	0.4	24	1	1.3	132.5	0.52	0.025	4.79	0.35	1.3	145	0.6	17.8	87	60.3
VA-0449	0.08	6.5	370	1.5	0.1	0.09	55.3	15.4	141	2.34	26	16.45	0.2	2.2	0.05	20.5	21.1	496	0.53	8.6	46.3	390	10.8	83.4	0.001	0.17	19.8	2	1.6	111.5	0.61	0.025	4.87	0.43	1.3	116	0.6	17.9	72	75.1
VA-0450	0.15	9.5	320	1.26	0.1	0.1	46.3	22.2	145	2.37	30.9	16.6	0.19	1.9	0.058	16.8	18.6	674	0.56	7.7	43.6	310	10.8	78.6	0.001	0.22	23.4	2	1.5	100	0.55	0.025	4.35	0.42	1.2	133	0.6	17.8	65	63.9
VA-0451	0.11	5.6	420	1.58	0.13	0.15	54.3	32.5	152	2.89	70.7	17.5	0.2	1.9	0.061	19.4	24	1225	1.38	8.3	60.3	350	11.2	98.9	0.001	0.2	22.5	2	1.6	105.5	0.56	0.025	5.67	0.46	1.3	133	0.6	17.6	114	65
VA-0452	0.05	6.9	170	0.84	0.1	0.1	26.9	25.4	194	1.52	38.2	15.95	0.2	1.3	0.077	9.8	16.6	792	0.66	4.6	62.8	270	8.2	39	0.001	0.2	30.3	2	1	115	0.35	0.06	2.78	0.22	0.9	189	0.4	15	60	40.3
VA-0453	0.15	2.9	240	1.06	0.08	0.08	30	25.1	140	1.88	42.4	16.65	0.2	1.8	0.063	12.4	16.2	687	0.95	5.9	52.4	230	10.6	52.4	0.001	0.12	23.9	2	1.2	66.1	0.42	0.11	3.51	0.31	1.1	161	0.4	10.9	64	58.9
VA-0454	0.03	3.8	230	0.92	0.07	0.08	26.9	25.5	201	1.7	21	15.4	0.19	1.4	0.058	10.9	15.8	914	0.41	5.4	64.1	210	7.1	53.3	0.001	0.16	29	2	1.1	125	0.4	0.025	2.56	0.26	0.8	169	0.4	14.9	65	46.8
VA-0455	0.05	6.4	240	1.01	0.11	0.07	26.7	18.8	198	1.9	16.6	18.45	0.21	1.4	0.079	10.7	15.8	508	0.72	7.5	49.2	320	12.3	60.1	0.001	0.16	25.5	2	1.5	81.6	0.53	0.07	3.12	0.31	1.1	180	0.5	12.8	60	47
VA-0456	0.28	12.4	270	1.14	0.13	0.07	24.4	22.6	130	2.43	34.7	17.55	0.21	1.5	0.074	10	20.1	618	0.64	7.9	35.1	270	11.6	71	0.001	0.19	23.5	2	1.5	81.5	0.56	0.06	2.81	0.34	0.9	169	0.5	12	97	51.8
VA-0457	0.07	9.4	160	0.68	0.07	0.11	21.6	15	108	1.87	7.2	16.05	0.21	1.3	0.075	9	9.6	417	0.65	4.4	26.8	340	7.3	44.6	0.001	0.18	24.3	2	1.1	63.5	0.34	0.025	1.68	0.2	0.7	172	0.3	14.7	40	45.5
VA-0458	0.05	9.9	260	1.02	0.11	0.12	31.6	13.3	147	1.93	18	16.65	0.2	1.8	0.061	12.4	13.1	465	1.06	7.5	32.4	290	10.6	66.3	0.001	0.16	20.7	2	1.4	94.7	0.56	0.07	2.92	0.32	1.1	158	0.5	11.7	62	61.4
VA-0459	0.29	228	190	0.83	0.11	0.16	31.7	20.8	132	1.99	33.9	14.4	0.22	1.5	0.066	15.4	11.4	1065	2.82	5.4	33.1	490	42.4	56.2	0.001	8.6	26.7	2	1.1	117	0.41	0.06	2.69	0.44	1.4	160	0.4	20.3	72	49.5
VA-0460	0.06	11.8	310	1.23	0.12	0.06	36.5	8.8	133	3.1	8.3	16.05	0.2	2.3	0.059	16	13.8	381	1.26	8.2	35.4	240	11.2	80.8	0.001	0.22	19.1	2	1.6	119.5	0.61	0.025	4.14	0.38	1.4	118	0.5	17.1	45	77.1
VA-0464	0.01	5.7	400	1.5	0.11	0.08	47.7	14.6	131	2.45	16.6	16.65	0.19	2	0.055	19.6	17.9	530	0.65	9.4	37.9	170	12	92.6	0.001	0.14	17.8	1	1.7	118.5	0.66	0.025	4.73	0.45	1.3	121	0.6	16.6	71	69.7
VA-0465	0.06	6.7	280	1.14	0.1	0.13	36.7	9.6	110	1.78	14.6	12.55	0.23	1.7	0.057	16	12.2	323	0.58	7.2	26.8	290	11.4	62.3	0.001	0.16	17.4	2	1.2	107.5	0.54	0.025	4.11	0.32	1.2	102	0.4	14.3	36	57.9
VA-0466	0.05	16.8	230	0.95	0.1	0.68	32.5	20.4	113	1.72	38.8	15	0.21	1.7	0.056	16.8	14.6	1855	1.08	6.6	34.1	360	11.9	55	0.001	0.27	33.9	2	1.1	123.5	0.5	0.06	3.85	0.26	1.3	188	0.5	22	116	56.8
VA-0467	0.43	9.6	280	1.22	0.11	0.2	40.2	21.4	216	2.65	31.8	19.1	0.22	1.9	0.064	10.2	22.3	588	1.04	7.2	59.8	200	12.4	70.7	0.001	0.19	25.6	2	1.4	87.8	0.54	0.05	3.45	0.35	1.1	194	0.6	13.4	73	64.4
VA-0468	0.32	13.4	160	0.82	0.09	0.17	25.2	29.3	189	1.73	61	17.4	0.22	1.5	0.068	5.6	22.6	882	0.54	4.3	65.8	400	8.4	39.2	0.001	0.19	30.1	2	1	71.7	0.33	0.05	1.94	0.21	0.7	228	0.4	10	107	48.5
VA-0469	0.06	23.8	280	1.4	0.13	0.2	61.6	28	291	2.48	52.5	15.8	0.23	2.5	0.06	25	29.7	1270	0.96	6.4	148	470	12.2	43.7	0.001	0.18	24	2	1.4	93.8	0.48	0.07	6.44	0.31	2.4	144	0.6	23.5	126	84.6
VA-0470	0.1	2.6	440	1.68	0.1	0.07	59.6	11.8	74	2.55	11	16.05	0.25	2.4	0.051	26.3	15.6	950	0.54	9.2	24.1	320	11.8	103	0.002	0.12	14.9	2	1.6	120	0.64	0.025	6.47	0.5	1.6	82	0.5	18.1	53	78.5
VA-0471	0.15	18.8	140	0.67	0.1	0.15	20.7	13.7	126	1.32	41.4	16.2	0.25	1.5	0.088	8.1	10.9	542	1.14	4.3	29.5	290	10.6	34.8	0.001	0.16	23.6	2	1	58.1	0.32	0.1	2.17	0.17	0.8	131	0.3	14.7	60	40.3
VA-0472	0.14	26.9	200	0.85	0.08	0.08	24.9	17.8	139	1.48	19.6	12.75	0.22	1.5	0.062	10.3	13.6	472	0.59	6	34	380	8.2	44.1	0.001	0.17	23.8	2	1.1	77.3	0.46	0.025	2.48	0.24	0.8	132	0.4	13.9	40	47.7
VA-0473	0.17	6.9	180	0.83	0.13	0.09	20.6	15.4	110	2.47	25.1	18.55	0.23	1.8	0.062	7.9	17.8	491	1.68	5.1	32.5	170	10.8	42.6	0.001	0.16	23.6	2	1.2	79.6	0.36	0.025	2.41	0.24	1	166	0.5	12.8	68	59.9
VA-0474	0.18	28.9	70	0.66	0.12	0.18	13.95	41.5	236	0.7	259	14.8	0.22	0.9	0.095	4.1	19.2	999	2.36	2.5	81.5	380	6.4	5.3	0.001	0.2	33.8	3	0.6	47	0.19	0.15	1.56	0.11	0.6	237	0.3	12.8	75	27.3
VA-0475	0.07	4.7	270	1.06	0.11	0.06	39.2	21.2	89	2.07	171	13.95	0.23	1.7	0.054	20.2	16.4	480	1.5	6.4	33.4	380	8.6	51.8	0.002	0.14	25	2	1.2	113.5	0.48	0.06	4.29	0.29	1.8	127	0.4	30.1	39	54.6
VA-0476	0.25	7.6	170	0.74	0.08	0.07	25.1	6.7	90	1.62	7.6	14.35	0.23	1.4	0.085	10.4	8.8	389	0.9	5.1	15.3	480	7.9	37.8	0.001	0.12	18	2	1	68.6	0.38	0.05	2.77	0.2	1	92	0.3	16.9	52	46.4
VA-0477	0.12	14.4	170	0.8	0.08	0.16	25.4	29.3	196	1.73	33.9	15.3	0.2	1.4	0.062	8.6	16.8	842	0.69	4.8	55.1	290	7.3	45.9	0.001	0.2	28.2	2	1	88.9	0.37	0.06	2.2	0.23	0.8	175	0.5	15.3	127	46.9
VA-0478	0.31	11.8	240	1.01	0.1	0.13	24.4	18.4	220	2.09	20.2	17.35	0.25	1.7	0.066	10.1	19.8	559	0.5	6.9	52.2	270	9.5	61.2	0.001	0.18	25.4	2	1.3	90.6	0.5	0.05	2.55	0.31	0.9	169	0.5	12.8	99	71.8
VA-0479	0.09	6.1	200	0.88	0.08	0.12	45.2	21.7	119	1.74	89.1	16	0.26	1.7	0.059	19.3	13	1040	0.78	5.9	34.4	240	9.5	56.6	0.001	0.2	25.6	2	1.1	93.7	0.46	0.025	3.09	0.26	1.6	154	0.4	28.9	56	57.2
VA-0480	0.42	56.1	210	0.95	0.12	0.44	40.3	27.3	156	1.5	61.9	13.25	0.17	1.7	0.061	14.3	15	1155	2.21	6.9	50.2	320	22	40.3	0.002	0.94	25.8	2	1.1	128	0.51	0.06	4.32	0.31	1.5	134	0.4	21.3	242	54
VA-0484	0.14	2.7	290	0.88	0.13	0.24	26.6	12.6	115	2.25	20.2	14.35	0.21	1.7	0.05	12.4	11.8	484	1.02	7.2	32.6	460	15.4	61.8	0.001	0.18	19.6	2	1.2	136	0.51	0.06	2.7	0.3	1.1	132	0.4	15	144	55.9
VA-0485	0.05	69.2	280	1.22	0.12	0.2	46.9	31.4	240	5.87	45.6	16.5	0.22	1.8	0.064	18	23.1	1710	1.32	7.3	88.7	580	15	56.7	0.001	0.38	26.2	2	1.3	109.5	0.5	0.06	5.17	0.41	2	165	0.5	24.2	120	59.7
VA-0486	0.11	5	240	0.85	0.11	0.1	25.9	14.8	159	2.02	20.8	14.65	0.22	1.8	0.056	12.2	13	572	0.63	7.1	45.5	360	10	55.3	0.001	0.17	26	2	1.1	108	0.51	0.025	3.06	0.26	1.1	144	0.4	17.8	110	57.7
VA-0487	0.05	4.2	270	1.19	0.09	0.12	33	14.5	175	2.04	9.5	16.55	0.22	1.7	0.061	12.8	19.2	530	0.44	8	40.4	440	10.6	57.7	0.001	0.12	24.5	2	1.4	112.5	0.55	0.025	3.24	0.35	1.1	149	0.5	17.2	66	55.9
VA-0488	0.24	11.5	290	1.2	0.09	0.1	28.8	23.5	257	1.88	24.7	19.6	0.22	1.7	0.077	7.2	29.2	644	0.96	6.5	74.8	380	10.4	42.3	0.001	0.13	30.8	1	1.3	85.9	0.44	0.05	3.06	0.34	1	181	0.7	14.8	140	57.3
VA-0489	0.22	17.6	320	1.48	0.11	0.12	29.9	21	280	2.17	23.2	17.7	0.2	1.8	0.069	12.2	26.3	560	0.67	7.9	80.1	610	12.5	62.9	0.001	0.13	26.2	1	1.5	93.6	0.53	0.06	4.46	0.42	1.2	170	0.6	15.9	119	57.2
VA-0490	0.28	15.4	200	0.97	0.08	0.21	24.8	34.2	371	1.37	59.1	16.25	0.19	1.3	0.063	6	22.7	957	0.57	5.3	106	400	12.3	22.2	0.001	0.21	32.9	2	1	95.6	0.36	0.06	2.48	0.26	0.7	205	0.4	11.1	154	43.2
VA-0491	0.15	13.4	160	0.87	0.09	0.24	34.1	27.9	206	1.22	174.5	12.75	0.22	1.6	0.046	16	21.4	1205	0.66	5.5	106	310	9	33.9	0.002	0.15	24.8	2	0.9	82	0.39	0.08	4.41	0.26	1.5	132	0.4	23.1	150	50.4
VA-0492	0.06	10.8	300	1.19	0.08	0.04	28.2	22.8	245	2.05	38.2	16.35	0.21	1.6	0.055	13.6	21.6	607	0.36	6.8	68.7	490	8.4	48.8	0.002	0.15	27	1	1.2	97.5	0.46	0.025	3.01	0.43	1.1	165	0.5	14.6	97	52.1
VA-0493	0.13	24.5	180	0.92	0.13	0.2	46.5	35.1	269	1.76	65.7	15.55	0.22	1.5	0.07	11.2	18.2	753	1.48	5.7	73.9	300	14.6	40.3	0.001	0.19	29.7	2	1	78	0.38	0.1	3.77	0.48	1.2	183	0.4	16.3	167	51.5
VA-0494	0.6	269	130	0.62	0.13	0.11	16.75	37.2	318	0.97	55.7	10.95	0.19	1.1	0.049	6	13	425	1.6	4.5	138.5	260	7.9	30.1	0.001	0.11	25	2	0.6	40.2	0.29	0.11	2.42	0.32	0.8	147	0.4	6.3	82	36.4
VA-0495	0.55	16.4	300	0.75	0.16	0.77	19.55	62.3	538	1.39	175	13.4	0.21	1.2	0.054	8.1	14.6	2970	4.8	3.2	249	410	11.2	54.7	0.001	0.17	35.6	2	0.7	52.3	0.24	0.23	2.11	0.52	1.3	204	0.6	9.1	117	37.6
VA-0496	0.73	103.5	260	1.02	0.1	0.67	46.6	38.2	222	3.45	55.8	13.25	0.22	1.5	0.051	16.7	23.9	771	2.77	5.5	87.3	510	12.7	56.6	0.001	0.47	25	2	0.9	75.7	0.37	0.025	4.47	0.97	2	159	0.4	16.5	69	48.1
VA-0497	0.23	6.3	350	1.34	0.1	0.1	33.7	16.8	198	2.91	30.5	18.75	0.23	1.8	0.059	12.8	22.5	475	0.48	8.3	51.6	170	10.9	92.3	0.001	0.16	23.2	2	1.6	82.9	0.52	0.025	3.23	0.47	1	162	0.6	10.1	68	61.3
VA-0498	0.46	41.1	180	0.66	0.07	0.4	25.4	29	290	7.94	107.5	15	0.23	1.3	0.057	12.4	24.5	1170	2.23	4	85.5	700	9	44.2	0.002	0.4	33.3	2	0.8	68.5	0.28	0.025	2.43	0.29	4.6	203	0.3	17.5	113	43.9

Sample ID	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mn	Mo	Nb	Ni	P	Pb	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U	V	W	Y	Zn	Zr
VA-0499	0.09	12.6	300	1.11	0.1	0.15	57.7	23	177	2.01	45.4	15.2	0.24	1.7	0.061	17.5	17.4	722	0.98	7.1	55.5	260	12.1	69.9	0.001	0.14	22.9	2	1.2	98.4	0.47	0.07	4.4	0.37	1.3	139	0.5	17.5	114	62.7
VA-0500	0.1	18	210	0.99	0.1	0.14	30.5	26.3	226	1.66	49.4	15.2	0.22	1.4	0.073	10.6	20.5	663	0.82	5.8	66.8	330	12.2	43.4	0.001	0.2	30.9	2	1	72.1	0.41	0.07	4.62	0.3	1	179	0.4	14.8	94	45.5
VA-0504	0.13	8.4	220	0.98	0.07	0.18	48.3	29.4	196	2.03	27.2	15.55	0.2	1.6	0.066	13.2	21.8	740	0.61	9.3	59.5	310	7.6	48.4	0.001	0.19	28.3	2	1.1	84.7	0.5	0.025	3.57	0.27	0.9	178	0.5	16.1	92	54.4
VA-0505	0.28	11	190	0.85	0.1	0.2	25.7	38	240	2.1	68.8	14.85	0.2	1.4	0.073	8.6	24.7	847	0.56	4.5	77.1	320	19	38.6	0.001	0.16	28.9	2	0.9	58.3	0.3	0.08	2.53	0.22	0.7	184	0.3	9.7	108	44.1
VA-0506	0.86	204	210	1.01	0.09	0.19	22.8	22.3	162	1.93	39.6	17.75	0.2	1.6	0.074	9.7	26.2	541	1.58	5.4	52.5	350	9.8	45.9	0.001	0.17	26.3	2	1	65.4	0.35	0.09	2.75	0.29	0.8	183	0.5	11.6	101	52.2
VA-0507	0.09	22.2	310	1.18	0.09	0.15	36.8	18.9	183	2.56	30.8	16.35	0.22	1.9	0.06	15.4	20.8	431	0.8	7.1	48.6	330	11.4	83.9	0.001	0.38	23.7	2	1.3	86.8	0.47	0.05	3.53	0.41	1	150	0.5	12.9	64	61.1
VA-0508	0.17	22.9	200	0.72	0.07	0.24	23	28.2	200	2.49	69.3	13.9	0.19	1.1	0.065	7.7	24.4	582	0.37	4.7	83.7	290	11.5	41.3	0.001	0.14	32.4	1	0.7	70.3	0.32	0.025	2.08	0.25	0.6	202	0.3	8.6	101	36.4
VA-0509	0.18	4.7	80	0.5	0.06	0.41	13.9	51.2	27	2.94	82	15.6	0.22	0.4	0.044	10.4	19.1	1450	0.41	1.3	19	560	3.9	17	0.002	0.12	41	2	0.4	82.9	0.1	0.06	1.38	0.18	0.8	361	0.1	19	405	11.8
VA-0510	0.17	23	190	0.8	0.11	0.15	25.8	16.2	223	1.78	27.2	15.6	0.23	1.4	0.067	10.5	14.2	387	1.1	7.9	47	360	15.5	38.5	0.001	0.17	22	2	1.1	84.9	0.55	0.06	2.72	0.27	1	170	0.4	11.5	71	43.2
VA-0511	0.18	18.8	150	0.64	0.06	0.17	16.2	21.7	173	1.44	33	14.55	0.21	0.9	0.065	6.2	18.2	615	0.54	3.9	51.2	340	6.6	34.2	0.001	0.14	27	2	0.7	105	0.26	0.06	1.7	0.18	0.7	121	0.3	12.9	105	27.6
VA-0512	0.28	4.8	330	1.16	0.09	0.08	29.7	18.8	191	1.99	8.1	15.75	0.24	1.9	0.058	13.4	17.8	692	0.44	8.5	44.6	490	11	74.4	0.001	0.11	21.2	2	1.4	101.5	0.58	0.025	3.65	0.38	1.1	124	0.5	14	87	63.2
VA-0513	0.23	4	350	1.48	0.12	0.08	34.7	10.2	134	2.28	6.6	17.5	0.26	2.2	0.065	15.2	15.2	401	0.65	11.3	29.9	350	14.2	78.6	0.001	0.11	16.4	2	1.7	111	0.76	0.025	4.81	0.4	1.3	123	0.5	14.3	52	66.8
VA-0514	0.65	4.4	350	1.5	0.09	0.13	22.4	21.4	203	2.34	18.3	19	0.24	1.6	0.063	8.7	28.6	601	0.32	7.9	61.8	250	9.7	52.2	0.001	0.12	25.3	2	1.5	84.1	0.5	0.025	2.62	0.38	0.9	173	0.6	11.6	114	54.6
VA-0515	0.36	4.9	280	1.05	0.1	0.14	43.8	20.3	131	2.05	26.3	16.2	0.2	1.5	0.055	13.5	19.5	561	0.74	6.9	43.8	260	13.8	60.2	0.001	0.18	23.4	1	1.2	97.3	0.46	0.025	4.46	0.41	1.5	162	0.5	14.8	98	54.1
VA-0516	0.33	5.9	270	0.86	0.1	0.09	25.1	14.8	153	1.94	18.8	13.5	0.16	1.4	0.051	11.2	18.6	371	4.88	6.5	37.1	210	8.8	60.8	0.001	0.11	19.4	1	1.1	96.1	0.43	0.06	2.48	0.27	1	144	0.4	10.6	59	51.2
VA-0517	0.1	14.6	270	1.16	0.11	0.13	38.1	19.8	192	2.04	32.7	14.65	0.16	1.4	0.066	14.3	19.4	504	0.77	7.3	51.8	260	13	59.1	0.001	0.16	22.2	1	1.2	88.7	0.47	0.07	4.11	0.34	1.2	138	0.4	14.9	78	50.5
VA-0518	0.11	11	320	1.32	0.09	0.14	37.2	21	225	2.42	41	17.2	0.19	1.5	0.067	14.9	26.2	488	0.65	7.7	72.4	200	9.8	68.5	0.001	0.23	25.9	1	1.4	77.8	0.49	0.025	3.52	0.39	1	167	0.6	12	79	55.7
VA-0519	0.12	55.6	260	1.2	0.09	0.27	37.3	23.5	407	2.31	44.1	15.85	0.16	1.4	0.082	13.3	21.4	468	0.69	7.1	113.5	240	9.1	61.3	0.001	0.24	28	1	1.4	80.9	0.45	0.025	3.27	0.34	1	166	0.5	10.9	78	52.4
VA-0520	0.22	11.7	170	0.68	0.11	0.46	37.2	24.1	105	3.98	38.8	13.1	0.14	1.1	0.062	11.7	17.6	896	1.16	5.1	58.7	400	13.2	44.2	0.001	0.19	24.4	1	0.9	104.5	0.31	0.05	2.49	0.2	1.1	141	0.4	16.6	103	42.2
VA-0524	0.22	0.9	100	0.52	0.05	0.15	7.59	32.8	265	1.04	14.1	15.5	0.09	0.6	0.042	3.2	21.8	900	0.16	2.5	61.7	160	4.8	9.8	0.001	0.28	37.8	0.5	0.5	204	0.2	0.025	0.72	0.12	0.4	236	0.2	7.1	97	18.4
VA-0525	0.26	6	330	1.05	0.1	0.08	29.5	7.8	109	2.41	7.3	14.9	0.15	1.8	0.047	14	13.3	254	0.59	8.3	21.3	180	12.4	77.1	0.001	0.14	14.5	1	1.4	82.4	0.53	0.025	3.03	0.41	1	118	0.5	8.6	38	64.5
VA-0527	0.15	11	260	0.97	0.13	0.09	22.4	17.2	172	2.01	14.4	16.5	0.16	1.5	0.069	10.5	19.7	501	0.59	8.3	46.1	270	10.6	60.9	0.001	0.16	22.2	1	1.3	76.7	0.51	0.06	2.81	0.33	1	151	0.5	12.2	144	54.9
VA-0528	0.17	20.5	250	1.03	0.16	0.27	30.3	31.5	160	2.02	51.4	15.4	0.15	1.4	0.079	11.6	22.1	887	0.88	6.1	51.1	310	14.8	57.5	0.001	0.21	24.7	1	1.1	92.1	0.37	0.2	3.46	0.32	1	169	0.4	13	217	49.6
VA-0529	0.22	24.2	200	0.87	0.11	0.25	54.3	30.6	154	1.75	100.5	11.15	0.13	1.4	0.056	15	19.2	525	1.57	6.2	61.5	420	9.9	41	0.001	0.32	19.2	1	0.9	62.2	0.39	0.05	5.35	0.29	1.5	180	0.4	15.2	233	46.8
VA-0530	0.21	33.9	70	0.49	0.08	0.39	12.45	60.7	1315	1.29	94	10.3	0.11	0.5	0.054	5.3	32	1345	0.66	2.3	310	210	11	18.2	0.001	0.25	35.4	1	0.4	58.6	0.15	0.025	1.5	0.16	0.7	197	0.2	4.6	75	18.6
VA-0531	0.27	18.4	360	1.22	0.1	0.28	52.9	13	75	2.03	22.6	13.55	0.19	2	0.05	21.5	17.8	306	0.91	8.5	28.2	250	16.3	76.9	0.001	0.18	14.1	2	1.3	98.6	0.54	0.025	5.02	0.43	1.7	95	0.5	14.4	45	70.8
Va-0532	0.17	54.7	200	1.02	0.1	0.38	40.4	34	352	1.61	92.7	14.4	0.15	1.2	0.064	11.2	31.2	538	1.24	6.1	110.5	320	12.6	44.4	0.001	0.35	31.6	1	1	83.1	0.38	0.05	3.41	0.27	1	166	0.5	13.4	77	40.7
VA-0533	0.5	38.1	140	0.81	0.15	0.18	14.3	41.5	142	2.29	121.5	17.1	0.17	1.1	0.085	4.5	32.4	877	0.75	2.5	49.8	280	12	34.3	0.001	0.27	39.8	1	0.7	48.3	0.17	0.15	1.78	0.3	0.8	251	0.5	7.4	115	37.1
VA-0534	0.23	23.6	290	1.23	0.2	0.1	28.1	17.2	112	4.14	42.3	17.8	0.17	1.7	0.067	12.6	25.7	540	0.85	6.7	36	170	18	73.5	0.001	0.17	24.6	1	1.4	70.8	0.4	0.1	3.71	0.42	1.3	185	0.7	9.2	80	59.8
VA-0534																																								
VA-0535	0.45	106.5	180	0.95	0.09	0.17	29.2	37.8	544	1.59	66.1	13.95	0.13	1.2	0.058	9.6	26.5	605	1.52	4.7	153	270	12.5	46.1	0.001	0.3	30.3	1	0.9	64.3	0.33	0.07	3.23	0.39	1.1	178	0.5	10.2	84	42.2
VA-0535																																								
VA-0536	0.37	42.9	200	0.85	0.09	0.22	32.9	33.6	390	2.1	84.6	13.65	0.14	1.2	0.053	12.6	27.9	531	1.22	6.1	142.5	210	12.4	43.8	0.001	0.27	24.2	1	0.9	85.7	0.36	0.025	3.29	0.29	1.1	166	0.4	12.7	81	45.5
VA-0536																																								
VA-0537	0.24	30.8	150	0.73	0.09	0.17	19.5	40.4	376	1.46	80.1	13.65	0.12	0.8	0.047	7.8	31.3	744	0.9	3.9	116	250	8	33.3	0.001	0.41	32.6	1	0.7	89	0.26	0.025	2.18	0.22	0.9	198	0.3	8.3	88	28.5
VA-0537																																								
VA-0538	0.09	7.4	370	1.26	0.1	0.12	43.5	19.8	171	3.02	38.5	16.6	0.17	1.7	0.055	16.2	21.3	488	0.47	8.5	51	180	11	92.7	0.001	0.16	19.4	1	1.5	96.4	0.52	0.025	4.19	0.46	1.2	128	0.6	12.1	55	61.2
VA-0539	0.15	9.5	270	1.08	0.1	0.13	46.9	23.6	171	3.32	31	17.15	0.19	1.4	0.062	20	26.4	577	0.67	13	55.6	300	10.2	74.2	0.001	0.31	23.5	0.5	1.4	165.5	0.63	0.025	3.67	0.33	1.1	168	0.5	17.2	70	51.2
VA-0540	0.22	57	70	0.49	0.09	0.29	19.7	45	307	1.61	150	12.6	0.14	0.6	0.065	6.7	26.2	568	0.97	2.7	104	280	10.1	16.4	0.001	0.3	34.2	1	0.5	80.7	0.18	0.12	1.82	0.14	0.7	197	1	11.6	97	23.3