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Mineral Assessment of the Tombstone Study Area, Yukon

D. Héon

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Preface

A mineral resource assessment of the Tombstone Study Area was undertaken by the Department of Economic Development in the summer of 1998 at the request of the Department of Renewable Resources. The purpose of the assessment was to determine the mineral potential of the study area. This information was provided to the Steering Committee to be considered during the process of determining land designation and the location of boundaries for the proposed Tombstone Territorial Park. The Yukon Geological Survey is pleased to release the results of the mineral assessment in this report.

The information is being released as originally prepared and may not conform to current Yukon Geological Survey publication standards. Please note that this report does not include information from any studies that may have been carried out in the area since the mineral assessment was conducted.

Mineral Assessment of the Tombstone Study Area

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YTG-Economic Development
Mineral Resources Branch

Fieldwork summer 1998
Project completed July 1999
Report completed January 2001

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Summary and conclusions

A mineral assessment of the Tombstone Study Area was undertaken by the Department of Economic Development in the summer of 1998 at the request of the Department of Renewable Resources. The purpose of the mineral assessment was to produce a mineral potential map, which was to be used to assist with the finalization of the boundaries of the Tombstone Territorial Park.

Following an initial compilation, a field program was designed to document known mineral occurrences, test and improve the existing regional mapping, investigate geochemical anomalies, characterize favourable environments for mineralization, sample for lithogeochemistry, and prospect for mineralization. A five-week field program by a two-person team resulted in the discovery of several new mineral occurrences, as well as the discovery of previously unmapped geological formations. Fieldwork was followed by a compilation phase that integrated the new information to the existing geoscientific data. The geology of the study area was subdivided into thirteen geological tracts. A panel of five industry and government experts, familiar with the geology, mineral occurrences and mineral deposit types to be found in the area, was convened in June 1999. Based on the final compilation and their expertise, they produced a relative ranking of all the tracts according to their potential to host mineral deposits, from highest potential to lowest. The final ranking was unanimous. They qualified their estimate by emphasizing that, if viewed in a regional context, the whole study area would be considered of high potential, and that the lowest ranking tracts on the map were not of low potential, but simply lowest compared to the other tracts. The result of their ranking is displayed on the accompanying mineral potential map (Appendix 5).

The highest-ranking tracts are those that include, or are near the Cretaceous intrusions (Tombstone, Mount Brenner and smaller intrusions) and have strong potential for intrusion-hosted (Fort-Knox-type, porphyry uranium, skarn) and intrusion-related (skarns, veins, replacement) mineralization. Other tracts demonstrate potential for Wernecke Breccia, shale-hosted nickel sulphide, ultramafic-hosted nickel and listwaenite, Carlin-type, Mississippi-Valley-type or replacement lead-zinc, as well as volcanogenic mineralization.

A public presentation on the geology and the mineralization in the area was given in Dawson City in June of 1999. At that time, the author met with the Steering Committee, further elaborated on the mineral potential and access concerns of the study area, and donated an updated geology map. A copy of the mineral potential map was distributed to the Steering Committee in July of 1999.

A final boundary was adopted in December 2000; it includes land outside of the original study area. This final boundary therefore includes areas that were not assessed in this study.

All our wildlife sightings were documented and were included in the subsequent wildlife survey.

Introduction

In October 1987, the Department of Indian Affairs and Northern Development (DIAND) outlined an area covering the Tombstone valley as a Recreational Reserve. In 1994, the Yukon Territorial Government (YTG) defined an area for the proposed Tombstone Park (roughly equivalent to the Core Area, 1997). Withdrawal orders are signed to ensure the protection of the Tombstone Territorial Park Reservation, for a period ending December 31, 1998. Archer Cathro & Associates (1981) Ltd. agreed to let their mineral claims in the area lapse, without compensation. In August

1997, the map notation was amended and expanded. In October 1997, both the Core Area and Study Area 1 were withdrawn from mineral staking. In September 1998, the Yukon Government, Federal Government and Tr'ondëk Hwech'in First Nation signed the Final Agreement.

A mineral assessment of the Tombstone Study Area was undertaken by the Department of Economic Development in the summer of 1998 at the request of the Department of Renewable Resources. The park proposal was a result of the Tr'ondek Hwech'in Final agreement (1998). The outline of the study area had been defined in the Final Agreement, Chapter 10, Schedule A. It included the following: the Core Area, which was centred around Tombstone Valley and was permanently withdrawn from dispositions slated for Territorial Natural Environment Park designation; Study Area 1, which is located to the north of the Core Area and had been placed under interim protection; and Study Area 2, which had no additional restrictions on land access and which surrounded the Core Area and Study Area 1 (see Figure 1).

Fieldwork was designed to assist the land use planning process. Investigations in the Core Area, which was permanently withdrawn, were undertaken in order to assist in the characterization of mineral occurrences and geological environments outside the core area, where boundaries had not yet been defined. Representative lithogeochemical samples of all formations were taken. Data was compiled from different sources and was displayed at a scale of 1:100 000.

The purpose of this report is to outline the results of the fieldwork and the methodology and conclusions of the mineral assessment process.

Location and access

The Study area is located on map sheet 116 B+C, approximately 70 km northeast of Dawson City, and straddles the Dempster Highway. It includes part of the southern Ogilvie Mountains and part of the Blackstone Uplands. This corresponds to part of the Mackenzie Mountains ecoregion and the North Ogilvie Mountains ecoregion.

Previous Work

A preliminary assessment of the mineral values of the Tombstone area was compiled for YTG in 1994 by Trevor Bremner from DIAND (Open File 1994-2(T)). It consisted of a desktop compilation of an area that was much smaller that the 1998 Study Area. It concluded that the area was of high mineral potential and included suggestions for further work, some of which was carried out in this study.

The area's rich mining heritage has been documented since the turn of the early 1900's. Exploration has taken place throughout the last century and several trenches and drill pads can be located in the area, however, most of the trenches are difficult to locate with the exception of the trenches at the Kiwi occurrence (MINFILE 116B 087).

The Spotted Fawn high grade lead-silver vein occurrence (MINFILE 116B 057) was staked in 1901, was mined on a small scale in 1920, and was explored and developed throughout most of the last century, until land withdrawal. Recent exploration work located tools and workings related to this past producer.

Exploration activity continued in the area throughout the remaining part of the last century. Silver, gold, base metals and coal were reported. Different companies discovered several radioactive uranium showings in the 1970s and early 1980s. Archer Cathro & Associates (1981) Ltd. outlined a low-grade uranium deposit within the Tombstone Batholith. They later graciously relinquished their mineral claims within the core area, which facilitated land claim negotiations and the establishment of the Special Management Area that was later to become the Tombstone Study Area.

The Marn copper-gold skarn deposit (MINFILE 116B 147) is located outside of the Study Area, but is adjacent to the finalized park boundaries. Reserves are outlined at 0.3 million tonnes grading 1% copper. Skarn mineralogy had been noted at the Sumting occurrence (MINFILE 116B 107), but the target at that time was uranium, and the area was not investigated for gold or base metals. It took the prospecting efforts of Canadian United Minerals Ltd. on the Horn claims to discover the high grade gold and copper mineralization associated with a limestone pendant within the Tombstone Batholith.

The KIWI Pb-Zn occurrence had been the site of exploration and trenching in the mid 1970s and 1980s; no recent exploration has been reported there since.

Exploration in the area has been deterred by the planned park proposal. The history of recent exploration therefore is not a reflection of the mineral potential of the area. Intrusive-related gold deposits have been an important exploration target in the Yukon for the past ten years, but were not known when land withdrawals for the area were being planned. This type of deposit has since been mined in Fairbanks, Alaska (Fort Knox deposit), and has received concentrated exploration efforts at Clear Creek, Dublin Gulch, Scheelite Dome and elsewhere. The Tombstone and Mount Brenner batholiths, included in the Study Area, have not been explored for these types of mineral deposits before land was withdrawn from disposition. The age of these intrusions, their geochemistry, and their association with skarn mineralization, all indicate favorable environments for intrusive-hosted gold deposits and other related deposit types. These intrusions and unnamed smaller ones, as well as their country rocks, remain untested for these types of deposits due to current and projected restrictions on access.

At the time of this study, several active exploration projects were under way in the area. Canadian United Minerals Ltd. were exploring their Horn Claims (MINFILE 116B 107). The property was visited twice in the course of the field season, both before and after the first trenching program. Our work helped confirm the high gold grades obtained in that skarn occurrence. Canadian United Minerals Ltd. was also actively exploring on other claim blocks in the Study Area. Hudson Bay Exploration and Development Ltd. was following up on nickel anomalies on their claims. Adjacent to the Study Area, Blackstone Resources Ltd. were also exploring on their Taiga property (REIN claims, MINFILE 116B 128) for shale-hosted nickel-sulphide mineralization. The mineralized stratigraphic horizon projected into the Study Area, in an area of poor outcrop.

The 1956 Geological Survey of Canada (GSC) geological map 1284A (1:250 000), by Green and Roddick, was superceded by recent geological mapping at a 1:50 000 and 1:250 000 scale (Thompson, Open File 2849 (1992); Thompson, Roots and Mustard, Open File 3223 (1995). We were fortunate to have access to such recent and detailed work, it greatly facilitated our project. This work was used in the digital compilation from Gordey and Makepeace (DIAND Open File 1999-1(D)), which we modified and used as base maps for this report.

Part of the study area is covered by a regional aeromagnetic survey (Lowe, C., Kung, R. and Makepeace, A., 1999.).

Land status

As of June 1998, the Study Area was configured as portrayed in Figure 1. This figure also shows the claims in good standing at that time, as well as the two valid crown grants within the Core Area.

Geology

Trevor Bremner's (1994) report summarizes adequately the geology of the Tombstone Study Area. For more details on Selwyn Basin stratigraphy, please see Gordey (1993) and Murphy (1997). A brief summary of the geology of the study area is outlined here, a simplified geology map is found in Figure 2, a detailed geology map is in Appendix 4.

Sedimentary and volcanic rocks of Selwyn Basin underlie most of the Tombstone Study Area. They range from Upper Proterozoic to Lower Cambrian Hyland Group clastic sedimentary rocks to the Jurassic 'lower Schist'. These are divided in three main structural packages that are bounded by southerly dipping thrust faults. These thrust faults young towards the north and are, from south to north, the Robert Service (just south of the Study Area), Tombstone and Dawson thrusts. North of (and structurally below) the Dawson thrust, carbonate rocks of the CDb Formation, part of the Mackenzie platform, surround the Coal Creek Inlier, a window of Proterozoic sedimentary rocks.

Cambrian to Ordovician mafic to felsic volcanic rocks, correlated with the Marmot Formation, occur in the central part of the Study Area, at the base of the Dawson thrust sheet. Structurally higher, in the Tombstone Thrust panel, Keno Hill Quartzite is intruded by, and interfolded with Triassic diorites. Later, post-deformation Cretaceous felsic granites to syenites of the Tombstone Plutonic Suite intruded Selwyn Basin sedimentary rocks and the thrust faults.

An elongate magnetic high is located north of the Tombstone Batholith and south of the Tombstone Thrust and may indicate a buried intrusion (Lowe, C., Kung, R. and Makepeace, A., 1999).

Mineral Occurrences

Figure 3 shows the location of mineral occurrences, both the known MINFILE occurrences and the new mineral occurrences found this summer. Minfile occurrences are summarized in Table 1 and detailed descriptions are found in Appendix 1. Updated and new information is listed below.

Geochemistry

Results of the regional stream sediment geochemistry are displayed in Appendix 3. Fieldwork was targeted to explain the significant anomalies. Not all the geochemical targets were investigated. For example, an interesting multi-element anomaly at the western edge of the Study Area was not visited. Of those investigated, some still remain unexplained.

Significant new results

The 1998 field season yielded the following results; these are summarized in Table 2.

Geology

- The northernmost occurrence of Road River stratigraphy, as previously mapped, is actually interbedded with Earn Group rocks. This has been documented by Blackstone Resources at the Taiga (REIN) property, east of the Study Area, where several thrust faults replicate the stratigraphy. Within the Study Area, the 1998 fieldwork documented Earn Group siliceous shales and chert pebble conglomerate in the footwall of the Dawson thrust (Station 98 DH-153). Outcrop density is low in the area and the exposure could not be mapped along strike.

  The discovery of Earn Group rocks is significant as the mineralization at the nearby Taiga property is thought to be hosted in Earn Group metasedimentary rocks, and other known occurrences of shale-hosted nickel-sulphide mineralization (NICK, Eagle Plains) occur at the boundary between the Road River Formation and the Earn Group. Discovery of Earn Group stratigraphy in contact with rocks of the Road River Formation therefore increases the mineral potential of that belt of rocks, as it becomes prospective for an additional type of mineral deposit. The projection into the Study Area of molybdenum, nickel, antimony and zinc Regional Geochemical Survey (RGS, Hornebrook and Friske, 1988) anomalies, along strike from the Taiga, is a favourable indicator for potential shale-hosted nickel-sulphide mineralization. A silt sample taken below the Earn Group/Road River Formation contact confirms the potential for a Nick-type setting, anomalous values: 15 ppm Cd, 9 ppm Mo, 160 ppm Ni, 162 ppm V and 1520 ppm Zn (sample S98DH-154). Silt sample S98DH-90 andtalus fines sample TF98JvR- 5 highlight another anomalous Earn Group/ Road River Formation contact.

Earn Group chert pebble conglomerate was newly documented east of the Dempster Highway, north of Trapper Mountain (Station JvR98-134, 135).

- Wispy laminated (bioturbated) greenish siltstones of the Gull Lake Formation were documented at two separate localities at the top of (or instead of) the northernmost band of Hyland Group Narchilla Formation (PCH3) (Stations 98 DH-159 and -203).

- A cross-laminated limey sandstone (sandy limestone?) was located at the top of Hyland Group Yusezyu Formation (PCH1). This may be a favorable host for Carlin-type deposits (Station 98 DH-24b).

- Jasper was found as float in the Study Area, possibly related to the Cambro-Ordovician volcanic rocks (?) (Station 98 DH-10, -150). Jasper can be spatially associated with Carlin-type deposits.

- An additional thrust slice (previously unmapped) was documented where Permian maroon and green shales of the Mount Christie Formation was found in the footwall of the Tombstone Thrust (station 98 DH-44). Spectacular shear bands marked the strain zone. These shales are themselves thrust above the Jurassic Lower Schist.

- A crinoid fossil was found in limestone interbedded with Cambro-Ordovician volcanic rocks (COv unit; Station 98 JvR-127). This constrains the age of at least part of the volcanism to Ordovician or younger.

- Plagioclase-phyric volcaniclastic rocks (agglomerates?) were found within or thrusted in Road River stratigraphy. Silt and talus fine samples in the area yielded anomalous results. Additional exposures of Cambro-Ordovician volcanic rocks were documented (COv (?); Station 98 DH-87).

- Conodont age dating of limestone interbedded within Cambro-Ordovician volcanic rocks has not yielded conclusive results.

- At the northern end of the Study Area, in the Coal Creek Inlier, the prospective northern contact of the Proterozoic Quartet Formation was briefly investigated for potential Wernecke-breccia-type mineralization. No visible additional exposures of Wernecke breccia and no additional hematite alteration zones were found along this favourable contact, despite excellent outcrop exposure.

- Chloritoid schist was found within the Keno Hill sequence near the Dempster Highway (98DH-234) where limestone had been previously mapped.

Mineralization

Significant new mineral occurrences are shown on the mineral occurrence map (Fig. 3) and summarized below in Table 2. Assay results are found in Appendix 2.

The fact that new occurrences are still found even after 100 years of exploration is a testimony to the mineral-rich nature of the area. The mineralizing influence of the Tombstone Plutonic Suite is evident within the intrusions (gold-bearing quartz veins, disseminated uranium mineralization), at their contacts with sedimentary host rocks (veins, and gold-copper skarns), as well as more distally as gold-bearing quartz veins or silver-lead galena veins. The gold occurrences have a strong correlation with bismuth, a favourable indicator for Tombstone-style or Tintina gold belt style mineralization. Canadian United Minerals Ltd. discovered a significant gold-copper skarn with economic-grade mineralization at their HORN claims. Preliminary work was ongoing on the property at the time of our study. This occurrence is discussed here, as the MINFILE database had not yet been updated.

Carbonate-altered zones are common in the area and grade in intensity from narrow corridors of carbonate replacement, to intense alteration and vein faults, locally with significant galena (±silver) content. These zones generally strike east-northeast and are subvertical.

The Road River/ Earn Group stratigraphy was investigated for its potential to host shale-hosted nickel sulphide, or Nick-type mineralization. No mineralization was found, but geochemical anomalies were outlined.

Mafic and ultramafic rocks were investigated for their potential to host nickel mineralization. No such mineralization was found.

Skarn

- The discovery of gold mineralization on the **HORN** claims (MINFILE 116B 107) by Canadian United Minerals Ltd. was a very significant one. Skarn mineralogy (garnet-actinolite) had been discovered in the course of a uranium exploration program. Radioactive zones were outlined on the property, but the skarn remained unexplored for gold or base metals. The gold potential of the Tombstone Batholith had so far remained mostly untested. Our first series of samples were taken before the first trenching program. Sample 98DH-1f consisted of subcrop of limonitic skarny material with drusy quartz and actinolite, and graded **179.1 g/t Au (5.2 oz/t)**, 71 ppm Ag, 1640 ppm As, **2940 ppm Bi**, 4340 ppm Pb and 246 ppm Sb. Another sample, 98DH-1g, consisted of rusty sulphide float, cut by veinlets of euhedral pyrite, and graded 125.1 g/t Au. Skarn mineralogy is coarse grained and includes garnet, quartz, diopside, actinolite, epidote and calcite.

  Our second visit to the property occurred after the first phase of trenching was completed. Sampling of the different trenches (samples 98DH-105 to 108) yielded even higher gold grades. Sample 98DH-108 in Trench 2 consisted of drusy quartz, calcite and actinolite with medium to coarse-grained pyrrhotite and chalcopyrite and graded **275.2 g/t Au (8 oz/t), 158 g/t Ag and 1.42% Cu.**

  Dave Tenney and Shawn Ryan provided some of the information on the geological environment and exploration results. Mineralized skarn occurs at the margins of a lens or band of Permian limestone/marble (Takhandit Formation) at the southern margin of a roof pendant of calc-silicate and pelitic hornfels within the Tombstone Batholith. The limestone is approximately 150 m thick, strikes roughly east-west and dips steeply to the north, and has been traced for at least 650 m along strike.

  Skarn mineralogy is found on both contacts of the limestone horizon and is more developed at the southern contact, but the northern (or hanging wall) contact contains higher gold grades (3 to 5 oz/t) and visible gold. Mineralization is thought to dip steeply towards the north. It is generally sub-parallel to bedding but is locally discordant.

Early work was based on the results of a magnetometer survey and was focused on the northern contact. Mineralization consists of pyroxene and pyrrhotite skarn, with local chalcopyrite, bismuthinite and visible gold. A small drilling program using EX core intersected mineralization for the first 60 ft. of one drill hole, as well as visible gold. At the time of the assessment, the most significant results were those of a chip sample in the main trench. The chip sample, taken approximately perpendicular to strike, graded 1.72 oz/t Au over 19.5 ft., including one sample grading 5 oz/t Au. Mineralization was also outlined along the southern contact.

This initial exploration program did not define the size and extent of the mineralization. Potential for mineralization remained open in most directions.

At the western edge of the HORN claims, on ground previously covered by the old TRIX claims, coarse-grained zoned skarn consists of bands of massive garnet, diopside, actinolite, quartz, calcite, fluorite and wollastonite. No sulphides were found associated with the skarn although precious and base metal occurrences are discussed in the assessment reports. The rusty band at the base of the limestone pendant is due to oxidized hornfels, not to skarn. The skarn is below the main limestone lens and is not rusty.

Calc-silicate hornfels grading into poor skarn development was observed north of the Horn occurrence (98JvR-41 to -46).

- Skarn mineralization was found on the back (western) side of the **TRIX** claims. This may not be a new occurrence. This is the extension along strike of the skarn on the main TRIX claims, which is probably, in turn, an extension of the skarn system found at the Horn. A zoned, banded skarn was located at the base of a steeply dipping marble pendant in the Tombstone Batholith. The pendant was mapped as part of the Keno Hill sequence. The skarn zone was outlined for an area approximately 30 m by 100 m. Samples 98DH-66 to -70 were taken at this location. Compositional zoning grades from an outer band of calcite-actinolite-garnet and fluorite, to a band of massive garnet + fluorite, to massive calcite in contact with the batholith. Actinolite and feldspar also occur. A massive sulphide pod, 30 cm by 40 cm, with open space texture, crystalline pyrite, pyrrhotite, chalcopyrite and arsenopyrite, with sludge of very fine-grained sulphide in cavities, was found at the contact with the intrusion; it graded up to **5.12 g/t Au** (see results from massive sulphide pod outlined below). One skarn sample found in float, consisting of massive garnet-calcite-fluorite-actinolite, returned values of 38.5 ppm Be and 250 ppm La (98DH 66e).

Massive sulphide mineralization on the back side of the TRIX claims.

sample	sample type	Au	Ag ppm	As ppm	Bi ppm	Cu ppm	Mo ppm
98DH 66a	o/c	770 ppb Au	9.4	>10000	16	2360	8
98DH 66b	o/c	**5.12 g/t Au**	5.6	>10000	22	983	7
98DH 69	float	**1.22 g/t Au**	20.8	>10000	34	1755	511

- **North Face camp** (due west of the Tombstone Batholith, at the western margin of Study Area 1): No apparent skarning or hornfelsing at Permian limestone/Cretaceous intrusion contact, (98DH-59).

Intrusive-hosted mineralization

The Tombstone Batholith, Mount Brenner Batholith, as well as unnamed and previously unmapped felsic intrusions were prospected for potential intrusive-hosted mineralization.

- The Mount Brenner Batholith was found to host gold-bearing structures in addition to the previously documented uranium mineralization. Within the intrusion, two samples returned significant results. Sample JvR-16 assayed **2.55 g/t Au** in a rusty intrusive with disseminated pyrite (up to 1%) around fractures. Sample 98DH 54a, consisting of a large boulder with rusty fractures containing malachite and azurite in syenite, graded **2.16 g/t Au,** 56 ppm Bi and 3080 ppm Cu. A quartz-arsenopyrite vein at the contact (98JvR-11b) assayed **2.26 g/t Au,** >1% As and 108 ppm Bi. The vein is 0.5 m wide and trends 070°.

- An anomalous value of 360 ppb Au was obtained north of Mount Brenner from an unmapped, altered biotite-feldspar intrusion with disseminated pyrrhotite ± pyrite (sample 98DH-94c).

- Silts draining the Cathedral Mountain cirque are anomalous in As, L, Pb and U.

- The Tombstone Batholith hosts numerous types of mineralization. The most significant gold mineralization was documented by Archer Cathro & Associates (1981) Ltd at the head of the Spotted Fawn Gulch, and was sampled in the course of this study. This is probably the same structure documented at the Hester Minfile occurrence (116B 150). A rusty fault/vein zone hosts druzy quartz and very fine-grained arsenopyrite/scorodite in frothy/sugary quartz. Sample DH-50 graded **6.52 g/t Au,** 128 g/t Ag, 932 ppm Bi and 206 ppm Sb.

  Pyrrhotite mineralization is common near the margins of the intrusion and within metasedimentary inclusions in the batholith. Rusty syenite and quartz monzonite is locally mineralized with pyrite ± pyrrhotite ± chalcopyrite, both disseminated and as stringers. Anomalous assays ranged from 25 to 540 ppb Au, 2 to 104 ppm Bi, 58 to 3080 ppm Cu, 8 to 1375 ppm Pb and 10 to 2340 ppm Zn (see samples 98DH-74, -109, -110b,c and d).

  A feldspathic dyke or vein contained molybdenite rosettes, pyrite and chalcopyrite associated with mafic inclusions, and returned values of 1000 ppm Mo (98 DH-72).

- Galena was found within a Cretaceous sill. The occurrence was named the Lead Belly (98DH-32 and 34). The host rock consists of a rusty brown intrusion (sill) with a fine-grained altered (carbonate?) matrix and bright light green laths (feldspar or hornblende laths? altered to epidote?), with local intense veining and fracturing. Fractures are filled with millimetre- to centimetre-scale quartz-limonite veinlets (up to 1.5 cm thick), and locally filled with fine- to coarse-grained galena (porphyry-style lead). Veinlet density varies: 12 veinlets over 1 m, to 4 veinlets over 8 cm. Most of the mineralization was observed in float. In outcrop, alteration is visible as envelopes radiating from two perpendicular sets of fractures, one set trending at 348°and the other striking at 022°/63 (038°/78). Both sets are rusty. Locally, unaltered intrusive is found in the core of the area defined by fracture patterns. The unaltered intrusive is of granitic to dioritic composition, and contains feldspar and hornblende laths. The highest grade obtained from samples including vein material was **3.94% Pb, 5.88% Zn** and 48 ppm Ag, in outcrop. Mineralization was followed along strike for at least 800 m.

Sediment or volcanic-hosted veins

Carbonate-silica veins and alteration zones, some containing sulphides, are interpreted to be distal manifestations of the mineralizing influence of the Tombstone suite of intrusions.

- The Tak occurrence (MIN FILE 116B 132) was visited during the 1998 field season. The occurrence consists of two types of mineralized veins that have been found in float; efforts by the claim owners to locate the veins in outcrop have been so far unsuccessful. Vein no. 1 contains yellow to dark red, coarse-grained siderite with galena, and up to 10% arsenopyrite clots. Vein no. 2 consists of massive, fine- to medium-grained, locally foliated (strained) galena with malachite. High silver values are associated with the fine-grained galena, while the coarser galena had higher lead values and lower copper values. The claim owners had found float of vein no. 2 very near a steep rock face. Their highest assays graded 295 g/t? Ag, 1.5% Cu and 80% Pb. Our sampling (98DH-29 to 31), yielded grades of up to 1160 ppb Au, 44.6 ppm Ag, 78.3% Pb and 4.52% Zn.

- The Wo Nellie (98DH-23) occurrence was found in float, and then traced in outcrop at two locations. Mineralization occurs within a 5- to 10-cm-wide quartz vein containing, up to 2% galena, and up to 1% chalcopyrite, in pods, stringers, or coarse euhedral crystals. The vein is locally brecciated, is hosted in chloritized grit of the Hyland Group, and strikes and dips 250°/65. It assayed up to 2.7% Pb and 4190 ppm Cu.

- The Burke Zone 2 (98DH 137, 98JvR 63d) is a carbonate-altered zone within an area of felsic volcanic rocks. The occurrence consists of a drusy and banded quartz-siderite-galena vein with 1% galena in or near drusy vugs. 98DH 137assayed **428 g/t Ag**, 248 ppm As, 34 ppm Bi, 69 ppm Cd, 3910 ppm Cu, 2.42% Pb, 3390 ppm Sb and 1880 ppm Zn. Sample 98JvR 63d was similar, measured 70 cm thick, and also contained malachite and azurite. It assayed **1175 g/t Ag,** 4880 ppm Cu, 1.92% Pb and 2490 ppm Sb (note the high antimony content).

- The Eileen zone (98DH 148c) consists of a discordant, carbonate-altered vein-fault zone, 2-3 m wide, in mafic volcanic rocks. Orange-weathering altered volcanic rocks are cut by banded and drusy centimetre-sized quartz veins, which locally contain galena. Galena and sphalerite are also present as blebs in vein selvages. Sphalerite is locally greenish-yellow. Mineralization appears poddy and discontinuous, but the outcrop exposure is also discontinuous. The orientation of veins is on average 060/67. The best assay graded **40.30% Pb, 15.1% Zn, 375 g/t Ag, >500 ppm Cd,** 1280 ppm Cu and 125 g/t Au.

- As mentioned above, a quartz-arsenopyrite vein at the contact of the Mount Brenner Batholith (98JvR-11b) assayed **2.26 g/t Au**, >1% As and 108 ppm Bi. The vein is 0.5 m wide and trends 070°.

Others

- At Hunters camp, a strong, multi-element RGS anomaly remains unexplained. Sheared pelitic hornfels (sample 98DH 101b) assayed 340 ppb Au. Two additional silt samples were collected and have elevated zinc values: sample S98DH-98 contained 1500 ppm Zn, while sample S98JvR 37 contained 7.5 ppm Cd, 311ppm Ni, 180 ppm Pb, 1015 ppm Zn. Listwaenite-type alteration was found at the margin of a mafic dyke (map unit Pd; 98DH-85). An orange weathering, carbonate altered and mafic dyke is veined and altered to fuchsite. No significant metal values were found.

- The BRX showing (MINFILE 116B 110) occurs in the Coal Creek Inlier, just outside the boundary of the Study Area. Massive colloform marcasite mineralization occurs in float and remains unexplained but is interpreted to be remobilized from the numerous pyrite pods and seams line bedding and foliation planes in the Proterozoic Gillespie dolomite. Samples of the main showing are anomalous in lead, zinc and arsenic. Sample 98DH-173 contained up to 3820 ppm Pb and 5090 ppm Zn. Other pyritic samples in Gillespie dolomite were also anomalous, sample 98DH-174 contained 4730 ppm Zn and sample 98DH-193 graded 1320 ppm Pb and 1.75% Zn). Sphalerite has been found in veins where dolomite has reacted to Zinc Zap (a solution which reacts with zinc to produce a bright red colour on the surface of the rock and denotes the presence of zinc);. Sample 98JvR-106 is strongly oxidized dolomite(?) at the contact between the Gillespie Formation and unit PR4 (lower Fifteenmile Group). It contains grades of 218 ppm Pb and 2500 ppm Zn. Globular pyrite and rare galena is found in veins in unit PF1 (upper Fifteenmile Group), possibly associated with thrust faults.

- Several occurrences of Wernecke Breccia occur outside the Study Area along the contact between the Quartet and the Gillespie formations. No breccia is documented within the Study Area, even though this favourable contact extends partly into the Study Area. The prospective contact was surveyed from the helicopter; no additional breccia occurrences could be detected from the air.

- Several favourable environments for nickel mineralization were investigated. No Nick-type mineralization was found, although potential horizons have been defined. Sample 98DH-153 in northernmost Earn Group horizon returned 62 ppm Mo and 963 ppm V, indicating a possible target for a Nick-type horizon. The Tower claims, located on this northernmost horizon, host sphalerite and annabergite in veins, as well as a Au and Ag RGS anomaly. An anomalous sample was obtained from bleached and altered/silicified(?) Road River Formation: sample 98JvR 114 returned values of 57 ppm Mo, 191 ppm Ni, 18 ppm Sb and 3520 ppm Zn. Elevated nickel values on the BAY claims are probably due to ultramafic sills and mafic volcanic rocks. No metallic mineralization was found.

- Negative results. The Thornback coal occurrence (MINFILE 116B 062) was not found, nor was the Crawford polymetallic float occurrence (MINFILE 116B 061). No explanation could be given for the radiometric anomalies outlined by an Archer-Cathro radiometric survey and summarized by T. Bremner (1994) at the western edge of the Study Area. The anomalies may be possibly caused by detrital zircons in the coarse grits of the Hyland Group. A gold anomaly south of the Core Area remains untested.

Table 2. Summary of significant results.

Camp	Target	Results
road work	Document and prospect in Cambro-Ordovician volcanic rocks, Hyland Group, Road River Group.	bleached mafic volcanic rocks, veining in Hyland Gp, jasper in float
1. TAK claims	Hyland group- Road River- Earn Group- Lower Schist. Tak occurrence.	Tak showing: in float, assays. Two new galena occurrences: Lead Belly porphyry lead, Wo Nellie vein. Carbonate alteration zones. PMC below Tombstone thrust.
2. Spotted Fawn Gulch (in Core Area)	Document uranium occurrences in pseudo-leucite tinguaite, prospect for intrusive-hosted gold.	Asp. vein in Tombstone Batholith (previously documented by Archer-Cathro): 6.5 g/t Au
3. Mt. Brenner (NEBULOUS claims)	Prospect for intrusive-hosted gold in Mt. Brenner batholith. Document uranium showings.	2.1g/t Au in syenite. Local molybdenite, malachite.
4. North Face camp	Investigate small Cretaceous intrusion and contact with Permian limestone (possible skarn, intrusive-hosted mineralization), and Mount Brenner hornfels.	No veining, no skarning associated with small intrusive body; 2.26 g/t Au in a vein at contact with Mt. Brenner batholith.
5. Bear camp (east of Mount Brenner and northwest of Tombstone Batholith	Mt. Brenner intrusion, and hornfels between Tombstone and Mt. Brenner batholiths. Prospect for intrusion-related mineralization.	Mineralized vein in Mt. Brenner batholith (2.55 g/t Au); zoned and mineralized skarn in pendant in Tombstone Batholith (5 g/T Au); anomalous Au in syenite.

Camp	Target	Results
6. Hunter's camp	Strong multi-element RGS anomaly, Road River/Cambro-Ord. volcanic rocks/Earn Group/ Lower Schist/ hornfels of Mount Brenner batholith, fault zone.	RGS anomaly not explained. Listwaenite alteration; anomalous volcanic agglomerate chemistry; anomalous silts possibly associated with Road River/ Earn Group contact.
7. HORN claims	Document high-grade gold mineralization; investigate extent of skarn, prospect and document pendant, hornfels and margin of Tombstone Batholith.	Up to 275 g/ t Au at HORN. Garnet-diopside-wollastonite skarn; miarolitic cavities in Tombstone Batholith; syenite anomalous in gold.
8. Cathedral Mountain	Tombstone Thrust, Keno Hill Quartzite, Lower Schist, Road River, intrusive-hosted gold potential in Cathedral Mountain intrusion.	Anomalous silt geochemistry.
9. Burke zone/ felsic volcanic rocks	Cambro-Ordovician volcanics, Road River Group. Investigate nickel geochemical anomalies.	Burke zone: mineralized veins in felsic volcanic rocks. Eileen zone: 2 to 40.3% Pb in discordant carbonate-altered quartz-galena vein-fault.
10. BAY claims	Investigate potential for Earn Group and shale-hosted nickel deposits, as well as ultramafic-hosted nickel mineralization.	Columnar-jointed pyroxenite sill, previously unmapped Earn Group and Gull Lake Formation.
11.BRX	Fifteenmile super group, BRX showing. Wernecke supergroup, potential for additional Wernecke Breccia occurrences.	Replacement mineralization probably in Prot. Gillespie Fm. No additional breccias.
12. CDb lookout	Road River/ CDb, Hyland Group, Pd, investigate Dawson Thrust for Carlin-type potential.	Unusual alteration and geochemistry in Road River Group sedimentary rocks?
13. Volcanic rocks east of Dempster Highway	Claims, MINFILE, anomalous nickel-chromium geochemistry, volcanic rocks. Investigate radiometric anomalies.	New documentation of Earn Group. No explanation for radiometric anomalies at western edge of study area.
14. Permian Jungle Ck.	Earn Group, Jungle Creek.	No significant results.
Road work	Permian Mount Christie, Tower claims.	Chloritoid schist.

Mineral assessment

Methodology

The Study Area was divided into thirteen different tracts; tracts represent packages of rocks of similar geological characteristics. The Tombstone Batholith is large enough that it formed its own tract; smaller intrusions were included in the same tract as their host rock.

A total of five panelists were chosen for their expertise in the geology and mineral deposit models pertinent to the Study Area. After an analysis and discussion of the geoscientific information available for each tract, a unanimous relative ranking of tracts was achieved. Criteria used for ranking were the potential of the tract to host metallic mineral deposits (based on the information listed above) and explorability of the tract (e.g., Tract 1, with its extensive overburden, would be more difficult to explore than other tracts).

No claim map was provided to the estimators in order to avoid introducing a bias in the estimation of potential.

Geoscientific database

The geoscientific information that was used for the assessment included the following: Thompson and Roots GSC Open Files 2849 and 3223; Lowe, C., Kung, R. and Makepeace, 1999, GSC Open File D3826 ; GSC Regional Geochemical Survey (RGS); DIAND MINFILE inventory; Bremner T, 1994, DIAND Open File 1994-2(T); various assessment reports; and results from recent field investigations (summer 1998, this report).

Personal communications with various industry geologists and prospectors added to our understanding of the geology and mineralization in the area. The digital version of the geological map that was used in the assessment is from Yukon Digital Geology (Gordey and Makepeace, 1999).

Limitations

The mineral potential map portrays the best estimation at the time of assessment (June 1999), based on our current understanding of the geology, mineral deposit models and the available geoscientific literature pertinent to the area. Since we are assessing a hidden resource, we need to realize that our knowledge base is in a constant state of growth and mineral deposits may one day be found in rocks that we once thought to be of low potential. Assessments such as these need to be reviewed as the geoscientific database evolves.

Mineral potential- results and conclusions

The mineral potential map (Figure 5, Appendix 5) displays the relative mineral potential within the Tombstone Study Area. The mineral potential of the highest-ranking tracts is due to the presence and mineralizing effect of the Cretaceous Tombstone Plutonic Suite, a belt of granitic to syenitic intrusions. Known and potential types of mineral deposits include: intrusive-hosted sheeted gold-bearing veins, vein-faults, distal Ag-Pb-Zn (Au) veins, skarn, mantos, disseminated fracture-hosted, and replacement deposits.

In a regional context, the Tombstone Study Area is of very high mineral potential.

This map compares the relative mineral potential of tracts within the Study Area, from highest to lowest, not their absolute potential. In other words, tracts that rank highest on this map would also rank high in a regional context. Tracts that rank the lowest on this map would not rank the lowest in a regional context but would have a moderate ranking. Without the presence of a park proposal, this area would undoubtedly attract significant exploration activity.

The potential of the tracts to host mineral deposits is closely related to the potential to host intrusion-related deposits. Exceptions are: the mineralization found in the felsic volcanic rocks, the potential for different types of deposits in the Coal Creek Inlier, lead-zinc mineralization in the carbonates of the CDb Formation, and mineralization hosted by mafic to ultramafic volcanic rocks or intrusions.

It is evident from the information compiled in this study that the Tombstone Study Area contains important mineral values. The potential for mineralization of this belt has only begun to be understood.

Acknowledgements

Dave Tenney, Shawn Ryan, the geologists from Hudson Bay Mining and Development, Blackstone Resources and Equity Engineering were very generous in sharing their knowledge and understanding of the area and thus contributed in a significant way to this process. Archer Cathro & Associates (1981) Ltd. graciously relinquished their mineral claims within the Core Area; this greatly facilitated the land claim negotiation leading to the establishment of the Tombstone Territorial Park. We want to acknowledge their contribution.

Karl Scholz from Fireweed Helicopters in Dawson City provided outstanding helicopter service. Jo-Anne van Randen contributed significantly to all phases of this project, from field support and work to assistance with the compilation and mineral assessment process. Jason Adams was responsible for the digital cartography. Panya Lipovsky provided additional cartographic support. Grant Abbott from DIAND Geology contributed his expertise and provided scientific advice.

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Note: various assessment reports were consulted (See Bremner 1994)

Land Status
Study Area, Mineral Claims and Crown Grants

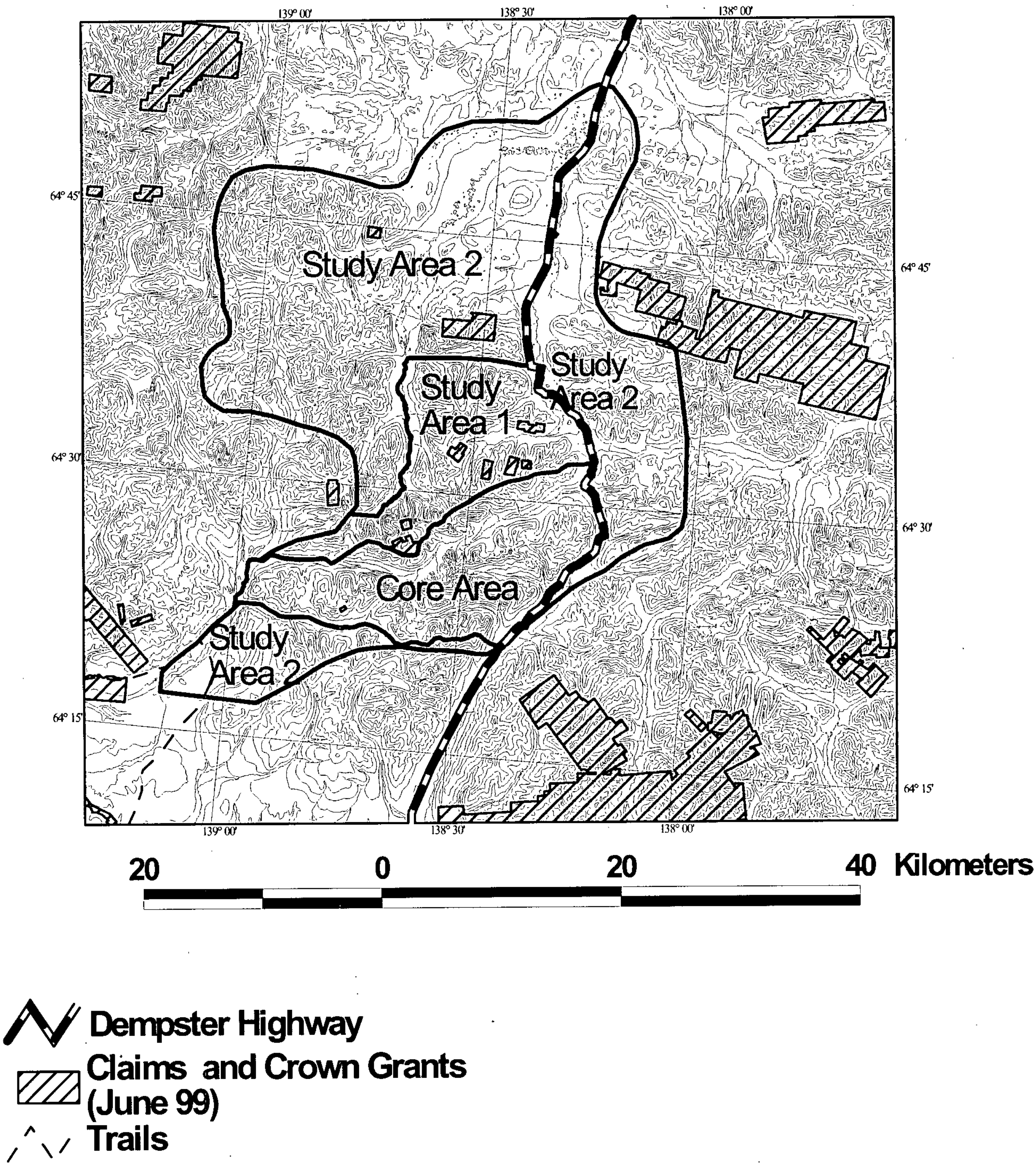
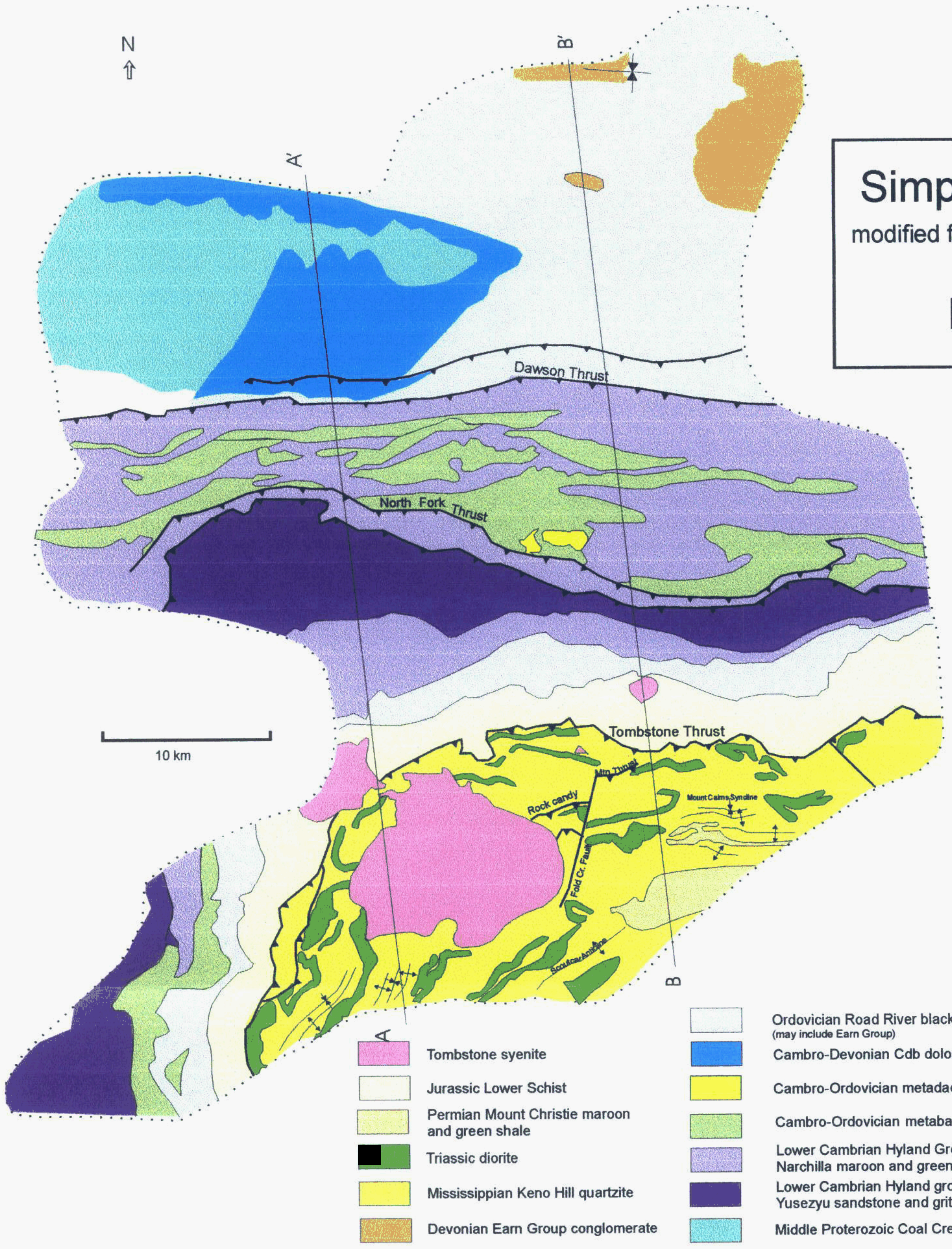


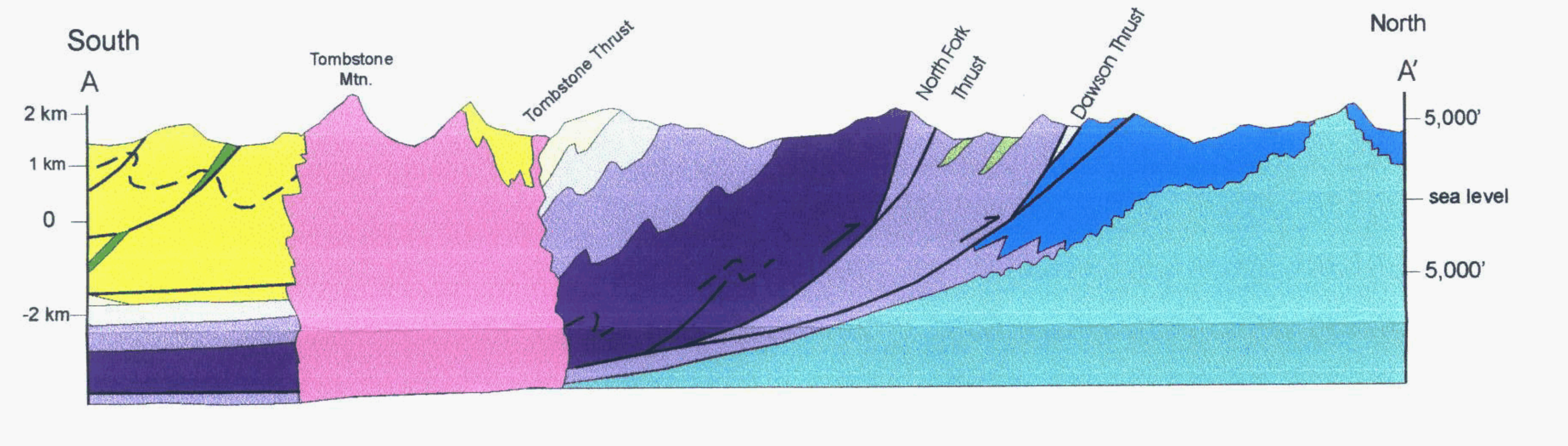
figure 1

Simplified Geology

modified from Charlie Roots (1998)

Figure 2





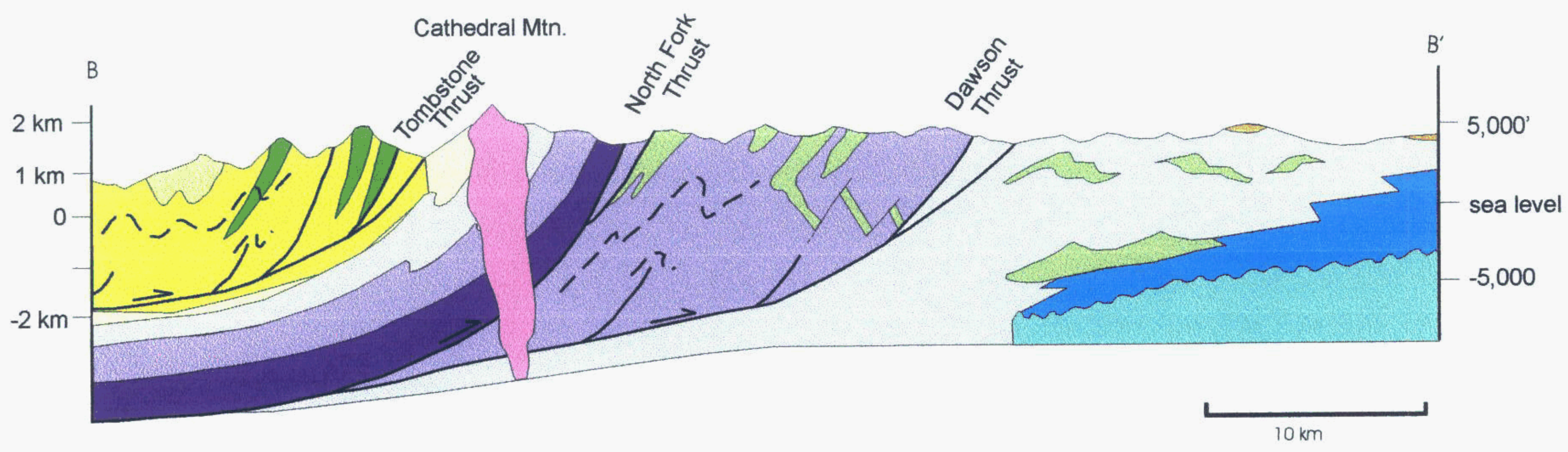
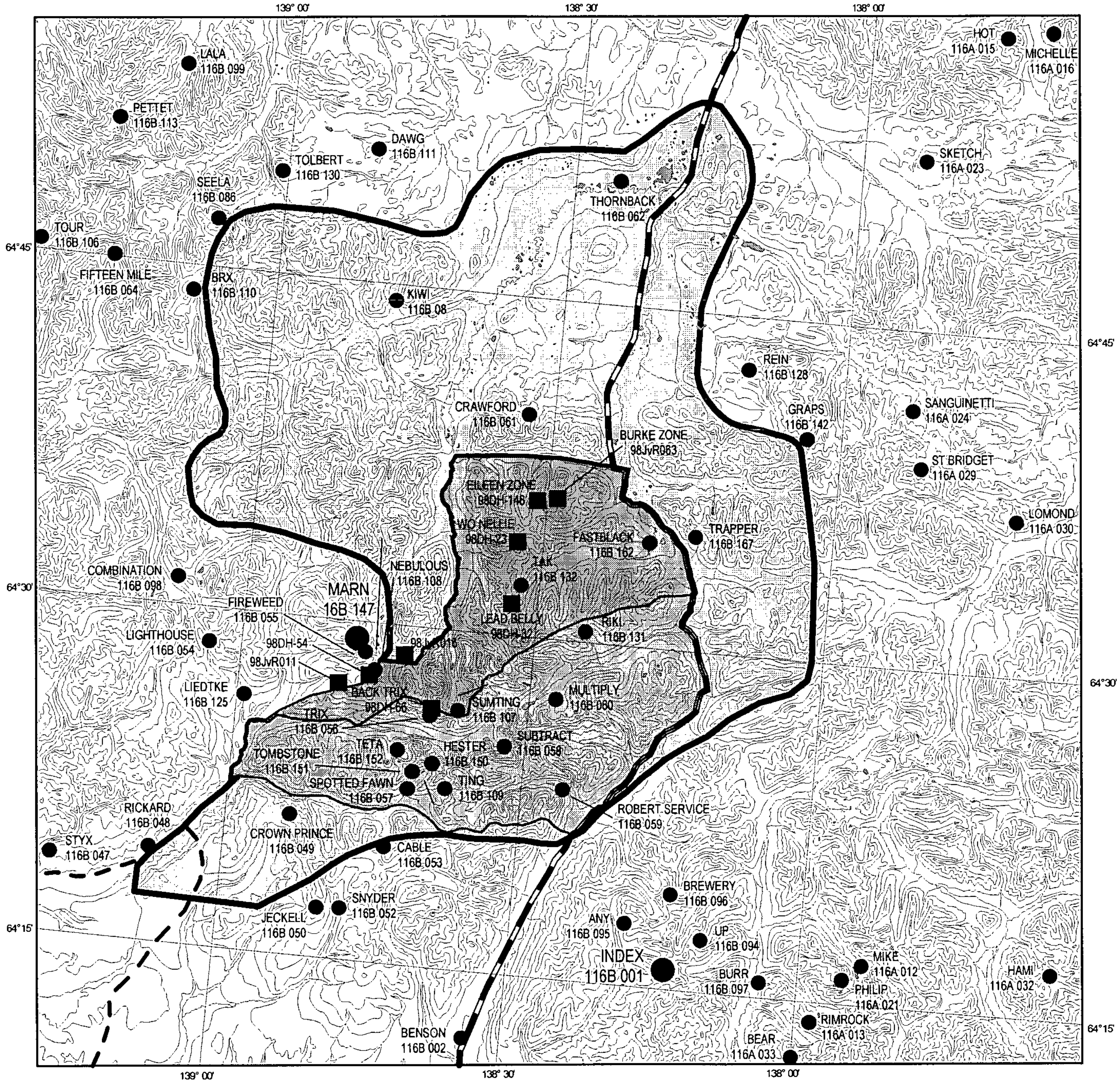
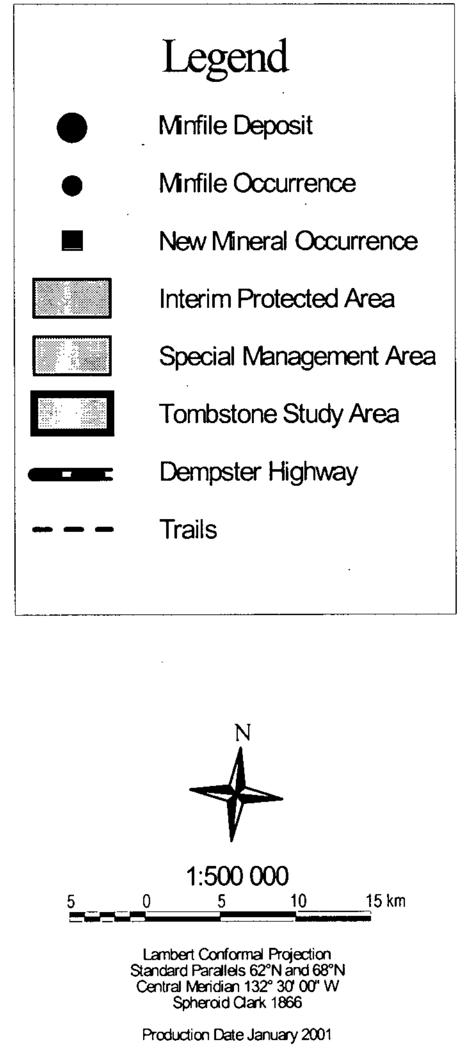


Figure 3
Tomstone Study Area
Mineral Potential Map





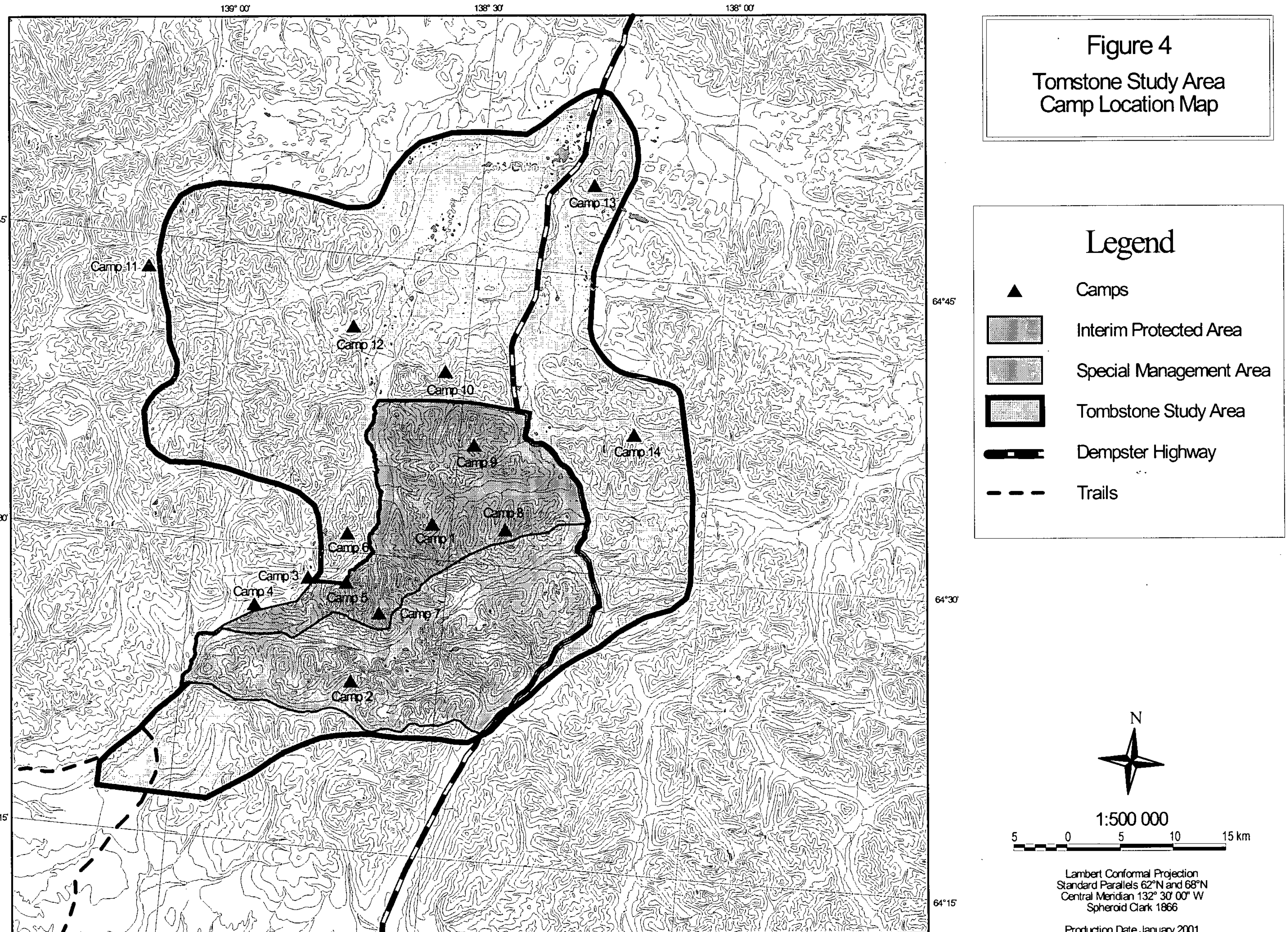


Figure 4
Tomstone Study Area
Camp Location Map

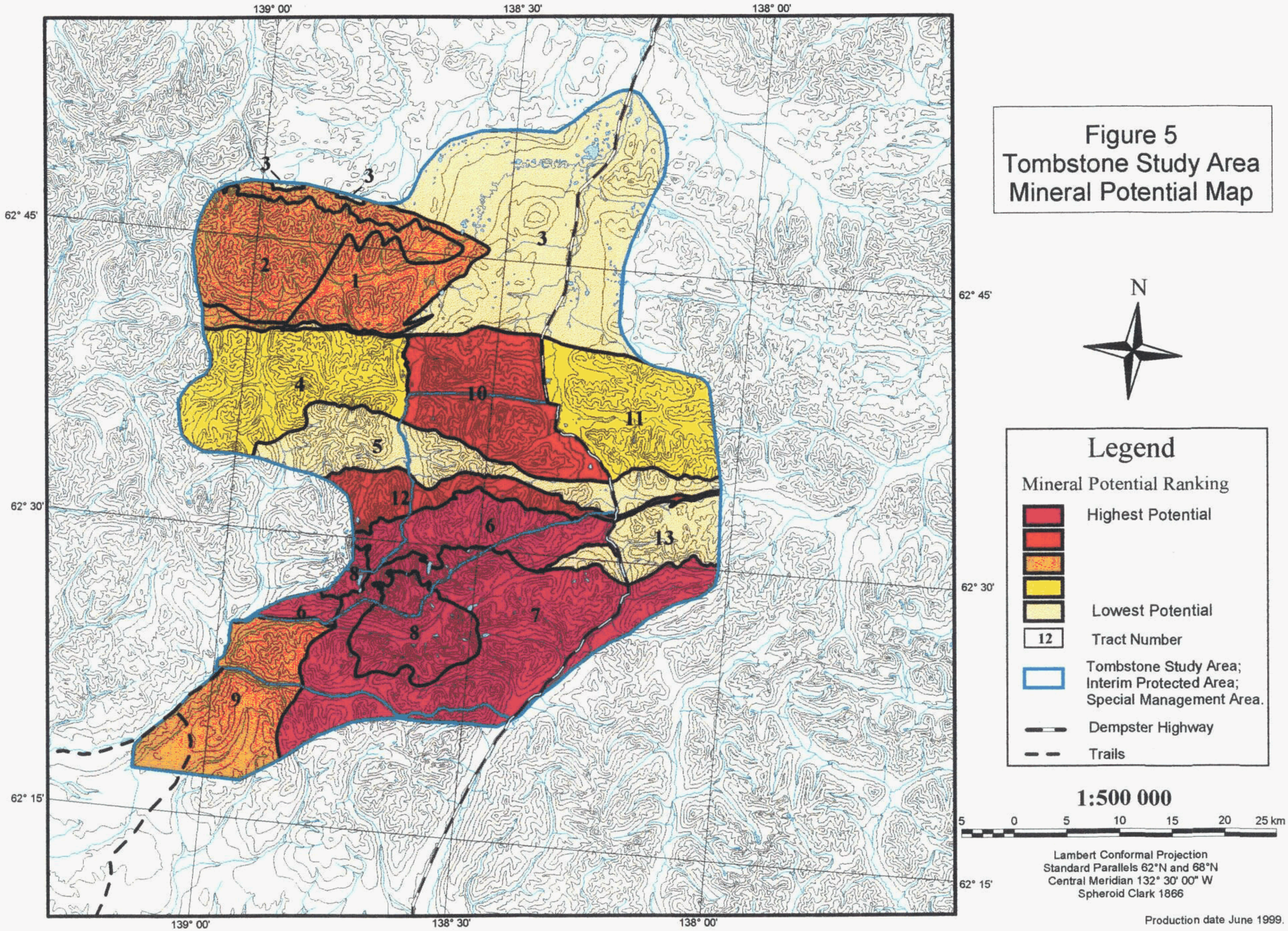

139° 00'
138° 30'
138° 00'
62° 45'
62° 30'
62° 15'
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Figure 5
Tombstone Study Area
Mineral Potential Map
N
Legend
Mineral Potential Ranking
Highest Potential
Lowest Potential
12 Tract Number
Tombstone Study Area;
Interim Protected Area;
Special Management Area.
Dempster Highway
Trails
1:500 000
5 0 5 10 15 20 25 km
Lambert Conformal Projection
Standard Parallels 62°N and 68°N
Central Meridian 132° 30' 00" W
Spheroid Clark 1866
Production date June 1999.

Table 1

Minfile Summary

Minfile Number	Minfile name	NTS Sheet	Fm in Minfile	Fm on map	Tract	Description
16A 012	MIKE	116 A 05	Tomb Plut Suite	PCH	0	Au,Cu,Ag qtz/sulph vein minz in C-O Kechika Group calc arg near small K syenite stock; best = 4.3%Cu, 229.2g/tAg, 21.9g/tAu; drilled 4 holes 200m
16A 013	RIMROCK	116 A 04	Selwyn Basin	COR1	0	Au,Ag,Pb w/minor Zn,Cu,Sb qtz/sulph vein minz in C-O Kechika Group calc arg near small K syenite stock;best= 691.4g/tAg, 9%Pb, 11.8%Zn(hornfelsed arg); 350g/t Ag, 6%Pb, 1%Zn, .2%Cu, .14%Sb trace Au.
116A 015	HOT	116 A 13	Mackenzie Platform	CDB1	0	Pb,Zn,Ag w/minor Cu; Sphalerite, smithsonite, ga, pyr minz in Ord-Sil limestone/dolomite;best= 174.9g/t Ag, 13.5%Pb, 11.9%Zn .3%Cu across .9m of o/c; 39%Pb+Zn in float.
16A 016	MICHELLE	116 A 13	Mackenzie Platform	CDB1	0	Pb,Zn; ga & sphalerite minz in gossan in Ord-Sill dolomite
6A 021	PHILIP	116 A 05	Tomb Plut Suite	ICG1	0	Cu,Au,Ag w/minor Sb,Ba,Hg,W as arsenopy, chalcopy, pyrrhotite py in hornfelsed pyritic shale, qtzite and dolomite near small syenite stock;best= 278.7g/tAu, 3%Cu, 76.8g/tAg, >30% As, 5%Ba, 11.2%Sb, 3ppm Hg, .5%W.
116A 023	SKETCH	116 A 13	Selwyn Basin	DME1	0	Zn geochem anom from Dev-Miss black shale caused by minor ubiquitous hydrozincite coatings
6A 024	SANGUINETTI	116 A 12	Selwyn Basin	DME1	0	Ba w/minor Zn, Pb, Cu,V; Zn anomaly due to hydrozincite; Ba lenses up to 30 m thick in Dev-Miss Earn Grp silty arg & shale; Buldozer trenching; airtrack drilling '79-'80
6A 029	ST BRIDGET	116 A 12	Selwyn Basin	ODR	0	Ba in Lower Earn grp siliceous shale.
116A 030	LOMOND	116 A 12	Selwyn Basin	PCH	0	Bedded Ba w/ minor sphalerite and galena; beds up to 12m wide over 3-4km; best= 32%BaSO4 across 7m.
6A 032	HAMI	116 A 12	Selwyn Basin	PCH	0	2 small syenite stocks in Proterozoic to Lower Cambrian arg
6A 033	BEAR	116 A 04	Tomb Plut Suite	ODR	0	Au, Cu, minor W; .6x75m vein of arsenopyrite, chalcopy, sheelite cuts calc sltstn of Kechika Group near K syenite; best= 10g/t Au; Kabota trenching '91
116B 001	INDEX	116 B 08	Tomb Plut Suite	COR1	0	Au,Sb,Cu,Pb,Zn,Ag; deposit <u>reserves</u> 9072 tonnes@20.6g/t Au (1980); best= 10%Cu, 3%Pb, 2.5%Zn, 300g/t Ag, 30g/t Au; py, aspy, ga, chpy in tourm-qtz-carb vein near margin of K syenite (Antimony Mtn) in Hyland Grp / Road Riv frm.
16B 002	BENSON	116 B 02	Tomb Plut Suite	Q	0	Mo float
6B 047	STYX	116 B 06	Selwyn Basin	PCH	0	Cu-Pb-Zn & Ag soil anomalies; 1.5m pyrite zone in DDH; Cu-Pb-Zn bkgnd in DDH high enough for soil anom.; 4holes 373m in '81
116B 048	RICKARD	116 B 06	Selwyn Basin	CSM1	0	underlain by Cambrian or older clastic rxs with volc hzn; staking on qtz veins
116B 050	JECKELL	116 B 07	Selwyn Basin	MK	0	Lenses of K hornblende diorite w/ weak Cu-Zn anoms intruded on thrust faults cutting early Paleo and Mesozoic sed and volc rxs
B 052	SNYDER	116 B 07	Selwyn Basin	TrG	0	Dev-Miss sed rxs, intruded by small diorite-gabbro bodies of K age staked on qtz veins
6B 053	CABLE	116 B 07	Selwyn Basin	MK	0	Dev-Miss sed rxs, intruded by small diorite-gabbro bodies of K age
116B 054	LIGHTHOUSE	116 B 07	Selwyn Basin	PCH3	0	south of a linear aeromag anomaly in Hyland grp coarse clastics and 3.2 km from syenite stock
B 055	FIREWEED	116 B 07	Tomb Plut Suite	mKyT	0	Mo on joint surfaces in float near the contact of a syenite stock intruded in Dev-Miss sed rxs
B 064	FIFTEEN MILE	116 B 14	Mackenzie Platform	IPQ	0	Cu,Ag,Pb,Zn; Quartet Grp arg hosts xcutting veins/stockwork of qtz/carb (siderite/dolomite) w/ chalcopy, py, ga; best= 3%Cu, 206g/tAg, 4.2%Pb, 7.8%Zn
116B 086	SEELA	116 B 14	Mackenzie Platform	mPPFl2	0	Pb, Zn; ga, sphal occur in a breccia zone in Fifteenmile Group arg
B 094	O'BRIEN (UP)	116 B 08	Tomb Plut Suite	mKyT	0	Au,Pb,Zn w/minor Ag,Cu; Arsenopy w/minor py,pyrrho,chalcopy minz in 3 vein systems cutting syenite stock intruded in Proterozoic/Lwr Camb metaseds; best= 44g/tAu, >10%Pb, .6%Cu, >10%Zn, >4%Sb, >10%As; 4 holes 210m '67; 3 holes 166m '75; 6 DDH 756m '89
B 095	ANY	116 B 08	Selwyn Basin	PCH4	0	Cu; chalcopy, malachite dissem minz assoc w/ qtz veinlets in shear zone cutting Late Protero / Early Paleozioc slate; Best(bulk sample)= 3g/tAu, >10%As, >10%Pb, .66%Cu, 4%Sb, >10%Zn
16B 096	BREWERY	116 B 08	Tomb Plut Suite	mKyT	0	U; small stock of K syenite that intrudes Hyland Group metased rocks
3 097	BURR	116 B 08	Selwyn Basin	ICG1	0	underlain by Late Proterozoic or Early Cambrian sedimentary rocks
3 098	COMBINATION	116 B 11	Tomb Plut Suite	mKyT	0	U,Th; U, Th minz assoc w/ a pseudoleucite-tinguaite phase of a K syenite to quartz monzonite stock; 7 holes 226m
16B 099	LALA	116 B 14	Mackenzie Platform	mPW	0	Cu; discordant brecciated Quartet Grp slate & qtzite overthrusted by Gillespie Group Dolomite; 0.08%Cu over 2.7m; 2 holes 218m '77
3 106	TOUR	116 B 14	Mackenzie Platform	muPPFu2	0	chalcopyrite minz; best= 2.7%Cu, 60ppbAu, .6ppmAg, 17ppmCo, 36ppmPb, 84ppmZn
3 110	BRX	116 B 11	Mackenzie Platform	muPPFu2	0	Zn; py, sphal in fractures cutting dolomite bx's; massive py in qtz; dolomite overlain by thick shale
16B 111	DAWG	116 B 15	Mackenzie Platform	ODR	0	minor amounts of hydrozincite assoc w/ black shale.
16B 113	PETTET	116 B 14	Mackenzie Platform	IPQ	0	Cu w/minor Fe,Ba,U; chalcopy w/minor pitchblende in qtz-ba veins, minz discon over 180m, cutting Lwr Proterozoic slate & arg near a concordant, wedge-shaped zone of hematite-cemented breccia; 10.8%Cu
3 125	LIEDTKE	116 B 07	Selwyn Basin	PCH3	0	underlain by Late Proterozoic-Early Camb shale, qtzite, ss & cgl of Hyland Group
6B 128	REIN	116 B 09	Selwyn Basin	ODR	0	Ba w/minor Zn,Cu,Pb,V; 54.2%Ba in lenses up to 30m; Pb-Cu-Zn minz next to dioritic sills; minor Ba-ga-sphal in vein minz; 21 holes 906m '79
16B 130	TOLBERT	116 B 14	Mackenzie Platform	ODR	0	Pb,Zn,Cu w/minor Ag; ga-sphal-chalcopy minz in narrow bx zone in Sil-Dev carb shale, arg, sltstne & minor limestne; Best= 1.4%Cu, .3%Zn, 1.6%Zn, &17.1g/tAg
142	GRAPS	116 B 09	Selwyn Basin	ODR	0	Ba w/minor Pb,Zn; Bedded barite w/minor ga & sphal in Ord or younger clastic sequence along south side of the Dawson Thrust
6B 147	MARN	116 B 07	Selwyn Basin	mKyT	0	Au,Cu,W w/minor Ag,Bi,Zn,Ni; 30m thick pyroxene skarn w/minor garn, scheelite, skn repl assem=70%pyrrhotite, 20%chalcopy minor sphal, arsenopy, py, cubanite, pentlandite; other minz includes electrum, native Bi, bismuthinite, bismuth telluride, Ag mins; <u>reserves</u> = 275K to 330K tonnes @8.6g/tAu, 1%Cu, .1%W, 17g/tAg; Best= 360g/tAu, 1.5%Cu, 5.3%WO3; 8 holes 1004m '80; 8 holes 950m '81; 13 holes 1617m '83; 2 holes 867m '85
087	KIWI	116 B 10	Mackenzie Platform	CDB1	1	Pb,Zn w/minor Ag,Cu; 7 showings of sphal, ga in 8m wide bx zone in Proterozoic dolomite over 1km strike; best 19.8%Zn, 16.3%Pb, 116g/tAg, 0.05%Cu over 10.6m; bulldozer trenching; 2 DDH 212m '86
062	THORNBACK	116 B 16	Selwyn Basin	ODR	3	Coal; Mid-Dev to Carboniferous sed rxs as source?; Blackstone river
6B 131	RIKI	116 B 09	Selwyn Basin	JB1	6	Underlain by Dev-Miss schist correlated w/ Keno Hill lwr schist, adjacent to K hornblende-biotite syenite syocks.
132	TAK	116 B 10	Selwyn Basin	ODR	6	Pb,Ag; diss ga in veinlets cutting qtzite @ cnt btwn Hyland Grp & Road River frm shale intruded by hb or bio syenite stock and lamprophyre dykes; 3 holes 50m '83; 3 holes 224m '84
057	SPOTTED FAWN	116 B 07	Selwyn Basin	MK	7	Ag,Pb;lensoid siderite-ga-py-arsenopy veins cut Mississippian Keno Hill Quartzite near a large K syenite stock; 55m adit in 1905-6; 4 holes 36.6m '74
6B 059	ROBERT SERVICE	116 B 08	Selwyn Basin	MK	7	Pb; diss ga in boulders of pseudoleucite float
060	MULTIPLY	116 B 08	Selwyn Basin	MK	7	Cu, Mo; diss phyrro, arsenopy, chalcopy, molybdenite minz in 15m wide zone developed in a sequence of Dev-Miss qtzite & arg near cnt of K porphyritic qtz monz stock
109	TING	116 B 07	Tomb Plut Suite	MK	7	U w/minor Mo,F; linear zones of uranite w/minor assoc flourite & molybdenite cuts pseudoleucite triangulate phase of K syenite stock; best= 1.1%U3O8 across 1m; 2 holes 87m '79
6B 056	TRIX	116 B 07	Selwyn Basin	mKyT	8	U w/minor Cu,Pb,Mo,Sb,F; uraninite w/minor flourite,py,chalcopy,arsenopy,stibnite,ga,molybdenite minz in veinlets contained in skarn developed in Perm limestone surrounded by K syenite stock.
B 058	SUBTRACT	116 B 07	Tomb Plut Suite	mKyT	8	U,Th; Syenite & Qtz Monz stock with x-cutting aplite dykes high in U,Th; best= 160g/tU, 950g/tTh
107	SUMTING	116 B 07	Tomb Plut Suite	JB1	8	U; roof pendant of Mid-Dev slt&limestn in tinguaite phase of K syenite; diss uranite in ting; best= .35%U3O8
B 108	NEBULOUS	116 B 07	Tomb Plut Suite	mKyT	8	U; K aged qtz monz porphyry; best=0.015%U3O8 over 10 m.
B 150	HESTER	116 B 07	Selwyn Basin	mKyT	8	Ag,Zn,Cu w/minor Au,Pb,F; 5 parallel qtz-siderite veins in 30m zone containing chalcopy, arsenopy, py, ga, sphal, flourite, stibnite; best= 2%Cu, 459g/tAg, 6.8%Zn, 3.4g/t Au
151	TOMBSTONE	116 B 07	Tomb Plut Suite	mKyT	8	U w/minor Mo,F,Au,Ag,Cu; U assoc w/ bio & diss flourite + rare interstitial uraninite in a pseudoleucite tingulate phase along margin of K syenite stock; minor pyrrhotite, py, molybdenite minz; best= 2%U3O8; 14 holes 1687m '79
152	TETA	116 B 07	Carmacks Volcs	mKyT	8	U w/minor Mo,F; uranite, pyrrhotite, w/minor flourite & molybdenite in strongly sheared & partially re-xlized (mylonitic) pseudoleucite tinguaite phase @ margin of K syenite stock
3 049	CROWN PRINCE	116 B 07	Selwyn Basin	JB1	9	weak Cu and Zn response due to hornblende diotite intruding into Early Paleo/Mesozoic sed & volc rxs along thrust faults.
61	CRAWFORD	116 B 10	Selwyn Basin	ODR	10	Cu; chalcopyrite in float train; placer copper near head of Blackstone River association?
62	FASTBLACK	116 B 09	Selwyn Basin	CSM1	10	Proterozoic or Cambrian volc & sed rxs
3 167	TRAPPER	116 B 09	Selwyn Basin	CSM1	11	Late Proterozoic or Early Cambrian amygdaloidal andesite flows and pyroclastic rocks

Appendix 1

MINFILE Descriptions

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Hay Meadow
MINFILE #: 116B 049
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 7
LATITUDE: 64°21'11"N
LONGITUDE: 138°53'24"W
DEPOSIT TYPE: Unknown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

ST PAUL, CROWN PRINCE

WORK HISTORY

Staked by N.J. Donahue and W.J. Elliott in Sep-Oct/02 as St Paul, etc cl (6309) and in Sep/05 as Crown Prince cl (7205), which were hand trenched until 1908 when four claims were surveyed and taken to lease.

GEOLOGY

Lenses of Cretaceous hornblende diorite have been intruded along thrust faults that cut Early Paleozoic and Mesozoic sedimentary and volcanic rocks. No mineralization other than quartz veins has been reported but weakly anomalous copper and zinc response suggest that scattered traces of mineralization may be present with the diorite bodies or along the thrust faults.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Fireweed
MINFILE #: 116B 055
MAJOR COMMODITIES: Mo
MINOR COMMODITIES: -
TECTONIC ELEMENT: Tombstone Plutonic Suite

NTS MAP SHEET: 116 B 7
LATITUDE: 64°28'40"N
LONGITUDE: 138°47'14"W
DEPOSIT TYPE: Unkown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

WORK HISTORY

Located by the GSC but apparently never staked.

GEOLOGY

Coarse-grained molybdenite was found on joint-surfaces in float within and near the contact of a syenite stock with Devono-Mississippian sedimentary rocks.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 65-1A, p. 36.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Trix
MINFILE #: 116B 056
MAJOR COMMODITIES: U
MINOR COMMODITIES: Cu,Pb,Mo,Sb,F
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 7
LATITUDE: 64°26'09"N
LONGITUDE: 138°40'03"W
DEPOSIT TYPE: Skarn
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

TRIX, MOONDANCE

WORK HISTORY

Discovered by prospectors working for Yukon Cons Gold Corp in 1958. Staked as Trix cl (YA31499) by Mattagami Lake ML in Aug/78 and transferred to Numatt ML and Noranda in 1979.

Restaked as Moondance cl (YA90188) in Sep/87 by K. Hudson.

GEOLOGY

The claims cover skarn developed in a large raft of Permian limestone, which is surrounded by syenite of the Cretaceous Tombstone Batholith. Uraninite occurs with minor fluorite, pyrite, chalcopyrite, arsenopyrite, stibnite, galena and molybdenite filling veinlets in the skarn.

REFERENCES

CRAWFORD, W.J., Apr/59. The Geology of the Southwestern Ogilvie Mountains. Unpublished B.A.Sc. Thesis, University of British Columbia, Apr/59, p. 39-40.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 285.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Spotted Fawn
MINFILE #: 116B 057
MAJOR COMMODITIES: Ag,Pb
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 7
LATITUDE: 64°22'49"N
LONGITUDE: 138°41'38"W
DEPOSIT TYPE: Vein
STATUS: Drilled Prospect

CLAIMS (PREVIOUS AND CURRENT)

SPOTTED FAWN, GALENA FARM, JESSIE, MELVILLE, OPHIR, LONDON, JUPITER, KENO, RADIUM, SNOW, TOM, KEM, NO, CLAIM

WORK HISTORY

Staked as Spotted Fawn cl (5160) in Sep/01 by C. Celine, who financed trenching in 1902-03 through a private syndicate, Twelvemile Quartz Mg & Dev C. Restaked as Galena Farm cl (6837) in Oct/03 by W.J. Elliott and Jessie cl (6999) & Melville cl (7000) in Sep/04 by Elliott & W.R. Melville. These and neighboring claims were optioned by Syndicat Lyonnais du Klondike, which drove a 55 m adit on the Jessie claim in 1905-06. A total of 10 claims were surveyed in 1907 and leased as Crown Granted claims in Sep/09.

Only the Galena Farm and Melville claims are still in good standing. They were explored in 1920 by the Spotted Fawn C and purchased later by Yukon Cons Gold Corp, which performed mapping and sampling in 1962. Numerous claims have been staked around the two leases, including Ophir, London, Jupiter, etc cl (12572) in Jun/16 by D.B. Cole and associates, who performed trenching until 1946; Keno, Radium, etc cl (57668) in May/51 by The Klondike E Synd; Snow cl (79083) in 1962 by Yukon Cons Gold Corp L, Rome cl (76544) in Mar/65 by Arivaca EL; Tom cl (87390) in May/66 by W. Kaufmann, who conducted a small geochem sampling program; and Kem cl (Y15381) in Jun/68 by Klondike EL, which explored by trenching in 1968 and 1969, drilled several short packsack holes in 1970, started a tote road to the property in 1972, hand trenched and drilled 4 holes (36.6 m) in 1974, and hand trenched in 1976.

The fringe ground was restaked as No cl (YA32507) in May/79 and as Claim cl (YA79181) in Aug/83 by G. Hakonson.

GEOLOGY

Several lensoid, northeast-striking, siderite-galena-pyrite-arsenopyrite veins cut Mississippian Keno Hill Quartzite near a large Cretacesous syenite stock. Geochemical work indicates that four or more veins may be present. Two veins have been extensively explored, one on the Galena Farm claim and the other, on which a short adit was driven, about 0.8 km to the south. The veins have been traced about 18 m along strike and seldom exceed 0.6 m in width. An average assay is about 16% Pb and 822.8 g/t Ag , with selected specimens assaying up to 4388.5 g/t Ag. Nine tonnes were reportedly sacked for shipment in 1920 but no smelter results are available. The 1920 report also claimed that 16 different veins were exposed across 30 m on the Ophir claim and that one of these veins was 1.2 m wide and contained a 71 cm width of massive galena.

The actual position of some of the early work and mineral showings is uncertain because of a discrepancy between the claim names used in the reports and their actual positions according to the survey plan. Cockfield (1918) stated that the southerly showing was on the Ophir claims although he did not mention an adit there. Claim sketches showed the Ophir at this location, adjoining the Galena Farm cl on the downstream (southwest) side, but the survey plan shows it adjoining on the northwest side. Hester's report mentions a short adit southwest of the Galena Farm and describes galena in ferricrete but does not mention an adit upstream (northeast) of the Galena Farm, where the Jessie claim was situated. If the 1906 adit was actually driven northeast of the Galena Farm, it has been obscured by overburden and never examined since. A sample of the ferricrete assayed in 1963 returned 164.6 g/t Ag and 5.4% Pb.

REFERENCES

DAWSON DAILY NEWS, 29 Nov/20.

GEOLOGICAL SURVEY OF CANADA Memoir 364, p.137-138.

GEOLOGICAL SURVEY OF CANADA Summary Report 1918, Part B, p. 15-17.

KLONDIKE EXPLORATION LTD, May/69. Assessment Report by C. Zimmerman.

MINERAL INDUSTRY REPORT 1974, p. 73-74.

WHITEHORSE STAR, 7 Feb/73.

YUKON CONSOLIDATED GOLD CORP. LTD, Aug/63. Assessment Report #019458 by B.W. Hester.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Subtract
MINFILE #: 116B 058
MAJOR COMMODITIES: U,Th
MINOR COMMODITIES: -
TECTONIC ELEMENT: Tombstone Plutonic Suite

NTS MAP SHEET: 116 B 7
LATITUDE: 64°25'05"N
LONGITUDE: 138°32'09"W
DEPOSIT TYPE: Porphyry
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

BETA

WORK HISTORY

Staked as the Beta cl (YA10079) in Apr/77 following airborne spectrometer surveys in 1976 by Urangesellschaft L, which explored with mapping and a grid scintillometer survey in 1977 and mapping, geochemical and radiometric surveys in 1979.

GEOLOGY

The claims cover an area of anomalous radioactivity in syenite and quartz monzonite of the Middle Cretaceous Tombstone stock. Aplite dykes cutting the syenite give strongly anomalous uranium and thorium values and samples taken by Urangesellschaft returned assays up to 0.16 kg/tonne U and 0.95 kg/tonne Th.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 68-68, p. 16.

MINERAL INDUSTRY REPORT 1977, p. 53-54.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 285.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Robert Service
MINFILE #: 116B 059
MAJOR COMMODITIES: Pb
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 8
LATITUDE: 64°23'24"N
LONGITUDE: 138°25'44"W
DEPOSIT TYPE: Unkown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

WORK HISTORY

Located by the GSC but apparently never staked.

GEOLOGY

Disseminated galena was found in boulders of pseudoleucite float near the mouth of Wolf Creek.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 65-14, p. 36.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Multiply
MINFILE #: 116B 060
MAJOR COMMODITIES: Cu,Mo
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 8
LATITUDE: 64°27'22"N
LONGITUDE: 138°27'15"W
DEPOSIT TYPE: Skarn
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

MYN

WORK HISTORY

Discovered by the GSC in 1965 and staked as MYN cl (YA84096) in Jul/84 by G. Freibergs.

GEOLOGY

Disseminated pyrrhotite, arsenopyrite, chalcopyrite and molybdenite occur in a 15 m wide zone that has developed in a sequence of Devono-Mississippian quartzite and argillite at the contact of a Cretaceous porphyritic quartz monzonite stock.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 65-1A, p. 36.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Crawford
MINFILE #: 116B 061
MAJOR COMMODITIES: Cu
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 10
LATITUDE: 64°39'50"N
LONGITUDE: 138°32'43"W
DEPOSIT TYPE: Unknown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

WORK HISTORY

Found in 1958 by prospectors working for Yukon Cons Gold Corp L but apparently never staked.

GEOLOGY

Cambrian or older sedimentary rocks (Hyland Group) in contact with Ordovician to Lower Devonian sedimentary rocks of the Road River Formation underlie the area. Mineralization is found as a float train of chalcopyrite in quartz in a high saddle 19.3 km northwest of North Fork Pass. Further north, down the valley, fragments of quartz-siderite vein float containing chalcocite were found. Placer copper, reportedly found near the head of the Blackstone River prior to 1919, may have come from this area.

REFERENCES

CRAWFORD, W.J., Apr/59. The geology of the southwestern Ogilvie Mountains. Unpublished B.A.Sc. thesis, University of British Columbia, p. 39-40.

GEOLOGICAL SURVEY OF CANADA Summary Report 1919, Part B.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Thornback
MINFILE #: 116B 062
MAJOR COMMODITIES: Coal
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 16
LATITUDE: 64°50'28"N
LONGITUDE: 138°25'20"W
DEPOSIT TYPE: Coal
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

WORK HISTORY

The creek name was derived from early reports by Indians of coal float in this vicinity.

GEOLOGY

Described by C. Thornback of the RCMP in his 1914-15 diary as follows: "Indians named the Blackstone (River) because of the deep, extensive seams of coal on both sides of the canyon. It looked like the land had split, forming a long gorge and deep river bed between high vertical walls 30 m apart. Lying upon the river ice were many large lumps of coal recently split away from the cliffs, evidently by frost expansion".

The Blackstone River cuts an extensive sequence of Middle Devonian to Carboniferous sedimentary rocks that could be the source.

REFERENCES

AURUM GEOLOGICAL CONSULTANTS INC., 1994. Yukon Coal Inventory 1994. Energy and Mines Branch, Economic Development, Yukon Territorial Government, 169 p.

THORNBACK, CHARLES R., Jan/72. North Patrol. Alaska Magazine, p. 57.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Kiwi
MINFILE #: 116B 087
MAJOR COMMODITIES: Pb,Zn
MINOR COMMODITIES: Ag,Cu
TECTONIC ELEMENT: Mackenzie Platform

NTS MAP SHEET: 116 B 10
LATITUDE: 64°44'16"N
LONGITUDE: 138°47'34"W
DEPOSIT TYPE: Mississippi Valley
STATUS: Drilled Prospect

CLAIMS (PREVIOUS AND CURRENT)

KIWI, SEELA

WORK HISTORY

Staked as Kiwi cl (Y82919) in Jul/74 by Dynasty EL, which explored by contour soil sampling and mapping in 1974. The claims were transferred to Cyprus Anvil Mg Corp in 1975 and explored by grid soil sampling, hand trenching and mapping. In 1981, Cyprus Anvil became a subsidiary of Dome Pet L.

In 1984, Dome optioned the property to Dawson Eldorado Gold EL, which conducted more sampling and added Seela cl (YA84500) in Aug/84. In 1985, Dome's interest was sold to Curragh Res L while Dawson Eldorado changed its name to Dawson Eldorado ML and performed additional sampling. In Apr/86, Dawson Eldorado added more Seela cl (YA87911) and in June the entire property was optioned to Canadian United Mls Inc, which performed mapping, geochem sampling, bulldozer trenching and 2 diamond drill holes (212 m) later that year. The Kiwi cl were transferred to Avanti Minerals Ltd in Jul/93.

GEOLOGY

Seven showings occur in fractured Proterozoic dolomite over a 1000 m strike length. The main showing consists of strongly oxidized sphalerite and galena within an east-trending fault breccia zone 8 m wide. A channel sample from a trench assayed 19.8% Zn, 16.3% Pb, 116 g/t Ag and 0.05% Cu across 10.6 m.

Four of the seven zones were trenched in 1986 and of these, three are in northwest-trending fracture zones and one in a southwest-trending breccia body. The 1986 drilling tested the main showing. Hole I intersected two mineralized zones. The upper zone assayed 13.8% Zn over a true width of 3.5 m, while the lower zone returned 3.4% Zn over 4.8 m. Hole 2 returned comparable results from the upper zone but did not cut the lower zone. Neither zone contained significant lead or silver values.

REFERENCES

DAWSON ELDORADO MINES LTD, 1985. Annual Report.

GEORGE CROSS NEWSLETTER, 9 Jun/86.

MINERAL INDUSTRY REPORT 1974, p. 75.

MINERAL INDUSTRY REPORT 1975, p. 83-84.

NORTHERN MINER, 27 Feb/87.

THE MINING LETTER, 13 Dec/85.

YUKON EXPLORATION 1985-86, p. 394-395.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Sumting
MINFILE #: 116B 107
MAJOR COMMODITIES: U
MINOR COMMODITIES: -
TECTONIC ELEMENT: Tombstone Plutonic Suite
NTS MAP SHEET: 116 B 7
LATITUDE: 64°26'29"N
LONGITUDE: 138°37'14"W
DEPOSIT TYPE: Porphyry
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

GRIL, SUMTING

WORK HISTORY

Staked in Sep/76 following airborne radiometric surveys as Gril cl (YA9545) by Prism Synd (Prism Res L, Canex Placer, Granby ML & Chieftain Dev CL) and as Sumting cl (YA9486) to the southwest by Ukon JV (Chevron & Kerr Addison). Ukon JV explored with mapping, geochem and radiometric surveys in 1976 and 1977.

GEOLOGY

The claims cover a roof pendant of Middle Devonian slate and limestone 3.2 km long and 0.8 km wide within a pseudoleucite tinguaite phase of the Cretaceous Tombstone syenite stock. Minor amounts of disseminated uraninite occur in linear zones within the tinguaite, and grab sample assays returned up to 0.35% U_3O_8.

Radiometric anomalies are associated with skarn zones developed along the limestone-syenite contact and with narrow dykes cutting slates, but the best grab samples from these areas assayed only 0.02% U_3O_8.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 77-1B, p. 37-45.

MINERAL INDUSTRY REPORT 1977, p. 54.

UKON JOINT VENTURE, Jan/78. Assessment Report #090272 by A.R. Archer.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Ting
MINFILE #: 116B 109
MAJOR COMMODITIES: U
MINOR COMMODITIES: Mo,F
TECTONIC ELEMENT: Tombstone Plutonic Suite

NTS MAP SHEET: 116 B 7
LATITUDE: 64°22'58"N
LONGITUDE: 138°37'50"W
DEPOSIT TYPE: Porphyry
STATUS: Drilled Prospect

CLAIMS (PREVIOUS AND CURRENT)

TING, NOTING, PROSPECTING, HOT

WORK HISTORY

Staked as the Ting, Noting and Prospecting cl (YA5027) in Jun-Sep/76 by Ukon JV (Chevron & Kerr Addison), which performed geochem and radiometric surveys in 1976, grid radiometric surveys and rock trenching in 1977 and 1978 and drilled 2 holes (87 m) in 1979.

Mountain Mls L staked the adjoining Hot cl (YA5067) to the north in Jun/76 and conducted a radiometric survey and transferred the claims to T & T Mgmt L in 1977.

GEOLOGY

The claims cover a pseudoleucite tinguaite phase at the south margin of the Cretaceous Tombstone syenite stock. The tinguaite is cut by linear zones containing uraninite with minor associated purple fluorite and molybdenite. Yellow uranium secondary minerals coat near-surface fractures.

Olade and Goodfellow reported a background range of 1 to 282 ppm Th and 3 to 86 ppm U in the syenite and 55 to 125 ppm Th and 3 to 206 ppm U in the tinguaite, rising to as much as 10 000 ppm U near mineralized zones which grade in the range of 0.2% to 2% U_3O_8. The best assay obtained from hand trenching was 1.08% U_3O_8 across 1.0 m. Drilling below the trenches failed to detect significant mineralization.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Bulletin 180.

GEOLOGICAL SURVEY OF CANADA Paper 77-1B, p. 37-45.

MINERAL INDUSTRY REPORT 1976, p. 140-141; 1977, p. 53; 1978, p. 29.

NORTHERN MINER, 24 Nov/77.

OLADE, M.A., AND GOODFELLOW, W.D., Jun/78. Development of lithochemical and hydrochemical methods of exploration for porphyry uranium, molybdenum and tungsten mineralization, Tombstone Batholith. Paper presented at the International Symposium on Exploration Geochemistry, Denver.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 292.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Rayner
MINFILE #: 116B 110
MAJOR COMMODITIES: Zn
MINOR COMMODITIES: -
TECTONIC ELEMENT: Mackenzie Platform

NTS MAP SHEET: 116 B 11
LATITUDE: 64°43'53"N
LONGITUDE: 139°08'40"W
DEPOSIT TYPE: Mississippi Valley
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

BRX

WORK HISTORY

Staked as BRX cl (YA9537) in Sep/76, following airborne radiometric prospecting, by Prism Synd (Prism Res L, Canex Placer, Granby Mg & Chieftain Dev CL) which performed mapping and a test EM survey in 1977.

GEOLOGY

Boulders of mineralized float occur in a valley underlain by Proterozoic sedimentary rocks. The float consists of quartz, pyrite and sphalerite in fractures cutting dolomite breccia, and massive pyrite in quartz. The dolomite unit is overlain by a thick shale section.

REFERENCES

LANE, R.A., AND GODWIN, C.I., 1992. Geology of the Ogilvie Mountains Breccias, Coal Creek Inlier (NTS 116B/11,13,14), Yukon Territory. Exploration and Geological Services Division, DIAND, Open File 1992-1.

MINERAL INDUSTRY REPORT 1977, p. 55.

PRISM RESOURCES LTD, Feb/78. Assessment Report #090277 by J.H. Montgomery and D.F. Penner.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Riki
MINFILE #: 116B 131
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 116 B 9
LATITUDE: 64°30'28"N
LONGITUDE: 138°24'50"W
DEPOSIT TYPE: Unknown
STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

RIKI

WORK HISTORY

Staked as Riki cl (YA52846) in Aug/80 by Mattagami Lake ML, which conducted mapping and a geochemical survey in 1981.

GEOLOGY

The claims are underlain by schist of Devono-Mississippian age correlative with the Keno Hill "Lower Schist" unit, adjacent to several Cretaceous hornblende-biotite syenite stocks. No mineralization was found.

REFERENCES

YUKON EXPLORATION AND GEOLOGY 1981, p. 240.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Hester
MINFILE #: 116B 150
MAJOR COMMODITIES: Ag,Zn,Cu
MINOR COMMODITIES: Au,Pb,F
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 7
LATITUDE: 64°24'02"N
LONGITUDE: 138°39'22"W
DEPOSIT TYPE: Vein
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

CAP, PEAKE, SNOW, KEM, TING

WORK HISTORY

Probably first staked as Cap, Peake, etc cl (12781) in Sep/19 by E.W. Jackson, who performed annual trenching until 1934. The showing was mapped and sampled in 1963 by YCGC in conjunction with work on its adjoining Snow cl (79083) staked in 1962, and was restaked as Kem cl (Y15381) in Jun/68 by Klondike EL, and as Ting cl (YA5027) in Jun/76 by Ukon JV (Chevron & Kerr Addison).

GEOLOGY

Four or five parallel quartz-siderite veins are present in a 30 m wide zone that strikes northeast. Individual veins are up to 30 cm wide and are mineralized with chalcopyrite, arsenopyrite, pyrite, galena, sphalerite, fluorite and possibly stibnite. Two samples assayed in 1963 returned 161.1 g/t Ag and 2.1% Cu and 459.4 g/t Ag, 6.8% Zn and 3.4 g/t Au.

REFERENCES

YUKON CONSOLIDATED GOLD CORP., Aug/63. Assessment Report by B.W. Hester.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Tombstone
MINFILE #: 116B 151
MAJOR COMMODITIES: U
MINOR COMMODITIES: Mo,F,Au,Ag,Cu
TECTONIC ELEMENT: Tombstone Plutonic Suite

NTS MAP SHEET: 116 B 7
LATITUDE: 64°23'35"N
LONGITUDE: 138°41'19"W
DEPOSIT TYPE: Porphyry
STATUS: Drilled Prospect

CLAIMS (PREVIOUS AND CURRENT)

MYRNA, PEGGY, SNOW, TING, NOTING, STONE

WORK HISTORY

Probably first staked as Myrna, Peggy, etc cl (13331) in Sep/20 by C. Fothergill, E.J. Corp & D.B. Cole, who filed annual trenching until 1927. Restaked as Snow cl (79083) in 1962 by Yukon Cons Gold Corp, which mapped in 1963, and as Ting & Noting cl (YA5027) in Jun/76 by Ukon JV (Chevron & Kerr Addison), which explored with geochem and radiometric surveys in 1976-77, rock trenching in 1977 and 14 holes (1687 m) in 1979.

Chevron added Stone cl (YB17233) to the west in Jun/88 and performed prospecting and hand trenching later in the year.

GEOLOGY

Uranium is associated with biotite and disseminated purple fluorite plus rare interstitial uraninite in a pseudoleucite tinguaite phase along the southern margin of the Cretaceous Tombstone syenite stock. Ukon JV subdivided the tinguiate into three types: euhedral, foliated and aphanitic. Minor pyrrhotite, pyrite and traces of molybdenite occur throughout the tinguaite. Higher grade mineralization consists of uraninite and purple fluorite filling fine fractures within irregular stockworks, and linear zones containing uraninite, fluorite and molybdenite. Yellow secondary uranium minerals coat near-surface fractures.

Olade and Goodfellow reported a background range of 1 to 282 ppm Th and 3 to 86 ppm U in the syenite and 55 to 125 ppm Th and 3 to 206 ppm U in the tinguaite, rising to as much as 10 000 ppm U near mineralized zones which grade 0.2 to 2% U_3O_8.

The drilling intersected better than 106 g/t U_3O_8 in bands 2 to 76 m thick. A number of narrow quartz veins cutting syenite adjacent to the tinguaite contain arsenopyrite, pyrite, chalcopyrite and sulphosalts with anomalous gold and silver values.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Bulletin 180.

GEOLOGICAL SURVEY OF CANADA Paper 77-1B, p. 37-45.

NORTHERN MINER, 24 Nov/77.

MINERAL INDUSTRY REPORT 1976, p. 140-141; 1977, p. 53; 1978, p. 29.

REFERENCES (CONTINUED)

OLADE, M.A., AND GOODFELLOW, W.D., Jun/78. Development of lithochemical and hydrochemical methods of exploration for porphyry uranium, molybdenum and tungsten mineralization, Tombstone Batholith. Paper presented at the International Symposium on Exploration Geochemistry, Denver.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 292.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Teta
MINFILE #: 116B 152
MAJOR COMMODITIES: U
MINOR COMMODITIES: Mo,F
TECTONIC ELEMENT: Carmacks volcanics

NTS MAP SHEET: 116 B 7
LATITUDE: 64°24'28"N
LONGITUDE: 138°43'02"W
DEPOSIT TYPE: Porphyry
STATUS: Drilled Prospect

CLAIMS (PREVIOUS AND CURRENT)

TETA

WORK HISTORY

Staked as Teta cl (YA5259) in Aug/76 by Urangesellschaft L, which explored with mapping in 1977 and hand trenching in 1978.

GEOLOGY

The claims cover a pseudoleucite tinguaite phase at the southern margin of the Cretaceous Tombstone syenite stock. The tinguaite is strongly sheared and partially recrystallized. Linear zones up to 9 m thick containing uraninite, pyrrhotite and minor purple fluorite and molybdenite parallel foliation in the tinguaite. Yellow uranium secondary minerals coat near-surface fractures.

A 9 by 12 m outcrop of sheared tinguaite on the claims assayed 630 ppm U, while specimens assayed up to 5% U_3O_8. Olade and Goodfellow reported a background range of 1 to 282 ppm Th and 3 to 86 ppm U in the syenite and 55 to 125 ppm Th and 3 to 206 ppm U in the tinguaite.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Bulletin 180.

GEOLOGICAL SURVEY OF CANADA Paper 77-1B, p. 37-45.

MINERAL INDUSTRY REPORT 1976, p. 140-141; 1977, p. 53; 1978, p. 29.

NORTHERN MINER, 24 Nov/77.

OLADE, M.A., AND GOODFELLOW, W.D., Jun/78. Development of lithochemical and hydrochemical methods of exploration for porphyry uranium, molybdenum and tungsten mineralization, Tombstone Batholith. Paper presented at the International Symposium on Exploration Geochemistry, Denver.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Eastblack
MINFILE #: 116B 162
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 9
LATITUDE: 64°34'38"N
LONGITUDE: 138°18'58"W
DEPOSIT TYPE: Unknown
STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

CEC

WORK HISTORY

Staked as CEC cl (YBI7452) in Jul/88 by G. Freibergs, who transferred a 67% interest to C. McLennan in Jul/89.

GEOLOGY

The claims cover a contact between volcanic and sedimentary rocks of Proterozoic or Cambrian age.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Trapper
MINFILE #: 116B 167
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin
NTS MAP SHEET: 116 B 9
LATITUDE: 64°35'37"N
LONGITUDE: 137°14'13"W
DEPOSIT TYPE: Unknown
STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

TRAPPER

WORK HISTORY

Staked as 8 Trapper cl (YB40240) by O. Davis in Sep/91, who restaked the claims (YB41377) in Aug/92.

GEOLOGY

The claims are underlain by Late Proterozoic or Early Cambrian amygdaloidal andesite flows and pyroclastic rocks.

Appendix 2

Assay Results

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	100 Au ppb	Au g/t	2118 Ag ppm	2119 Al %	2120 As ppm	2121 Ba ppm	2122 Be ppm	2123 Bi ppm	2124 Ca %	2125 Cd ppm	2126 Co ppm	2127 Cr ppm	2128 Cu ppm	2150 Fe %	2130 Ga ppm	2131 Hg ppm	2132 K %
	ROCKS																		
Camp 1- Tak	98JvR 2	grey chert	<5		<.2	0.43	2	**1560**	<.5	<2	7.48	1	3	20	11	2.95	<10	<1	0.17
Camp 1- Tak	98JvR 3	gritty ss, py cubes, ?bitumen veinlet	<5		<.2	1.49	<2	540	<.5	<2	0.24	<.5	6	65	56	2.88	<10	<1	0.3
Camp 1- Tak	98JvR 6	mass: Qtz, ang meta frags, rare fg py	<5		<.2	0.22	10	250	<.5	<2	0.52	1	3	182	15	1.19	<10	<1	0.1
Camp 1- Tak	98JvR 7	sill unit, qtz veining, carbonate flooding	<5		<.2	0.65	40	190	0.5	<2	2.29	<.5	8	34	4	3.11	<10	<1	0.28
Camp 1- Tak	98JvR 8	fresh sill	<5		<.2	0.33	10	140	<.5	<2	9.36	<.5	3	40	<1	7.82	<10	<1	0.21
Camp 1- Tak	**98JvR 9**	LeadBelly, no vis sulph	<5		3.8	0.6	312	180	0.5	<2	2.95	6.5	5	21	10	4.05	<10	<1	0.38
Camp 1- Tak	**98JvR 10**	LeadBelly-ga and sphalerite on fracture	<5		2	0.46	64	150	0.5	<2	3.46	7	4	20	<1	3.98	<10	<1	0.33
Camp 4- North Face	98JvR 11a	Mt Brenner intr.	<5		<.2	1.82	24	210	0.5	<2	1.47	<.5	8	37	11	3.41	<10	<1	0.88
Camp 4- North Face	**98JvR 11b**	Qtz-asp vein at contact w satellite dyke? of Mt Brenner	**2260**		1.2	0.82	**>10000**	70	<.5	**108**	0.09	<.5	**106**	50	2	7.11	<10	1	0.17
Camp 4- North Face	98JvR 11c	mafic dyke	<5		<.2	2.65	**624**	280	1	<2	1.9	<.5	10	29	17	4.47	10	<1	1.33
Camp 4- North Face	98JvR 12a	Mt Brenner intr.	<5		<.2	1.41	**814**	110	0.5	<2	0.24	<.5	2	57	47	3.71	<10	<1	0.28
Camp 4- North Face	98JvR 12b	graphitic shale at contact	<5		<.2	2.52	40	250	<.5	<2	0.17	<.5	5	79	19	3.07	<10	<1	1.25
Camp 5- Bear	98JvR 13a	qtz-fspar-py-mt? Stingers in Mt Brenner intr.	<5		<.2	0.93	18	200	0.5	<2	1.07	<.5	9	67	73	2.73	<10	1	0.45
Camp 5- Bear	98JvR 13b	rep sample Mount Brenner	<5		<.2	0.57	10	70	0.5	<2	0.77	<.5	3	73	<1	1.48	<10	<1	0.18
Camp 5- Bear	98JvR 14	altered monzonite, green hbl and pink kspars	<5		<.2	0.65	6	70	1	<2	1.76	<.5	3	67	<1	1.62	<10	<1	0.15
Camp 5- Bear	**98JvR 16**	ox. fract in Mt Brenner intr, py in selv.	**2550**		0.4	1.03	**958**	200	<.5	**84**	1.21	<.5	29	38	**159**	3.76	<10	<1	0.42
Camp 5- Bear	98JvR 17	oxidized hfls Mt Brenner, sulphides	30		0.6	0.74	120	100	<.5	<2	1.31	<.5	24	66	**547**	3.42	<10	<1	0.09
Camp 5- Bear	98JvR 18	drusy qtz vein w rusty vugs, tr py, at Mt Brenner/seds contact	15		0.8	0.08	66	<10	<.5	<2	<.01	<.5	5	267	32	3.68	<10	<1	0.03
Camp 5- Bear	98JvR 19	rusty fractures in Mt Brenner int, diss pyrite	<5		<.2	0.93	58	160	<.5	<2	0.3	<.5	6	126	23	2.33	<10	<1	0.49
Camp 5- Bear	98JvR 20	rep sample JLs shales	<5		0.6	1.9	8	20	<.5	<2	7.86	0.5	6	139	47	1.17	<10	<1	0.01
Camp 5- Bear	98JvR 21	MKH rusty qtzite w bands of diss py,rare cp	<5		0.2	2.64	**330**	160	1	<2	0.41	<.5	18	159	**119**	3.69	10	<1	0.56
Camp 5- Bear	98JvR 22	MKH white qtzite, sericitized	<5		<.2	0.23	2	<10	<.5	<2	0.61	<.5	1	247	11	0.41	<10	<1	0.01
Camp 5- Bear	98JvR 23	triassic diorite cut by cretaceous felsic dykes. Float	<5		<.2	3.96	22	40	<.5	<2	2.58	<.5	11	93	82	1.73	<10	<1	0.24
Camp 5- Bear	98JvR 24	fresh Mt Brenner syenite w mafic xenoliths	<5		<.2	0.83	8	90	0.5	<2	0.97	<.5	5	61	1	1.9	<10	<1	0.29
Camp 5- Bear	98JvR 25	shale w 20% py at contact	20		0.6	0.41	62	60	<.5	<2	0.39	<.5	10	113	89	4.94	<10	<1	0.15
Camp 5- Bear	98JvR 27	folded JLs, rusty fractres, f.g.diss py<1%	<5		1.2	1.39	8	260	1	<2	0.04	<.5	8	151	32	2.06	<10	<1	0.39
Camp 6- Hunter	98JvR 28	qtz-carb breccia-vein, Mn coating, rusty veinlets w< 1% py	<5		<.2	0.53	10	50	<.5	<2	7.03	<.5	9	108	11	3.54	<10	<1	0.05
Camp 6- Hunter	98JvR 29	rep sample Road River chert?	<5		<.2	0.12	<2	<10	<.5	<2	0.46	<.5	1	191	<1	0.84	<10	<1	0.03
Camp 6- Hunter	98JvR 30		<5		<.2	1.93	<2	480	0.5	<2	1.7	<.5	6	39	1	3.32	<10	1	1
Camp 6- Hunter	98JvR 31a	dk grey shales/hfls w rusty fractures and oxides	<5		<.2	1.18	8	310	<.5	<2	0.03	<.5	1	113	13	3.3	<10	<1	0.58
Camp 6- Hunter	98JvR 31b	mafic dyke, biotite	<5		<.2	3.89	10	930	1	<2	4.66	<.5	19	73	22	5.41	10	<1	2.6
Camp 6- Hunter	98JvR 32	vuggy qtz-ox purite vein on fracture surface in intrusion	<5		0.4	1.22	8	390	<.5	<2	5.3	<.5	22	111	84	5.14	<10	<1	0.28
Camp 6- Hunter	98JvR 38	rust boulders, fericrete	<5		<.2	1.55	10	370	<.5	<2	0.25	<.5	10	141	25	2.73	<10	<1	0.26
Camp 7- Horn	98JvR 39a	rusty c.g. syenite, 2% py diss and l blebs	<5		<.2	0.24	<2	40	0.5	<2	0.21	<.5	5	54	37	1.29	<10	<1	0.18
Camp 7- Horn	98JvR 39b	calc-silicate hfls, , f.g. diss py	<5		<.2	2.23	<2	10	<.5	<2	2.13	<.5	3	108	9	0.5	<10	<1	0.11
Camp 7- Horn	98JvR 40	felsic dyke w <1% py disseminated and in clots along fract surfaces	<5		<.2	0.27	2	<10	1	<2	0.05	<.5	<1	127	1	0.53	<10	<1	0.16
Camp 7- Horn	98JvR 41	very rusty punky garnet-actinolite skarn. Float	<5		1.2	1.9	2	<10	<.5	<2	5.02	<.5	<1	64	61	8.39	<10	<1	0.03
Camp 7- Horn	98JvR 42	bleached clay-altered Tombstn bath, rusty fract, <1% py, po. Talus	<5		<.2	0.3	4	50	0.5	<2	0.16	<.5	1	38	5	0.68	<10	1	0.23
Camp 7- Horn	98JvR 43	calc-silicate hfls, stongly jointed and veined, epidote on fractures	<5		0.2	0.18	<2	210	<.5	<2	10.9	<.5	<1	55	1	0.49	<10	<1	0.01
Camp 7- Horn	98JvR 44	calc-sils-skarn, wollastonite. s/c.	<5		<.2	0.57	<2	<10	<.5	<2	>15.00	<.5	<1	35	1	0.48	<10	<1	0.01
Camp 7- Horn	98JvR 45	rep sample syenite	<5		<.2	0.46	18	110	<.5	<2	0.51	<.5	1	56	76	1.27	<10	<1	0.14
Camp 7- Horn	98JvR 46e	poorly developped skarn, brecc. Chl-epid-calc-silic-act?-qtz-pink mineral	<5		0.8	0.08	12	10	5	10	5.63	<.5	6	101	4	2.98	<10	<1	0.22
Camp 7- Horn	98JvR 46f	banded hfls'd MKH, pink halos around magnetic mineral, mafic mineral	<5		<.2	0.98	10	<10	2.5	<2	0.92	<.5	<1	21	3	2.64	10	<1	0.54
Camp 7- Horn	98JvR 47	rep sample PCH2 limestone	<5		<.2	0.31	<2	10	<.5	<2	>15.00	<.5	1	8	12	0.57	<10	<1	0.04
Camp 8-Cath.Mntn	98JvR 48	PCH1 grit, loc altered cement	<5		<.2	0.33	6	30	<.5	<2	0.1	<.5	2	206	5	2.25	<10	<1	0.08
Camp 8-Cath.Mntn	98JvR 49	crusy qtz -limonite vein at contact between grit and shale	<5		<.2	0.31	2	20	<.5	<2	0.24	<.5	6	220	12	5.2	<10	<1	0.02
Camp 8-Cath.Mntn	98JvR 50a	rep sample Pd diorite	<5		<.2	3.33	<2	670	0.5	<2	2.34	<.5	26	10	88	7.21	10	<1	0.05
Camp 8-Cath.Mntn	98JvR 51	bleached felsic dyke, clay altered matrix, lcm qtz stringer	<5		<.2	0.53	6	120	0.5	<2	1.93	<.5	1	37	1	1.24	<10	<1	0.25
Camp 8-Cath.Mntn	98JvR 54	Cathedral Mntn intr w buff orange groundmass, oxidized mafics	<5		1.4	0.91	**550**	290	0.5	2	0.11	1.5	3	24	**153**	1.74	<10	1	0.34

all rx

		2151	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149
CAMP	SAMPLE	**La**	**Mg**	**Mn**	**Mo**	**Na**	**Ni**	**P**	**Pb**	**Sb**	**Sc**	**Sr**	**Ti**	**Tl**	**U**	**V**	**W**	**Zn**
	NUMBER	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	ROCKS																	
Camp 1- Tak	98JvR 2	<10	3.65	2160	<1	0.01	25	470	2	<2	3	1055	<.01	<10	<10	7	<10	48
Camp 1- Tak	98JvR 3	10	0.97	295	<1	0.01	22	60	6	<2	4	45	<.01	<10	<10	17	<10	52
Camp 1- Tak	98JvR 6	<10	0.29	160	1	<.01	14	<10	<2	<2	2	194	<.01	<10	<10	5	<10	50
Camp 1- Tak	98JvR 7	40	0.21	870	3	0.04	3	720	20	<2	3	198	<.01	<10	<10	7	<10	66
Camp 1- Tak	98JvR 8	20	0.91	3430	2	0.03	1	250	16	<2	1	847	<.01	<10	<10	2	<10	40
Camp 1- Tak	**98JvR 9**	30	0.29	1555	11	0.05	3	600	**3610**	6	1	638	<.01	<10	<10	3	<10	**1810**
Camp 1- Tak	**98JvR 10**	40	0.3	1820	1	0.04	3	550	**1890**	<2	1	513	<.01	<10	<10	1	<10	**1610**
Camp 4- North Face	98JvR 11a	30	0.74	750	3	0.06	6	740	54	<2	6	124	0.13	<10	<10	59	<10	68
Camp 4- North Face	**98JvR 11b**	10	0.24	130	3	0.04	4	330	60	32	1	29	<.01	<10	<10	22	<10	24
Camp 4- North Face	98JvR 11c	40	0.8	800	2	0.14	6	980	8	<2	10	221	0.15	<10	<10	103	<10	42
Camp 4- North Face	98JvR 12a	40	0.58	240	1	0.05	6	650	12	<2	6	54	0.1	<10	<10	56	<10	30
Camp 4- North Face	98JvR 12b	10	1.27	300	<1	0.07	10	410	2	<2	6	32	0.12	<10	<10	46	<10	38
Camp 5- Bear	98JvR 13a	40	0.68	395	1	0.14	5	730	12	<2	4	68	0.1	<10	<10	57	<10	48
Camp 5- Bear	98JvR 13b	40	0.26	305	1	0.14	1	430	10	<2	2	62	0.08	<10	<10	23	<10	24
Camp 5- Bear	98JvR 14	40	0.11	380	2	0.06	1	290	16	<2	1	209	<.01	<10	<10	14	<10	42
Camp 5- Bear	**98JvR 16**	40	0.56	280	4	0.12	4	1430	12	<2	4	84	0.1	<10	<10	87	<10	36
Camp 5- Bear	98JvR 17	30	0.26	90	**30**	0.08	93	**2790**	14	<2	1	93	0.11	<10	<10	54	<10	36
Camp 5- Bear	98JvR 18	<10	<.01	45	6	<.01	6	<10	**116**	<2	<1	4	<.01	<10	<10	4	<10	166
Camp 5- Bear	98JvR 19	30	0.52	270	1	0.1	4	420	10	<2	3	40	0.12	<10	<10	34	10	38
Camp 5- Bear	98JvR 20	10	0.05	200	3	0.04	33	2210	<2	<2	<1	226	0.07	<10	<10	8	<10	12
Camp 5- Bear	98JvR 21	10	0.85	245	<1	0.11	45	370	<2	<2	8	41	0.06	<10	<10	53	<10	82
Camp 5- Bear	98JvR 22	<10	0.08	30	1	0.01	6	900	<2	<2	<1	22	0.03	<10	<10	3	<10	4
Camp 5- Bear	98JvR 23	<10	0.81	185	<1	0.47	30	300	<2	<2	5	102	0.13	<10	<10	62	<10	20
Camp 5- Bear	98JvR 24	50	0.42	410	1	0.16	2	470	10	<2	3	55	0.09	<10	<10	23	<10	38
Camp 5- Bear	98JvR 25	30	0.12	80	3	0.08	8	570	10	<2	1	50	0.12	<10	<10	20	<10	22
Camp 5- Bear	98JvR 27	50	0.25	85	1	0.02	12	460	22	<2	10	37	0.01	<10	<10	33	<10	20
Camp 6- Hunter	98JvR 28	<10	3.19	3780	1	0.02	22	160	16	<2	2	308	<.01	<10	<10	18	<10	36
Camp 6- Hunter	98JvR 29	<10	0.15	405	1	<.01	5	<10	<2	<2	<1	13	<.01	<10	<10	<1	<10	2
Camp 6- Hunter	98JvR 30	60	0.39	1000	2	0.09	10	870	6	<2	4	206	0.11	<10	<10	33	<10	70
Camp 6- Hunter	98JvR 31a	10	0.31	90	<1	0.08	3	690	16	<2	2	63	0.01	<10	<10	33	<10	30
Camp 6- Hunter	98JvR 31b	50	2.4	1300	<1	0.04	18	1570	20	<2	16	207	0.29	<10	<10	121	<10	128
Camp 6- Hunter	98JvR 32	10	2.23	890	<1	0.03	59	800	<2	<2	6	346	<.01	<10	<10	27	<10	52
Camp 6- Hunter	98JvR 38	10	0.93	715	<1	0.04	29	250	34	<2	4	25	0.05	<10	<10	33	<10	106
Camp 7- Horn	98JvR 39a	40	0.04	105	<1	0.04	4	100	14	<2	<1	48	0.04	<10	<10	8	<10	18
Camp 7- Horn	98JvR 39b	10	0.07	160	1	0.21	9	30	26	<2	<1	96	0.11	<10	<10	9	<10	36
Camp 7- Horn	98JvR 40	10	<.01	70	2	0.06	2	<10	42	<2	<1	5	<.01	<10	20	<1	<10	10
Camp 7- Horn	98JvR 41	<10	0.03	3060	2	0.01	<1	<10	12	2	3	<1	0.07	<10	<10	26	<10	32
Camp 7- Horn	98JvR 42	30	0.06	85	1	0.06	<1	90	12	<2	<1	40	0.06	<10	<10	8	<10	12
Camp 7- Horn	98JvR 43	<10	<.01	445	1	0.01	1	40	<2	<2	<1	82	0.02	<10	<10	<1	<10	8
Camp 7- Horn	98JvR 44	<10	0.01	360	1	0.03	<1	410	12	<2	<1	122	0.02	<10	<10	3	<10	14
Camp 7- Horn	98JvR 45	30	0.11	80	6	0.08	1	800	10	<2	<1	59	0.09	<10	<10	15	<10	10
Camp 7- Horn	98JvR 46e	200	0.66	1440	9	0.39	12	**3940**	**224**	<2	6	2340	0.05	<10	<10	66	<10	248
Camp 7- Horn	98JvR 46f	340	0.01	1350	1	0.25	1	30	176	<2	<1	14	0.09	<10	130	1	<10	176
Camp 7- Horn	98JvR 47	<10	0.26	2060	1	<.01	3	250	10	<2	1	504	<.01	<10	<10	2	<10	14
Camp 8-Cath.Mntn	98JvR 48	<10	<.01	290	1	<.01	8	100	10	<2	1	67	<.01	<10	<10	6	<10	26
Camp 8-Cath.Mntn	98JvR 49	<10	0.07	1070	<1	<.01	13	1030	106	<2	1	25	<.01	<10	<10	6	<10	50
Camp 8-Cath.Mntn	98JvR 50a	40	3.56	2450	1	0.03	43	1370	12	2	8	81	0.11	<10	<10	133	<10	128
Camp 8-Cath.Mntn	98JvR 51	30	0.08	175	2	0.05	1	340	58	<2	<1	277	<.01	<10	10	<1	<10	74
Camp 8-Cath.Mntn	98JvR 54	30	0.2	250	1	0.04	7	420	198	<2	<1	42	<.01	<10	<10	4	<10	142

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	Au ppb	Au g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
Camp 8-Cath.Mntn	98JvR 55a	siliceous shale and chert, yellow oxide Road River?	<5		0.2	2.01	12	310	<.5	<2	0.39	<.5	11	76	18	3.79	<10	<1	0.26
Camp 8-Cath.Mntn	**98JvR 55b**	Cathedral Mntn, chert breccia at intrusive contact, limonitic spots	**220**		0.6	0.13	**7500**	130	<.5	4	0.02	<.5	3	62	**120**	13.8	<10	<1	0.05
Camp 8-Cath.Mntn	98JvR 55c	Earn Group cpcgl cut by milky qtz veins	<5		0.2	0.19	132	160	<.5	<2	0.02	<.5	4	136	30	0.83	<10	<1	0.08
Camp 8-Cath.Mntn	98JvR 56	Cath Mntn stock cut by drusy porous qtz veins	<5		<.2	0.95	10	90	0.5	<2	1	<.5	3	54	1	2.02	<10	<1	0.18
Camp 8-Cath.Mntn	98JvR 57	Cath Mntn stock, lt green alteration, clay alt, rusty clots, diss py, asp. Float	<5		2	1.37	**624**	80	<.5	8	0.35	<.5	1	39	2	1.61	<10	1	0.07
Camp 9- Felsic volcs	**98JvR 60a**	banded drusy qtz-siderite-py(asp) vvein w clay alteration, s/c.	<5		1	0.32	**362**	110	<.5	2	1.03	0.5	31	47	30	>15.00	<10	<1	0.2
Camp 9- Felsic volcs	98JvR 60b	felsic or silicified mafic volcs cut by carb-py stringers	<5		<.2	1.43	6	20	0.5	<2	6.64	<.5	27	88	31	7	10	<1	0.03
Camp 9- Felsic volcs	98JvR 61	fragmental volcanic w calcite in matrix	<5		<.2	3.35	2	40	1.5	<2	3.6	<.5	**52**	413	66	8.59	10	<1	0.11
Camp 9- Felsic volcs	98JvR 62b	carbonate altered volcanic w cc veinlets and in clots	<5		<.2	0.64	4	40	0.5	<2	3.88	<.5	**51**	168	42	6.79	<10	<1	0.04
Camp 9- Felsic volcs	98JvR 63a	felsic volc w patchy py and 40m wide zone of qtz-carb veining/alt. Loc vugs	<5		<.2	0.34	<2	40	<.5	<2	2.85	<.5	7	169	41	2.91	<10	<1	0.04
Camp 9- Felsic volcs	98JvR 63b	brecciated carbonate altered volcanics, qtz-carb veining	<5		0.2	0.36	14	570	<.5	<2	2.71	<.5	20	122	74	7.74	<10	<1	0.05
Camp 9- Felsic volcs	**98JvR 63d**	Burke Zone ridge side: qtz-sider-ga-mal-az 70cm	<5		**1175g/t**	0.06	**818**	130	<.5	12	0.08	**8.5**	3	119	**4880**	**>15.00**	<10	16	0.03
Camp 9- Felsic volcs	98JvR 64	banded qtz-carb vein	<5		1.4	0.19	14	110	<.5	<2	3.33	<.5	3	169	11	2.03	<10	<1	0.09
Camp 9- Felsic volcs	98JvR 65a	altered volcs, py up to 2%	<5		6.8	1.08	6	70	1.5	<2	5.21	<.5	23	27	52	8	10	<1	0.03
Camp 9- Felsic volcs	98JvR 65b	strong carb-altered volcs, qtz-carb stockwork, py < 2%, asp?	<5		<.2	0.1	8	20	<.5	<2	5.64	<.5	5	111	2	3.91	<10	<1	0.03
Camp 9- Felsic volcs	98JvR 66a	recessive zone in amygdaloidal vlocs, <1% py	<5		0.6	0.47	20	140	0.5	<2	10.15	<.5	12	13	11	6.41	<10	<1	0.18
Camp 9- Felsic volcs	98JvR 66b	qtz-sider vein , 2-8 cm,	<5		2	0.3	30	230	<.5	<2	0.81	<.5	9	100	23	13.95	<10	<1	0.09
Camp 9- Felsic volcs	98JvR 67	amygd. volcs cut by en echelon qtz stringers + qtz-carb veinlets, f.g. py<2%	<5		0.4	0.37	12	30	<.5	<2	7.98	<.5	19	45	30	6.34	<10	<1	0.01
Camp 9- Felsic volcs	98JvR 68a	rep sample, dk Pd diorite-gabbro	<5		<.2	1.31	4	30	<.5	<2	4.29	<.5	15	19	28	5.38	10	<1	<.01
Camp 9- Felsic volcs	98JvR 68b	lt cloloured chert, py 1%	<5		2	0.09	22	10	<.5	<2	0.89	<.5	4	254	57	0.99	<10	<1	0.01
Camp 9- Felsic volcs	98JvR 69	dk platy shale w <3% py (Road River of Earn Gp?)	<5		0.2	1.06	26	280	0.5	<2	0.06	<.5	1	28	18	1.42	<10	<1	0.58
Camp 9- Felsic volcs	98JvR 71b	bleached volcaniclastic, carb stringers, fuchsite, <1% py	<5		<.2	1.77	2	50	0.5	<2	1.37	<.5	36	82	55	10.5	10	<1	0.02
Camp 9- Felsic volcs	98JvR 73	PCH3, qtz-carb stockwork in maroon+green shales, sheared, py<1%	<5		<.2	1.11	<2	40	<.5	<2	2.58	<.5	11	182	20	2.88	<10	<1	0.12
Camp 9- Felsic volcs	98JvR 74a	carbonate flooding in maroon + gren sh, chl, f.g. py	<5		<.2	0.5	<2	200	<.5	<2	9.47	<.5	13	107	49	3.4	<10	<1	0.05
Camp 9- Felsic volcs	98JvR 75	coarse calcite (-barite?) vein, talc (altered mafic volc)	<5		<.2	0.04	<2	**2960**	<.5	<2	>15.00	<.5	<1	49	1	0.14	<10	<1	<.01
Camp 9- Felsic volcs	98JvR 76a	rep sample COv	<5		<.2	2.91	<2	270	3.5	4	5.16	<.5	30	48	48	7.83	10	<1	0.66
Camp 9- Felsic volcs	98JvR 76b	white sheared qtz	<5		<.2	0.23	<2	70	<.5	<2	>15.00	<.5	1	13	4	1.02	<10	<1	0.09
Camp 10- Bay	98JvR 77a	rep sample dark fissile shale Road River?	<5		<.2	2.53	8	280	0.5	<2	0.2	<.5	18	73	51	3.8	<10	<1	0.43
Camp 10- Bay	98JvR 78a	Pd diorite, altered fspars, py <1%	<5		<.2	3.21	<2	30	<.5	<2	9.54	<.5	35	203	28	7.46	10	<1	0.01
Camp 10- Bay	98JvR 78b	rep sample CDb, thinly bedded limestone i// w calcareous siltstone	<5		<.2	0.18	<2	10	<.5	<2	12.35	<.5	1	54	1	0.4	<10	<1	0.01
Camp 10- Bay	98JvR 78c	rep sample Road River ? shale,loc light yellow weathering tr py	<5		0.2	1.37	30	160	<.5	<2	0.04	<.5	2	265	15	2.58	<10	<1	0.08
Camp 10- Bay	98JvR 81	rep sample Gull Lake, lt brown weath. wispy laminated siltstone	<5		<.2	2.48	2	400	0.5	<2	2.11	<.5	9	54	42	3.61	<10	<1	0.5
Camp 10- Bay	98JvR 82b	lt grey weath siliceous siltstone+ dk grey rusty chert w 1% diss py	<5		0.2	0.41	14	350	<.5	<2	0.03	<.5	4	218	30	1.54	<10	<1	0.11
Camp 10- Bay	98JvR 82c	rusty qtz, boxwork and drusy texture, black sulph?	<5		<.2	0.25	18	360	<.5	<2	0.61	<.5	<1	237	13	1.38	<10	<1	0.05
Camp 10- Bay	98JvR 83	orange weath siltstone/sandstone w 1% diss py and in clots (Road River)	<5		<.2	0.5	<2	1040	<.5	<2	9.62	<.5	1	15	16	2.87	<10	<1	0.21
Camp 10- Bay	98JvR 85	Fragmental amygdul. COv	<5		<.2	4.02	<2	640	<.5	<2	9.15	<.5	49	443	85	6.84	10	<1	0.22
Camp 10- Bay	98JvR 86	rep sample Road River chert, lt grey weath chert, loc rusty fract	<5		<.2	0.39	8	190	<.5	<2	0.24	<.5	2	280	31	0.92	<10	<1	0.1
Camp 10- Bay	98JvR 89	mafic volcanics w calcite veinlet w 1% py blebs	<5		<.2	2.06	2	310	<.5	<2	11.95	<.5	22	390	32	4.02	10	<1	0.01
Camp 10- Bay	98JvR 90	UMF augite-porph flows	<5		<.2	2.82	<2	60	<.5	<2	0.86	<.5	58	176	67	5.25	<10	<1	<.01
Camp 10- Bay	98JvR 91	augite-phyric pillow basalt, large phenos	<5		<.2	1.77	<2	70	<.5	<2	9.61	<.5	42	326	62	3.54	<10	<1	0.01
Camp 10- Bay	98JvR 92	pillow basalt	<5		<.2	3	<2	40	<.5	<2	0.69	<.5	**58**	137	89	4.76	<10	<1	<.01
Camp 11- Brx	98JvR 93b	PR5, rusty weath green siltstone to ssstne w rusty vugs (weath py?). Float	<5		0.2	0.89	12	280	0.5	<2	0.09	<.5	18	118	17	4.08	<10	<1	0.23
Camp 11- Brx	98JvR 93c	?	<5		<.2	0.95	12	160	<.5	<2	0.08	<.5	20	131	15	5.79	<10	<1	0.27
Camp 11- Brx	98JvR 94a	PF2, rusty weath f.g. sandstone, orange clayey alteration on weath surf.	<5		<.2	0.19	6	740	<.5	<2	<.01	<.5	<1	289	3	1.22	<10	<1	0.18
Camp 11- Brx	98JvR 94b	dk grey shales/hfls w rusty fractures and oxides	<5		<.2	0.53	4	180	<.5	<2	0.03	<.5	<1	265	4	0.91	<10	<1	0.31
Camp 11- Brx	98JvR 95	PF3, brecciated f.g. laminated dolomitic argillite, veining and breccia	<5		<.2	0.2	<2	40	<.5	<2	>15.00	<.5	<1	3	<1	0.43	<10	<1	0.1
Camp 11- Brx	98JvR 96	rep sample PF1, pinkish buff weathering massive v.f.g.	<5		<.2	0.07	<2	10	<.5	<2	14.55	<.5	<1	24	1	0.28	<10	<1	0.03
Camp 11- Brx	98JvR 97	limonite vein in pinkish weath mass. f.g. dolostone	<5		<.2	0.09	<2	10	<.5	<2	>15.00	<.5	<1	<1	<1	0.56	<10	<1	0.05
Camp 11- Brx	98JvR 98a	rusty weathering qtzite	<5		<.2	0.15	2	300	<.5	<2	0.19	<.5	<1	252	1	0.39	<10	<1	0.07
Camp 11- Brx	98JvR 98b	PR5, graphitic shaly partings	<5		<.2	0.17	4	840	<.5	<2	0.18	<.5	<1	242	2	0.58	<10	<1	0.12
Camp 11- Brx	98JvR 99	rep sample maroon shale	<5		<.2	1.6	<2	350	1	<2	0.03	<.5	4	95	10	2.9	<10	<1	0.66
Camp 11- Brx	98JvR 100	PF4 pinkish carb tension gashes	<5		<.2	0.1	<2	10	<.5	<2	>15.00	1.5	<1	1	<1	0.42	<10	<1	0.06
Camp 11- Brx	98JvR 101	yellow-gren weathering qtz breccia or cgl, f.g. py	<5		<.2	0.46	2	690	<.5	<2	0.05	<.5	<1	184	3	0.84	<10	<1	0.32
Camp 11- Brx	98JvR 102	PR5, dk grey banded qtzite w up to 2%	<5		0.2	0.61	10	320	<.5	<2	0.09	<.5	1	99	96	0.65	<10	<1	0.34

CAMP	SAMPLE NUMBER	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Camp 8-Cath.Mntn	98JvR 55a	20	0.85	405	5	0.03	41	1100	8	2	4	72	0.01	<10	<10	52	<10	86
Camp 8-Cath.Mntn	**98JvR 55b**	<10	0.1	5600	1	0.01	19	220	**352**	10	1	44	<.01	<10	<10	7	<10	82
Camp 8-Cath.Mntn	98JvR 55c	<10	0.01	80	1	<.01	14	170	64	<2	<1	9	<.01	<10	<10	4	<10	26
Camp 8-Cath.Mntn	98JvR 56	60	0.36	295	4	0.1	2	560	14	<2	1	80	0.08	<10	10	6	<10	68
Camp 8-Cath.Mntn	98JvR 57	20	0.03	175	3	<.01	1	250	96	<2	1	105	<.01	<10	20	4	<10	66
Camp 9- Felsic volcs	**98JvR 60a**	<10	0.46	9910	3	<.01	**203**	890	**224**	20	7	174	<.01	<10	10	24	<10	130
Camp 9- Felsic volcs	98JvR 60b	20	3.73	1145	1	0.03	83	2130	<2	4	8	918	0.01	<10	<10	136	<10	106
Camp 9- Felsic volcs	98JvR 61	20	4.45	880	1	0.04	**282**	1680	<2	2	16	476	0.03	<10	<10	187	<10	88
Camp 9- Felsic volcs	98JvR 62b	30	2.54	935	2	0.07	125	2660	18	2	10	593	0.01	<10	<10	138	<10	90
Camp 9- Felsic volcs	98JvR 63a	<10	1.21	680	1	0.01	14	870	22	4	2	369	<.01	<10	<10	24	<10	30
Camp 9- Felsic volcs	98JvR 63b	<10	1.29	2000	6	0.01	71	480	32	8	3	339	<.01	<10	<10	30	<10	106
Camp 9- Felsic volcs	**98JvR 63d**	<10	0.13	8130	2	<.01	72	230	**1.92%**	**2490**	1	101	<.01	<10	<10	13	10	**334**
Camp 9- Felsic volcs	98JvR 64	<10	1.39	515	1	<.01	15	420	38	12	3	605	<.01	<10	<10	7	<10	14
Camp 9- Felsic volcs	98JvR 65a	60	2.71	1625	<1	0.06	30	**5070**	130	16	3	1665	0.04	<10	<10	92	<10	148
Camp 9- Felsic volcs	98JvR 65b	10	1.77	845	1	0.01	6	1270	32	<2	<1	1045	<.01	<10	<10	15	<10	60
Camp 9- Felsic volcs	98JvR 66a	30	4.78	2350	<1	0.01	15	2430	96	6	1	2220	<.01	<10	<10	18	<10	62
Camp 9- Felsic volcs	98JvR 66b	20	0.44	5120	7	0.01	23	1210	**806**	28	1	272	<.01	<10	<10	13	<10	82
Camp 9- Felsic volcs	98JvR 67	30	4.4	1120	1	0.05	41	1850	20	2	6	1365	<.01	<10	<10	93	<10	86
Camp 9- Felsic volcs	98JvR 68a	80	1.77	1190	3	0.07	9	3840	30	<2	3	901	<.01	<10	<10	110	<10	106
Camp 9- Felsic volcs	98JvR 68b	<10	0.34	175	15	0.06	9	600	70	6	1	114	<.01	<10	<10	6	<10	38
Camp 9- Felsic volcs	98JvR 69	30	0.12	30	6	0.05	14	750	56	<2	4	93	<.01	<10	<10	66	<10	48
Camp 9- Felsic volcs	98JvR 71b	60	1.97	1435	<1	0.05	97	3610	<2	2	9	314	0.01	<10	<10	220	<10	144
Camp 9- Felsic volcs	98JvR 73	<10	0.86	270	<1	0.01	50	150	<2	<2	4	91	0.04	<10	<10	19	<10	50
Camp 9- Felsic volcs	98JvR 74a	<10	4.24	1040	<1	0.01	83	520	6	<2	3	142	<.01	<10	<10	15	<10	74
Camp 9- Felsic volcs	98JvR 75	<10	0.11	525	<1	<.01	3	20	<2	<2	<1	1690	<.01	<10	<10	1	<10	2
Camp 9- Felsic volcs	98JvR 76a	30	2.88	600	3	<.01	47	870	<2	2	9	877	0.7	<10	<10	169	<10	118
Camp 9- Felsic volcs	98JvR 76b	10	0.35	1965	<1	0.01	6	70	4	<2	2	3780	0.03	<10	10	15	<10	12
Camp 10- Bay	98JvR 77a	30	1.35	180	1	<.01	64	420	12	<2	4	19	<.01	<10	<10	33	<10	110
Camp 10- Bay	98JvR 78a	20	3.22	2930	<1	0.01	**145**	1800	<2	2	13	174	0.06	<10	<10	153	<10	**268**
Camp 10- Bay	98JvR 78b	<10	0.12	1395	<1	0.01	4	200	2	<2	1	124	<.01	<10	<10	13	<10	10
Camp 10- Bay	98JvR 78c	<10	0.55	130	5	0.01	11	90	36	2	1	6	<.01	<10	<10	17	<10	66
Camp 10- Bay	98JvR 81	30	2.08	745	<1	0.01	25	540	12	2	6	60	<.01	<10	<10	35	<10	58
Camp 10- Bay	98JvR 82b	<10	0.18	100	5	0.01	17	110	20	<2	<1	13	<.01	<10	<10	13	<10	34
Camp 10- Bay	98JvR 82c	<10	0.2	40	3	0.01	4	470	24	<2	<1	59	<.01	<10	<10	10	<10	18
Camp 10- Bay	98JvR 83	<10	5.32	1025	<1	0.01	6	230	<2	<2	3	814	<.01	<10	<10	7	<10	22
Camp 10- Bay	98JvR 85	10	2.61	670	1	0.01	**313**	1240	<2	2	18	245	0.01	<10	<10	152	<10	80
Camp 10- Bay	98JvR 86	<10	0.17	35	7	0.01	12	950	12	<2	1	31	<.01	<10	<10	39	<10	28
Camp 10- Bay	98JvR 89	30	2.19	960	1	<.01	81	1900	<2	<2	9	275	0.19	<10	<10	138	<10	68
Camp 10- Bay	98JvR 90	<10	7.45	540	<1	<.01	**561**	530	<2	2	3	24	0.18	<10	<10	43	<10	54
Camp 10- Bay	98JvR 91	<10	2.66	535	1	<.01	**361**	760	<2	<2	8	173	0.35	<10	<10	68	<10	66
Camp 10- Bay	98JvR 92	<10	7.08	475	<1	<.01	**520**	560	<2	2	1	22	0.19	<10	<10	43	<10	52
Camp 11- Brx	98JvR 93b	<10	0.15	860	2	<.01	24	140	96	<2	1	13	<.01	<10	<10	17	<10	82
Camp 11- Brx	98JvR 93c	<10	0.48	2080	2	<.01	28	150	14	<2	2	13	<.01	<10	<10	29	<10	60
Camp 11- Brx	98JvR 94a	<10	0.01	20	4	<.01	4	20	14	<2	<1	6	<.01	<10	<10	6	<10	10
Camp 11- Brx	98JvR 94b	<10	0.05	20	5	<.01	3	10	60	<2	<1	3	<.01	<10	<10	9	<10	12
Camp 11- Brx	98JvR 95	<10	9.94	145	1	0.01	<1	50	6	<2	<1	35	<.01	<10	<10	9	<10	40
Camp 11- Brx	98JvR 96	<10	9.46	235	<1	0.01	<1	60	12	2	<1	30	<.01	<10	<10	4	<10	52
Camp 11- Brx	98JvR 97	<10	10.35	185	<1	0.01	1	50	14	<2	<1	20	<.01	<10	<10	6	<10	74
Camp 11- Brx	98JvR 98a	<10	0.13	15	5	<.01	2	10	8	<2	<1	3	<.01	<10	<10	3	<10	6
Camp 11- Brx	98JvR 98b	<10	0.12	15	4	<.01	3	<10	**532**	<2	<1	6	<.01	<10	<10	3	<10	10
Camp 11- Brx	98JvR 99	<10	0.13	15	1	<.01	10	50	12	<2	3	10	<.01	<10	<10	22	<10	34
Camp 11- Brx	98JvR 100	<10	10.15	230	<1	0.01	1	100	<2	<2	<1	59	<.01	<10	10	3	<10	44
Camp 11- Brx	98JvR 101	<10	0.07	15	4	0.01	3	40	30	<2	<1	13	<.01	<10	<10	9	<10	10
Camp 11- Brx	98JvR 102	<10	0.1	5	6	<.01	4	110	116	<2	1	32	<.01	<10	<10	5	<10	12

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	Au ppb	Au g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
Camp 11- Brx	98JvR 103	cgl w orange fractures	<5		<.2	1.41	8	70	1.5	<2	0.03	<.5	3	151	21	3.24	<10	<1	0.47
Camp 11- Brx	98JvR 104	PR4 grey dolostone w orange carbonate veining, loc oolitic	<5		<.2	0.02	<2	<10	<.5	<2	>15.00	<.5	<1	<1	1	0.34	<10	<1	0.01
Camp 11- Brx	98JvR 105	PGL dolostone w 2% py	<5		<.2	2	6	160	1	<2	4.49	<.5	3	48	7	1.57	<10	<1	0.96
Camp 11- Brx	**98JvR 106**	PR4/PGL, oxidized sulphides, s/c	<5		**4.6**	0.1	**144**	710	<.5	<2	0.23	6	4	4	15	>15.00	<10	<1	0.04
Camp 11- Brx	98JvR 107	rep sample PQuartet, brown thinly bedded siltstone	<5		<.2	1.58	<2	60	0.5	<2	3.73	<.5	5	49	5	1.65	<10	<1	0.54
Camp 11- Brx	98JvR 108	PQ dk fissile shale, rare rusty fractures	<5		0.2	2.54	10	130	0.5	<2	0.04	<.5	5	34	17	3.11	<10	<1	0.67
Camp 11- Brx	98JvR 109	PGl dolostone, rare cherty? Interbeds, minor orange carbonate veining	<5		<.2	0.18	<2	<10	<.5	<2	14.05	<.5	<1	50	5	0.17	<10	<1	0.1
Camp 12- CDb lookout	98JvR 110	Road River black chert, shaly interbeds	<5		1.2	0.26	18	100	<.5	<2	0.37	3.5	1	262	39	0.84	<10	1	0.1
Camp 12- CDb lookout	98JvR 111b	CDb/RR contact, drusy qtz-carb veining	<5		<.2	0.1	<2	860	<.5	<2	>15.00	1	<1	11	6	0.11	<10	<1	0.04
Camp 12- CDb lookout	98JvR 112	CDb dissolution breccia, silica matrix, local pink carb and rusty patches	<5		0.8	0.13	60	380	<.5	<2	4.68	0.5	1	111	13	5.49	<10	<1	0.04
Camp 12- CDb lookout	98JvR 113	bleached Road River sandstone (or felsic intrusive?)	<5		0.2	0.94	18	350	0.5	<2	0.99	<.5	32	157	18	3.21	<10	<1	0.47
Camp 12- CDb lookout	**98JvR 114**	rusty silicified/ bleached buff Road River sndstn. ?	<5		1.2	0.61	**178**	**2020**	0.5	<2	0.21	**19**	1	119	67	**>15.00**	<10	<1	0.19
Camp 12- CDb lookout	98JvR 115	CDb dolostone breccia	<5		<.2	0.03	2	10	<.5	<2	11.35	<.5	<1	48	2	0.13	<10	<1	0.01
Camp 13- Jungle Ck	98JvR 118	rep sample PJungle Creek? Limey shales, tr py	<5		<.2	0.17	<2	190	<.5	<2	>15.00	<.5	<1	12	5	0.79	<10	1	0.07
Camp 13- Jungle Ck	98JvR 120	rep sample PJc limestone w siliceious pods	<5		<.2	0.1	<2	100	<.5	<2	>15.00	<.5	<1	10	2	0.39	<10	<1	0.03
Camp 13- Jungle Ck	98JvR 121	rep sample PJc bioclastic limestone	<5		<.2	0.09	<2	120	<.5	<2	>15.00	<.5	<1	9	2	0.37	<10	<1	0.03
Camp 13- Jungle Ck	98JvR 122a	massive grey weath limestone cut by orange carbonate veining	<5		<.2	0.03	<2	40	<.5	<2	>15.00	<.5	<1	20	3	0.39	<10	<1	<.01
Camp 13- Jungle Ck	98JvR 123	dk grey limestone and shale w py as large patches of euhedral xtals and in blebs	<5		<.2	0.1	2	230	<.5	<2	7.21	<.5	<1	85	4	1.44	<10	<1	0.04
Camp 14- REE	98JvR 124	rep sample COv mafic volcanics	<5		<.2	3.36	<2	140	1.5	<2	2.38	<.5	17	8	7	6.6	10	<1	0.2
Camp 14- REE	98JvR 125	rep sample COv mafic volcanics	<5		<.2	2.27	<2	110	<.5	<2	6.76	<.5	35	280	27	5.33	<10	<1	0.26
Camp 14- REE	98JvR 126	rep sample COv mafic volcanics, massive and fragmental	<5		<.2	4.48	2	170	0.5	8	3.83	<.5	34	107	66	7.65	10	<1	0.28
Camp 14- REE	98JvR 129	Road river shale to siltstone	<5		<.2	5.03	<2	60	0.5	<2	4.15	<.5	27	163	59	8.67	10	<1	0.11
Camp 14- REE	98JvR 130	COv mafic volcanics w large py clot	<5		<.2	3.63	8	100	0.5	<2	4.75	<.5	32	261	61	7.29	10	<1	0.06
Camp 14- REE	98JvR 131	Pd in PCH3? Cc-sider-Mn oxide vein	<5		<.2	3.93	178	20	0.5	<2	7.39	<.5	38	222	91	8.17	10	<1	0.09
Camp 14- REE	98JvR 132	rusty qtz vein, py 1% ,up to 30cm wide in PCH3	<5		<.2	0.37	8	30	<.5	<2	0.31	<.5	2	153	26	1.65	<10	<1	0.06
Camp 14- REE	98JvR 133	rep sample PCH3 maroon shale	<5		<.2	1.97	<2	1190	<.5	<2	0.16	<.5	21	38	25	3.88	<10	<1	0.3
Camp 14- REE	98JvR 134	black chert w rusty fractures, RR or Earn (unmapped) s/c	<5		0.2	0.53	2	320	<.5	<2	0.05	1.5	5	184	25	1.39	<10	<1	0.16
Camp 14- REE	98JvR 135	Earn Gp cpcgl s/c(unmapped)	<5		<.2	0.41	2	430	<.5	<2	0.07	<.5	<1	116	4	0.39	<10	<1	0.17
Camp 14- REE	98JvR 136	rep sample Pd dyke s/c	<5		<.2	0.05	<2	100	<.5	<2	>15.00	0.5	<1	19	1	0.43	<10	<1	0.01
Camp 14- REE	98JvR 137	rusty weath dk siltstone/shale. Road River	<5		<.2	1.64	6	1190	0.5	<2	0.13	<.5	1	122	9	1.8	<10	<1	0.39
road work	98JvR 139	Tj/ MKh brown granular sandstone, minor qtz stringers w< 1% py	<5		<.2	0.19	4	50	<.5	<2	0.04	<.5	1	301	3	0.94	<10	<1	0.03
road work	98JvR 140	rep sample PMC red and green shales/slate	<5		<.2	1.93	<2	**2380**	<.5	<2	0.08	<.5	8	52	26	2.6	<10	<1	0.36
road work	98JvR 141	rep sample Tj brown calcareous siltstone, x-laminated, limonitic spots	<5		<.2	0.86	<2	120	<.5	<2	3.34	<.5	3	89	5	1.88	<10	<1	0.22
Horn pre-trenching	**98DH 1a**	drusy qtz-limonite	**2230**	---	6.6	0.15	36	30	<.5	**382**	2.21	<.5	<1	216	109	3.84	<10	<1	0.06
Horn pre-trenching	98DH 1b	f.g. act+/- cc, gnt,	<5	---	<.2	0.2	<2	10	1	<2	1.26	0.5	1	19	20	0.72	<10	<1	<.01
Horn pre-trenching	98DH 1c	c.g. gnt skarn, act-cc-epidote	<5	---	<.2	2.59	6	<10	4.5	2	11.85	<.5	<1	52	34	3.75	10	<1	0.19
Horn pre-trenching	**98DH 1d**	massive sulph: po-mt?-cp-bn	**40**	---	**12.4**	0.09	12	<10	<.5	16	0.64	0.5	29	3	**5570**	**>15.00**	<10	<1	0.04
Horn pre-trenching	98DH 1e	limonitic porous breccia? w drusy qtz	**115**	---	7	0.37	6	50	0.5	32	0.07	9	5	13	**1000**	**>15.00**	<10	<1	0.13
Horn pre-trenching	**98DH 1f**	s/c? lim. skarny mat. w drusy qtz+act	**>10000**	**179.1**	**71**	0.13	**1640**	30	<.5	**2940**	0.14	1.5	<1	63	**242**	**>15.00**	<10	<1	0.05
Horn pre-trenching	**98DH 1g**	float, rusty sulph. cut by euh. py veinlets	**>10000**	**125.1**	**60.6**	0.08	**850**	<10	<.5	**2590**	4.73	7.5	13	63	**2700**	**>15.00**	<10	<1	0.01
Horn pre-trenching	98DH 2a	endoskarn, 2-3% diss py	**40**	---	0.2	0.72	16	90	<.5	12	0.86	<.5	7	50	24	3.58	<10	<1	0.29
Horn pre-trenching	98DH 2b	felsic vein, rusty, white, w fluorite	<5	---	0.4	0.27	2	10	0.5	4	0.26	<.5	<1	41	16	0.65	<10	<1	0.19
Horn pre-trenching	98DH 4a	rusty green syenite w lim-py	15	---	<.2	0.29	4	90	1.5	2	0.29	<.5	1	47	18	1.7	<10	<1	0.15
Horn pre-trenching	98DH 4b	qtz-fspar vein in dk green hfls/skn	<5	---	<.2	0.99	2	180	1	<2	0.68	<.5	5	69	9	2.19	<10	<1	0.49
road work	98DH 5a	COv rusty brown felsic lapilli tuff	<5	---	<.2	1.64	<2	40	<.5	<2	10.3	<.5	23	215	34	5.03	<10	<1	0.06
road work	98DH 5b	COv, qtz-cp-carb vein w lim vugs	<5	---	<.2	0.13	2	<10	<.5	<2	0.4	<.5	1	190	**247**	0.6	<10	<1	0.01
road work	98DH 6	rep sample Cov amygdoloidal basalt	<5	---	<.2	3.94	<2	40	1.5	<2	8.17	<.5	29	487	45	6.35	10	<1	<.01
road work	98DH 7a	rep sample PCH1 sandstone (tr py)	<5	---	<.2	0.92	<2	50	<.5	<2	2.86	<.5	4	94	18	2.69	<10	<1	0.18
road work	98DH 7b	rep sample PCH1 shale	<5	---	<.2	2.92	6	170	0.5	<2	0.12	<.5	8	58	42	5.02	<10	<1	0.54
road work	98DH 8	qtz-chl tension gashes in c.g. grit	<5	---	<.2	0.49	4	60	<.5	<2	0.21	<.5	2	221	7	1.49	<10	<1	0.15
road work	98DH 9	qtz-carb-lim-chl(-pxn?) vein, bxwrkk+vugs	<5	---	<.2	0.69	2	50	<.5	<2	2.47	<.5	3	162	14	1.6	<10	<1	0.15
road work	98DH 10	qtz breccia. Float	<5	---	<.2	0.1	<2	20	<.5	<2	0.02	<.5	<1	211	2	0.35	<10	<1	0.05
road work	98DH 11	rep sample PCH3 rep maroon argillite	<5	---	<.2	1.85	<2	210	0.5	<2	0.18	<.5	18	27	3	3.31	<10	<1	0.58

CAMP	SAMPLE	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	NUMBER	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Camp 11- Brx	98JvR 103	<10	0.15	240	2	<.01	9	440	24	2	4	59	<.01	<10	<10	24	<10	50
Camp 11- Brx	98JvR 104	<10	10.5	580	<1	0.01	1	30	8	<2	<1	54	<.01	<10	10	<1	<10	76
Camp 11- Brx	98JvR 105	20	2.51	130	<1	0.01	13	**7030**	28	<2	3	37	<.01	<10	<10	21	<10	134
Camp 11- Brx	**98JvR 106**	<10	0.26	75	7	<.01	39	200	**218**	16	<1	4	<.01	<10	30	4	<10	**2500**
Camp 11- Brx	98JvR 107	20	2.82	845	3	0.01	12	260	4	2	4	25	<.01	<10	<10	11	<10	34
Camp 11- Brx	98JvR 108	30	1.25	70	<1	<.01	22	170	14	<2	4	3	<.01	<10	<10	21	<10	92
Camp 11- Brx	98JvR 109	<10	9.3	415	<1	0.01	1	140	8	<2	<1	8	<.01	<10	<10	23	<10	22
Camp 12- CDb lookout	98JvR 110	<10	0.11	25	**34**	<.01	43	140	6	4	<1	9	<.01	<10	<10	**408**	<10	**340**
Camp 12- CDb lookout	98JvR 111b	<10	9.21	85	2	0.01	4	**3520**	<2	<2	<1	102	<.01	<10	10	31	<10	84
Camp 12- CDb lookout	98JvR 112	<10	2.92	155	9	<.01	25	410	66	6	<1	16	<.01	<10	<10	22	<10	528
Camp 12- CDb lookout	98JvR 113	40	0.38	515	4	<.01	40	1980	88	<2	3	14	<.01	<10	<10	16	<10	88
Camp 12- CDb lookout	**98JvR 114**	<10	0.13	220	**57**	<.01	**191**	**2520**	**188**	**18**	3	26	<.01	<10	10	149	<10	**3520**
Camp 12- CDb lookout	98JvR 115	<10	7.12	70	3	<.01	5	170	6	<2	<1	32	<.01	<10	<10	5	<10	42
Camp 13- Jungle Ck	98JvR 118	<10	0.71	55	<1	<.01	9	230	6	<2	1	641	<.01	<10	<10	10	<10	48
Camp 13- Jungle Ck	98JvR 120	<10	0.26	50	<1	<.01	4	210	2	<2	<1	823	<.01	<10	<10	6	<10	16
Camp 13- Jungle Ck	98JvR 121	<10	0.25	50	<1	<.01	5	210	2	<2	<1	837	<.01	<10	<10	5	<10	24
Camp 13- Jungle Ck	98JvR 122a	<10	0.09	205	<1	<.01	6	60	2	<2	<1	218	<.01	<10	<10	3	<10	32
Camp 13- Jungle Ck	98JvR 123	<10	0.11	20	3	<.01	7	60	<2	<2	<1	229	<.01	<10	<10	5	<10	28
Camp 14- REE	98JvR 124	60	2.39	1420	<1	0.02	3	1450	<2	2	3	159	0.33	<10	<10	137	<10	90
Camp 14- REE	98JvR 125	30	2.59	920	1	<.01	**181**	610	<2	<2	8	108	0.52	<10	<10	100	<10	56
Camp 14- REE	98JvR 126	30	3.92	990	1	<.01	117	180	<2	2	10	83	0.75	<10	10	139	<10	100
Camp 14- REE	98JvR 129	40	2.51	685	<1	0.01	96	2010	<2	2	10	173	0.01	<10	<10	154	<10	102
Camp 14- REE	98JvR 130	30	4.02	1010	<1	0.03	117	1110	2	2	12	238	0.45	<10	<10	162	<10	82
Camp 14- REE	98JvR 131	10	3	**>10000**	1	0.05	**172**	1960	16	2	17	186	<.01	<10	10	131	<10	170
Camp 14- REE	98JvR 132	<10	0.25	105	8	<.01	10	230	76	<2	<1	125	0.05	<10	<10	12	<10	8
Camp 14- REE	98JvR 133	10	0.86	580	<1	0.03	35	260	8	<2	3	62	0.01	<10	<10	23	<10	120
Camp 14- REE	98JvR 134	<10	0.15	500	<1	<.01	27	120	2	<2	1	17	<.01	<10	<10	21	<10	78
Camp 14- REE	98JvR 135	10	0.05	55	1	<.01	4	40	6	<2	<1	15	<.01	<10	<10	11	<10	2
Camp 14- REE	98JvR 136	<10	3.34	385	2	<.01	2	110	<2	<2	<1	426	<.01	<10	10	8	<10	20
Camp 14- REE	98JvR 137	10	0.33	45	<1	0.01	11	670	6	<2	4	30	<.01	<10	<10	47	<10	28
road work	98JvR 139	<10	0.01	55	1	<.01	7	110	6	<2	<1	34	<.01	<10	<10	7	<10	14
road work	98JvR 140	<10	0.79	290	<1	0.01	41	230	6	<2	4	93	<.01	<10	<10	27	<10	78
road work	98JvR 141	<10	0.29	720	1	0.03	11	630	8	<2	4	87	<.01	<10	<10	10	<10	42
Horn pre-trenching	**98DH 1a**	<10	0.01	210	2	0.03	3	20	**320**	22	<1	5	<.01	<10	<10	6	**210**	104
Horn pre-trenching	98DH 1b	<10	0.14	330	<1	<.01	5	20	<2	<2	<1	7	<.01	<10	<10	3	<10	60
Horn pre-trenching	98DH 1c	50	0.17	1315	1	0.01	1	140	4	2	<1	56	0.05	<10	10	41	<10	36
Horn pre-trenching	**98DH 1d**	<10	0.04	60	1	<.01	3	10	6	6	<1	3	<.01	<10	30	<1	10	122
Horn pre-trenching	98DH 1e	<10	0.03	315	8	<.01	9	170	**402**	6	<1	<1	<.01	<10	30	20	<10	680
Horn pre-trenching	**98DH 1f**	<10	0.05	3100	3	<.01	3	50	**4340**	**246**	<1	4	<.01	<10	30	5	<10	616
Horn pre-trenching	**98DH 1g**	<10	<.01	300	<1	0.11	1	<10	**2230**	**272**	<1	7	<.01	<10	30	<1	<10	**1670**
Horn pre-trenching	98DH 2a	70	0.41	305	1	0.05	5	1170	24	<2	2	61	0.18	<10	<10	49	<10	54
Horn pre-trenching	98DH 2b	<10	<.01	15	<1	0.09	1	10	18	<2	<1	7	<.01	<10	10	2	<10	4
Horn pre-trenching	98DH 4a	70	0.05	295	1	0.05	3	150	20	<2	<1	59	0.08	<10	<10	30	<10	44
Horn pre-trenching	98DH 4b	40	0.58	395	2	0.07	4	590	14	<2	3	56	0.1	<10	<10	46	<10	42
road work	98DH 5a	10	4.89	995	<1	0.02	147	890	<2	2	9	864	<.01	<10	<10	97	<10	48
road work	98DH 5b	<10	0.09	95	1	0.04	10	150	<2	<2	<1	27	<.01	<10	<10	6	<10	64
road work	98DH 6	70	5.23	1080	<1	<.01	187	**3000**	<2	2	13	342	0.01	<10	10	**145**	<10	78
road work	98DH 7a	<10	0.81	3030	1	0.01	11	40	22	<2	6	143	<.01	<10	<10	7	<10	40
road work	98DH 7b	<10	0.92	230	<1	0.01	33	180	22	<2	5	15	<.01	<10	<10	32	<10	62
road work	98DH 8	<10	0.11	285	<1	0.01	8	60	16	<2	<1	12	<.01	<10	<10	5	<10	16
road work	98DH 9	<10	0.31	830	1	0.01	12	70	74	<2	1	100	<.01	<10	<10	8	<10	28
road work	98DH 10	<10	<.01	20	1	<.01	3	40	2	<2	<1	6	<.01	<10	<10	1	<10	12
road work	98DH 11	<10	0.66	1100	<1	0.02	29	180	14	<2	4	21	0.01	<10	<10	19	<10	54

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	Au ppb	Au g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
road work	98DH 12	rep sample mass dk green pxenite or flow	<5	---	<.2	3.26	12	940	<.5	2	2.16	<.5	21	22	49	6.03	10	<1	0.03
road work	98DH 13	rep sampl Jls thin bed dk siltstone to fg sandstn	<5	---	<.2	1.91	2	100	<.5	<2	1.08	<.5	8	52	18	3.29	<10	<1	0.21
road work	98DH 14	rep sampl Jls dk platy graphitic shales	<5	---	<.2	0.31	<2	150	<.5	<2	0.06	<.5	8	188	41	1.88	<10	<1	0.04
Barrick recce	98DH 15	rusty syenite w black shiny mineral	<5	---	<.2	0.34	74	90	1.5	<2	0.56	<.5	2	28	11	1.6	<10	<1	0.15
Barrick recce	98DH 16	white weath, pinkish mg equigranular qtz syenite	<5	---	<.2	0.44	2	70	0.5	<2	0.33	<.5	1	79	<1	1.12	<10	<1	0.16
Barrick recce	**98DH 17**	Road River chert breccia, qtz-lim matrix	**130**	---	<.2	0.39	40	570	<.5	<2	<.01	<.5	5	185	67	3.27	<10	<1	0.08
Barrick recce	98DH 18	brecciated Road River chert	<5	---	<.2	0.1	10	390	<.5	<2	<.01	<.5	<1	228	12	0.73	<10	8	0.01
Camp 1- Tak	98DH 19		<5	---	<.2	0.03	<2	80	<.5	<2	>15.00	<.5	<1	8	10	0.08	<10	<1	0.01
Camp 1- Tak	98DH 19a	rep PCH1 grit + siltstone	<5	---	<.2	0.55	2	70	<.5	<2	0.16	<.5	3	214	6	1.83	<10	<1	0.15
Camp 1- Tak	98DH 19b	thin dk qtz -carb-dk material? vein	<5	---	<.2	0.84	<2	120	<.5	<2	0.24	<.5	3	243	8	1.85	<10	<1	0.12
Camp 1- Tak	98DH 19c	qtz-limonite veins	<5	---	<.2	0.15	4	360	<.5	<2	1.74	<.5	2	172	15	1.96	<10	<1	0.06
Camp 1- Tak	98DH 20	rusty weath f.g. PCH1 siltstone	<5	---	<.2	1.46	2	150	<.5	<2	0.01	<.5	4	113	21	2.59	<10	<1	0.23
Camp 1- Tak	98DH 21	carbonatized grit w qtz-carb veining	<5	---	<.2	0.16	<2	50	<.5	<2	11.5	<.5	<1	117	4	0.69	<10	<1	0.09
Camp 1- Tak	**98DH 23a**	Wo Nellie, qtz-ga-cp vein 5-10-cm. o/c	<5	---	1.6	0.27	2	20	<.5	6	0.04	<.5	1	200	**4190**	1.14	<10	<1	0.06
Camp 1- Tak	**98DH 23b**	Wo Nellie, qtz-ga2%-cp 1% vein in chl grit, 5cm	<5	---	0.2	0.23	<2	10	<.5	<2	0.63	<.5	1	210	**245**	0.63	<10	<1	0.06
Camp 1- Tak	**98DH 23c**	(vuggy) qtz breccia, angul grit+sh fx, ga1%, cp1%	<5	---	1.2	0.51	<2	50	<.5	2	0.93	<.5	<1	239	**3110**	0.93	<10	<1	0.17
Camp 1- Tak	**98DH 23d**	Wo Nellie, qtz-ga-cp vein	<5	---	0.2	0.43	<2	30	<.5	<2	0.27	<.5	1	195	**706**	0.77	<10	<1	0.11
Camp 1- Tak	98DH 24b	rep sample top of PCH1 f.g. sandstone	<5	---	<.2	0.85	<2	50	<.5	<2	11.45	<.5	3	61	24	2.21	<10	<1	0.16
Camp 1- Tak	98DH 25	bleached qtzite w yellow (jaros?) stain+ dk streaks	<5	---	<.2	0.2	2	50	<.5	<2	0.04	<.5	<1	197	4	0.29	<10	<1	0.11
Camp 1- Tak	98DH 26a	rep sample PCH2 limestone	<5	---	<.2	0.03	<2	10	<.5	<2	>15.00	<.5	1	8	2	0.15	<10	<1	0.01
Camp 1- Tak	98DH 26b	rep sampe Pd dyke, w leucoxene	<5	---	<.2	3.24	<2	80	0.5	<2	3.96	<.5	33	66	73	6.54	10	<1	0.06
Camp 1- Tak	98DH 27	chip rep sample PCH3 maroon+green shale	<5	---	<.2	2.24	2	360	1.5	<2	0.1	<.5	27	31	38	3.09	<10	<1	0.49
Camp 1- Tak	98DH 28a	carbonitized or skarnified mafic dyke, diss py	<5	---	<.2	1.36	<2	130	0.5	<2	5.17	<.5	29	150	47	5.56	<10	<1	0.13
Camp 1- Tak	98DH 28b	altered breccia w carbonate veining	<5	---	<.2	0.38	<2	360	<.5	<2	13.65	0.5	16	65	8	5.06	<10	<1	0.04
Camp 1- Tak	98DH 29	yellow frothy breccia, sil sh fx	<5	---	0.2	0.62	**114**	30	<.5	4	0.05	<.5	1	25	6	**>15.00**	<10	<1	1.01
Camp 1- Tak	**98DH 30a**	Tak vein no.1, massive siderite-galena	<5	---	8.8	0.03	**2980**	<10	<.5	8	0.16	**145.5**	5	<1	58	**>15.00**	<10	22	<.01
Camp 1- Tak	**98DH 30b**	Tak vein no.1, massive siderite-galena	**1160**	---	1.2	0.02	**>10000**	10	<.5	2	0.08	1.5	3	69	<1	**>15.00**	<10	<1	0.01
Camp 1- Tak	**98DH 31**	Tak vein no.2, mass.galena, loc strained	**80**	---	**44.6**	0.01	174	<10	<.5	8	<.01	**25.5**	<1	1	**4270**	1.21	<10	8	<.01
Camp 1- Tak	**98DH 32a**	Lead Belly, thin qtz-ga-lim veinlets in altered Ki	<5	---	7	0.78	48	210	0.5	<2	2.56	3	6	35	5	4.05	<10	<1	0.43
Camp 1- Tak	**98DH 32b**	Lead Belly, thin qtz-ga-lim veinlets in altered Ki	<5	---	1.2	0.44	18	140	0.5	<2	2.73	3	5	17	3	3.23	<10	<1	0.38
Camp 1- Tak	**98DH 32c**	Lead Belly, thin qtz-ga-lim veinlets in altered Ki	<5	---	5.2	0.35	58	130	0.5	2	1.67	**41.5**	7	39	57	4.55	<10	<1	0.29
Camp 1- Tak	**98DH 32d**	Lead Belly, thin qtz-ga-lim veinlets in altered Ki	<5	---	1	0.52	30	150	1	<2	2.75	**9.5**	5	20	5	3.09	<10	<1	0.4
Camp 1- Tak	**98DH 32e**	Lead Belly, thin qtz-ga-lim veinlets in altered Ki	<5	---	1.6	0.56	50	160	0.5	<2	2.83	10	6	31	10	4.6	<10	<1	0.37
Camp 1- Tak	**98DH 32f**	Lead Belly, thin qtz-ga-lim veinlets in altered Ki	<5	---	**16.6**	0.63	82	160	0.5	2	2.67	26	6	34	15	4.66	<10	<1	0.38
Camp 1- Tak	98DH 33	unaltered? Interm biot-phyric dyke	<5	---	0.2	2.6	34	120	1.5	<2	4.3	<.5	14	39	17	4.36	10	<1	0.15
Camp 1- Tak	**98DH 34a**	Lead Belly, thin qtz-ga-lim vein only	<5	---	**48.4**	0.22	64	170	<.5	12	10.8	**200**	12	8	22	11.1	<10	1	0.11
Camp 1- Tak	**98DH 34b**	Lead Belly, thin qtz-ga-lim veinlets in Ki	<5	---	2	0.37	**370**	150	<.5	<2	6.09	**9.5**	5	19	2	11.65	<10	<1	0.21
Camp 1- Tak	98DH 36	oxidized,clay-alt felsic intr cut by mm qtz-carb-lim veinlets	<5	---	0.2	0.84	14	270	0.5	2	2.86	1	5	20	1	3.28	<10	<1	0.34
Camp 1- Tak	98DH 37	rep sample Earn gp chert pebble conglomerate	<5	---	<.2	0.31	6	250	<.5	<2	0.14	<.5	4	140	22	0.94	<10	<1	0.11
Camp 1- Tak	98DH 39a	orange weath altered intrus. W py-lim clots	<5	---	<.2	0.51	<2	170	0.5	<2	3.51	1	16	11	31	3.52	<10	<1	0.33
Camp 1- Tak	98DH 39b	rustry intrusv. W thin sugary qtz-py veining	<5	---	<.2	0.65	4	220	0.5	<2	2.83	1.5	14	18	29	3.77	<10	<1	0.34
Camp 1- Tak	98DH 40a	bleached intr w mm-cm qtz-lim veinlets, noi vis sulph	<5	---	<.2	0.89	16	200	0.5	<2	5.4	<.5	7	42	1	3.53	<10	<1	0.53
Camp 1- Tak	98DH 41	rep sample Jls dk grey-black graphitic shales (siltstone)	<5	---	<.2	1.98	6	130	0.5	<2	0.15	<.5	9	46	25	3.5	<10	<1	0.25
Camp 1- Tak	98DH 42	qtz-lim vein w boxwork texture in Jls, no vis sulph	<5	---	<.2	0.09	<2	10	<.5	<2	0.38	0.5	1	214	1	0.75	<10	<1	0.01
Camp 1- Tak	98DH 43a	rep sample Jls grey/red/brown/black platy shale to siltstone	<5	---	0.2	1.13	6	650	<.5	2	1.22	<.5	17	58	125	2.01	<10	<1	0.33
Camp 1- Tak	98DH 43b	Jls grey/red/brown/black platy shale to siltstone w qtz veining	<5	---	0.2	0.7	<2	530	<.5	<2	0.82	<.5	5	141	75	1.25	<10	<1	0.28
Camp 2- Spot.Fawn	98DH 45	very rusty f.g. syenitew m.g. biotite + 2-5% diss po	<5	---	0.6	0.72	4	130	<.5	2	1.36	<.5	20	44	57	4.12	<10	<1	0.31
Camp 2- Spot.Fawn	98DH 46	tinguaite, yellow coating on fract; py, cp, ga, black min. veinlets	<5	---	8.8	2.15	<2	70	2.5	<2	1.63	3.5	4	27	3	4.13	30	<1	1.26
Camp 2- Spot.Fawn	98DH 48a	f.g. tinguaite, 1500 cps. Float	<5	---	0.8	1.66	12	50	0.5	<2	0.51	<.5	1	33	3	2.58	10	<1	0.94
Camp 2- Spot.Fawn	98DH 48b	rusty dk grey sheared/foliated tinguaite, 4 000-24 000 cps. float	<5	---	0.2	1.79	20	30	0.5	2	0.47	<.5	<1	32	4	2.58	10	<1	0.98
Camp 2- Spot.Fawn	98DH 49	boring looking tinguaite, 5500-7100 cps, o/c	<5	---	0.8	2.88	<2	60	3	<2	0.22	<.5	1	22	3	1.96	10	<1	0.9
Camp 2- Spot.Fawn	**98DH 50a**	druzy qtz, vfg asp/scor in frothy/sugary qtz	**6520**	---	**128g/t**	0.06	**>10000**	80	<.5	**932**	<.01	<.5	**329**	158	**2780**	13.05	<10	2	0.09
Camp 2- Spot.Fawn	98DH 50b	rusty syenite, py veinlets	<5	---	8.4	1.8	108	80	1	144	0.2	<.5	7	18	**940**	8.93	10	<1	0.78
Camp 2- Spot.Fawn	98DH 50c	altered syenite cut by black veinlets	85	---	2.4	1.76	550	140	2.5	20	0.23	<.5	8	46	76	6.97	<10	<1	1.31

CAMP	SAMPLE NUMBER	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
road work	98DH 12	40	3.11	1265	1	0.1	23	2460	<2	<2	3	210	0.18	<10	<10	80	<10	98
road work	98DH 13	<10	0.95	710	<1	0.01	19	570	4	2	4	47	<.01	<10	<10	19	<10	76
road work	98DH 14	<10	0.33	2540	2	<.01	13	100	<2	<2	2	36	<.01	<10	<10	10	<10	18
Barrick recce	98DH 15	40	0.09	270	1	0.04	1	290	18	<2	1	104	0.08	<10	<10	25	<10	36
Barrick recce	98DH 16	40	0.16	225	1	0.08	2	210	8	<2	1	37	0.08	<10	<10	14	<10	28
Barrick recce	**98DH 17**	<10	0.01	90	8	<.01	37	420	<2	<2	1	60	<.01	<10	<10	21	<10	96
Barrick recce	98DH 18	<10	<.01	20	3	<.01	4	260	<2	<2	<1	43	<.01	<10	<10	4	<10	4
Camp 1- Tak	98DH 19	<10	0.21	**5310**	1	<.01	<1	590	14	<2	<1	893	<.01	<10	<10	5	<10	6
Camp 1- Tak	98DH 19a	<10	0.11	485	1	0.01	9	70	18	<2	1	12	<.01	<10	<10	5	<10	18
Camp 1- Tak	98DH 19b	<10	0.2	415	1	0.01	12	40	20	<2	<1	12	<.01	<10	<10	7	<10	50
Camp 1- Tak	98DH 19c	<10	0.43	425	2	<.01	8	30	42	<2	<1	129	<.01	<10	<10	2	<10	56
Camp 1- Tak	98DH 20	<10	0.32	55	<1	0.01	12	30	10	<2	1	7	<.01	<10	<10	15	<10	34
Camp 1- Tak	98DH 21	<10	0.06	2620	2	<.01	4	50	12	<2	<1	503	<.01	<10	<10	1	<10	32
Camp 1- Tak	**98DH 23a**	<10	0.05	110	1	0.01	9	80	**2.70%**	<2	<1	13	<.01	<10	<10	3	10	98
Camp 1- Tak	**98DH 23b**	<10	0.05	205	1	0.01	5	30	**4520**	<2	<1	34	<.01	<10	<10	3	<10	18
Camp 1- Tak	**98DH 23c**	<10	0.05	85	1	0.01	6	**3650**	**1.22%**	<2	<1	79	<.01	<10	<10	5	<10	46
Camp 1- Tak	**98DH 23d**	<10	0.07	95	1	0.01	6	870	**6960**	<2	<1	27	<.01	<10	<10	4	<10	30
Camp 1- Tak	98DH 24b	<10	0.44	695	<1	<.01	10	110	30	<2	3	330	<.01	<10	<10	10	<10	28
Camp 1- Tak	98DH 25	<10	0.01	15	1	0.01	3	10	40	<2	<1	5	<.01	<10	<10	3	<10	<2
Camp 1- Tak	98DH 26a	<10	0.17	790	1	<.01	3	300	8	<2	<1	835	<.01	<10	10	1	<10	6
Camp 1- Tak	98DH 26b	30	4.31	980	2	0.03	57	2450	<2	<2	10	331	0.04	<10	<10	**151**	<10	102
Camp 1- Tak	98DH 27	<10	0.61	1020	<1	0.03	39	190	6	<2	6	39	<.01	<10	<10	22	<10	72
Camp 1- Tak	98DH 28a	30	3.69	1075	3	0.03	72	2170	<2	<2	14	512	<.01	<10	<10	83	<10	82
Camp 1- Tak	98DH 28b	<10	6.38	720	1	0.03	56	440	98	<2	3	890	<.01	<10	<10	56	<10	182
Camp 1- Tak	98DH 29	<10	0.06	35	**40**	1.18	2	120	62	4	1	125	<.01	<10	<10	10	<10	30
Camp 1- Tak	**98DH 30a**	<10	0.72	**>10000**	2	<.01	21	40	**4890**	**54**	3	7	<.01	<10	40	18	<10	**4.52%**
Camp 1- Tak	**98DH 30b**	<10	0.64	**>10000**	<1	<.01	9	<10	42	**48**	<1	6	<.01	<10	10	2	<10	466
Camp 1- Tak	**98DH 31**	<10	<.01	405	<1	<.01	1	<10	**78.30%**	**5100**	<1	7	<.01	<10	<10	<1	<10	524
Camp 1- Tak	**98DH 32a**	50	0.37	1895	2	0.04	3	730	**5050**	10	2	392	<.01	<10	<10	6	<10	**846**
Camp 1- Tak	**98DH 32b**	30	0.34	1420	2	0.03	2	700	**736**	<2	1	288	<.01	<10	<10	3	<10	**764**
Camp 1- Tak	**98DH 32c**	20	0.25	2270	2	0.03	3	680	**3160**	6	2	155	<.01	<10	10	2	<10	**9070**
Camp 1- Tak	**98DH 32d**	30	0.16	1365	2	0.04	1	600	**786**	2	1	485	<.01	<10	<10	3	<10	**2430**
Camp 1- Tak	**98DH 32e**	40	0.42	2320	2	0.04	1	710	**1200**	2	2	354	<.01	<10	10	4	<10	**2660**
Camp 1- Tak	**98DH 32f**	30	0.43	2380	3	0.04	4	670	**1.61%**	14	3	305	<.01	<10	10	5	<10	**6130**
Camp 1- Tak	98DH 33	40	1.48	1065	2	0.04	8	1270	68	<2	7	646	0.2	<10	<10	**68**	<10	110
Camp 1- Tak	**98DH 34a**	<10	1.39	5230	3	<.01	4	180	**3.94%**	38	1	2320	<.01	<10	40	2	<10	**5.88%**
Camp 1- Tak	**98DH 34b**	10	1.1	5990	<1	0.02	4	320	**1520**	2	2	967	<.01	<10	40	3	<10	**2440**
Camp 1- Tak	98DH 36	40	0.38	915	1	0.05	2	800	**268**	<2	3	187	<.01	<10	<10	9	<10	310
Camp 1- Tak	98DH 37	<10	0.05	100	1	<.01	15	610	26	<2	1	23	<.01	<10	<10	13	<10	34
Camp 1- Tak	98DH 39a	40	0.71	1080	3	0.03	29	1120	52	<2	5	391	<.01	<10	<10	8	<10	184
Camp 1- Tak	98DH 39b	50	0.39	1395	4	0.04	31	990	66	<2	4	294	<.01	<10	<10	8	<10	216
Camp 1- Tak	98DH 40a	50	1.58	3150	1	0.01	5	1320	8	<2	7	759	<.01	<10	<10	11	<10	32
Camp 1- Tak	98DH 41	20	0.73	190	<1	0.05	19	640	20	2	3	42	<.01	<10	<10	20	<10	90
Camp 1- Tak	98DH 42	<10	0.04	715	1	<.01	12	110	6	<2	<1	13	<.01	<10	<10	1	<10	28
Camp 1- Tak	98DH 43a	10	0.77	1190	1	0.01	61	390	10	<2	8	127	<.01	<10	<10	29	<10	134
Camp 1- Tak	98DH 43b	10	0.42	840	<1	0.01	39	260	12	<2	4	75	<.01	<10	<10	17	<10	96
Camp 2- Spot.Fawn	98DH 45	50	0.68	135	3	0.04	16	1390	32	<2	2	107	0.15	<10	<10	57	<10	46
Camp 2- Spot.Fawn	98DH 46	90	0.52	2010	1	0.03	3	50	**790**	2	4	250	0.18	<10	**7230**	48	<10	**670**
Camp 2- Spot.Fawn	98DH 48a	40	0.17	715	**203**	0.02	1	100	32	<2	<1	20	0.23	<10	**620**	19	50	108
Camp 2- Spot.Fawn	98DH 48b	40	0.17	785	**75**	0.04	1	70	28	<2	<1	19	0.25	<10	**520**	20	60	126
Camp 2- Spot.Fawn	98DH 49	70	0.07	540	**30**	0.83	1	90	44	<2	<1	68	0.12	<10	**1150**	11	<10	96
Camp 2- Spot.Fawn	**98DH 50a**	<10	<.01	205	**19**	<.01	1	10	**1830**	**206**	<1	10	<.01	<10	10	2	20	106
Camp 2- Spot.Fawn	98DH 50b	50	0.24	260	5	0.01	1	390	34	2	3	46	0.05	<10	10	32	<10	76
Camp 2- Spot.Fawn	98DH 50c	70	0.29	225	1	0.01	3	730	40	<2	4	67	0.14	<10	<10	46	<10	66

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	Au ppb	Au g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
Camp 3- Mt Brenner	98DH 51a	qtz-fspar-hbl-(sphene) vein in syenite, and diss cp py at margin	<5	---	<.2	0.64	16	70	0.5	<2	0.8	<.5	3	63	7	1.57	<10	<1	0.19
Camp 3- Mt Brenner	98DH 51b	syenite w rusty fluorite and/or sulphide spots or veinlets	<5	---	0.2	0.85	38	90	2	<2	0.98	<.5	5	50	68	2.65	<10	<1	0.29
Camp 3- Mt Brenner	98DH 51c	fresh syenite	<5	---	<.2	0.89	8	80	1.5	<2	1.08	<.5	5	33	6	2.67	<10	<1	0.25
Camp 3- Mt Brenner	98DH 52a	tourmaline slick plane in syenite. Float.	<5	---	<.2	0.63	24	70	1	<2	0.6	<.5	3	56	53	2.06	<10	<1	0.17
Camp 3- Mt Brenner	98DH 52b	f.g. kspar-tourm-fluorite veins in syenite. Float.	<5	---	<.2	0.59	8	60	1.5	<2	0.69	<.5	4	37	5	1.95	<10	<1	0.18
Camp 3- Mt Brenner	98DH 53c	pink fractures w qtz veinlets, yellow earthy alt, fspars in syen clay-alt	<5	---	<.2	1.43	10	50	2	<2	0.67	<.5	<1	115	3	0.66	<10	<1	0.14
Camp 3- Mt Brenner	**98DH 54a**	syenite, rusty fractures w malach/az. Float and o/c.	**2160**	---	3.4	2.21	22	100	3	**56**	1.4	<.5	18	34	**3080**	4	<10	<1	0.42
Camp 3- Mt Brenner	98DH 54b	rusty weath. Banded qtz-carbonate vein? Tr py	<5	---	<.2	0.3	6	40	2	<2	13.7	<.5	5	38	5	2.59	<10	<1	0.05
Camp 4- North Face	98DH 57	rep sample Permian Takhandit limestone.	<5	---	<.2	0.02	<2	30	<.5	<2	>15.00	0.5	<1	5	15	0.16	<10	<1	<.01
Camp 4- North Face	98DH 59	altered and very fractured hbl syenite	<5	---	<.2	1.26	<2	60	0.5	<2	1.5	<.5	5	70	10	2.45	<10	<1	0.48
Camp 4- North Face	98DH 60	brown weath green mafic ? dyke	<5	---	<.2	1.15	<2	100	1.5	<2	1.72	<.5	4	30	4	2.55	<10	<1	0.28
Camp 4- North Face	98DH 62a	rusty weath sileceous hfls (JLs? W 1-3% diss py on fract? Float	<5	---	0.2	1.6	12	440	<.5	<2	0.17	<.5	5	39	25	2.11	<10	<1	0.4
Camp 4- North Face	98DH 62b	in Pt limestone: cpgl w carbonate matrix w 1-2% diss py	<5	---	<.2	0.11	12	90	<.5	<2	>15.00	0.5	<1	63	3	0.47	<10	<1	0.04
Camp 4- North Face	98DH 63a	rep sample of hbl-phyric intrusive	<5	---	<.2	1.65	<2	400	0.5	<2	2.56	<.5	14	39	28	3.73	<10	<1	1
Camp 4- North Face	98DH 63b	felsic vein,-pegm w hbl laths and phlogopte in kspar-qtz	<5	---	<.2	1.35	6	350	0.5	2	2.06	<.5	9	30	16	3.34	<10	<1	0.83
Camp 4- North Face	98DH 64	Pt, rusty weath cgl or breccia w yellow-green alteration (sulph?)	<5	---	0.8	0.41	50	520	<.5	<2	0.04	1.5	5	259	12	3.04	<10	<1	0.17
Camp 4- North Face	98DH 65a	rep, massive intrus, fresher, hbl, large kspar	<5	---	<.2	1.63	24	110	2.5	<2	2.27	<.5	8	28	13	3.57	<10	<1	0.96
Camp 4- North Face	98DH 65b	bioclatic limestone near contact, w rusty pyritic vugs	<5	---	1	0.06	80	40	<.5	<2	>15.00	4.5	<1	16	11	2.48	<10	<1	0.03
Camp 5- Bear	**98DH 66a**	Back side of Trix, skarn, mass sulph o/c	**770**	---	9.4	0.01	**>10000**	<10	<.5	**16**	0.1	<.5	18	14	**2360**	**>15.00**	<10	<1	0.01
Camp 5- Bear	**98DH 66b**	Back side of Trix, skarn, mass sulph o/c	**5120**	---	5.6	0.02	**>10000**	<10	0.5	**22**	0.18	<.5	**41**	26	**983**	**>15.00**	<10	<1	<.01
Camp 5- Bear	98DH 66c	endoskarn	<5	---	<.2	0.6	124	40	3.5	8	8.94	<.5	3	32	7	1.38	<10	<1	0.18
Camp 5- Bear	98DH 66d	cc-act-epidote skarn	<5	---	0.2	0.97	46	10	2	2	>15.00	<.5	4	26	36	2.54	<10	<1	0.13
Camp 5- Bear	**98DH 66e**	mass gnt-cc-fluor-act	<5	---	<.2	2.72	46	<10	**38.5**	2	14.05	<.5	<1	63	3	5.36	10	<1	0.02
Camp 5- Bear	98DH 67	strongly oxidized hfls	<5	---	0.2	2.94	8	180	0.5	2	0.19	<.5	4	114	63	3.71	10	<1	1.67
Camp 5- Bear	98DH 68	strongly oxidizedmarginal phase intr.	35	---	1	1.4	54	190	2	<2	1.29	**11.5**	9	48	115	3.52	<10	<1	0.13
Camp 5- Bear	**98DH 69**	Back of Trix, skarn, mass sulph float	**1220**	---	**20.8**	0.08	**>10000**	<10	<.5	**34**	0.04	<.5	<1	95	**1755**	**>15.00**	<10	<1	0.04
Camp 5- Bear	98DH 70a	act-cc-epid- act? Skarn. float	<5	---	0.2	1.27	102	<10	5	**22**	>15.00	<.5	<1	21	6	0.96	<10	<1	0.01
Camp 5- Bear	98DH 70b	kspar-fluorite vein	<5	---	0.2	0.3	122	70	1.5	<2	0.68	<.5	1	48	11	1.1	<10	<1	0.22
Camp 5- Bear	98DH 71a	pegmatite with fluorite. Float	<5	---	0.2	3.74	20	30	2.5	<2	2.35	<.5	1	8	4	0.79	<10	<1	0.15
Camp 5- Bear	98DH 71b	c.g. rusty intrusive. Float	**90**	---	1.4	0.49	20	50	4	32	1.29	0.5	3	32	51	1.82	<10	<1	0.25
Camp 5- Bear	98DH 71c	fresh intrusive cut by kspar vein. Float	<5	---	<.2	1.07	16	70	3	<2	1.42	<.5	3	22	7	1.43	<10	<1	0.26
Camp 5- Bear	98DH 72a	hematized syenite. Float	<5	---	<.2	0.54	14	100	3.5	<2	1.42	<.5	3	30	3	1.7	<10	<1	0.21
Camp 5- Bear	**98DH 72b**	feldspath. dyke or vein containing Mo, py, cp, cut by qtz-py-cp vein. Flt	<5	---	<.2	0.28	28	40	2	4	0.2	<.5	1	94	34	0.61	<10	<1	0.16
Camp 5- Bear	98DH 73a	oxidized pelitic hfls, po. Float.	<5	---	<.2	0.97	28	110	<.5	2	0.73	<.5	11	111	46	2.56	<10	<1	0.44
Camp 5- Bear	**98DH 74**	rusty bould. of main syenite ph, 1-2% py	**150**	---	0.2	0.66	270	140	2.5	**84**	0.93	<.5	1	36	161	4.84	<10	<1	0.55
Camp 5- Bear	98DH 77b	very rusty pelitic hfls w 1-2% vfgdiss py? or mica. Float	<5	---	0.4	1.03	20	110	1	<2	0.03	<.5	11	151	88	2.22	<10	<1	0.15
Camp 5- Bear	98DH 79	pelitic hfls and f.g. mafic dyke, tr diss py. Float.	40	---	1.4	2.81	126	50	0.5	<2	2.07	<.5	14	78	120	3.01	<10	<1	0.04
Camp 5- Bear	98DH 80a	rep sample, rusty weath clean quartzite(hflsed MKH?)	<5	---	<.2	0.08	12	10	<.5	<2	0.01	<.5	<1	228	2	0.33	<10	<1	0.02
Camp 5- Bear	98DH 80b	dk rusty f.g. pelitic hfls w v.f.g. diss py and tr cp. Float	<5	---	0.2	1.01	104	190	0.5	<2	0.17	<.5	11	162	48	1.78	<10	<1	0.17
Camp 5- Bear	98DH 80c	rusty weath dk green sliceous hfls w 2% f.g. diss po.	<5	---	1.6	0.14	14	<10	<.5	2	0.12	<.5	6	157	47	6.41	<10	<1	<.01
Camp 5- Bear	98DH 80d	rusty weath white siliceous hfls (qtzite) w tr py.	<5	---	0.2	0.05	8	10	<.5	<2	<.01	<.5	<1	229	3	0.44	<10	<1	0.01
Camp 6- Hunter	98DH 81	drusy vuggy qtz-carb-lim vein	<5	---	<.2	0.1	6	<10	<.5	<2	0.43	<.5	1	226	4	1.78	<10	<1	0.04
Camp 6- Hunter	98DH 82	carbonate altered COv	<5	---	<.2	1.56	62	40	<.5	<2	12.1	<.5	**40**	152	158	4.48	<10	<1	0.09
Camp 6- Hunter	98DH 84	gabbro? w po	<5	---	<.2	2.79	4	140	0.5	2	2.37	<.5	27	243	45	5.42	10	<1	<.01
Camp 6- Hunter	98DH 85a	listwaenite? Carb-fuchs alt mafic Pd, py diss and on fractures	<5	---	<.2	1.47	12	90	<.5	<2	6.91	<.5	28	261	99	5.68	<10	<1	0.09
Camp 6- Hunter	98DH 85b	listwaenite? Carb-fuchs-sericite alt Pd	<5	---	<.2	1.69	18	90	0.5	2	7.12	<.5	28	322	80	5.69	<10	<1	0.14
Camp 6- Hunter	98DH 86a	rep sample Road River chert	<5	---	<.2	0.1	2	40	<.5	<2	0.02	<.5	3	207	23	0.68	<10	<1	0.04
Camp 6- Hunter	98DH 86b	rep sample, Earn Gp chert? Yellow staining.	<5	---	0.6	0.11	6	60	<.5	<2	<.01	<.5	<1	243	9	0.47	<10	<1	0.05
Camp 6- Hunter	98DH 87a	agglomerate? Rounded to angular volc clasts in f.g. black matrix	<5	---	<.2	3.18	2	480	<.5	<2	4.68	0.5	39	181	44	5.7	10	<1	0.1
Camp 6- Hunter	98DH 89	rusty weath carb- altered dyke with 2-3% diss po	<5	---	<.2	2.78	8	620	<.5	<2	11.75	<.5	29	230	46	5.22	<10	<1	0.57
Camp 6- Hunter	98DH 91	rep sample, Earn Gp cpclg	<5	---	<.2	1.01	10	330	<.5	<2	0.32	<.5	6	182	11	1.66	<10	<1	0.46
Camp 6- Hunter	98DH 92	qtz-sulph vein in yellow stained Earn Gp shales. Float	<5	---	0.2	0.87	28	180	<.5	<2	0.24	<.5	<1	22	48	5.85	<10	<1	0.16
Camp 6- Hunter	98DH 93	rep sample, Earn Gp ? Siliceous shale and chert	<5	---	<.2	2.23	12	160	<.5	<2	0.26	<.5	10	115	20	3.37	<10	<1	0.55
Camp 6- Hunter	**98DH 94c**	unmapped biot-fspar intr.	**360**	---	<.2	0.67	66	120	0.5	<2	2.68	<.5	1	13	27	0.95	<10	<1	0.3

CAMP	SAMPLE	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	NUMBER	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Camp 3- Mt Brenner	98DH 51a	50	0.36	360	3	0.14	2	530	16	<2	3	65	0.09	<10	<10	24	10	34
Camp 3- Mt Brenner	98DH 51b	90	0.41	600	3	0.16	1	570	22	<2	3	59	0.11	<10	60	28	<10	52
Camp 3- Mt Brenner	98DH 51c	80	0.4	565	2	0.16	2	620	22	<2	2	450	0.11	<10	30	30	10	52
Camp 3- Mt Brenner	98DH 52a	110	0.19	320	7	0.1	2	650	38	<2	1	108	0.07	<10	40	20	50	36
Camp 3- Mt Brenner	98DH 52b	80	0.25	385	3	0.11	1	600	24	<2	1	62	0.08	<10	40	22	<10	36
Camp 3- Mt Brenner	98DH 53c	10	0.04	75	<1	0.08	1	70	26	<2	<1	391	<.01	<10	60	4	<10	12
Camp 3- Mt Brenner	**98DH 54a**	120	0.51	540	10	0.09	2	760	48	<2	3	153	0.11	<10	50	35	10	146
Camp 3- Mt Brenner	98DH 54b	30	0.08	1695	6	<.01	1	20	56	<2	1	595	<.01	<10	40	12	<10	66
Camp 4- North Face	98DH 57	<10	0.24	475	<1	<.01	<1	50	6	<2	<1	189	<.01	<10	<10	2	<10	14
Camp 4- North Face	98DH 59	40	0.43	585	3	0.04	7	580	6	<2	4	63	0.05	<10	<10	33	<10	44
Camp 4- North Face	98DH 60	60	0.3	650	2	0.16	2	1190	8	<2	3	116	0.12	<10	<10	35	<10	70
Camp 4- North Face	98DH 62a	10	0.81	20	<1	0.02	14	600	<2	<2	1	22	0.01	<10	<10	13	<10	86
Camp 4- North Face	98DH 62b	<10	0.11	80	3	<.01	6	560	<2	<2	<1	120	<.01	<10	<10	10	<10	34
Camp 4- North Face	98DH 63a	60	1.05	780	1	0.09	9	880	8	<2	4	149	0.18	<10	<10	89	<10	92
Camp 4- North Face	98DH 63b	40	0.57	680	1	0.07	5	510	<2	<2	4	159	0.23	<10	<10	87	<10	60
Camp 4- North Face	98DH 64	<10	0.11	25	5	0.03	26	750	32	2	<1	54	<.01	<10	<10	37	<10	72
Camp 4- North Face	98DH 65a	70	0.81	795	3	0.03	4	950	6	<2	5	162	0.14	<10	<10	71	<10	82
Camp 4- North Face	98DH 65b	<10	0.65	1075	3	<.01	5	950	276	68	<1	413	<.01	<10	<10	5	<10	426
Camp 5- Bear	**98DH 66a**	<10	0.07	835	8	<.01	<1	90	28	36	<1	2	<.01	<10	10	<1	10	50
Camp 5- Bear	**98DH 66b**	<10	0.05	1755	7	<.01	<1	140	46	106	<1	9	<.01	10	50	<1	10	114
Camp 5- Bear	98DH 66c	50	0.23	985	1	0.01	1	1000	10	12	3	205	0.08	<10	10	41	<10	58
Camp 5- Bear	98DH 66d	<10	0.44	3390	<1	<.01	3	260	<2	<2	<1	588	<.01	<10	<10	9	<10	130
Camp 5- Bear	**98DH 66e**	**250**	0.1	2720	3	0.01	1	110	12	2	<1	152	0.06	<10	100	29	<10	62
Camp 5- Bear	98DH 67	<10	1.33	605	4	0.03	7	50	30	<2	16	15	0.36	<10	<10	89	<10	108
Camp 5- Bear	98DH 68	30	0.11	195	10	0.13	12	800	132	2	<1	222	0.05	<10	10	10	<10	966
Camp 5- Bear	**98DH 69**	<10	0.01	165	**511**	<.01	2	120	598	24	<1	2	<.01	<10	10	<1	<10	100
Camp 5- Bear	98DH 70a	30	0.14	1060	<1	<.01	<1	80	20	24	<1	571	0.02	<10	10	10	<10	68
Camp 5- Bear	98DH 70b	60	0.07	180	5	0.12	1	270	70	<2	<1	223	0.09	<10	10	15	<10	40
Camp 5- Bear	98DH 71a	10	0.1	225	1	2.24	<1	40	90	2	<1	553	0.02	<10	10	7	<10	38
Camp 5- Bear	98DH 71b	50	0.15	410	3	0.16	1	260	180	<2	1	106	0.1	<10	20	26	<10	192
Camp 5- Bear	98DH 71c	200	0.17	350	1	0.43	3	280	86	<2	1	218	0.1	<10	50	23	<10	64
Camp 5- Bear	98DH 72a	50	0.26	590	2	0.1	3	460	32	<2	2	189	0.08	<10	10	31	<10	62
Camp 5- Bear	**98DH 72b**	60	0.01	70	**1000**	0.07	1	<10	8	<2	<1	706	0.01	<10	20	4	<10	12
Camp 5- Bear	98DH 73a	20	0.83	265	16	0.07	29	1220	12	<2	1	134	0.19	<10	<10	41	<10	30
Camp 5- Bear	**98DH 74**	80	0.43	400	5	0.05	1	900	22	2	4	75	0.28	<10	10	82	<10	56
Camp 5- Bear	98DH 77b	30	0.26	70	9	0.01	55	160	<2	<2	2	8	0.01	<10	<10	11	<10	8
Camp 5- Bear	98DH 79	<10	0.2	30	4	0.06	47	830	2	<2	1	87	0.06	<10	<10	20	<10	20
Camp 5- Bear	98DH 80a	<10	<.01	10	3	<.01	3	60	<2	<2	<1	1	<.01	<10	<10	1	<10	<2
Camp 5- Bear	98DH 80b	10	0.27	95	4	0.01	39	640	26	<2	2	19	0.02	<10	<10	21	<10	50
Camp 5- Bear	98DH 80c	<10	0.18	110	3	<.01	18	90	<2	<2	<1	<1	0.02	<10	<10	3	<10	20
Camp 5- Bear	98DH 80d	<10	<.01	10	4	<.01	3	10	4	<2	<1	1	<.01	<10	<10	1	<10	<2
Camp 6- Hunter	98DH 81	<10	0.07	375	3	<.01	5	40	10	<2	<1	10	<.01	<10	<10	1	<10	28
Camp 6- Hunter	98DH 82	10	2.15	1495	<1	0.03	154	1340	<2	<2	13	295	<.01	<10	<10	79	<10	78
Camp 6- Hunter	98DH 84	30	4.06	770	4	0.03	87	2250	<2	<2	4	139	0.19	<10	<10	80	<10	88
Camp 6- Hunter	98DH 85a	30	2.77	1150	1	0.03	78	**2940**	16	2	18	418	<.01	<10	<10	91	<10	144
Camp 6- Hunter	98DH 85b	20	3.03	1065	1	0.03	99	2550	6	<2	20	417	<.01	<10	<10	88	<10	102
Camp 6- Hunter	98DH 86a	<10	0.01	550	<1	<.01	8	50	<2	<2	1	4	<.01	<10	<10	4	<10	12
Camp 6- Hunter	98DH 86b	<10	0.01	15	4	<.01	7	160	<2	<2	<1	10	<.01	<10	<10	55	<10	2
Camp 6- Hunter	98DH 87a	10	3.89	855	3	0.01	143	1250	<2	<2	11	279	<.01	<10	<10	92	<10	152
Camp 6- Hunter	98DH 89	10	2.89	1355	1	<.01	105	1870	<2	<2	12	517	0.09	<10	<10	105	<10	70
Camp 6- Hunter	98DH 91	<10	0.46	80	<1	<.01	20	890	2	<2	2	25	0.05	<10	<10	63	<10	42
Camp 6- Hunter	98DH 92	50	0.3	80	1	0.26	5	1040	22	<2	1	219	<.01	<10	<10	8	<10	24
Camp 6- Hunter	98DH 93	<10	1.04	305	1	0.04	32	1030	<2	2	4	32	0.07	<10	<10	75	<10	78
Camp 6- Hunter	**98DH 94c**	40	0.06	390	1	0.07	1	240	6	<2	<1	159	<.01	<10	<10	1	<10	20

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	Au ppb	Au g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
Camp 6- Hunter	98DH 95	rep sample JLs, rusty, yellow weath, folded shales	<5	---	0.8	1.78	20	190	1.5	<2	0.11	<.5	1	81	58	3.73	<10	<1	0.31
Camp 6- Hunter	98DH 97	Road River rusty chert, diss po on fractures	<5	---	<.2	1.09	2	170	<.5	<2	0.03	<.5	4	35	37	1.44	<10	<1	0.51
Camp 6- Hunter	98DH 101a	sugary siliceous hfls cut by qtz veins w 1% py	<5	---	<.2	0.26	**232**	30	<.5	<2	<.01	<.5	1	157	1	0.85	<10	<1	0.13
Camp 6- Hunter	**98DH 101b**	sheared pelitic hfls, w frothy yellow-altered pod. Tr sulph.	**340**	---	5.2	2.21	**2400**	160	<.5	10	0.07	<.5	1	203	31	3.53	10	<1	1.51
Camp 6- Hunter	98DH 101c	banded massive siliceous hfls w 1% diss po+py	<5	---	0.2	0.13	**184**	10	<.5	<2	0.01	<.5	4	167	9	1.74	<10	<1	0.06
Camp 7- Horn	**98DH 105a**	Tr 11: act-cc skarn w cp, po, py	**>10000**	**19.8**	7.6	0.13	6	<10	<.5	**22**	0.81	0.5	27	42	**2170**	**>15.00**	<10	<1	0.07
Camp 7- Horn	98DH 105b	Tr 9: dk green act, unmineralized	<5	---	<.2	1.74	2	20	5.5	2	6.71	<.5	1	48	10	3.59	<10	<1	0.01
Camp 7- Horn	**98DH 105c**	mineralized skarn, 1-2% cp	<5	---	3	0.07	18	<10	<.5	12	0.02	0.5	28	6	**1890**	**>15.00**	<10	<1	<.01
Camp 7- Horn	**98DH 106a**	Tr 6	**9120**	---	**31.6**	0.04	12	<10	<.5	Intf*	1.87	1.5	**38**	7	**1.42%**	**>15.00**	<10	<1	<.01
Camp 7- Horn	**98DH 106b**	oxidized gouge	**1450**	---	7.8	0.08	<2	30	<.5	**110**	0.17	<.5	8	22	**2630**	**>15.00**	<10	<1	0.01
Camp 7- Horn	**98DH 107**	rusty punky limonitic breccia	**640**	---	3.4	1.13	18	20	2.5	**22**	2.39	<.5	28	26	**1720**	**>15.00**	10	<1	0.8
Camp 7- Horn	**98DH 108**	**Tr 2:** drusy qtz, cc, act w m-c.g. po+cp	**>10000**	**275.2**	**158g/t**	0.24	132	10	<.5	Intf*	4.82	3.5	12	9	**>10000**	**>15.00**	<10	1	0.12
Camp 7- Horn	**98DH 109**	rusty alt. syenite w po-cp in pods +diss	**540**	---	0.2	0.23	<2	40	0.5	2	0.17	<.5	4	40	**189**	2.65	<10	<1	0.21
Camp 7- Horn	98DH 110a	f.g. tinguaite w py on fract.	<5	---	<.2	1.06	2	50	1	<2	0.82	<.5	6	25	26	3.32	<10	<1	0.48
Camp 7- Horn	**98DH 110b**	clay altered equig qtz monzonite	**150**	---	4.6	0.44	130	60	1	**104**	0.59	1.5	1	100	143	2.17	<10	<1	0.37
Camp 7- Horn	**98DH 110c**	clay altered equig qtz monzonite w thin qtz-cp-malach veins	**240**	---	**14.6**	0.5	**538**	70	1.5	12	0.56	0.5	3	73	**3080**	1.44	<10	<1	0.28
Camp 7- Horn	**98DH 110d**	scorodite? altered quartz monzonite w drusy qtz-carb veining, tr sulph.	25	---	4	0.38	64	50	1.5	2	1.45	9	1	90	58	2.66	<10	<1	0.3
Camp 7- Horn	98DH 111a	rusty weath syenite w diss alt pyrite	<5	---	<.2	0.22	4	40	<.5	<2	0.06	<.5	1	36	162	1.42	<10	<1	0.21
Camp 7- Horn	98DH 111b	yellow altered rusty syenite. Float	<5	---	0.8	0.22	6	20	1	16	0.12	<.5	3	31	**190**	3.08	<10	<1	0.13
Camp 7- Horn	98DH 112a	pod of smokey quartz and diss sulph in rusty syenite	10	---	2.6	0.7	16	50	2	6	0.75	<.5	10	113	**287**	4.77	<10	<1	0.37
Camp 7- Horn	98DH 112b	8000 cps on o/c, f.g, maroonish 'cooked' rock	<5	---	1.4	0.71	<2	130	1.5	<2	0.96	<.5	6	23	45	3	<10	<1	0.28
Camp 7- Horn	98DH 114	Trix, endoskn w po-py stringers	<5	---	<.2	1.84	12	100	1.5	2	0.05	<.5	20	70	55	4.08	<10	<1	0.82
Camp 7- Horn	98DH 116	Trix, siliceous hfls	<5	---	<.2	2.32	28	160	0.5	2	0.08	<.5	19	80	51	4.55	<10	<1	0.74
Camp 8-Cath.Mntn	98DH 117a	MKH, qtz-injected black phyllite	<5	---	<.2	2.42	6	**1640**	<.5	<2	0.34	<.5	10	113	41	2.61	<10	<1	0.61
Camp 8-Cath.Mntn	98DH 117b	MKH, mass dk grey f.g qtzite w thin qtz veins	<5	---	<.2	0.21	4	40	<.5	<2	0.19	<.5	2	171	5	0.4	<10	<1	0.04
Camp 8-Cath.Mntn	98DH 118a	rusty 'lamprophyre', kspar-biot-pxn?	<5	---	<.2	2.12	<2	660	<.5	2	0.88	1.5	15	58	20	3.63	<10	<1	1.05
Camp 8-Cath.Mntn	98DH 118b	fresher 'lamprophyre', kspar-biot-pxn?	<5	---	<.2	1.23	12	80	0.5	2	1.52	<.5	16	27	17	3.55	<10	<1	0.86
Camp 8-Cath.Mntn	98DH 118c	rusty altered and fractured intrusive, biot cakes, py or sericite	<5	---	0.6	2.31	2	200	1.5	<2	1.44	3	34	33	67	3.99	<10	<1	0.43
Camp 8-Cath.Mntn	98DH 119	rep sample, JLs black and rusty weathering black shale	<5	---	0.2	2.68	14	190	1.5	<2	0.06	<.5	4	35	84	4.18	<10	<1	0.28
Camp 8-Cath.Mntn	98DH 120	rep sample, JLs brown and rusty folded shales to siltstones	<5	---	<.2	1.93	8	130	0.5	<2	2.28	<.5	10	61	19	2.82	<10	<1	0.37
Camp 8-Cath.Mntn	98DH 121	grey lbue weath sil shale to siltsone. JLs? EG? RR?	<5	---	0.4	0.7	<2	360	<.5	<2	0.06	<.5	<1	76	7	0.32	<10	<1	0.23
Camp 8-Cath.Mntn	98DH 122	rep sample JLs graphitic shales	<5	---	0.2	1.89	24	10	0.5	2	2.38	<.5	15	210	5	**>15.00**	<10	<1	<.01
Camp 8-Cath.Mntn	98DH 124a	sugary grey and white qtz-kspar vein in intrusive	<5	---	<.2	0.13	<2	40	<.5	4	0.07	<.5	<1	186	1	0.31	<10	<1	0.08
Camp 8-Cath.Mntn	98DH 124b	yellow quartz float, no vis sulph.	<5	---	<.2	0.07	<2	<10	<.5	<2	0.07	<.5	1	233	1	0.77	<10	<1	<.01
Camp 8-Cath.Mntn	98DH 125	rep sample main syenite phase. Float	<5	---	<.2	0.82	2	160	<.5	<2	0.83	<.5	3	64	<1	1.67	<10	<1	0.33
Camp 8-Cath.Mntn	98DH 126	porph. Syenite cut by qtz-fsapr vein/dyke	<5	---	<.2	0.7	20	100	0.5	4	0.67	<.5	2	75	1	1.38	<10	<1	0.29
Camp 8-Cath.Mntn	98DH 127	thin rusty veinlets w rusty selvages w tr diss py, in syenite. Float	<5	---	<.2	0.87	20	140	<.5	<2	1.44	<.5	2	54	<1	1.9	<10	<1	0.35
Camp 8-Cath.Mntn	98DH 128	thin rusty veinlets w rusty selvages w diss py, in syenite. Float	<5	---	<.2	0.78	4	120	0.5	<2	1.22	<.5	1	58	<1	1.68	<10	<1	0.22
Camp 8-Cath.Mntn	98DH 129	thin vuggy vein w c.g. py, po, musc, in rusty syenite. Float	15	---	<.2	0.87	18	230	0.5	2	2.12	<.5	4	42	101	2.12	<10	<1	0.43
Camp 8-Cath.Mntn	98DH 130a	ferricrete: rust-covered shale chips.	<5	---	0.6	1.35	16	220	<.5	<2	0.22	<.5	1	94	33	8.72	<10	<1	0.28
Camp 8-Cath.Mntn	98DH 130c	rusty weath felsic dyke w 2-3% diss po	<5	---	0.2	0.58	36	170	0.5	<2	3.76	<.5	7	32	10	3.24	<10	<1	0.28
Camp 9- Felsic volcs	98DH 131	? Rusty weath felsic lapilli tuff, 2-3% diss py. Float	<5	---	<.2	1.17	<2	40	<.5	<2	7.7	<.5	41	234	52	6.43	<10	<1	0.01
Camp 9- Felsic volcs	98DH 132	volcanic breccia, carbonate matirx	<5	---	<.2	2.49	<2	110	<.5	<2	8.86	<.5	27	251	53	4.06	10	<1	0.03
Camp 9- Felsic volcs	98DH 133	rep Cov, mafic fragmental volcanic, tr py	<5	---	<.2	3.51	2	50	0.5	<2	2.03	<.5	42	178	54	7.51	10	<1	0.03
Camp 9- Felsic volcs	98DH 135a	rusty latered basalt w 3% f.g. diss py. S/c	<5	---	<.2	2.28	16	50	0.5	<2	2.37	<.5	80	380	109	10.8	10	<1	0.3
Camp 9- Felsic volcs	98DH 135b	pink weath c.g. carb vein w chl, hem-lim incl. 1-2% diss py on selvage	<5	---	<.2	0.37	<2	640	<.5	<2	>15.00	<.5	21	53	21	1.72	<10	<1	0.03
Camp 9- Felsic volcs	98DH 135c	hematized volcs w carb veining, diss py	<5	---	<.2	0.89	8	70	<.5	<2	>15.00	<.5	58	155	57	3.84	<10	<1	0.08
Camp 9- Felsic volcs	98DH 135d	grab bag of flaot of variably mineralized volcs.	<5	---	<.2	0.54	18	200	<.5	<2	10.1	<.5	45	147	49	6.25	<10	<1	0.03
Camp 9- Felsic volcs	98DH 136	?	<5	---	0.2	2.91	2	130	0.5	2	2.36	<.5	38	48	90	6.34	10	<1	0.01
Camp 9- Felsic volcs	**98DH 137**	Burke zone, Jo's 2nd find.Banded vuggy drusy qtz-sid-ga in carb alt. z.	<5	---	**428g/t**	0.11	**248**	50	<.5	**34**	1.63	**69**	11	106	**3910**	13.2	<10	17	0.04
Camp 9- Felsic volcs	98DH 138	augite-phyric basalt	<5	---	0.2	3.07	4	100	0.5	2	2.35	<.5	41	49	103	6.74	10	<1	0.03
Camp 9- Felsic volcs	98DH 140a	banded vuggy carbonate altered volcaniclastic. Float	<5	---	4.8	0.25	<2	50	<.5	<2	11.05	1	25	87	59	4	<10	<1	0.01
Camp 9- Felsic volcs	98DH 141a	rep COV2 flesic volcaniclastic	<5	---	0.2	1.11	2	50	0.5	2	7.94	<.5	34	78	34	7.14	<10	<1	0.1
Camp 9- Felsic volcs	98DH 141c	drusy milky and clear qtz vein w lim (+siderite?), slicks on both walls	<5	---	1	0.06	6	50	<.5	<2	0.2	<.5	3	203	10	5.75	<10	<1	0.02

CAMP	SAMPLE NUMBER	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Camp 6- Hunter	98DH 95	10	0.42	135	21	0.09	8	1330	12	2	3	54	<.01	<10	<10	66	<10	86
Camp 6- Hunter	98DH 97	10	0.4	255	<1	0.01	16	180	<2	<2	2	25	0.05	<10	<10	15	<10	30
Camp 6- Hunter	98DH 101a	<10	0.01	20	<1	<.01	5	40	10	<2	<1	3	<.01	<10	<10	3	<10	<2
Camp 6- Hunter	**98DH 101b**	20	2.46	2360	2	0.01	5	1340	**486**	8	14	38	0.12	<10	<10	117	<10	38
Camp 6- Hunter	98DH 101c	<10	0.03	50	<1	<.01	8	50	16	4	<1	1	<.01	<10	<10	1	<10	8
Camp 7- Horn	**98DH 105a**	<10	0.21	195	8	<.01	12	<10	4	6	<1	24	<.01	<10	<10	27	40	52
Camp 7- Horn	98DH 105b	40	0.23	1915	1	<.01	5	390	<2	<2	<1	7	0.01	<10	10	118	<10	42
Camp 7- Horn	**98DH 105c**	<10	0.01	135	1	<.01	5	10	<2	4	<1	<1	<.01	<10	10	<1	10	74
Camp 7- Horn	**98DH 106a**	<10	0.03	15	1	0.04	6	Intf*	<2	8	<1	5	<.01	<10	20	<1	50	162
Camp 7- Horn	**98DH 106b**	<10	0.03	25	8	<.01	<1	50	6	6	<1	1	<.01	<10	10	5	30	56
Camp 7- Horn	**98DH 107**	50	0.76	300	1	<.01	6	80	8	6	3	20	0.05	<10	10	56	90	52
Camp 7- Horn	**98DH 108**	<10	0.05	330	**33**	0.2	6	Intf*	**952**	**144**	<1	8	<.01	<10	20	4	80	**562**
Camp 7- Horn	**98DH 109**	30	0.07	50	1	0.04	1	80	8	<2	<1	95	0.03	<10	<10	24	<10	10
Camp 7- Horn	98DH 110a	60	0.38	640	3	0.11	1	560	8	<2	2	68	0.14	<10	<10	38	<10	80
Camp 7- Horn	**98DH 110b**	10	0.03	830	11	0.01	3	70	**370**	<2	<1	85	<.01	<10	<10	3	<10	360
Camp 7- Horn	**98DH 110c**	30	0.05	435	5	0.04	3	140	**132**	<2	1	92	<.01	<10	<10	7	<10	320
Camp 7- Horn	**98DH 110d**	30	0.08	**4000**	2	<.01	2	90	**1375**	52	<1	181	<.01	<10	10	1	<10	**2340**
Camp 7- Horn	98DH 111a	10	0.04	30	<1	0.05	<1	50	10	<2	<1	36	0.04	<10	<10	17	<10	12
Camp 7- Horn	98DH 111b	10	0.06	40	<1	0.04	<1	70	14	2	<1	23	0.07	<10	<10	34	<10	14
Camp 7- Horn	98DH 112a	20	0.09	960	1	0.05	4	710	64	2	3	71	<.01	<10	<10	28	<10	76
Camp 7- Horn	98DH 112b	90	0.33	555	<1	0.13	2	680	46	<2	2	51	0.18	<10	**1460**	36	<10	88
Camp 7- Horn	98DH 114	10	1.03	80	11	0.04	38	110	2	<2	**12**	28	0.15	<10	<10	45	<10	34
Camp 7- Horn	98DH 116	10	0.96	305	1	0.04	36	270	2	<2	6	10	0.01	<10	<10	28	<10	66
Camp 8-Cath.Mntn	98DH 117a	<10	1	780	<1	0.08	38	360	<2	<2	4	87	0.09	<10	<10	52	<10	80
Camp 8-Cath.Mntn	98DH 117b	<10	0.05	35	1	<.01	7	90	<2	<2	<1	28	0.01	<10	<10	3	<10	6
Camp 8-Cath.Mntn	98DH 118a	50	1.03	560	4	0.11	21	960	<2	<2	3	131	0.21	<10	<10	83	<10	88
Camp 8-Cath.Mntn	98DH 118b	40	0.71	805	1	0.06	25	950	32	<2	2	98	0.13	<10	<10	81	<10	98
Camp 8-Cath.Mntn	98DH 118c	50	0.81	230	3	0.26	75	**2300**	<2	<2	4	**292**	0.19	<10	<10	69	<10	186
Camp 8-Cath.Mntn	98DH 119	30	0.89	165	6	0.04	19	770	6	<2	1	19	<.01	<10	<10	28	<10	112
Camp 8-Cath.Mntn	98DH 120	20	1.37	490	1	0.02	26	900	4	2	4	89	0.01	<10	<10	21	<10	70
Camp 8-Cath.Mntn	98DH 121	30	0.08	10	5	0.05	1	870	8	<2	2	11	<.01	<10	<10	21	<10	10
Camp 8-Cath.Mntn	98DH 122	10	1.97	1110	11	<.01	57	**4330**	<2	2	5	141	<.01	<10	<10	**380**	<10	234
Camp 8-Cath.Mntn	98DH 124a	<10	0.02	35	17	0.02	3	20	6	<2	<1	8	<.01	<10	<10	1	<10	6
Camp 8-Cath.Mntn	98DH 124b	<10	0.06	45	7	<.01	4	110	<2	<2	<1	4	<.01	<10	<10	13	<10	8
Camp 8-Cath.Mntn	98DH 125	70	0.29	275	3	0.12	1	560	6	<2	1	75	0.09	<10	<10	5	<10	58
Camp 8-Cath.Mntn	98DH 126	40	0.23	260	5	0.11	1	400	20	<2	1	49	0.08	<10	10	4	<10	56
Camp 8-Cath.Mntn	98DH 127	60	0.21	355	3	0.09	1	400	2	<2	1	160	0.1	<10	<10	3	<10	52
Camp 8-Cath.Mntn	98DH 128	60	0.18	305	3	0.13	1	410	6	<2	1	151	0.1	<10	<10	3	<10	56
Camp 8-Cath.Mntn	98DH 129	30	0.1	300	7	0.06	1	380	34	<2	<1	153	<.01	<10	10	1	<10	32
Camp 8-Cath.Mntn	98DH 130a	10	0.54	130	**13**	0.09	13	990	2	2	3	54	0.01	<10	<10	49	<10	82
Camp 8-Cath.Mntn	98DH 130c	20	0.5	915	6	0.05	5	800	6	<2	1	514	<.01	<10	<10	5	<10	50
Camp 9- Felsic volcs	98DH 131	10	3.41	915	2	0.05	154	1070	<2	<2	15	669	<.01	<10	<10	181	<10	80
Camp 9- Felsic volcs	98DH 132	10	2.45	770	2	<.01	96	1030	<2	<2	3	185	0.47	<10	<10	75	<10	60
Camp 9- Felsic volcs	98DH 133	30	3.8	1000	<1	<.01	122	2230	<2	<2	4	73	0.47	<10	<10	112	<10	100
Camp 9- Felsic volcs	98DH 135a	20	1.63	305	6	<.01	**410**	**3080**	<2	<2	16	70	0.45	<10	<10	149	<10	64
Camp 9- Felsic volcs	98DH 135b	<10	0.35	565	3	<.01	90	1380	4	<2	2	262	0.11	<10	<10	22	<10	12
Camp 9- Felsic volcs	98DH 135c	10	0.82	695	3	<.01	252	**3860**	<2	<2	5	273	0.14	<10	<10	53	<10	32
Camp 9- Felsic volcs	98DH 135d	10	0.48	335	**14**	0.01	219	**2920**	8	<2	5	173	0.13	<10	<10	59	<10	30
Camp 9- Felsic volcs	98DH 136	30	3.46	575	<1	<.01	88	1680	<2	<2	5	57	0.44	<10	<10	125	<10	78
Camp 9- Felsic volcs	**98DH 137**	<10	0.54	**6650**	3	<.01	100	290	**2.42%**	**3390**	5	95	<.01	<10	10	15	<10	**1880**
Camp 9- Felsic volcs	98DH 138	30	3.54	595	1	<.01	95	1310	26	8	7	53	0.64	<10	<10	159	<10	84
Camp 9- Felsic volcs	98DH 140a	10	4.39	550	6	0.02	58	750	**264**	32	5	**1480**	<.01	<10	<10	74	<10	58
Camp 9- Felsic volcs	98DH 141a	30	3.52	1125	<1	0.04	77	**2730**	2	2	8	**1460**	0.01	<10	<10	98	<10	66
Camp 9- Felsic volcs	98DH 141c	<10	0.12	1845	2	<.01	13	400	76	6	1	45	<.01	<10	<10	6	<10	32

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	Au ppb	Au g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
Camp 9- Felsic volcs	98DH 144a	carbonate altered rock	<5	---	<.2	1.2	28	10	<.5	<2	6.22	<.5	26	136	43	5.07	<10	<1	0.04
Camp 9- Felsic volcs	98DH 145a	rep sample COv, maroon and green flow banded ? Mafic volc.	<5	---	<.2	0.7	<2	50	<.5	<2	9.4	<.5	30	184	23	5.98	<10	<1	0.05
Camp 9- Felsic volcs	98DH 145b	buff weath silicified basalt. Float	<5	---	<.2	1.97	2	30	<.5	<2	8.46	<.5	15	9	8	6.38	<10	<1	0.06
Camp 9- Felsic volcs	98DH 145c	drusy qtz-carb vein in basalt. Float	<5	---	<.2	2.95	<2	10	<.5	<2	2.3	<.5	13	115	3	6.14	10	<1	0.01
Camp 9- Felsic volcs	98DH 146	rep sample Cov, phaneritic mafic flow. S/c	<5	---	<.2	3.1	<2	50	0.5	<2	5.16	<.5	43	306	78	6.24	10	<1	0.01
Camp 9- Felsic volcs	98DH 147a	carbonate altered orange-weath basalt cut by carb veins	<5	---	<.2	0.31	4	30	<.5	<2	>15.00	<.5	7	9	4	2.8	<10	<1	0.1
Camp 9- Felsic volcs	98DH 147b	rep sample COv, massive v.f.g. dk green basalt	<5	---	<.2	2.06	<2	10	0.5	<2	2.47	<.5	2	10	2	4.97	10	<1	<.01
Camp 9- Felsic volcs	**98DH 148a**	Eileen zone, selvage, drusy qtz-ga-sph veins in carb-alt volcs	<5	---	**11.4**	0.17	38	20	<.5	4	9.31	**53.5**	12	45	34	6.79	<10	3	0.1
Camp 9- Felsic volcs	**98DH 148b**	Eileen zone qtz-sph-ga veins in carb-alt volcs	<5	---	**12.2**	0.2	30	20	<.5	16	8.11	**499**	8	38	117	6.05	<10	15	0.09
Camp 9- Felsic volcs	**98DH 148c**	Eileen zone decomposed rx, pods of massive c.g. ga veins w rusty rims	**125**	---	**375g/t**	0.01	**330**	10	<.5	30	1.6	**>500.**	6	10	**1280**	7.2	<10	41	<.01
Camp 9- Felsic volcs	**98DH 148d**	Eileen zone qtz-ga veins in carb-alt volcs	15	---	5.8	0.07	14	10	<.5	<2	8.6	4.5	10	99	11	6.4	<10	<1	0.04
Camp 9- Felsic volcs	**98DH 148e**	Eileen zone altered greenish wallrock (fusch?), tr ga, py, sph in qtz pods	<5	---	0.4	0.41	84	80	<.5	<2	9.68	2.5	14	38	12	4.37	<10	<1	0.24
Camp 9- Felsic volcs	98DH 150	jasperoid? Or hematitic replacement in pillow lava	<5	---	<.2	0.15	2	10	<.5	<2	2.31	<.5	8	208	9	2.87	<10	<1	<.01
Camp 9- Felsic volcs	**98DH 152a**	rusty qtz-carb vein in volcs, galena clots in selvage	<5	---	0.2	0.07	12	<10	<.5	<2	11.95	6.5	9	37	11	6.05	<10	<1	0.04
Camp 9- Felsic volcs	**98DH 152b**	thin veins or partings w galena coating, in mafic volcs	<5	---	0.6	0.37	38	30	0.5	<2	6.96	5	29	59	16	5.32	<10	<1	0.23
Camp 10- Bay	98DH 153	rep sample, Earn Group yellow weathering, blue siliceous shales	<5	---	0.4	0.29	24	130	<.5	<2	0.04	<.5	<1	84	12	0.69	<10	<1	0.12
Camp 10- Bay	98DH 155	rep sample, Road River black chert	<5	---	<.2	0.14	14	340	<.5	<2	0.16	2	3	169	23	0.7	<10	<1	0.04
Camp 10- Bay	98DH 158	lt grey weath, dk maroonish f.g. qtzite	<5	---	<.2	2.75	<2	1220	<.5	2	6.3	<.5	113	625	68	4.92	10	<1	0.06
Camp 10- Bay	98DH 160	rep sample, v.f.g dark mafic Pd sill	<5	---	<.2	1.19	<2	160	<.5	<2	0.7	<.5	7	78	22	2.46	<10	<1	0.21
Camp 10- Bay	98DH 161	qtz vein in Road River chert, float.	<5	---	<.2	0.57	<2	100	<.5	<2	0.09	<.5	3	148	28	0.81	<10	<1	0.01
Camp 10- Bay	98DH 162a	columnar jointed UMF pxnite sill or dyke, augite phenos up to 4 cm	<5	---	<.2	2.31	<2	110	<.5	2	0.47	<.5	73	107	51	5	<10	<1	<.01
Camp 10- Bay	98DH 162b	augite phyric pillow basalt, very augite-phyric	<5	---	<.2	2.28	2	110	<.5	<2	0.52	<.5	74	121	51	5.06	<10	<1	<.01
Camp 10- Bay	98DH 162c	aphanitic basalt, few mafic crystals	<5	---	<.2	2.47	2	160	<.5	<2	8.5	<.5	55	69	78	5.03	10	<1	0.01
Camp 10- Bay	98DH 162d	augite-phyric pillow basalt	<5	---	<.2	2.05	<2	100	<.5	<2	7.69	<.5	40	84	80	4.13	<10	<1	<.01
heli-recce PF1	98DH 164a	rep sample PF1, massive and fract grey dolostn w replacement chert	<5	---	<.2	0.07	<2	20	<.5	<2	10.4	<.5	<1	52	2	0.17	<10	<1	<.01
heli-recce	98DH 164b	rep sample PF2 f.g. sandstone w rusty brown dolostone	<5	---	<.2	0.19	<2	10	<.5	2	8.5	<.5	2	64	4	0.59	<10	<1	0.08
heli-recce	98DH 165a	PF2, pervasively hematized sandstone	<5	---	<.2	0.03	<2	1060	<.5	<2	0.06	<.5	<1	186	1	0.7	<10	<1	0.02
heli-recce	98DH 165b	white banded snadstone w hematitic stain on fractures	<5	---	<.2	0.08	<2	60	<.5	<2	0.03	<.5	<1	187	1	0.36	<10	<1	0.04
heli-recce	98DH 166	PF1: dolostone with resistant and recessive bands	<5	---	<.2	<.01	<2	580	<.5	<2	8.3	<.5	<1	72	1	0.22	<10	<1	<.01
Camp 11- Brx	98DH 172a	rep sample PGL, buff weath, foliated, thinly bedded and lamin. dolostn	<5	---	<.2	1.05	<2	60	<.5	<2	8.17	<.5	8	18	6	1.35	<10	<1	0.29
Camp 11- Brx	98DH 172b	Gillespie dolostone w 1-4 cm thick py blebs	<5	---	2.4	0.26	24	20	<.5	<2	7.58	<.5	6	24	27	11.9	<10	<1	0.12
Camp 11- Brx	**98DH 173a**	showing, float of mass.coll. Marcassite. Float	<5	---	0.2	0.74	8	80	0.5	2	4	0.5	6	25	13	2.85	<10	<1	0.23
Camp 11- Brx	**98DH 173b**	mass. coll-botryoidal marcassite, w bands of frothy silica. Float	<5	---	5.4	0.01	**200**	<10	<.5	2	0.03	<.5	33	81	83	**>15.00**	<10	<1	0.01
Camp 11- Brx	**98DH 173c**	showing, float of mass.coll. Marcassite. Float	<5	---	3.8	<.01	**328**	<10	<.5	<2	<.01	<.5	18	19	46	**>15.00**	<10	1	<.01
Camp 11- Brx	**98DH 173d**	frothy silica boxwork w diss py in vugs, sulph. leached out?	<5	---	3.6	0.03	48	<10	<.5	<2	<.01	<.5	1	114	11	9.03	<10	<1	0.02
Camp 11- Brx	**98DH 173e**	mass. Botyoidal marcas. qtz colloform bands, feather-like sprays. Float	15	---	4.8	0.03	**284**	<10	<.5	<2	<.01	<.5	37	36	133	**>15.00**	<10	1	0.01
Camp 11- Brx	**98DH 173g**	PF1? Yellow weath grey dolostn w pod of py blebs	<5	---	1.6	0.16	82	10	<.5	2	8.62	**11.5**	1	22	15	13.05	<10	<1	0.09
Camp 11- Brx	**98DH 173h**	PF1? Dolostone cut by thin veins w diss ga.	<5	---	0.4	0.17	14	30	<.5	<2	13.7	**16.5**	3	15	5	3.27	<10	<1	0.1
Camp 11- Brx	**98DH 174**	PGL? Dolomite breccia w py, lim, ? + Zinc zap. Float	<5	---	2	0.02	<2	10	<.5	2	11.45	**11.5**	<1	24	**494**	1.23	<10	1	0.01
Camp 11- Brx	98DH 175a	rusty weath PGL, yellow-green fract., frothy py/qtz? Float	<5	---	1	0.37	36	10	<.5	<2	0.49	<.5	12	53	18	9.59	<10	<1	0.26
Camp 11- Brx	98DH 175b	float trail of rusty lim-py blebs w carb or clay alt., open space text.	<5	---	4.2	0.09	**130**	<10	<.5	2	0.13	0.5	29	22	64	**>15.00**	<10	<1	0.07
Camp 11- Brx	98DH 176a	rep sample mafic Pd intusive	<5	---	<.2	4.81	<2	40	0.5	<2	1.59	<.5	44	90	67	7.91	10	<1	0.1
Camp 11- Brx	98DH 176b	yellow-green weathering qtzite? W 1-2% diss py on fract	<5	---	<.2	0.67	<2	250	<.5	<2	0.11	<.5	15	34	20	1.65	<10	<1	0.54
Camp 11- Brx	98DH 177a	rep sample PR4 mass. dolostone, w thin pisol. horizon + ankerite veins	<5	---	<.2	0.09	<2	<10	<.5	<2	>15.00	0.5	<1	<1	1	0.5	<10	<1	0.01
Camp 11- Brx	98DH 178	rep sample PR5 maroon and green shale	<5	---	<.2	0.7	<2	260	0.5	<2	0.21	<.5	4	47	4	2.29	<10	<1	0.29
Camp 11- Brx	98DH 179a	finely banded, loc brecc. dolostone at PF1/PR contact, carb. veinlets	<5	---	<.2	0.08	<2	30	<.5	<2	>15.00	<.5	<1	<1	3	0.38	<10	<1	0.04
Camp 11- Brx	98DH 179b	brown weath, gritty qtzite, cut by carb veinlets	<5	---	<.2	0.04	<2	<10	<.5	<2	7.83	<.5	<1	42	1	1.6	<10	<1	0.01
Camp 11- Brx	98DH 179c	white weath, f.g. loc hematized qtzite, red staining	<5	---	<.2	0.03	<2	<10	<.5	<2	0.18	<.5	<1	134	<1	0.26	<10	<1	0.01
Camp 11- Brx	98DH 180	vuggy dk grey dolostone w carbonate veining. float	<5	---	<.2	0.03	<2	<10	<.5	<2	>15.00	<.5	<1	<1	<1	0.48	<10	<1	<.01
Camp 11- Brx	98DH 181	rep sample, yellow-beige weath dolstn w siliceous algal laminations. Float	<5	---	<.2	0.05	<2	<10	<.5	<2	>15.00	<.5	<1	<1	<1	0.24	<10	<1	0.03
Camp 11- Brx	98DH 182	PF1, carbonate breccia , large py clots in vein+vugs and tr diss py in selv	<5	---	<.2	0.22	<2	150	<.5	<2	>15.00	<.5	1	7	3	0.98	<10	<1	0.06
Camp 11- Brx	98DH 183	PF3 float from ground squirrel excavation	<5	---	<.2	2.12	6	70	<.5	2	0.4	<.5	38	54	133	8.48	<10	<1	0.5
Camp 11- Brx	98DH 184	rep sample PHc. Red silty to sandy dolostone	<5	---	<.2	0.58	<2	910	<.5	<2	11	<.5	6	25	29	1.63	<10	<1	0.3
Camp 11- Brx	98DH 185a	rep sample PH d, yellow weathering thick bedded dolostn w cgl horiz.	<5	---	<.2	0.63	<2	10	<.5	<2	12.25	<.5	3	30	13	1.57	<10	<1	0.11

all rx

CAMP	SAMPLE	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	NUMBER	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Camp 9- Felsic volcs	98DH 144a	10	3.32	855	1	0.05	115	620	<2	<2	12	581	<.01	<10	<10	109	<10	44
Camp 9- Felsic volcs	98DH 145a	30	0.94	440	<1	0.04	161	1350	2	<2	10	412	0.13	<10	<10	47	<10	58
Camp 9- Felsic volcs	98DH 145b	10	1.46	1280	1	0.04	4	**3000**	<2	2	3	433	<.01	<10	<10	37	<10	72
Camp 9- Felsic volcs	98DH 145c	<10	0.93	165	1	<.01	12	320	<2	<2	<1	179	<.01	<10	<10	34	<10	118
Camp 9- Felsic volcs	98DH 146	30	3.81	620	1	0.03	149	1840	<2	<2	17	454	<.01	<10	<10	181	<10	72
Camp 9- Felsic volcs	98DH 147a	20	0.54	2520	<1	0.02	<1	1900	2	<2	3	**1875**	<.01	<10	<10	9	<10	48
Camp 9- Felsic volcs	98DH 147b	130	0.97	1380	3	0.08	4	1040	8	<2	<1	328	<.01	<10	<10	5	<10	162
Camp 9- Felsic volcs	**98DH 148a**	<10	2.5	1830	2	<.01	22	760	**2.47%**	12	1	409	<.01	<10	10	12	<10	**7120**
Camp 9- Felsic volcs	**98DH 148b**	<10	2.1	1465	4	<.01	11	760	**2.12%**	18	1	329	<.01	10	70	10	<10	**9.94%**
Camp 9- Felsic volcs	**98DH 148c**	<10	0.37	1045	5	<.01	11	110	**40.30%**	474	<1	275	<.01	10	**100**	<1	<10	**15.10%**
Camp 9- Felsic volcs	**98DH 148d**	<10	2.44	1665	5	<.01	21	420	**1.91%**	6	<1	430	<.01	<10	<10	9	<10	714
Camp 9- Felsic volcs	**98DH 148e**	30	2.22	2290	2	<.01	22	**2910**	**384**	2	4	769	<.01	<10	<10	17	<10	348
Camp 9- Felsic volcs	98DH 150	<10	0.12	245	7	<.01	16	130	74	<2	<1	66	<.01	<10	<10	73	<10	50
Camp 9- Felsic volcs	**98DH 152a**	<10	5.11	2980	1	0.01	20	140	**450**	<2	3	328	<.01	<10	<10	16	<10	850
Camp 9- Felsic volcs	**98DH 152b**	10	2.99	1005	1	0.01	76	1310	**2100**	<2	8	300	<.01	<10	<10	35	<10	994
Camp 10- Bay	98DH 153	<10	0.05	15	**62**	<.01	17	210	10	8	1	21	0.04	<10	<10	**963**	<10	10
Camp 10- Bay	98DH 155	<10	0.01	35	**26**	<.01	69	420	4	2	1	38	<.01	<10	<10	86	<10	112
Camp 10- Bay	98DH 158	10	1.83	810	1	0.03	**330**	2110	<2	<2	16	260	<.01	<10	<10	224	<10	66
Camp 10- Bay	98DH 160	10	0.64	285	1	<.01	20	440	16	<2	3	11	<.01	<10	<10	19	<10	60
Camp 10- Bay	98DH 161	<10	0.21	35	<1	<.01	20	180	2	<2	<1	13	<.01	<10	<10	17	<10	30
Camp 10- Bay	98DH 162a	<10	7.53	610	<1	<.01	**561**	450	<2	2	2	26	0.12	<10	<10	24	<10	50
Camp 10- Bay	98DH 162b	<10	7.5	640	<1	<.01	**568**	420	<2	<2	3	27	0.15	<10	<10	28	<10	50
Camp 10- Bay	98DH 162c	10	3.19	805	1	<.01	**316**	1280	<2	<2	11	140	0.45	<10	<10	134	<10	80
Camp 10- Bay	98DH 162d	<10	3.03	645	<1	<.01	**233**	800	<2	<2	4	120	0.36	<10	<10	77	<10	58
heli-recce PF1	98DH 164a	<10	6.64	65	1	0.01	7	390	<2	<2	<1	23	0.01	<10	<10	3	<10	6
heli-recce	98DH 164b	<10	5.16	595	<1	<.01	7	200	2	<2	1	30	<.01	<10	<10	6	<10	34
heli-recce	98DH 165a	<10	0.04	15	1	<.01	3	<10	2	<2	<1	7	<.01	<10	<10	4	<10	<2
heli-recce	98DH 165b	<10	0.02	10	<1	<.01	3	10	6	<2	<1	1	<.01	<10	<10	2	<10	6
heli-recce	98DH 166	<10	5.46	130	<1	<.01	1	10	2	<2	<1	8	<.01	<10	<10	2	<10	38
Camp 11- Brx	98DH 172a	<10	5.91	450	1	<.01	16	320	10	<2	4	24	<.01	<10	<10	7	<10	56
Camp 11- Brx	98DH 172b	<10	4.68	620	1	<.01	27	150	**140**	6	1	23	<.01	<10	10	3	<10	28
Camp 11- Brx	**98DH 173a**	<10	2.93	245	<1	<.01	17	530	30	2	5	15	<.01	<10	<10	7	<10	230
Camp 11- Brx	**98DH 173b**	<10	0.02	45	10	<.01	50	<10	**1445**	<2	<1	<1	<.01	<10	<10	1	<10	20
Camp 11- Brx	**98DH 173c**	<10	<.01	60	8	<.01	73	<10	**1365**	**30**	<1	<1	<.01	<10	<10	<1	<10	30
Camp 11- Brx	**98DH 173d**	<10	<.01	10	1	<.01	10	<10	**440**	2	<1	<1	<.01	<10	<10	5	<10	26
Camp 11- Brx	**98DH 173e**	<10	<.01	45	12	<.01	56	<10	**3810**	8	<1	1	<.01	<10	<10	<1	<10	82
Camp 11- Brx	**98DH 173g**	<10	5.63	365	3	0.01	13	700	**1270**	6	<1	28	<.01	<10	10	5	<10	**5090**
Camp 11- Brx	**98DH 173h**	<10	8.44	590	1	0.01	8	900	**1250**	2	1	43	<.01	<10	<10	9	<10	**5080**
Camp 11- Brx	**98DH 174**	<10	6.72	625	1	<.01	11	40	42	<2	<1	50	<.01	<10	<10	1	<10	**4730**
Camp 11- Brx	98DH 175a	<10	0.28	50	<1	<.01	32	810	98	4	1	4	<.01	<10	<10	7	<10	146
Camp 11- Brx	98DH 175b	<10	0.11	40	3	<.01	98	60	**344**	16	<1	<1	<.01	<10	10	<1	<10	**356**
Camp 11- Brx	98DH 176a	<10	5.57	445	1	0.01	33	420	4	4	31	23	<.01	<10	<10	**257**	<10	104
Camp 11- Brx	98DH 176b	20	0.11	15	<1	<.01	11	600	10	<2	9	4	<.01	<10	<10	35	<10	14
Camp 11- Brx	98DH 177a	<10	11.1	350	1	0.01	1	50	6	<2	<1	57	<.01	<10	10	5	<10	92
Camp 11- Brx	98DH 178	10	0.28	80	<1	<.01	12	200	18	<2	1	18	<.01	<10	<10	13	<10	50
Camp 11- Brx	98DH 179a	<10	10.4	185	<1	0.03	1	60	12	<2	<1	75	<.01	<10	<10	5	<10	84
Camp 11- Brx	98DH 179b	<10	4.12	2640	<1	<.01	<1	20	<2	<2	<1	21	<.01	<10	<10	<1	<10	18
Camp 11- Brx	98DH 179c	<10	0.11	15	<1	<.01	2	<10	6	<2	<1	<1	<.01	<10	<10	1	<10	2
Camp 11- Brx	98DH 180	<10	10.75	210	<1	0.02	<1	50	6	<2	<1	70	<.01	<10	10	1	<10	94
Camp 11- Brx	98DH 181	<10	10.3	190	<1	<.01	<1	60	<2	<2	<1	17	<.01	<10	<10	1	<10	12
Camp 11- Brx	98DH 182	<10	0.92	240	<1	<.01	1	40	2	<2	<1	**622**	<.01	<10	<10	2	<10	22
Camp 11- Brx	98DH 183	<10	1.2	465	<1	<.01	48	770	20	2	**19**	7	<.01	<10	<10	140	<10	56
Camp 11- Brx	98DH 184	<10	5.46	335	1	0.01	13	370	14	<2	4	174	0.01	<10	<10	25	<10	54
Camp 11- Brx	98DH 185a	<10	7.5	290	1	0.01	6	310	<2	<2	3	48	<.01	<10	<10	28	<10	38

CAMP	SAMPLE NUMBER	SAMPLE DESCRITIONS	Au ppb	Au g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
Camp 11- Brx	98DH 185b	rep sample PHb white weathering dolostone cgl	<5	---	<.2	0.05	<2	20	<.5	<2	>15.00	0.5	<1	4	1	0.24	<10	<1	0.03
Camp 11- Brx	98DH 186	rep sample CDb, finely xtalline dolostone. float	<5	---	<.2	0.02	<2	<10	<.5	2	>15.00	<.5	<1	<1	1	0.06	<10	<1	<.01
Camp 11- Brx	98DH 187	rep sample, PHe, finely bedded dolostone	<5	---	<.2	0.73	<2	1320	<.5	<2	13.75	<.5	<1	12	17	1.37	<10	<1	0.28
Camp 11- Brx	98DH 188	rep s. PF3, lt grey weath algal lam dolostone? w resistant silic. bands. Float	<5	---	<.2	<.01	<2	<10	<.5	<2	12.95	<.5	<1	7	<1	0.03	<10	<1	<.01
Camp 11- Brx	98DH 189	rep sample PF3, dk grey, fetid, algal lam limestone thick bedded	<5	---	<.2	0.01	<2	20	<.5	<2	>15.00	<.5	<1	3	1	0.01	<10	<1	<.01
Camp 11- Brx	98DH 190	rusty weathering dirty qtzite w foliated shales	<5	---	<.2	0.78	<2	70	0.5	<2	0.35	<.5	3	99	6	1.74	<10	<1	0.16
Camp 11- Brx	98DH 192	siliceous breccia, dolostn fx	<5	---	<.2	0.02	<2	10	<.5	<2	10.85	<.5	<1	24	1	0.16	<10	<1	<.01
Camp 11- Brx	**98DH 193**	PGL? Orange weath dolosnt w rusty seam of py blebs. float	<5	---	1.4	0.09	2	30	<.5	2	14.2	**22.5**	<1	<1	12	3.15	<10	<1	0.06
Camp 12- CDb lookout	98DH 194	vesicular pillow basalt, calcite fills	<5	---	<.2	2.44	2	300	<.5	2	6.34	<.5	46	362	72	4.49	10	<1	0.03
Camp 12- CDb lookout	98DH 195	Road Riv. chert beds w core of poddy orange-weath. Carb. Replacement?	<5	---	<.2	0.07	<2	650	<.5	<2	8.48	<.5	10	90	18	1.8	<10	<1	0.02
Camp 12- CDb lookout	98DH 196	rusty Road River platy argilite	<5	---	<.2	0.92	<2	520	<.5	<2	0.2	<.5	2	31	29	1.53	<10	<1	0.28
Camp 12- CDb lookout	98DH 198	rep sample, Road River chert	15	---	<.2	0.32	<2	190	<.5	<2	0.1	<.5	1	219	38	0.81	<10	<1	0.07
Camp 12- CDb lookout	98DH 199	rep sample COv, foliated fragmental mafic volc	<5	---	<.2	5.04	<2	1400	0.5	<2	6.12	<.5	42	345	65	7.78	10	<1	0.06
Camp 12- CDb lookout	98DH 200	Gull Lake? PCH3? White weathering greenish shale	<5	---	<.2	1.33	<2	260	<.5	<2	0.17	<.5	4	33	11	1.48	<10	<1	0.2
Camp 12- CDb lookout	98DH 201	Pd diorite	<5	---	<.2	4.08	<2	**2960**	0.5	<2	2.45	<.5	38	6	53	7.16	10	<1	0.18
Camp 12- CDb lookout	98DH 202	Pd diorite. Chloritized, tr py	<5	---	0.2	4.13	2	170	<.5	<2	3.34	<.5	32	17	208	5.49	10	<1	0.03
Camp 12- CDb lookout	98DH 203	rep sample Gull Lake? Thinly wispy laminated greenish shale	<5	---	<.2	2.58	<2	380	<.5	<2	0.24	<.5	9	31	73	4.46	<10	<1	0.31
Camp 12- CDb lookout	98DH 204	orange-weathering Pd, qtz, leucoxene	<5	---	<.2	4.48	<2	**4170**	0.5	<2	5.44	<.5	38	232	96	7.57	10	<1	0.11
Camp 12- CDb lookout	98DH 205	Pd diorite	<5	---	<.2	4.54	<2	**2180**	<.5	<2	3.76	<.5	37	202	116	7.78	10	<1	0.04
Camp 12- CDb lookout	98DH 206	Road River black chert and qtz in trace of Dawson Thrust	<5	---	0.8	0.23	6	170	<.5	<2	7.7	3.5	2	68	48	0.44	<10	<1	0.03
Camp 13- Jungle Ck	98DH 211	rep sample, COv , mafic framental phase	<5	---	<.2	3.72	<2	110	0.5	2	4.37	<.5	43	338	53	7.8	10	<1	0.04
Camp 13- Jungle Ck	98DH 212a	Earn Gp sandstone to cgl, interstitial ankerite	<5	---	<.2	0.39	2	480	<.5	2	1.34	<.5	8	97	25	1.68	<10	<1	0.11
Camp 13- Jungle Ck	98DH 213	rep sample, Earn Group, dk siltstone w rusty band	<5	---	<.2	0.65	10	630	<.5	<2	0.08	<.5	5	50	41	1.11	<10	<1	0.28
Camp 13- Jungle Ck	98DH 214	Earn Gp, cpcgl w steep qtz veins	<5	---	<.2	0.24	2	270	<.5	<2	0.03	<.5	1	215	6	0.69	<10	<1	0.09
Camp 14- REE	98DH 215a	pyritic carbonate breccia in mafic volcs	<5	---	<.2	0.62	**102**	30	0.5	<2	2.58	0.5	44	105	40	4.03	<10	<1	<.01
Camp 14- REE	98DH 215b	pyritic carbonate breccia in mafic volcs	<5	---	<.2	2.32	82	90	0.5	2	4.69	<.5	50	78	41	5.96	10	<1	0.1
Camp 14- REE	98DH 216a	pyroxenite	<5	---	<.2	2.21	<2	50	<.5	2	3.03	<.5	38	269	41	4.83	<10	<1	0.1
Camp 14- REE	98DH 216b	pyroxenite	<5	---	<.2	3.06	<2	40	<.5	<2	1.31	<.5	46	327	23	5.16	<10	<1	0.05
Camp 14- REE	98DH 217	carbonate-altered mafic volcanic, 2-3% diss py	<5	---	<.2	1.56	**148**	40	<.5	<2	7.24	<.5	30	49	43	9.38	<10	<1	0.02
Camp 14- REE	98DH 218	augite-phyric fragmental basalt, cc, epidote	<5	---	<.2	2.1	<2	150	<.5	2	1.87	<.5	31	70	84	4.12	<10	<1	0.26
Camp 14- REE	98DH 219	augite phyric lava or fragental pyroclastic	<5	---	<.2	2.64	<2	50	0.5	<2	10.75	<.5	29	186	51	4.99	10	<1	0.02
Camp 14- REE	98DH 220	augite phyric lava or fragental pyroclastic	<5	---	<.2	3.13	<2	140	0.5	<2	1.57	<.5	37	155	140	6.13	10	<1	<.01
Camp 14- REE	98DH 221	lt green scoria- lapilli tuff	<5	---	<.2	3.46	<2	60	0.5	2	3.15	<.5	30	152	46	6.87	10	<1	0.04
heli-recce	98DH 222a	gossan in volcs, N of cathedral mntn	<5	---	<.2	0.37	<2	30	<.5	2	10.8	1.5	37	45	13	4.51	<10	<1	0.04
heli-recce	98DH 222b	Pd?	<5	---	<.2	0.56	<2	70	<.5	<2	7.65	1.5	23	75	16	3.4	<10	<1	0.08
heli-recce	98DH 222c	PCH1 grit	<5	---	<.2	0.41	<2	40	<.5	2	1.69	<.5	12	63	27	3.26	<10	<1	0.08
heli-recce	98DH 222d	PCH1 grit	<5	---	<.2	0.2	<2	1520	<.5	<2	14.35	4	44	9	3	3.94	<10	<1	0.02
heli-recce	98DH 222e	PCH1 grit	<5	---	<.2	2.25	2	90	<.5	<2	5.98	<.5	31	155	54	4.2	10	<1	0.06
heli-recce	98DH 223	Pd, diss py on fractures	<5	---	<.2	2.12	4	30	0.5	<2	1.81	<.5	14	22	13	6.52	10	<1	0.02
heli-recce	98DH 224	radiometric anomaly, PCH Grits, thin qtz veining	<5	---	<.2	1.06	8	40	<.5	<2	0.18	<.5	6	130	15	2.16	<10	<1	0.11
heli-recce	98DH 225	radiometric anomaly, PCH Grits, orange-weath matrix	<5	---	<.2	0.52	<2	80	<.5	<2	0.04	<.5	5	122	7	1.64	<10	<1	0.14
road work	98DH 228a	Tower claims, thin cherts to siliceous shales, fractured, rough 2m chip	<5	---	0.6	0.43	20	310	0.5	<2	0.22	7.5	2	112	81	0.98	<10	<1	0.12
road work	98DH 228b	Tower claims, thin chert to siliceous shales, qtz-cc breccia/vein	<5	---	0.2	0.22	8	210	<.5	<2	0.04	2	<1	251	10	0.56	<10	<1	0.05
road work	98DH 229a	rep sample thin bedded black chert Road River)	<5	---	0.4	0.29	16	560	<.5	<2	0.37	2.5	1	225	39	0.67	<10	<1	0.09
road work	98DH 230	rep sample Td, reddish-brown weathering diorite, silvery mineral	<5	---	<.2	2.58	<2	30	<.5	<2	1.13	<.5	23	92	123	3.82	<10	<1	0.01
road work	98DH 231	Td, qtz vein/pod	<5	---	<.2	2.98	<2	<10	<.5	<2	2.38	<.5	10	86	37	2.23	<10	<1	<.01
road work	98DH 232a	rep sample MKh: black graphitic schist	<5	---	<.2	0.17	<2	50	<.5	<2	0.03	<.5	1	133	3	0.63	<10	<1	0.01
road work	98DH 232b	rep sample MKh: balck massive f.g. qtzite	<5	---	<.2	0.9	8	150	1.5	<2	0.05	<.5	9	48	16	3.04	<10	<1	0.11
road work	98DH 233	Td, fractured diorite qw silvery mineral	<5	---	<.2	2.71	<2	340	<.5	<2	1.24	<.5	24	63	197	4.61	<10	<1	0.01
road work	98DH 234	chloritoid schist	<5	---	<.2	3.78	8	110	0.5	<2	0.27	<.5	18	30	25	5.75	<10	<1	0.15

CAMP	SAMPLE NUMBER	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Camp 11- Brx	98DH 185b	<10	10.3	135	<1	0.01	1	150	<2	<2	<1	63	<.01	<10	10	5	<10	74
Camp 11- Brx	98DH 186	<10	11.05	65	<1	<.01	<1	440	<2	<2	<1	12	<.01	<10	<10	1	<10	14
Camp 11- Brx	98DH 187	<10	8.67	335	1	0.02	6	320	2	2	3	142	<.01	<10	<10	28	<10	62
Camp 11- Brx	98DH 188	<10	8.4	210	1	<.01	<1	90	<2	<2	<1	41	<.01	<10	<10	1	<10	12
Camp 11- Brx	98DH 189	<10	5.27	10	<1	0.01	<1	310	<2	<2	<1	285	<.01	<10	<10	<1	<10	8
Camp 11- Brx	98DH 190	<10	0.25	75	<1	<.01	8	350	2	<2	1	4	<.01	<10	<10	8	<10	40
Camp 11- Brx	98DH 192	<10	7.03	285	<1	<.01	<1	40	2	<2	<1	24	<.01	<10	<10	1	<10	12
Camp 11- Brx	**98DH 193**	<10	9.04	395	3	0.01	3	250	**1320**	2	<1	31	<.01	<10	10	3	<10	**1.75%**
Camp 12- CDb lookout	98DH 194	10	2.51	680	<1	0.03	153	1160	<2	<2	16	115	0.09	<10	<10	183	<10	106
Camp 12- CDb lookout	98DH 195	<10	4.78	305	1	0.01	11	130	8	<2	1	557	<.01	<10	<10	7	<10	92
Camp 12- CDb lookout	98DH 196	10	0.23	40	<1	0.01	8	220	4	<2	2	14	<.01	<10	<10	16	<10	18
Camp 12- CDb lookout	98DH 198	<10	0.13	25	<1	<.01	12	110	6	<2	<1	10	<.01	<10	<10	8	<10	74
Camp 12- CDb lookout	98DH 199	30	4.76	765	<1	0.01	158	2120	<2	2	15	193	<.01	<10	<10	208	<10	94
Camp 12- CDb lookout	98DH 200	<10	1.11	25	<1	<.01	15	560	<2	<2	2	22	<.01	<10	<10	34	<10	80
Camp 12- CDb lookout	98DH 201	40	4.49	1155	1	<.01	22	**3420**	<2	<2	1	197	0.26	<10	<10	196	<10	106
Camp 12- CDb lookout	98DH 202	10	2.21	680	<1	<.01	67	1570	2	<2	4	71	0.4	<10	<10	117	<10	68
Camp 12- CDb lookout	98DH 203	20	1.01	105	<1	0.01	24	590	2	<2	5	16	<.01	<10	<10	37	<10	40
Camp 12- CDb lookout	98DH 204	20	4.69	810	<1	0.03	118	1400	<2	2	18	484	<.01	<10	<10	178	<10	92
Camp 12- CDb lookout	98DH 205	50	4.61	660	1	<.01	87	**3180**	<2	<2	19	285	0.27	<10	<10	214	<10	98
Camp 12- CDb lookout	98DH 206	<10	0.32	75	**16**	<.01	32	140	<2	<2	1	126	<.01	<10	<10	129	<10	290
Camp 13- Jungle Ck	98DH 211	40	2.84	725	<1	<.01	128	2400	<2	<2	10	118	0.15	<10	<10	198	<10	98
Camp 13- Jungle Ck	98DH 212a	<10	0.25	250	1	<.01	31	780	<2	<2	2	80	<.01	<10	<10	16	<10	106
Camp 13- Jungle Ck	98DH 213	<10	0.06	20	3	<.01	19	340	8	<2	3	18	<.01	<10	<10	19	<10	62
Camp 13- Jungle Ck	98DH 214	<10	0.04	20	<1	<.01	8	150	4	<2	<1	31	<.01	<10	<10	10	<10	6
Camp 14- REE	98DH 215a	30	0.38	110	6	0.05	87	1870	4	2	7	74	0.43	<10	10	157	<10	88
Camp 14- REE	98DH 215b	40	1.81	445	4	0.03	78	**4180**	4	2	5	191	0.18	<10	<10	174	<10	94
Camp 14- REE	98DH 216a	10	3.49	640	<1	0.01	**245**	1100	<2	2	1	90	0.26	<10	<10	63	<10	44
Camp 14- REE	98DH 216b	20	5.02	705	<1	<.01	**262**	1250	<2	<2	1	97	0.38	<10	<10	68	<10	60
Camp 14- REE	98DH 217	30	1.03	535	**19**	0.02	46	2180	<2	2	6	215	0.09	<10	<10	170	<10	50
Camp 14- REE	98DH 218	30	2.54	575	<1	<.01	83	1120	<2	<2	3	99	0.44	<10	<10	90	<10	66
Camp 14- REE	98DH 219	30	3.19	895	1	<.01	57	1790	<2	<2	6	236	0.39	<10	10	145	<10	74
Camp 14- REE	98DH 220	30	3.32	860	<1	<.01	94	2300	<2	2	2	70	0.43	<10	<10	78	<10	74
Camp 14- REE	98DH 221	50	3.75	720	<1	<.01	43	**3460**	<2	2	5	114	0.19	<10	<10	213	<10	150
heli-recce	98DH 222a	<10	4.93	940	<1	0.02	126	340	8	2	4	131	0.01	<10	<10	63	<10	258
heli-recce	98DH 222b	<10	3.52	720	<1	0.01	81	560	12	<2	12	118	0.01	<10	<10	84	<10	228
heli-recce	98DH 222c	10	0.68	350	<1	0.11	32	110	10	<2	6	47	0.03	<10	<10	26	<10	30
heli-recce	98DH 222d	10	7.66	2060	<1	0.03	141	70	20	<2	1	185	<.01	<10	10	6	<10	936
heli-recce	98DH 222e	10	2.81	555	<1	0.05	146	1100	<2	<2	6	267	0.32	<10	<10	65	<10	68
heli-recce	98DH 223	40	0.93	650	1	0.05	1	1160	<2	2	6	79	<.01	<10	<10	6	<10	154
heli-recce	98DH 224	<10	0.38	275	<1	0.02	16	50	50	<2	1	9	<.01	<10	<10	11	<10	68
heli-recce	98DH 225	<10	0.15	295	<1	0.01	11	60	10	<2	1	6	<.01	<10	<10	7	<10	24
road work	98DH 228a	<10	0.07	30	**60**	<.01	104	300	40	8	2	56	<.01	<10	<10	838	<10	624
road work	98DH 228b	<10	0.02	15	**20**	<.01	58	220	2	<2	<1	63	<.01	<10	<10	209	<10	258
road work	98DH 229a	<10	0.07	40	**24**	<.01	51	730	2	2	1	82	<.01	<10	<10	474	<10	150
road work	98DH 230	<10	1.78	290	<1	0.02	47	390	<2	2	3	23	0.16	<10	<10	129	<10	46
road work	98DH 231	<10	0.94	330	<1	<.01	15	100	<2	2	3	<1	0.07	<10	<10	61	<10	30
road work	98DH 232a	<10	0.04	25	<1	<.01	5	50	2	<2	<1	4	<.01	<10	<10	4	<10	4
road work	98DH 232b	<10	0.07	50	<1	0.01	20	370	18	<2	4	27	<.01	<10	<10	11	<10	66
road work	98DH 233	<10	1.78	365	<1	0.04	37	570	<2	<2	5	54	0.21	<10	<10	181	<10	64
road work	98DH 234	40	0.96	220	<1	0.05	58	1110	14	<2	4	21	<.01	<10	<10	22	<10	114

SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
NUMBER	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
TALUS FINES																																	
TF98DH 22	<5	<.2	0.67	10	230	1	<2	0.16	<.5	17	10	35	3.15	<10	<1	0.19	<10	0.12	470	<1	<.01	28	180	24	<2	4	34	<.01	<10	<10	12	<10	80
TF98DH 39d	<5	1.2	0.58	52	360	0.5	<2	0.45	0.5	9	13	118	3.74	<10	<1	0.22	30	0.07	550	7	0.06	49	1840	28	8	6	331	<.01	<10	<10	31	<10	198
TF98DH 87b	<5	0.2	2.27	40	310	0.5	<2	1.28	**6**	**66**	131	133	10.45	<10	<1	0.07	30	1.59	2720	5	0.01	276	1690	14	8	15	104	<.01	<10	<10	76	<10	**936**
TF98DH 90a	<5	0.4	3.7	<2	**1700**	0.5	<2	5.6	3.5	**66**	302	80	10.8	10	1	0.34	20	3.48	1885	5	0.04	339	1850	6	<2	14	216	0.08	<10	<10	161	<10	672
TF98DH 90b	<5	1.2	2.43	**150**	250	1	<2	0.16	0.5	6	97	**168**	5.99	10	<1	0.67	30	1.08	290	**32**	0.15	49	1130	42	6	5	264	0.04	<10	<10	292	<10	314
TF98DH 96	<5	2	2.72	52	200	1.5	<2	0.97	1.5	38	69	**206**	6.23	<10	<1	0.61	30	1.13	805	12	0.22	114	**4820**	68	<2	6	251	0.05	<10	<10	114	<10	368
TF98DH 104	<5	0.2	3.49	**106**	120	1.5	<2	0.14	<.5	6	35	81	10.25	10	<1	0.57	10	0.86	235	1	0.05	30	1690	28	<2	6	111	0.07	<10	<10	73	<10	108
TF98DH 134	<5	<.2	2.23	<2	200	0.5	<2	1.31	<.5	23	110	41	4.19	10	<1	0.05	10	1.84	850	<1	<.01	68	910	4	<2	7	50	0.51	<10	<10	113	<10	82
TF98DH 141b	<5	0.2	1.15	<2	150	1.5	<2	1	0.5	39	24	43	7.73	<10	<1	0.18	50	0.45	970	2	0.01	67	2090	26	<2	11	130	<.01	<10	<10	47	<10	114
TF98DH 142	<5	<.2	1.15	64	130	0.5	<2	2.52	<.5	**60**	107	32	7.98	<10	<1	0.08	70	1	1380	1	0.01	160	**3830**	32	<2	23	391	<.01	<10	<10	175	<10	80
TF98DH 143b	<5	0.8	1.38	**110**	360	1.5	<2	0.61	1	**84**	102	**137**	10.9	<10	<1	0.08	40	0.7	2990	5	0.01	139	1210	**174**	2	24	54	<.01	<10	<10	108	<10	292
TF98DH 144b	<5	1	1.18	16	160	1.5	<2	4.87	0.5	**62**	80	84	7.9	<10	<1	0.25	20	1.89	1470	3	0.01	181	2240	48	2	16	451	<.01	<10	<10	91	<10	116
TF98DH 179d	<5	<.2	0.59	8	170	<.5	<2	0.01	<.5	3	30	88	6.34	<10	<1	0.21	<10	0.03	20	<1	<.01	2	60	30	<2	3	1	<.01	<10	<10	50	<10	36
TF98DH 197a	<5	1	1.5	14	960	0.5	<2	0.23	0.5	9	49	73	3.16	<10	<1	0.18	20	0.27	400	10	0.03	40	**3080**	76	<2	1	144	0.01	<10	<10	92	<10	126
TF98DH 197b	<5	<.2	2.32	8	800	0.5	<2	1.68	0.5	29	249	62	4.73	<10	<1	0.19	40	0.76	905	3	0.02	116	**3030**	4	<2	12	114	0.01	<10	<10	92	<10	140
TF98DH 207	<5	<.2	1.8	6	200	0.5	<2	0.5	0.5	7	36	22	2.37	<10	<1	0.08	10	0.54	240	1	<.01	26	1330	14	<2	3	26	0.03	<10	<10	51	<10	108
TF98DH 208	<5	<.2	1.53	14	240	<.5	<2	0.75	**5.5**	12	44	30	2.57	<10	<1	0.08	10	0.68	335	9	<.01	73	930	18	<2	5	48	0.08	<10	<10	84	<10	482
TF98DH 209	<5	<.2	2.39	8	350	0.5	<2	1.1	**5.5**	22	165	62	4.57	10	<1	0.15	30	1.82	560	6	0.01	108	2250	10	<2	8	86	0.14	<10	<10	149	<10	470
TF98DH 210	<5	<.2	1.46	8	660	0.5	<2	1.69	0.5	16	57	24	4.21	<10	<1	0.09	10	0.84	5160	3	0.01	52	1240	16	<2	5	75	0.13	<10	<10	76	<10	218
TF98JvR 5	<5	**8.6**	0.85	50	60	1	<2	0.01	3.5	<1	137	**149**	5.3	<10	1	0.72	30	0.08	25	**44**	0.08	23	1340	24	8	7	97	<.01	<10	<10	772	<10	64
TF98JvR 32	<5	1.8	2.57	**108**	370	1.5	<2	0.48	2	23	84	**132**	5.99	<10	<1	0.55	30	1.13	700	7	0.15	86	**2890**	**168**	<2	5	244	0.05	<10	<10	104	<10	350
TF98JvR 50b	<5	<.2	1.69	10	450	0.5	<2	0.32	<.5	31	88	75	7.05	<10	<1	0.12	30	0.65	1670	2	0.01	57	990	16	<2	15	74	<.01	<10	<10	95	<10	118
TF98JvR 52	<5	0.2	0.93	56	310	<.5	<2	0.01	<.5	13	22	**183**	8.21	<10	<1	0.16	20	0.1	1635	**15**	<.01	43	660	26	6	5	36	<.01	<10	<10	37	<10	92
TF98JvR 53	<5	0.2	2.15	**124**	520	2	<2	0.05	<.5	**63**	37	**399**	12.5	10	<1	0.43	30	0.63	**>10000**	**15**	0.03	94	1270	**108**	8	8	61	0.01	<10	20	76	<10	130
TF98JvR 63e	<5	0.2	2.11	18	240	3	<2	1.11	0.5	37	42	45	12.25	10	<1	0.07	60	1.62	3120	1	0.01	49	2680	**232**	16	6	378	0.03	<10	<10	75	<10	262
TF98JvR 64c	<5	<.2	0.95	10	200	0.5	<2	3.24	<.5	16	29	20	4.01	<10	<1	0.04	20	0.53	1660	2	<.01	23	1920	18	4	3	360	0.03	<10	<10	46	<10	94
TF98JvR 70b	<5	<.2	1.72	24	150	1.5	<2	2.01	0.5	52	61	58	9.03	<10	<1	0.15	30	1.1	1570	5	0.01	101	2240	60	2	14	253	0.03	<10	<10	129	<10	252
TF98JvR 72	<5	<.2	4.09	6	130	1.5	<2	2.47	<.5	56	**385**	78	8.24	20	<1	0.25	30	5.61	1275	<1	<.01	258	1740	2	<2	14	149	0.65	<10	<10	171	<10	120
TF98JvR 74b	<5	<.2	3.08	<2	130	1.5	<2	3.46	<.5	52	211	46	6.39	10	<1	0.41	20	2.99	530	<1	0.01	334	1210	28	<2	12	63	<.01	<10	<10	38	<10	190
TF98JvR 77b	<5	<.2	2.19	12	250	0.5	<2	0.16	<.5	14	70	31	4.38	10	<1	0.15	20	1.02	895	3	<.01	35	690	14	<2	4	16	0.08	<10	<10	101	<10	104
TF98JvR 79	<5	<.2	1.78	8	160	0.5	<2	0.6	<.5	18	67	27	3.3	<10	<1	0.16	30	1.24	670	1	0.01	53	830	22	<2	6	47	0.18	<10	<10	61	<10	70
TF98JvR 82	<5	0.2	1.74	6	510	<.5	<2	0.43	1	8	55	44	2.74	<10	<1	0.11	10	0.47	255	2	0.02	35	2270	14	<2	1	60	0.02	<10	<10	59	<10	110
TF98JvR 84	<5	<.2	4.14	12	850	1	<2	0.59	<.5	44	**407**	78	6.71	10	<1	0.06	60	3.51	1545	<1	0.01	179	990	6	<2	30	52	0.03	<10	<10	171	<10	92
TF98JvR 87	<5	<.2	2.05	<2	210	0.5	<2	0.06	<.5	18	25	51	3.96	<10	<1	0.16	<10	0.67	1365	<1	<.01	32	260	28	<2	3	8	<.01	<10	<10	14	<10	84
TF98JvR 93a	<5	0.2	0.81	32	130	<.5	<2	0.01	<.5	3	12	16	3.02	<10	<1	0.33	<10	0.07	80	1	<.01	3	270	**130**	<2	4	13	<.01	<10	<10	14	<10	20
TF98JvR 111a	<5	0.2	1.6	14	**1020**	0.5	<2	2.63	0.5	8	37	37	2.22	<10	<1	0.16	10	0.65	350	4	0.02	33	**4580**	20	2	3	37	0.03	<10	<10	83	<10	188
TF98JvR 119	<5	0.2	1.61	10	130	<.5	<2	0.55	<.5	7	28	17	3.47	<10	<1	0.08	<10	0.29	170	1	<.01	25	360	12	<2	3	22	0.01	<10	<10	50	<10	102
TF98JvR 122b	<5	<.2	0.92	10	310	<.5	<2	13.05	1	6	18	29	1.71	<10	<1	0.08	10	0.27	260	1	0.01	51	750	10	<2	3	97	0.01	<10	<10	38	<10	234
TF98JvR 128	<5	4.2	1.74	40	300	1.5	<2	1.58	**7.5**	12	155	**206**	3.55	<10	1	0.4	30	0.84	390	**28**	0.02	131	**5530**	14	10	6	286	0.08	<10	<10	569	<10	**636**
TF98Jvr 098c	<5	<.2	1.1	8	190	<.5	<2	0.02	<.5	1	17	13	3.46	<10	<1	0.39	<10	0.07	365	1	<.01	4	80	**112**	2	5	7	<.01	<10	<10	20	<10	60
SILTS																																	
S98DH 78	15	0.6	2.76	**574**	140	2	<2	0.62	0.5	57	29	**270**	4.49	<10	<1	0.16	50	0.52	1195	**12**	0.03	54	1440	42	<2	4	86	0.08	<10	50	61	<10	126
S98DH 98	<5	0.6	2.53	84	**910**	1.5	<2	0.44	**10**	75	110	**179**	9.74	10	<1	0.47	40	1.51	**5350**	**12**	0.04	**499**	1510	48	2	7	135	0.06	<10	<10	**125**	<10	**1585**
S98DH 99	<5	0.6	3.07	**122**	700	2	<2	0.38	1.5	25	65	**161**	7.14	<10	<1	0.53	30	0.96	710	9	0.08	84	1850	32	<2	5	119	0.08	<10	<10	94	<10	388
S98DH 102	<5	0.6	2.5	**120**	350	1	<2	0.31	0.5	11	54	100	8	<10	<1	0.53	20	0.83	400	8	0.08	39	1790	24	<2	5	107	0.08	<10	<10	92	<10	160
S98DH 130b	<5	0.6	1.79	32	210	0.5	<2	0.32	0.5	7	30	71	7.42	<10	<1	0.28	10	0.65	335	**19**	0.13	35	1360	16	<2	3	90	0.03	<10	<10	55	<10	156
S98DH 151	<5	<.2	3.81	2	440	2	<2	4.6	<.5	31	126	34	7.63	20	<1	0.37	50	3.68	990	<1	0.26	90	650	6	<2	**14**	333	1.1	<10	<10	**168**	<10	108
S98DH 154	<5	0.2	2.17	20	300	0.5	<2	0.97	**15**	29	139	70	4.47	<10	<1	0.2	30	1.55	680	9	0.01	**160**	1970	18	<2	8	101	0.09	<10	<10	**162**	<10	**1520**
S98DH 177b	<5	<.2	0.51	6	220	0.5	<2	10.2	<.5	5	4	11	1.92	<10	<1	0.21	<10	6.53	480	<1	0.01	10	200	**76**	2	3	33	<.01	<10	<10	8	<10	164
S98DH 191a	<5	<.2	2.58	8	150	5	<2	2.95	1.5	52	20	27	8.74	<10	3	0.17	<10	2.06	1105	<1	0.01	79	460	26	<2	6	21	<.01	<10	<10	13	<10	544
S98DH 191 b	<5	<.2	5.96	8	90	15	<2	2.04	1.5	24	19	38	12.4	<10	1	0.13	<10	1	260	1	0.01	58	170	22	<2	8	22	<.01	<10	<10	8	<10	708
S98DH 227	<5	0.2	1.88	14	310	0.5	<2	1.29	9.5	13	64	55	2.77	<10	<1	0.19	20	0.85	490	5	<.01	90	1250	14	<2	5	71	0.07	<10	<10	122	<10	686
S98DH 229b	<5	0.2	2.09	12	280	0.5	<2	1.04	<.5	16	75	48	3.73	<10	<1	0.27	30	1.09	685	2	<.01	58	1160	18	<2	6	43	0.03	<10	<10	55	<10	124
S98JvR 15	<5	<.2	1.5	18	130	1.5	<2	0.55	<.5	10	14	31	2.42	<10	<1	0.08	50	0.32	955	6	0.02	10	1280	20	<2	2	85	0.03	<10	70	41	<10	54
S98JvR 26	<5	0.2	2.4	94	130	1.5	<2	0.55	<.5	36	22	**160**	4.72	<10	<1	0.17	40	0.39	700	10	0.03	59	940	**50**	<2	4	100	0.04	<10	20	37	<10	186
S98JvR 36	<5	0.6	2.52	**148**	750	1.5	<2	0.37	1.5	19	74	122	7.5	<10	<1	0.54	20	0.97	630	11	0.1	78	1950	34	2	5	125	0.08	<10	<10	100	<10	298
S98JvR 37	<5	1	1.9	84	390	2	<2	0.54	**7.5**	59	63	**161**	7.62	<10	<1	0.3	50	0.86	**3710**	11	0.02	**311**	1600	**180**	<2	5	124	0.06	<10	<10	75	<10	**1015**
S98JvR 58	<5	0.2	1.19	**298**	120	1	<2	0.69	1	8	6	32	3.41	<10	<1	0.17	**110**	0.33	780	5	0.05	19	960	**92**	<2	3	104	0.07	<10	**100**	15	10	172
S98JvR 59	<5	<.2	1.29	**152**	100	1	<2	0.52	<.5	6	4	13	4	<10	<1	0.23	**120**	0.36	690	4	0.03	4	770	**78**	<2	3	75	0.08	<10	10	12	<10	152

station	utm27_E	utm27_N
98DH-1	614252	7147971
98DH-2	614699	7148009
98DH-3	614586	7148094
98DH-4	614452	7148158
98DH-19	617573	7163431
98DH-20	617562	7163137
98DH-21	617556	7162971
98DH-22	617531	7162853
98DH-23	617607	7162533
98DH-24	617532	7162468
98DH-24b	617552	7162371
98DH-25	617564	7162180
98DH-26	617594	7161979
98DH-26b	617609	7161903
98DH-27	617320	7161253
98DH-28	617071	7160880
98DH-29	617712	7158023
98DH-30	618168	7159721
98DH-31	617996	7159428
98DH-32	617788	7157410
98DH-33	617647	7157396
98DH-34	617880	7157366
98DH-35	617828	7157209
98DH-36	617457	7156715
98DH-38	617362	7156933
98DH-39	617243	7157121
98DH-40	617381	7156440
98DH-41	617446	7156284
98DH-42	617543	7156189
98DH-43	617753	7156023
98DH-44	618433	7155245
98DH 45	612373	7141650
98DH 46	613798	7141907
98DH 47	612411	7142848
98DH 48	612442	7143009
98DH 49	612358	7143027
98DH 50a	612892	7143369
98DH 50b	612878	7143530
98DH 50c	612842	7143482
98DH-51	606546	7150385
98DH-52	606695	7150259
98DH-53	606986	7149944
98DH-54	606920	7150097
98DH-56	606382	7150467
98DH-57	603106	7148201
98DH-58	602313	7147491
98DH-59	601548	7146962
98DH-60	601711	7147163
98DH-62a	603193	7147892
98DH-62b	603265	7147864
98DH-63	603420	7147342
98DH-64	603494	7147491
98DH-65	603643	7147909
98DH-66	612339	7148035

station	utm27_E	utm27_N
98DH-67	612371	7148138
98DH-68	612374	7148204
98DH-69	612135	7148193
98DH-70	612573	7148491
98DH-71	612056	7148208
98DH-72	612002	7148204
98DH-73	611879	7148083
98DH-74	611803	7148205
98DH-75	610587	7150987
98DH-77	611608	7149954
98DH-77b	611552	7149939
98DH-78	611335	7149960
98DH-79	611308	7149770
98DH-80	611168	7149399
98DH-81	610387	7158884
98DH-82	610710	7158057
98DH-83	610764	7157677
98DH-84	610678	7157545
98DH-85	610474	7157523
98DH-86	610567	7156634
98DH-87	610512	7156446
98DH-88	610459	7155672
98DH-89	610499	7155591
98DH-90	610497	7155354
98DH-91	610534	7155293
98DH-92	610586	7155261
98DH-93	610541	7155214
98DH-94	610462	7155082
98DH-95	610526	7154857
98DH-97	609753	7156041
98DH-98	609537	7155888
98DH-99	608787	7156751
98DH-100	608970	7156467
98DH-101	609271	7155723
98DH-102	609493	7155588
98DH-103	609615	7155415
98DH-103b	609699	7155414
98DH-104	609754	7154936
98DH107	614433	7147959
98DH-109	614041	7147865
98DH-110	614159	7147756
98DH-111	614157	7147756
98DH-112	614250	7147716
98DH-113	612832	7148135
98DH-114	612547	7148057
98DH-115	612944	7148238
98DH-116	613734	7148073
98DH-117	621589	7155234
98DH-118	622176	7155117
98DH-119	622507	7155566
98DH-120	622771	7156184
98DH-121	622928	7156864
98DH-121b	623218	7157037
98DH-122	623436	7156954

station	utm27_E	utm27_N
98DH-124	625151	7158129
98DH-125	625305	7158019
98DH-126	625418	7157861
98DH-127	625485	7157839
98DH-128	625519	7157811
98DH-129	625519	7157811
98DH-131	621134	7168845
98DH-132	621117	7168712
98DH-133	621026	7168609
98DH-134	620791	7168320
98DH-135	620631	7168105
98DH-136	620523	7167413
98DH-137	620523	7167413
98DH-140	622406	7167205
98DH-141	622240	7167114
98DH-142	622071	7166990
98DH-143	621926	7166764
98DH-144	621852	7166589
98DH-145a	619131	7166964
98DH-145b	619131	7166964
98DH-145c	618934	7166925
98DH-146	618788	7166594
98DH-147	618662	7166264
98DH-148	618792	7166120
98DH-153	614176	7175588
98DH-154	613985	7175774
98DH-155	614300	7175353
98DH-156	614324	7175059
98DH-157	614303	7174863
98DH-158	614056	7174480
98DH-159	614119	7174327
98DH-160	614233	7174093
98DH-161	615513	7173656
98DH-162a	617861	7172440
98DH-162b	617971	7172413
98DH-162c	618080	7172402
98DH-162d	617796	7172453
98DH-163	606465	7181294
98DH-164	597111	7177083
98DH-165	597109	7177930
98DH-166	597157	7178079
98DH-172	588237	7179759
98DH-173	588324	7179675
98DH-174	588149	7179907
98DH-175	588150	7180118
98DH-176	588010	7180211
98DH-177	587757	7179538
98DH-178	587531	7179350
98DH-179	587029	7179819
98DH-180	586863	7179251
98DH-181	586824	7179005
98DH-182	587503	7178992
98DH-184	588971	7174492
98DH-185	589244	7174159

Sample location- UTM 1.

station	utm27_E	utm27_N
98DH-186	589066	7173095
98DH-187	589103	7173573
98DH-188	588949	7175221
98DH-189	588978	7175635
98DH-190	588871	7176045
98DH-191	589029	7176307
98DH-194	606144	7171732
98DH-195	606272	7171950
98DH-196	606417	7172028
98DH-197a	606450	7172212
98DH-197b	606384	7172266
98DH-198	606587	7172631
98DH-199	606915	7172807
98DH-200	606910	7172950
98DH-201	607009	7173134
98DH-202	607177	7173344
98DH-203	607298	7173443
98DH-204	607376	7173665
98DH-205	607454	7173900
98DH-206	607575	7174308
98DH-207	607517	7174496
98DH 209	616115	7178184
98DH 210	621031	7179663
98DH 212	627621	7190524
98DH 213	628572	7190802
98DH 214	628996	7191064
98DH-215	634852	7166008
98DH-216	634947	7165893
98DH-217	634800	7166071
98DH-218	634761	7165998
98DH-219	634571	7166338
98DH-220	634714	7166645
98DH-221	634949	7168007
98DH-223	606638	7161032
98DH-224	606525	7161334
98DH-225	606507	7161428
98DH-227	622204	7176483
98DH-228	622576	7175996
98DH-229	622396	7175729
98DH-230	634043	7151684
98DH-231	633972	7152253
98DH-232	633779	7152445
98DH-233	633645	7152475
98DH-234	633820	7152574
98JvR01	618034	7157538
98JvR02	618162	7157734
98JvR03	618039	7157890
TF98JvR03	610782	7155769
98JvR04	618009	7158072
98JvR05	617751	7157553
98JvR06	617773	7157495
98JvR07	617328	7156892
98JvR08	617716	7157184

station	utm27_E	utm27_N
98JvR09	618392	7157516
98JvR10	618167	7157390
98JvR011	604511	7149111
98JvR012	604706	7149079
98JvR013a	608686	7152701
98JvR013b	608664	7152568
98JvR014	608886	7152217
98JvR015	609479	7152254
98JvR016	609588	7152094
98JvR017	609712	7151876
98JvR018	610262	7152256
98JvR019	610096	7152435
98JvR020	610763	7151944
98JvR021	611456	7151962
98JvR022	611782	7151823
98JvR023	611964	7151966
98JvR024	612211	7151879
98JvR025	612225	7152032
98JvR027	610551	7157215
98JvR028	610511	7157010
98JvR029	610599	7156644
98JvR030	610891	7155384
98JvR031b	611076	7155623
98JvR031a	611007	7155541
98JvR032	610417	7156456
98JvR033	609767	7156546
98JvR034	609498	7156714
98JvR035	609226	7156954
98JvR036	609236	7156167
98JvR037	609421	7156263
98JvR038	609883	7156298
98JvR039a	614349	7148306
98JvR039b	614344	7148306
98JvR040	614714	7148661
98JvR041	614703	7148765
98JvR042	614584	7149277
98JvR043	614642	7149477
98JvR044	614831	7149546
98JvR045	615094	7149620
98JvR046	614461	7149375
98JvR047	625154	7160596
98JvR048	625164	7160327
98JvR049	625165	7160238
98JvR050a	625117	7159686
98JvR050b	625114	7159691
98JvR051	625108	7159512
98JvR052	625017	7158953
98JvR053	625010	7158663
98JvR054	624900	7158462
98JvR055	625253	7158499
98JvR056	625691	7158207
98JvR057	625735	7158132
98JvR058	625544	7158046

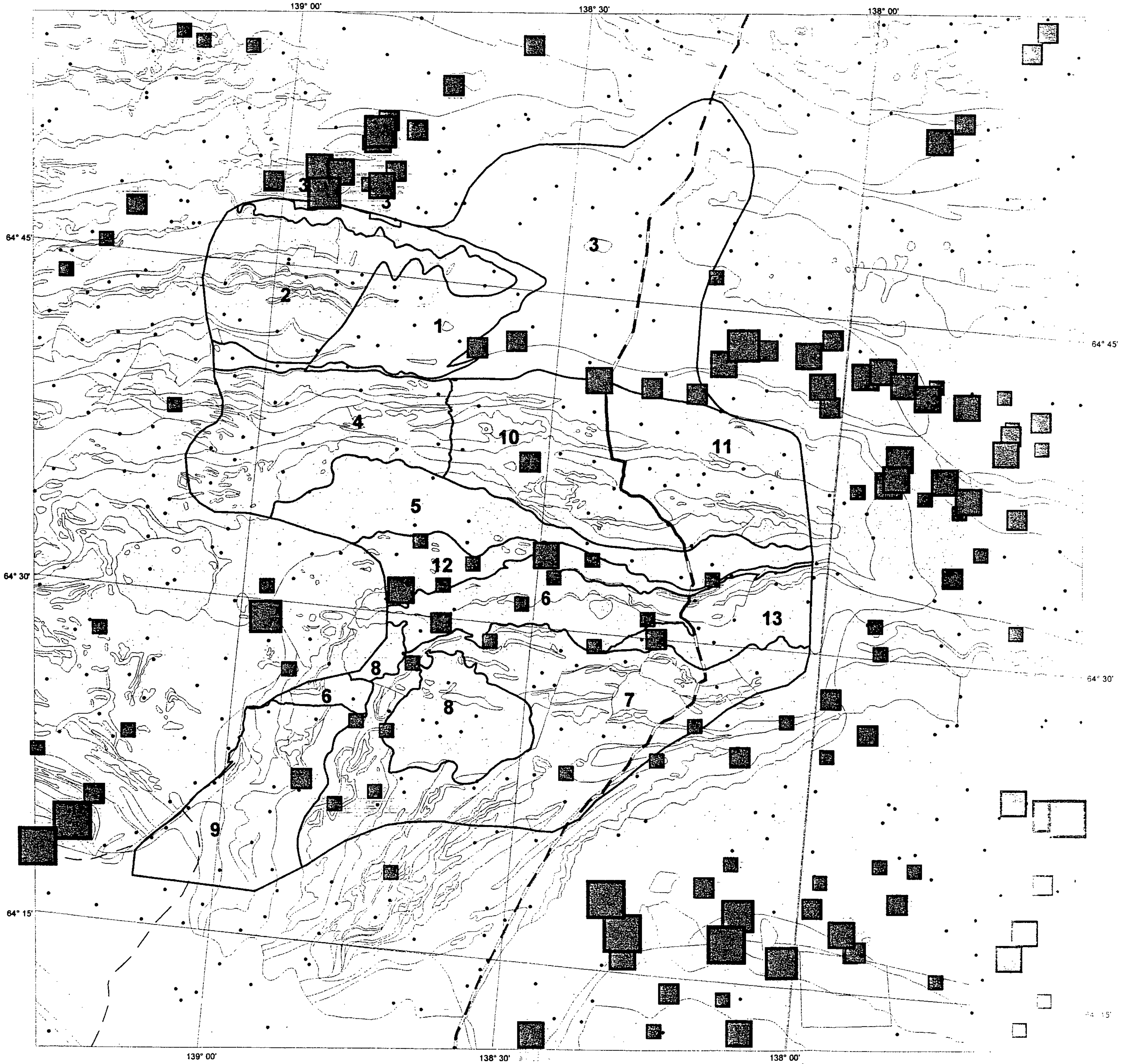
station	utm27_E	utm27_N
98JvR060a	620430	7166280
98JvR060b	620401	7166307
98JvR061	620418	7166346
98JvR062	620394	7166371
98JvR063	620427	7166514
98JvR064	620465	7166617
98JvR065	620537	7166845
98JvR066	620574	7166998
98JvR067	621837	7165173
98JvR068b	622589	7165251
98JvR068a	622636	7165196
98JvR069	622351	7165289
98JvR070	622198	7165311
98JvR071	621962	7165285
98JvR072	621740	7165066
98JvR073	621670	7165029
98JvR074	621502	7164990
98JvR075	621281	7165077
98JvR077	618715	7176811
98JvR077b	618716	7176653
98JvR078a	618667	7176370
98JvR078b	618670	7176373
98JvR078c	618670	7176370
98JvR079	618468	7176135
98JvR080	618017	7175708
98JvR081	617802	7174783
98JvR082a	617645	7174216
98JvR082b	617615	7174084
98JvR083	617536	7173923
98JvR084	617462	7173792
98JvR085	617470	7173726
98JvR086	617427	7173661
98JvR087	617544	7173366
98JvR088	617437	7173004
98JvR089	617431	7172831
98JvR090	617625	7172247
98JvR091	617475	7172248
98JvR092	617310	7172160
98JvR93	589530	7180389
98JvR94	589339	7180286
98JvR95	589244	7180185
98JvR96	589007	7180022
98JvR97	588816	7180148
98JvR98	588696	7180220
98JvR99	588628	7180316
98JvR100	588570	7180420
98JvR101	588486	7180009
98JvR102	586966	7179731
98JvR103	587033	7179843
98JvR104	587210	7180136
98JvR105	587880	7180066
98JvR106	587457	7180781
98JvR107	586921	7183201

Sample location- UTM 2.

station	utm27_E	utm27_N
98JvR108	587013	7181818
98JvR109	587200	7181166
98JvR110	610201	7178699
98JvR111a	609675	7178437
98JvR111b	609672	7178434
98JvR112	608909	7177509
98JvR113	608549	7177061
98JvR114	608549	7177061
98JvR115	608549	7177061
98JvR116	609275	7175565
98JvR117	617275	7172202
98JvR118	631504	7190929
98JvR119	631433	7191205
98JvR120	631116	7191796
98JvR121	630484	7191780
98JvR122	630395	7191728
98JvR123	629725	7191721
98JvR124	635857	7166895
98JvR125	636197	7166263
98JvR126	636185	7166609
98JvR127	636107	7167111
98JvR128	636107	7167193
98JvR129	636088	7167440
98JvR130	636015	7167687
98JvR131	636024	7167802
98JvR132	635959	7168031
98JvR133	636041	7168143
98JvR134	636101	7168256
98JvR135	636204	7168392
98JvR136	635912	7168538
98JvR137	635904	7168693
98JvR138	628457	7143917
98JvR139	628400	7144218
98JvR140	627820	7143868
98JvR141	627359	7144772

Appendix 3

Geochemistry



Antimony (Sb)

Antimony

- 2 to 3x median : 2.6 - 3.9 ppm
- 3 to 5x median : 3.9 - 6.5 ppm
- 5 to10x median : 6.5 - 13 ppm
- 10 to 20x median : 13 - 26 ppm
- 20 to 100x median : 26 - 130 ppm
- Sample location (RGS)

Maximum	84.00	ppm
Minimum	0.30	ppm
Median	1.30	ppm
98th%ile	13.88	ppm
95th%ile	8.82	ppm
90th%ile	5.04	ppm

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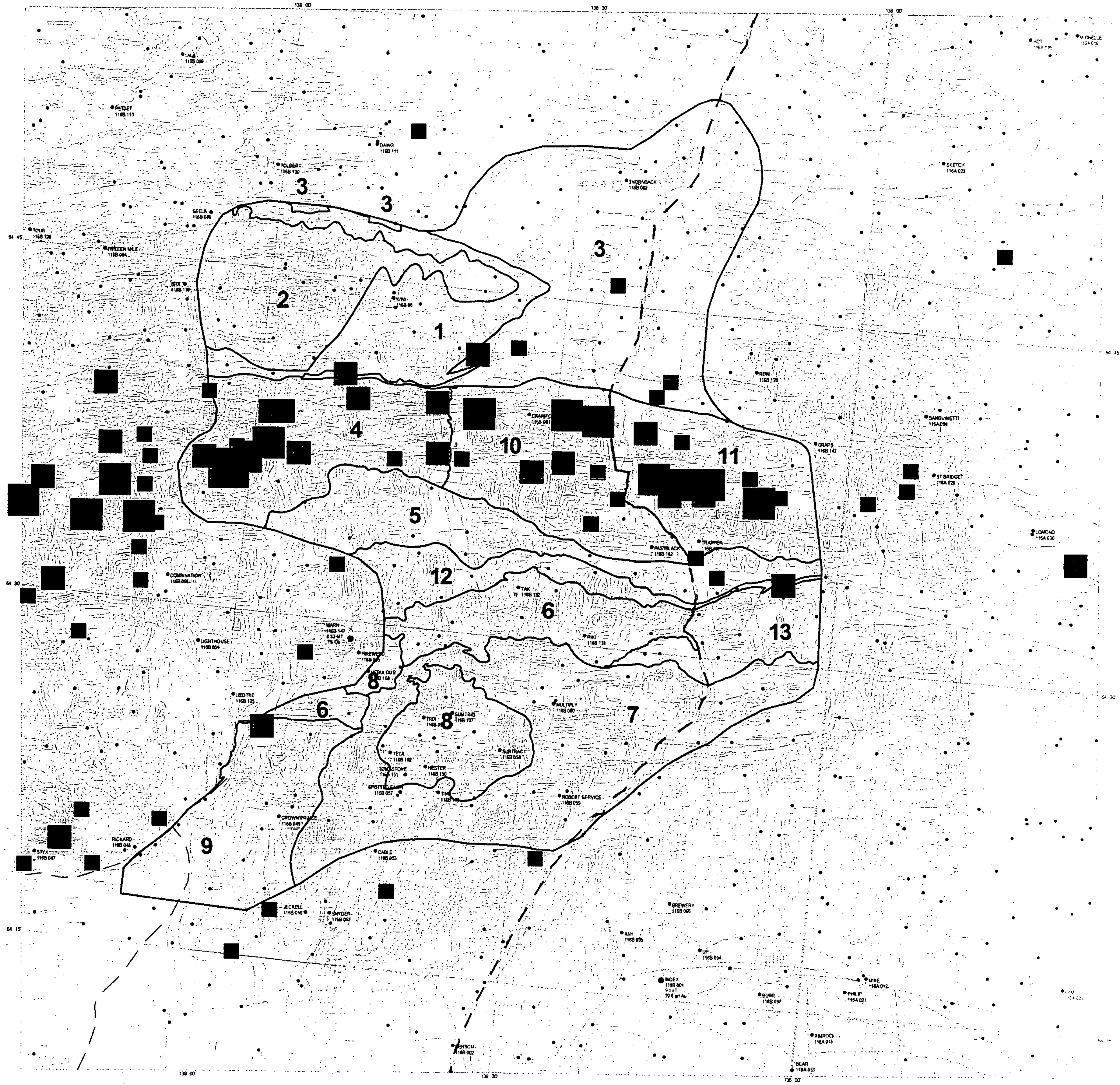

Chromium (Cr)

Chromium

- 2 to 3x median : 200 - 300 ppm
- 3 to 5x median : 300 - 500 ppm
- 5 to 10x median : 500 - 1000 ppm
- 10 to 20x median :1000 - 2000 ppm
- Sample location (RGS)

Maximum	1900.00	ppm
Minimum	10.01	ppm
Median	100.00	ppm
98th%ile	528.80	ppm
95th%ile	360.00	ppm
90th%ile	240.00	ppm

1:375 000

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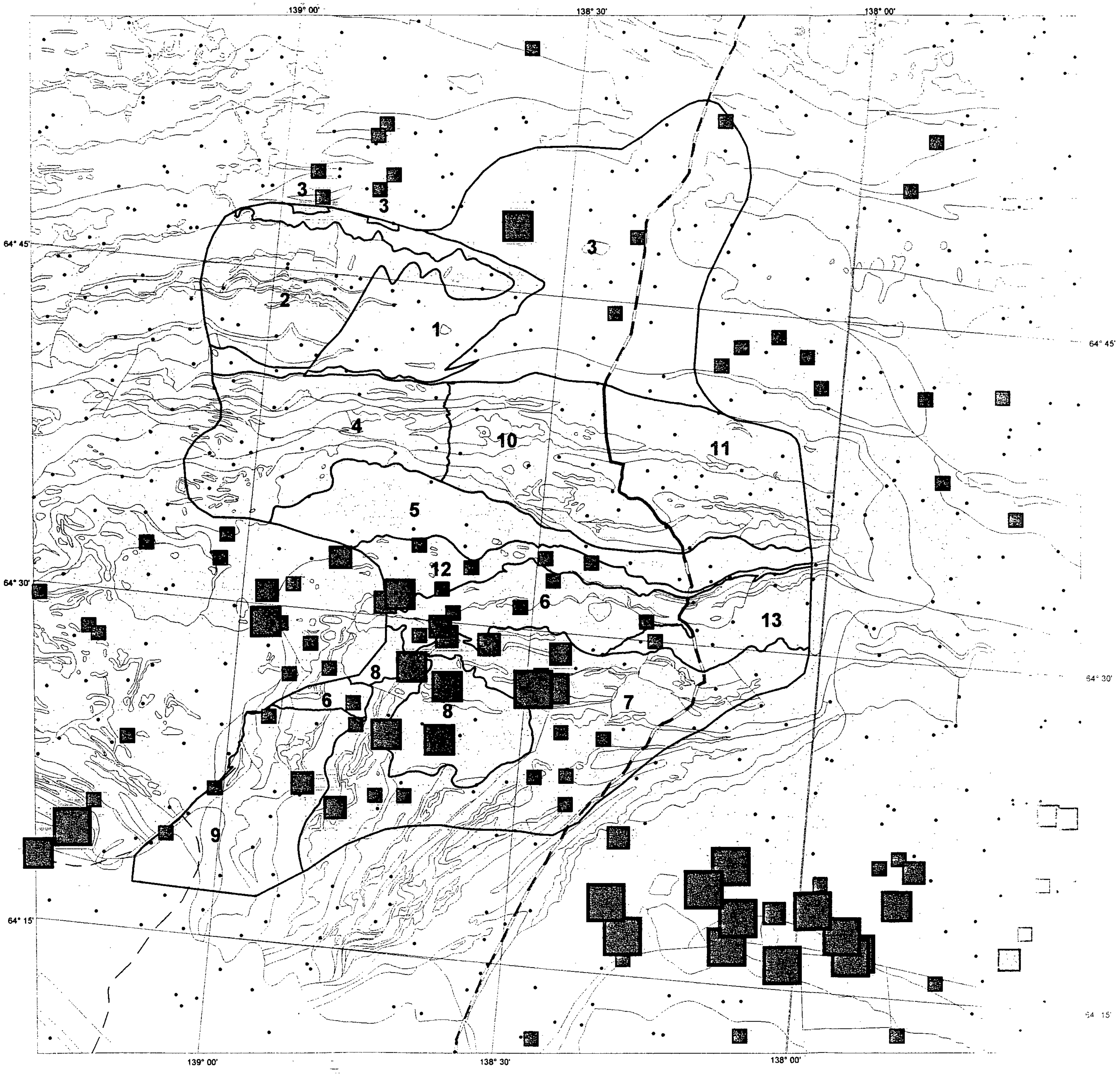

Arsenic (As)

Arsenic

- 2 to 5x median : 26 - 65 ppm
- 5 to 10x median : 65 - 130 ppm
- 10 to 20x median : 130 - 260 ppm
- 20 to 100x median : 260 - 1300 ppm
- Sample location (RGS)

Maximum	670.0	ppm
Minimum	2.8	ppm
Median	13.0	ppm
98th%ile	277.6	ppm
95th%ile	99.2	ppm
90th%ile	44.8	ppm

1:375 000

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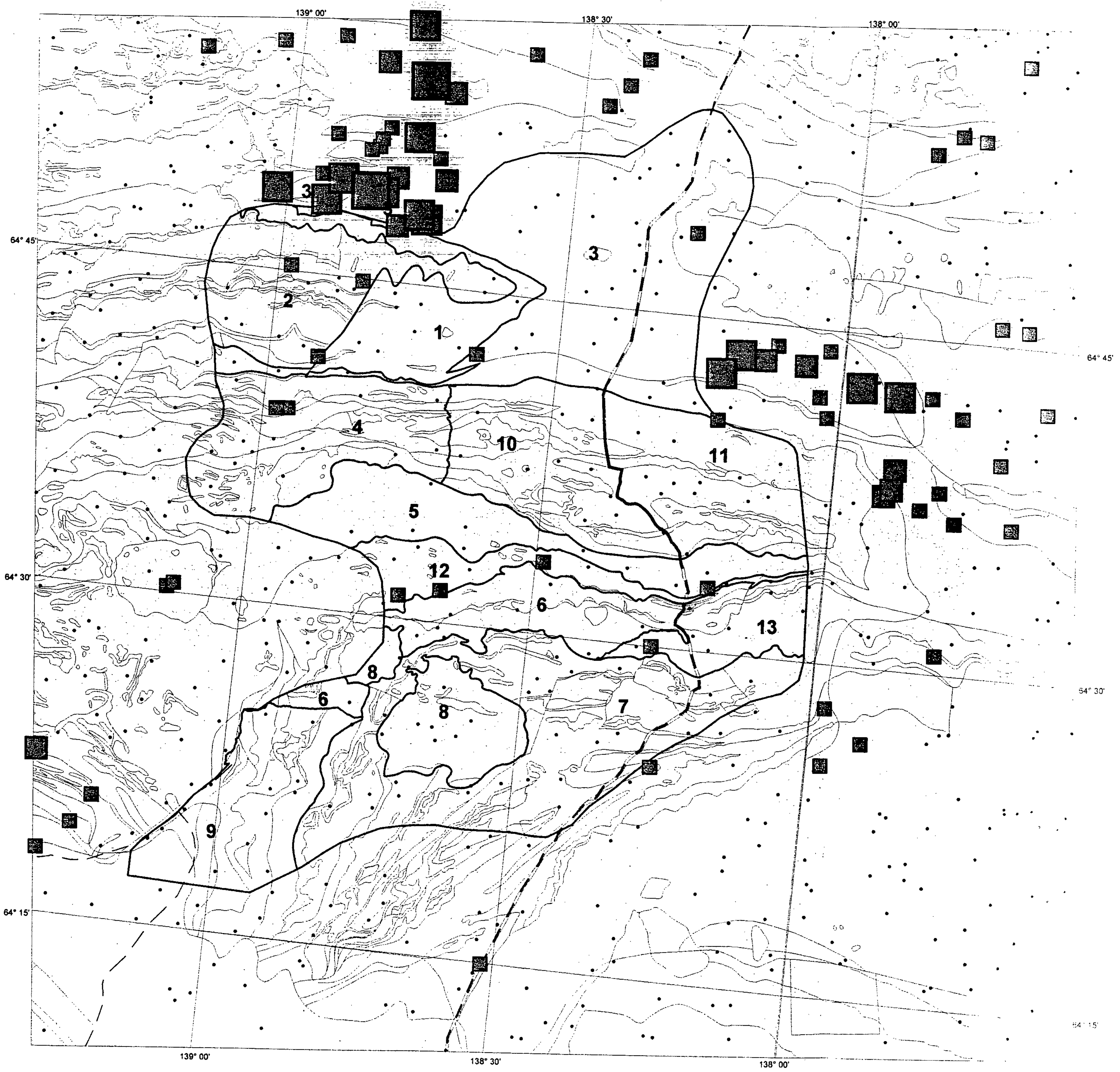

Barium (Ba) inaa

Barium inaa

- 2 to 5x median : 2400 - 6000 ppm
- 5 to 10x median : 6000 - 12000 ppm
- 10 to 20x median : 12000 - 24000 ppm
- 20 to 50x median : 24000 - 60000 ppm
- Sample location (RGS)

Maximum	29000	ppm
Minimum	50	ppm
Median	1200	ppm
98th%ile	12528	ppm
95th%ile	5806	ppm
90th%ile	3200	ppm

1:375 000

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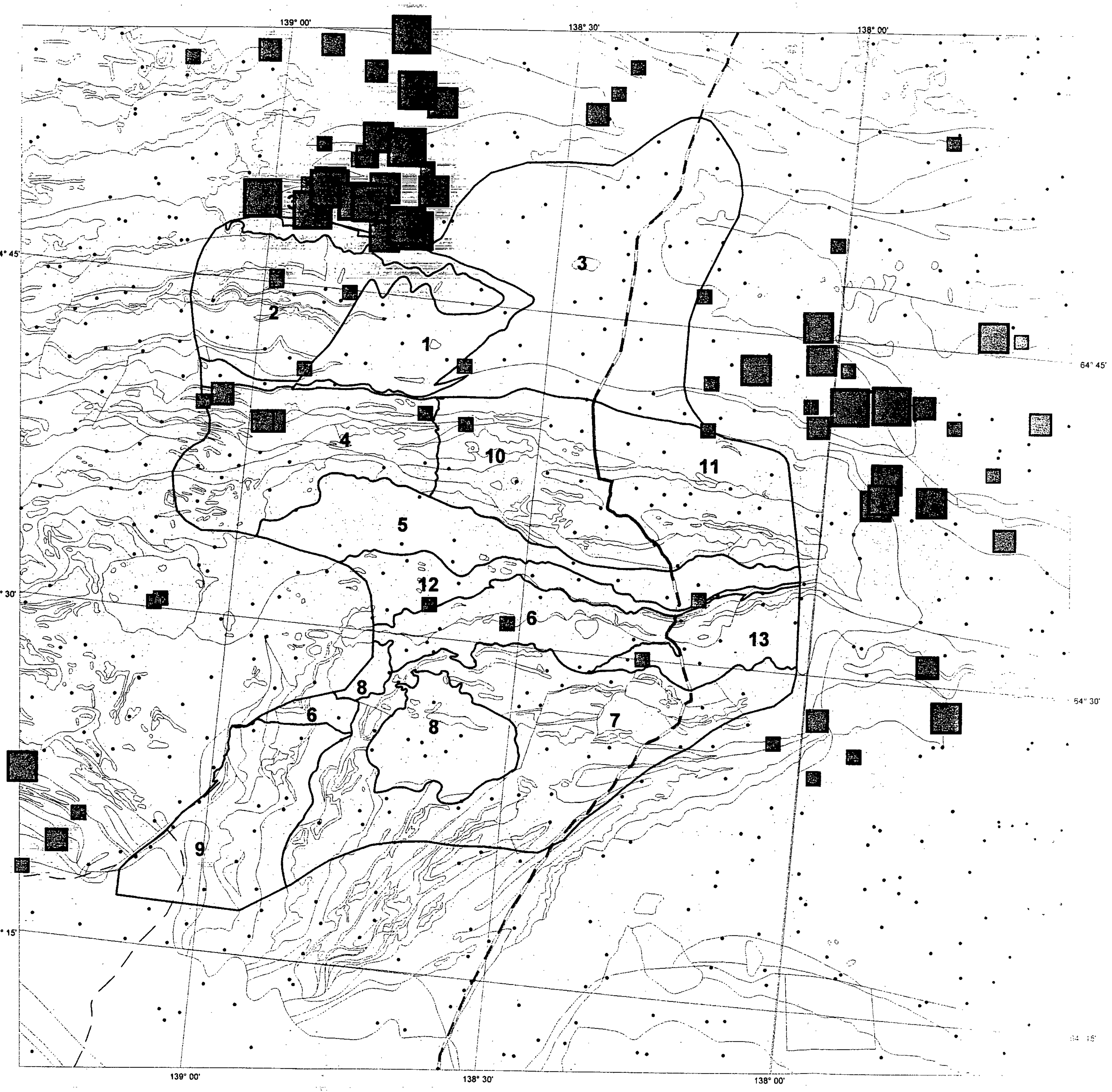

Barium (Ba) aas

Barium aas

- 2 to 3x median : 2340 : 3510 ppm
- 3 to 5x median : 3510 - 5850 ppm
- 5 to 10x median : 5850 - 11700 ppm
- >50x median : > 58500 ppm
- Sample location (RGS)

Maximum	99999	ppm
Minimum	50	ppm
Median	1170	ppm
98th%ile	99999	ppm
95th%ile	5960	ppm
90th%ile	3066	ppm

1:375 000

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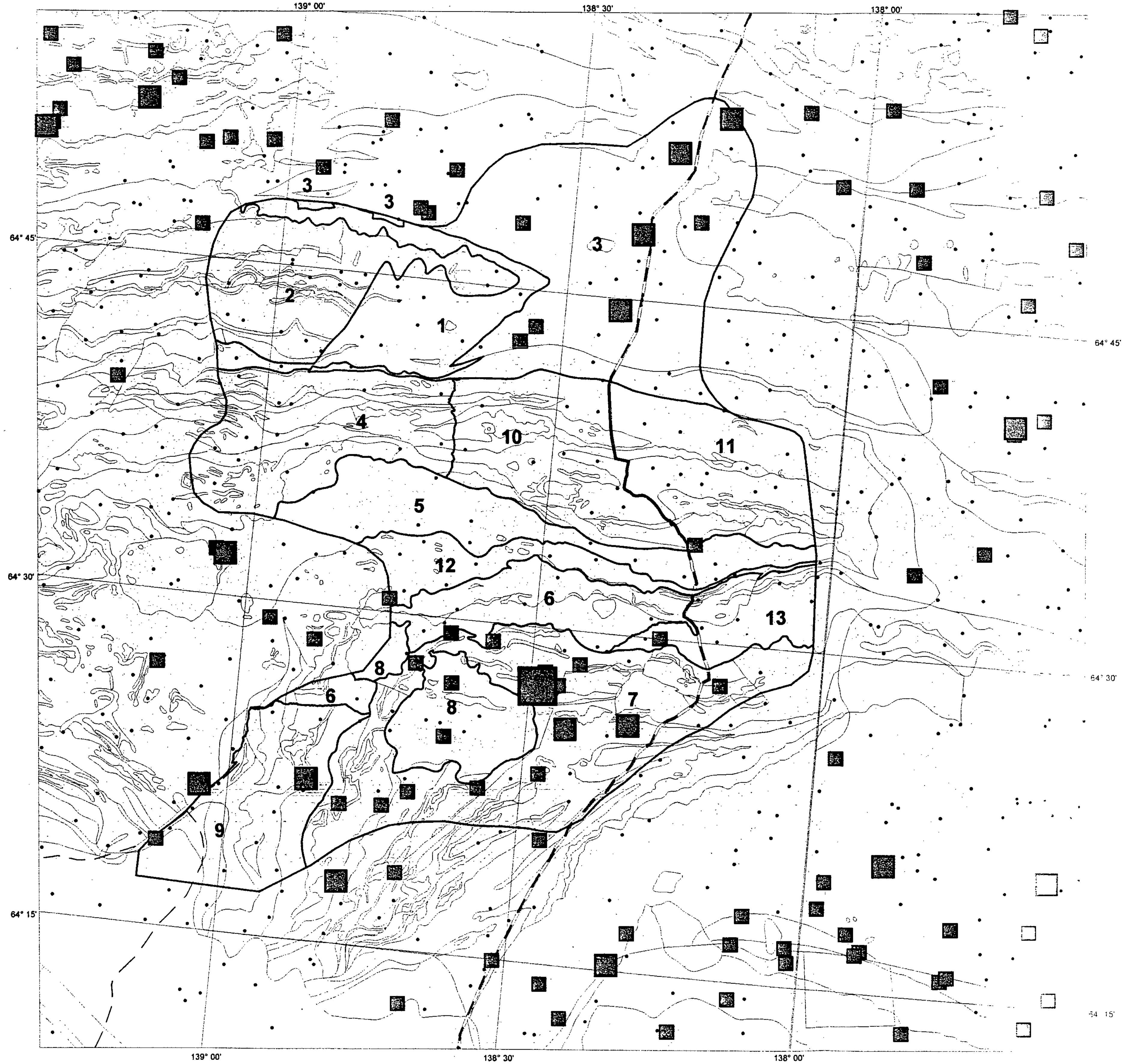


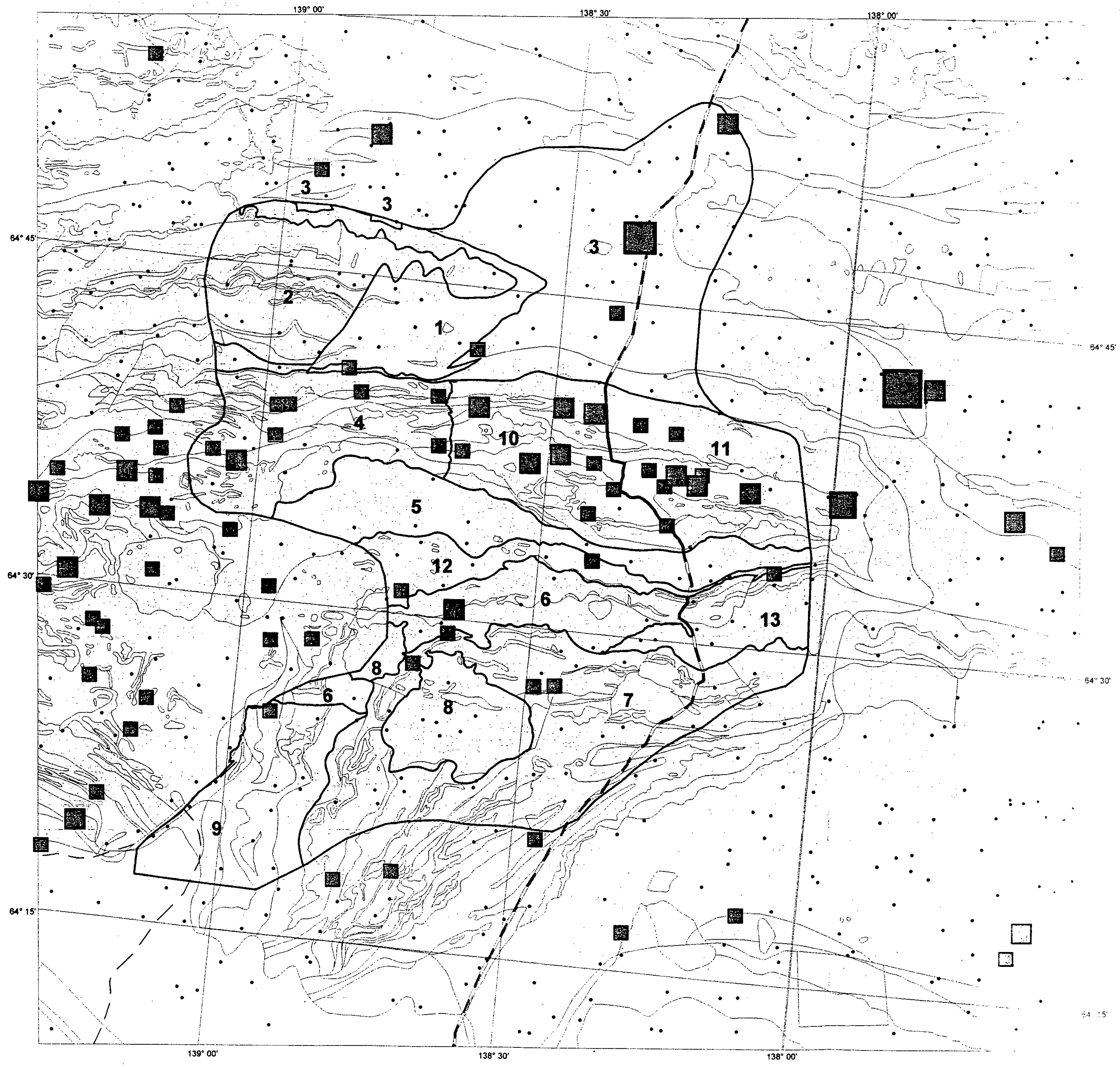
Bromine (Br)

Bromine

- 2 to 5x median : 8.4 - 21 ppm
- 5 to 10x median : 21 - 42 ppm
- 10 to 20x median : 42 - 84 ppm
- >20x median : > 84 ppm
- Sample location (RGS)

Maximum	99.0 ppm
Minimum	0.3 ppm
Median	4.2 ppm
98th%ile	24.9 ppm
95th%ile	18.0 ppm
90th%ile	12.4 ppm

1:375 000



Cobalt (Co) inaa

Cobalt ina

- 2 to 3x median : 28 - 42 ppm
- 3 to 5x median : 42 - 70 ppm
- 5 to10x median : 70 - 140 ppm
- 10 to 20x median : 140 - 280 ppm
- 20 to 50x median : 280 - 700
- Sample location (RGS)

Maximum	340.00	ppm
Minimum	2.00	ppm
Median	14.00	ppm
98th%ile	49.88	ppm
95th%ile	41.00	ppm
90th%ile	31.00	ppm

1:375 000

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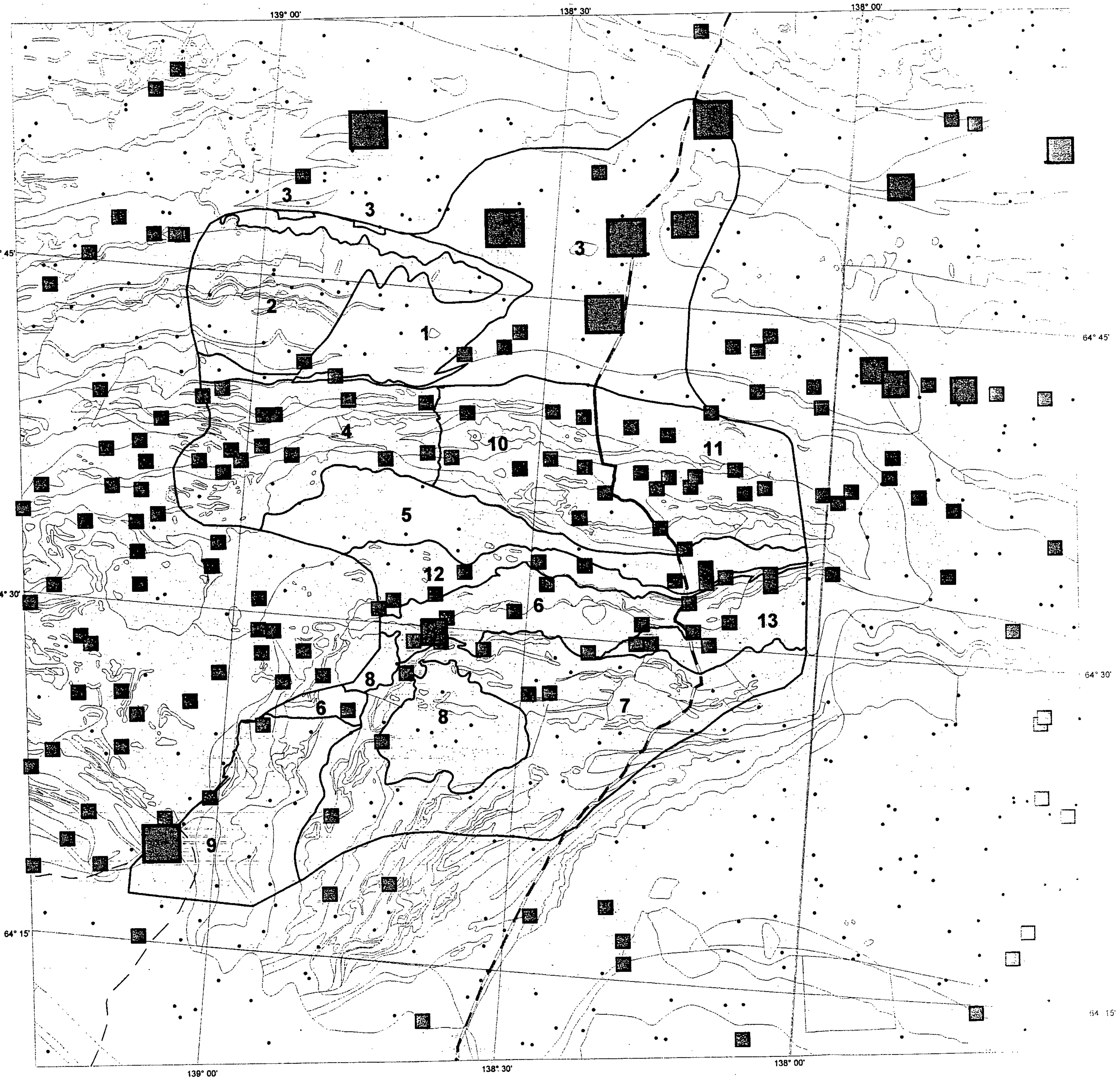

Iron (Fe)

Iron

- 2 to 3x median : 5.1 - 7.65 pct
- 3 to 5x median : 7.65 -12.75 pct
- 5 to 10x median : 12.75 - 25.5 pct
- Sample location (RGS)

Maximum	23.00	pct
Minimum	0.30	pct
Median	2.55	pct
98th%ile	7.90	pct
95th%ile	5.43	pct
90th%ile	4.42	pct

1:375 000

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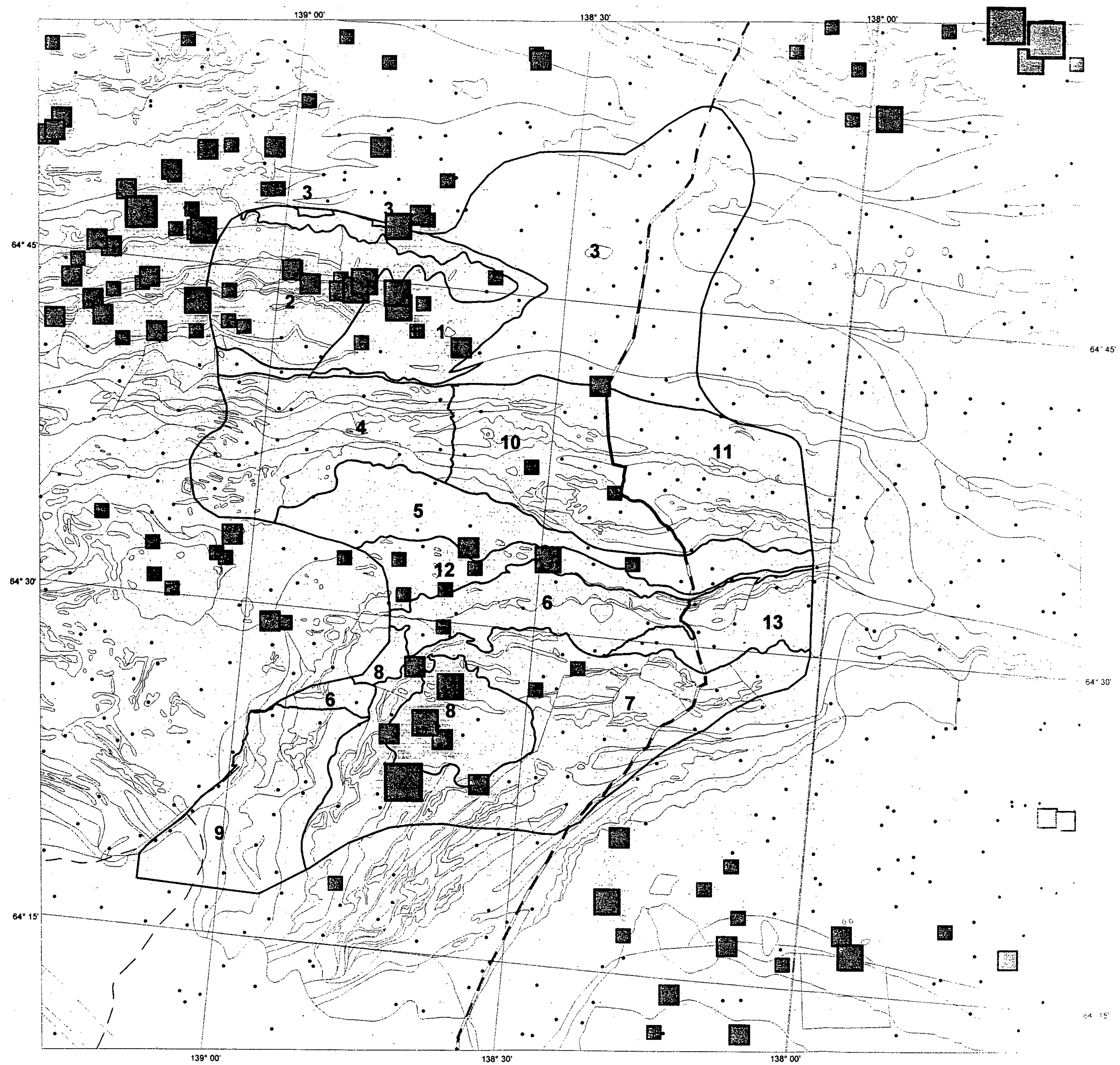


Lead (Pb)

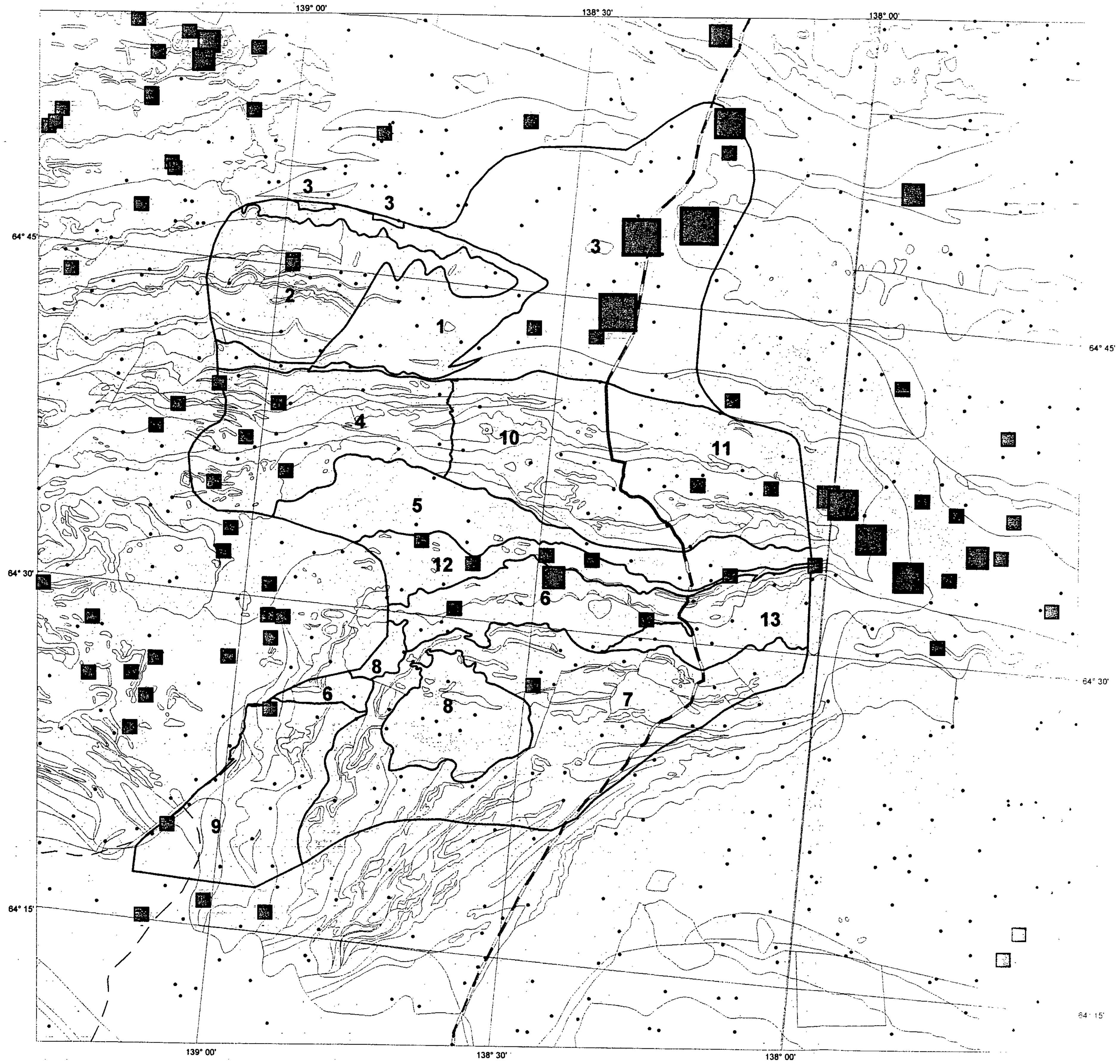
Lead

- 2 to 3x median : 32 - 48 ppm
- 3 to 5x median : 48 - 80 ppm
- 5 to10x median : 80 - 160 ppm
- 10 to 20x median : 160 - 320 ppm
- 20 to 50x median : 320 - 800 ppm
- Sample location (RGS)

Maximum	500.00	ppm
Minimum	1.00	ppm
Median	16.00	ppm
98th%ile	91.98	ppm
95th%ile	66.65	ppm
90th%ile	49.00	ppm

1:375 000

5 0 5 10 15 20 25Km



Manganese (Mn)

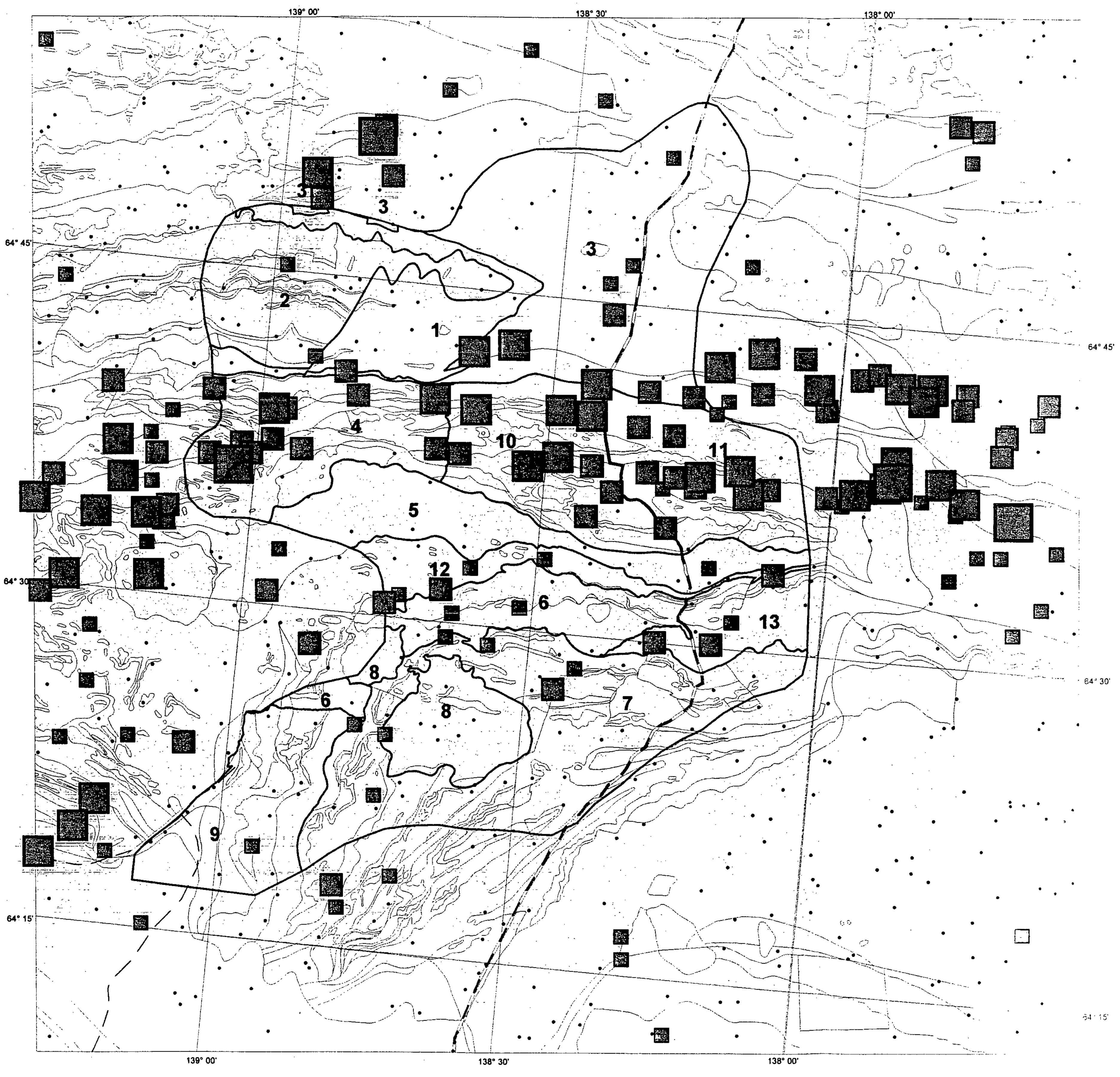
Manganese

- 2 to 5x median : 1120 - 2800 ppm
- 5 to 10x median : 2800 - 5600 ppm
- 10 to 20x median : 5600 - 11200 ppm
- 20 to 50x median : 11200 - 28000 ppm
- Sample location (RGS)

Maximum	23000	ppm
Minimum	25	ppm
Median	560	ppm
98th%ile	2933	ppm
95th%ile	1870	ppm
90th%ile	1347	ppm

1:375 000

5 0 5 10 15 20 25Km



Nickel (Ni) inaa

Nickel ina

- 2 to 3x median : 72 - 108 ppm
- 3 to 5x median : 108 - 180 ppm
- 5 to 10x median :180 - 360 ppm
- 10 to 20x median : 360 - 720 ppm
- Sample location (RGS)

Maximum	530.00	ppm
Minimum	0.51	ppm
Median	36.00	ppm
98th%ile	257.60	ppm
95th%ile	210.00	ppm
90th%ile	140.00	ppm

1:375 000

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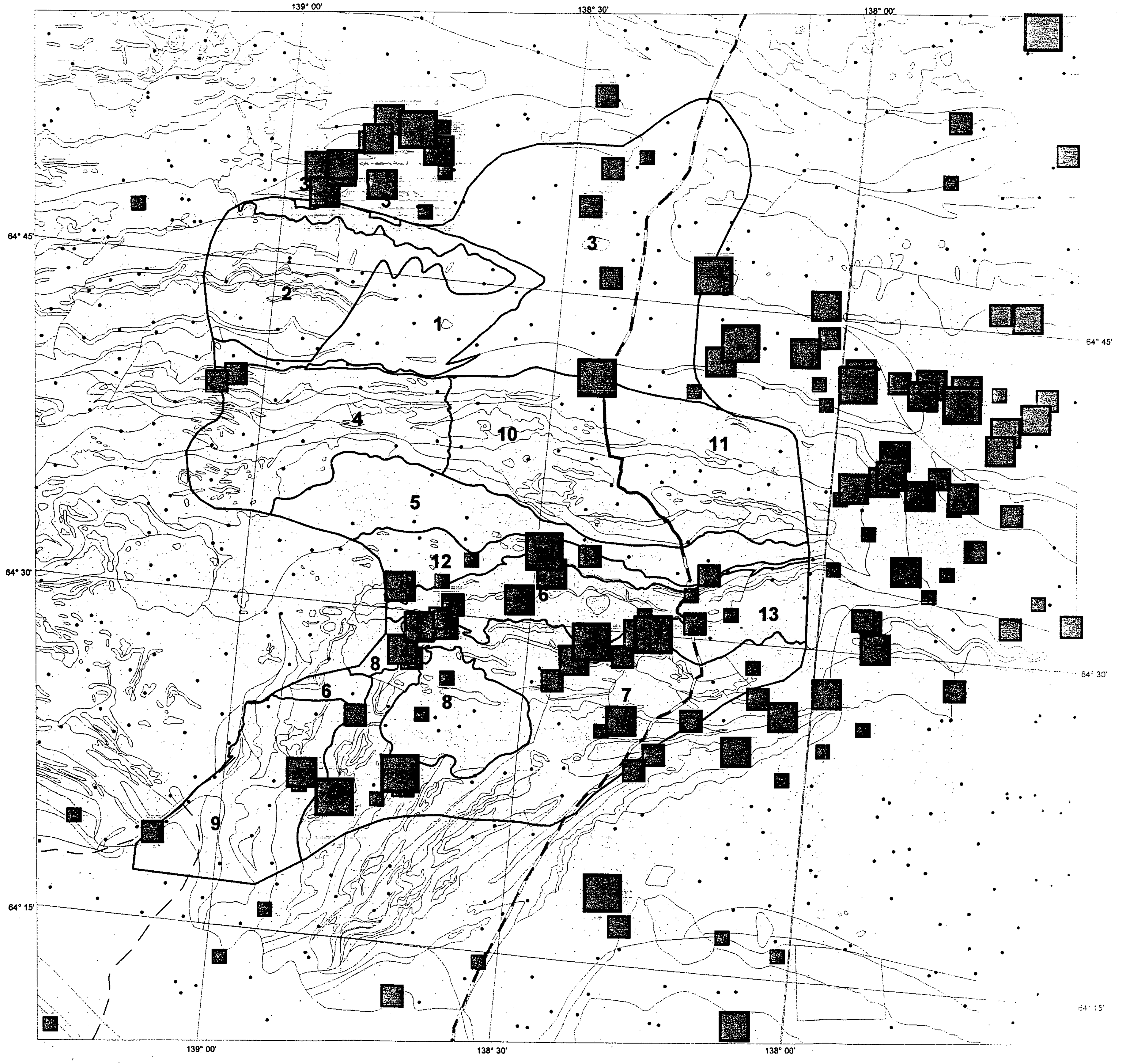


Silver (Ag)

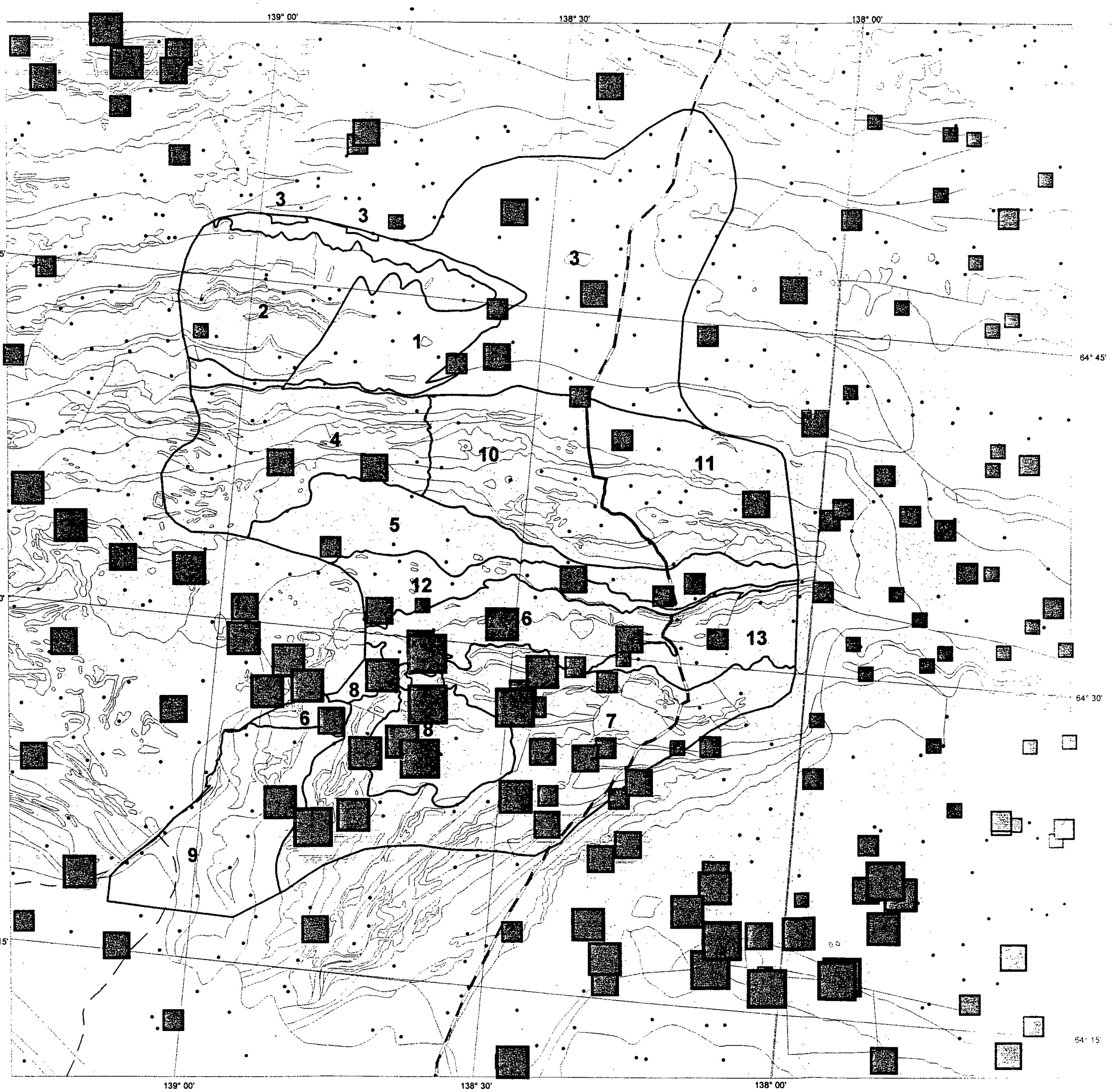
Silver

- 2 to 3x median : 0.2 - 0.3 ppm
- 3 to 5x median : 0.3 - 0.5 ppm
- 5 to 10x median : 0.5 - 1 ppm
- 10 to 20x median : 1 - 2 ppm
- Sample location (RGS)

Maximum	1.8	ppm
Minimum	0.1	ppm
Median	0.1	ppm
98th%ile	1.0	ppm
95th%ile	0.6	ppm
90th%ile	0.4	ppm

1:375 000

5 0 5 10 15 20 25Km



Tungsten (W) inaa

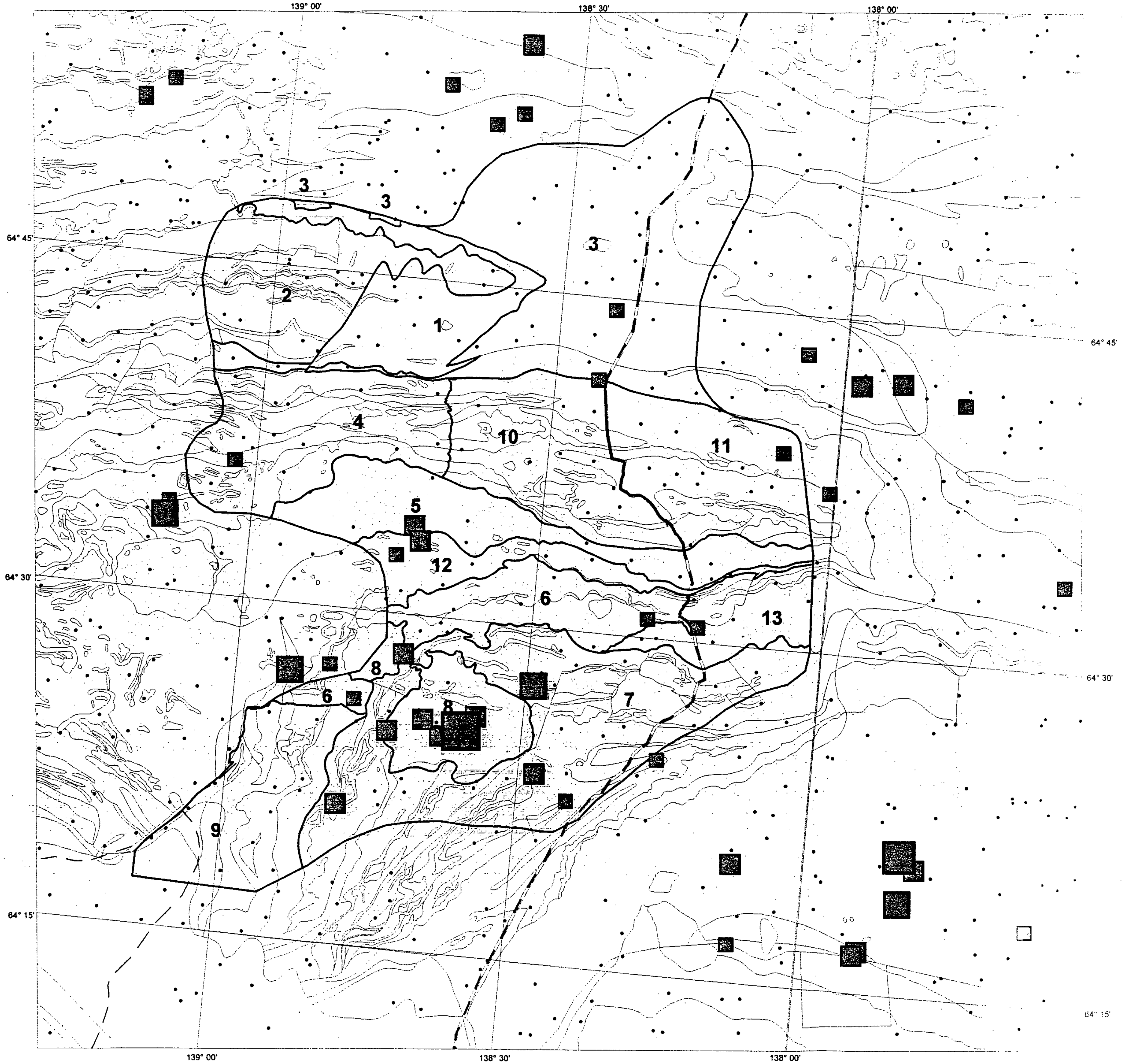
Tungsten ina

- 2 to 3x median : 1 - 1.5 ppm
- 3 to 5x median : 1.5 - 2.5 ppm
- 5 to10x median : 2.5 - 5 ppm
- 10 to 20x median : 5 - 10 ppm
- 20 to 50x median : 10 - 25 ppm
- Sample location (RGS)

Maximum	19.00	ppm
Minimum	0.50	ppm
Median	0.50	ppm
98th%ile	9.00	ppm
95th%ile	5.20	ppm
90th%ile	3.00	ppm

1:375 000

5 0 5 10 15 20 25Km



Tungsten (W) col

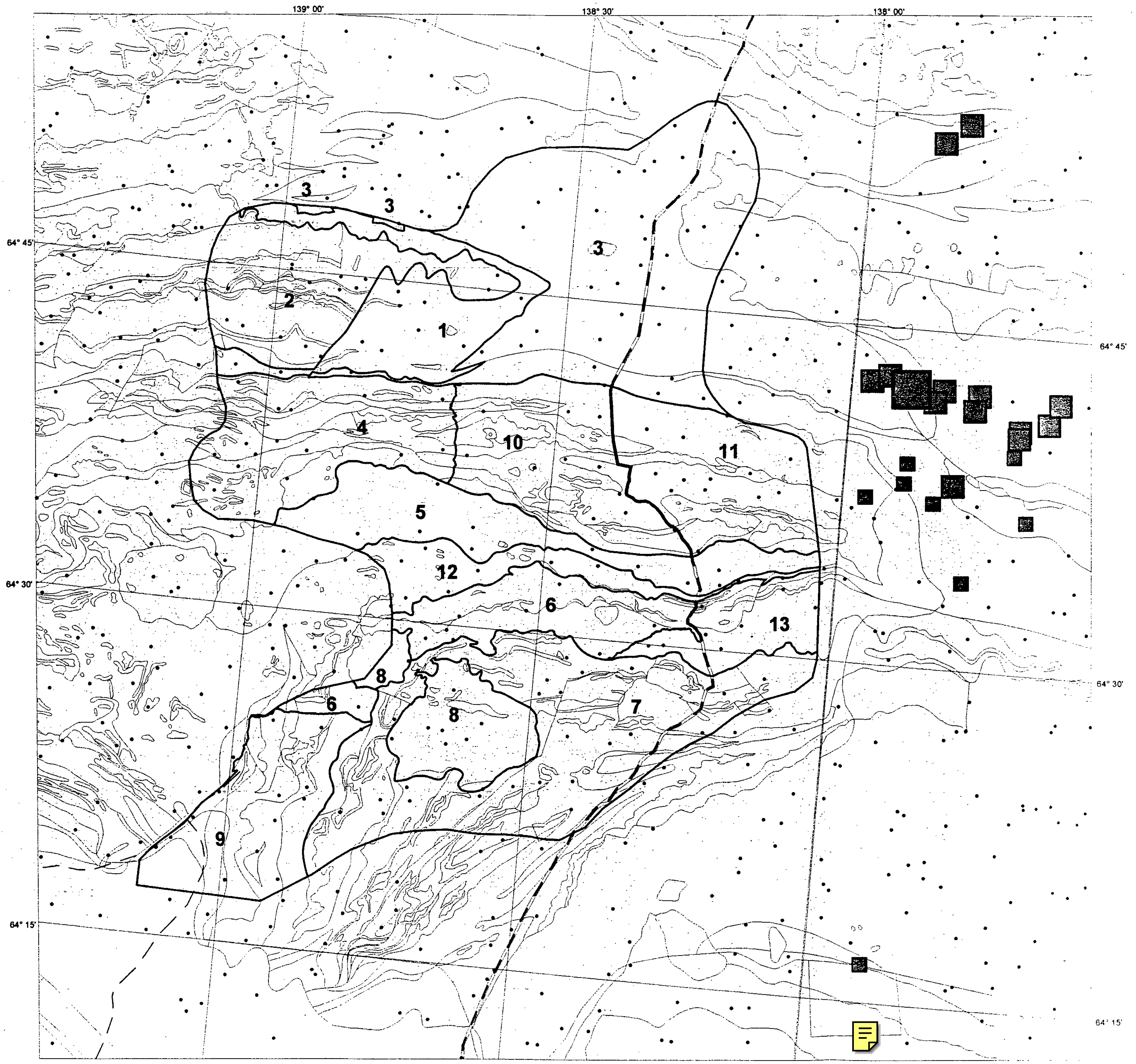
Tungsten col

- 2 to 3x median
- 3 to 5x median
- 5 to10x median
- 10 to 20x median
- 20 to 50x median
- Sample location (RGS)

Maximum	50.00	ppm
Minimum	2.00	ppm
Median	2.00	ppm
98th%ile	8.00	ppm
95th%ile	4.00	ppm
90th%ile	2.00	ppm

1:375 000

5 0 5 10 15 20 25Km



Uranium (U) inaa

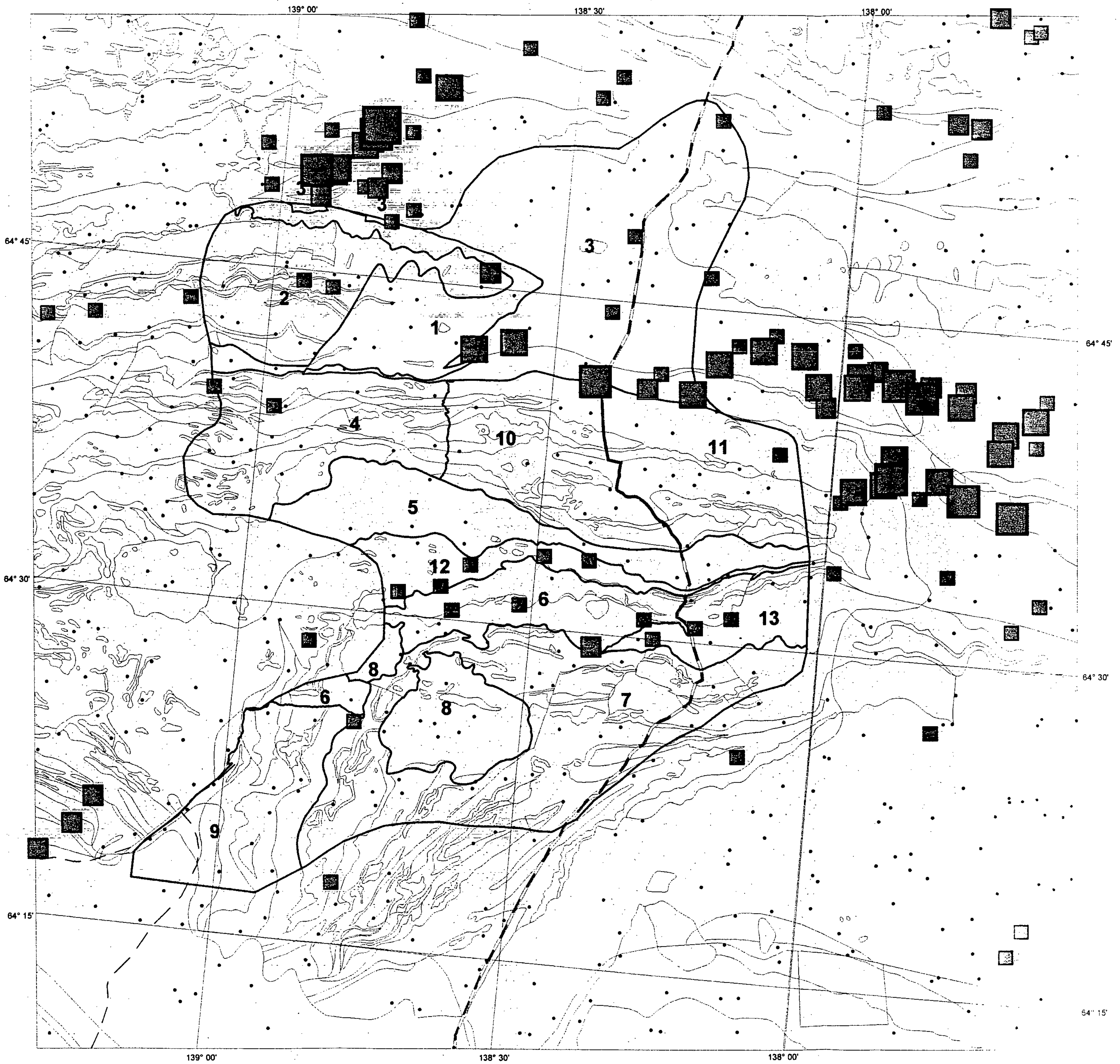
Uranium ina

- 2 to 3x median : 9.8 - 14.7 ppm
- 3 to 5x median : 14.7 - 24.5 ppm
- 5 to 10x median : 24.5 - 49 ppm
- 10 to 20x median : 49 - 98 ppm
- Sample location (RGS)

Maximum	63.00	ppm
Minimum	1.00	ppm
Median	4.90	ppm
98th%ile	21.87	ppm
95th%ile	17.00	ppm
90th%ile	12.60	ppm

1:375 000

5 0 5 10 15 20 25Km



Zinc (Zn)

Zinc

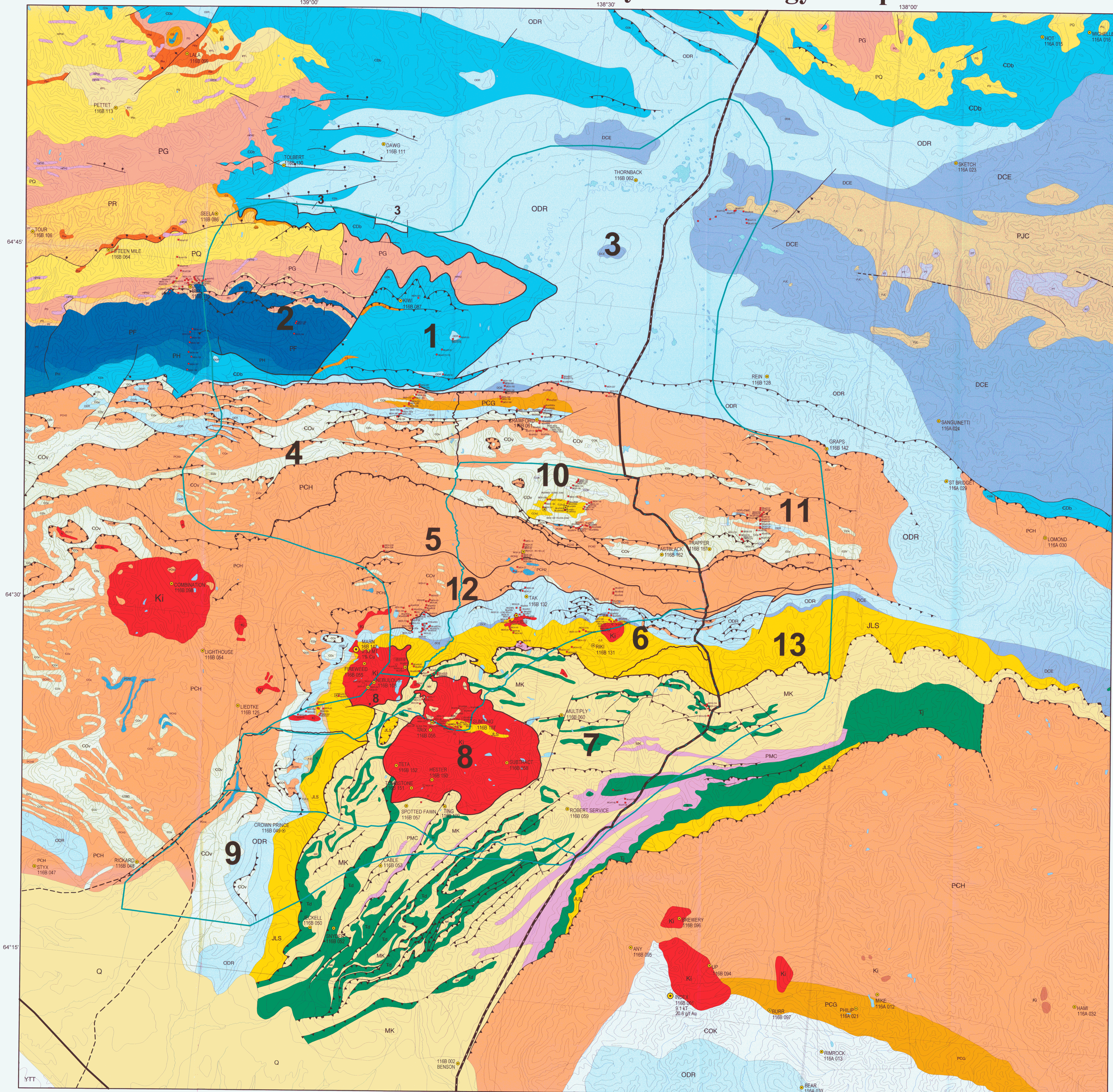
- 2 to 5x median : 250 - 625 ppm
- 5 to 10x median : 625 - 1250 ppm
- 10 to 20x median : 1250 - 2500 ppm
- 20 to 50x median : 2500 - 6250 ppm
- 50 to 100x median : 6250 12500 ppm
- Sample location (RGS)

Maximum	7600.00	ppm
Minimum	18.00	ppm
Median	125.00	ppm
98th%ile	2172.80	ppm
95th%ile	1246.00	ppm
90th%ile	446.50	ppm

1:375 000

5 0 5 10 15 20 25Km

Tombstone Study Area Geology Compilation



N

Scale 1:100 000 Échelle

5 0 5 10 15 20 25 Kilometers

Lambert Conformal Projection
Standard Parallels 62°N and 68°N
Central Meridian 132° 30' 00" W
Spheroid Clark 1866

Key to Symbols

- Station Location
- Significant Results
- Minfile Occurrence: name; number
- Minfile Deposits: reserves; grade
- Tracts
- Tombstone Study Area
- Dempster Highway
- Trails
- Topography
- Rivers
- Lakes

Legend to Geology (after Thompson et. al. 1992).

QUATERNARY

Q — unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvitile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits.

MESOZOIC
CRETACEOUS

Ki — **Tombstone Plutonic Suite (91-94MA):** hornblende ± biotite alkali-feldspar syenite, hornblende-biotite monzogranite, with clinopyroxenite, hornblende diorite, tinguaite and biotite clinopyroxene monzonite near margins.

Ki — **Selwyn Plutonic Suite (85-117MA):** mainly hornblende and hornblende/biotite syenite, commonly porphyritic (K-spar phenocrysts).

JURASSIC

JLS — **'Lower Schist':** black, graphitic slate with minor interbedded brown siltstone; brownish-green argillite at base; black, graphitic slate and phylitic slate with lesser interbedded chert-pebble conglomerate and immature feldspathic subgreywacke in lower part; minor pale green siliceous phyllite in upper part.

TRIASSIC

Tj — buff to brown weathering, thinly laminated and crosslaminated calcite-cemented quartz siltstone with interbedded greyish-brown shale; detrital muscovite ubiquitous.

Td — brown weathering, dark green tholeiitic diorite and medium-grained gabbro; sheared and altered equivalents.

PALEOZOIC
PERMIAN

PMC — **Mount Christie Formation:** pale green and bright red phyllitic siliceous slate with minor pale green argillaceous chert.

UPPER PERMIAN

PT — **Tahkandit Formation:** rusty to light grey weathering, grey and white, crystalline skeletal limestone; partially silicified and dolomitized limestone (upper part); interbedded black chert in middle part. Calcitic sandstone, chert-pebble conglomerate, sandy limestone in basal part which is 25 m thick.

LOWER PERMIAN

PJC — **Junge Creek Formation:** medium to dark brownish-grey weathering skeletal limestone, partially conglomeratic; micritic skeletal limestone, calcareous sandstone, chert-pebble conglomerate, calcareous shale; siliceous mudstone; and siltstone.

LOWER CARBONIFEROUS

MK — **'Keno Hill Quartzite':** resistant, thick-bedded, massive fine-grained MKH orthoquartzite with lesser interbedded black slate.

UPPER DEVONIAN TO LOWER CARBONIFEROUS
EARN GROUP

DCE — Black shale; chert pebble conglomerate.

MIDDLE ORDIVICIAN TO MIDDLE DEVONIAN
ROAD RIVER GROUP

ODR — black shale, argillite, and slate; interbedded chert and sandstone. Graptolite fauna, chiefly at base of chert beds (undivided); barite.

UPPER CAMBRIAN TO LOWER ORDOVICIAN

COK — **Rabbit Kettle Formation:** green and brown siltstone, locally bioturbated; brown and green chert; grey, wispy laminated cherty argillite, carbonate breccia, thin-bedded limestone, silty limestone.

LOWER CAMBRIAN AND LOWER ORDOVICIAN

COv — **Marmot Formation:** amygdaloidal basaltic flows and breccias; mostly subaqueous.

COv2 — flow-banded rhyolite and felsite, includes breccia and tuff.

CAMBRIAN TO DEVONIAN

CDb — **Bouvette Formation:** massive, light grey, medium crystalline dolomitic packstone, locally oolitic; sandy dolomite; medium bedded silty dolomitic wackestone and packstone.

LOWER CAMBRIAN

Cs — **Slats Creek Formation:** yellow-beige, silty dolostone, with interbedded quartz sandstone and red siltstone. Uncommon ripplemarks, mudcracks, concretions and trace fossils.

PCG — **Gull Lake Formation:** brown weathering dull grey and greenish grey thinly laminated siltstone and bioturbated shale.

CAMBRIAN
HYLAND GROUP

PCH1 — **Narchilla Formation:** maroon, green and grey argillite; light grey chert; siltstone; sandstone; gritty sandstone; trace fossils in upper part.

PCH2 — white-weathering, grey limestone, recrystallized.

PCH3 — **Yusezyu Formation:** sandstone; gritty sandstone; argillite; chloritic schist.

UPPER PROTEROZOIC
LOWER MOUNT HARPER GROUP

PH — five distinct lithostratigraphic units consisting of, in ascending order: grey dolostone breccia; orange to grey dolostone conglomerate; dolomitic wackstone/mudstone (redbeds); dolomitic, grey to orange wackstone and dolostone conglomerate; grey finely crystaline dolostone.

MIDDLE TO UPPER PROTEROZOIC
FIFTEENMILE GROUP

PF — **Upper Fifteenmile group:** "craggy dolostone". medium to dark grey, massive, medium crystalline dolostone; abundant silicification. siltstone; shale; fine-grained quartzite. "cryptalgal dolostone" medium to light grey finely crystalline dolostone; laminated to thinly bedded, stromatolitic locally; includes chert and dolomitic breccia.

PF — **Upper Fifteenmile (Upper Pinguicula):** light-grey, finely crystalline dolomite. shale; pebbly mudstone; gritty mudstone; stromatolitic limestone; quartz sandstone.

PR — **Lower Fifteenmile (Lower Pinguicula):** shale; silty dolomite with common dolostone olistoliths. medium to thick bedded dolomitic mudstone; dolostone breccia; massive, medium crystalline dolostone containing commonly stromatolitic grey weathering dolostone lenses. shale; pebbly mudstone; gritty mudstone; stromatolitic limestone; quartz sandstone.

MIDDLE PROTEROZOIC

mPH2 — **Hart River Sills:** dark weathering gabbro sills and dykes.

LOWER PROTEROZOIC
WERNECKE BRECCIAS

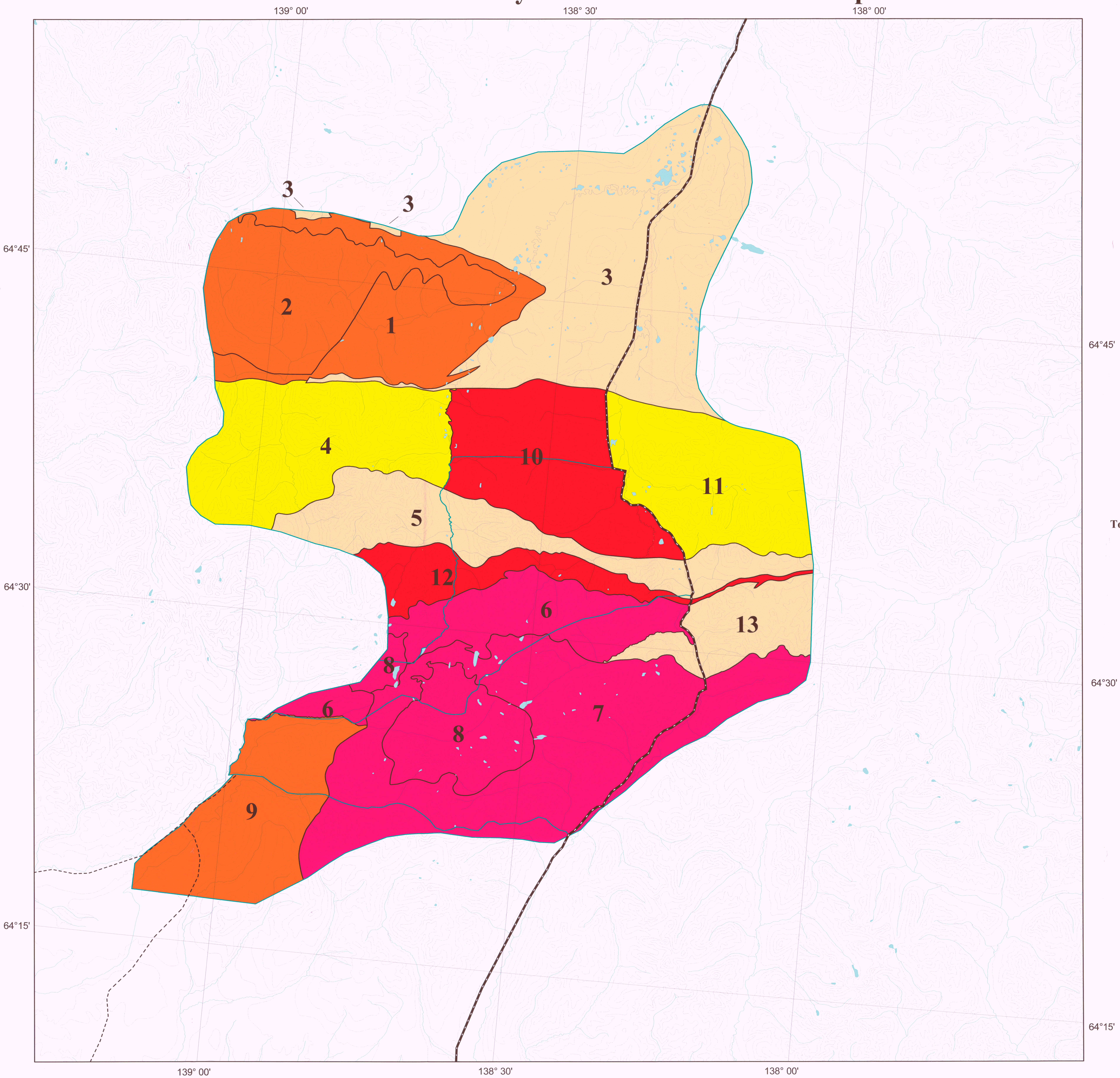
Pbx — megabreccia containing rotated blocks of quartz sandstone and pink carbonate; heteroclastic breccia containing siliceous and carbonate clasts in hemitite matrix.

PG — **Gillespie Lake Group:** orange weathering interbedded (medium to thick) dolostone and argillaceous or silty dolostone; maroon weathering argillite; common domal and columnar stromatilites, algal laminae.

PQ — **Quartet Group:** interbedded (thin to thick) grey to brown sandstone, siltstone and shale; beds contineous; rare slump structures, ripples and trough crossbeds.

This map produced with Arcview version 3.1
Developed for the Yukon Geology Program, Yukon Territorial Government, Department of Economic Development, Mineral Resources Branch
Geographic Information Systems analysis and digital cartography by Jason Adams. Production date: June, 1999; Updated January, 2001.

Tombstone Study Area Mineral Potential Map



Tombstone Study Area Mineral Potential Map

This map portrays the relative mineral potential within the Tombstone Study area. It represents the best estimation at the time of assessment, June 1999, based on our current understanding of the geology, mineral deposit models and the available geoscientific literature pertinent to the area. Since we are assessing a hidden resource, it is important to realize that our knowledge base is in a constant state of growth and mineral deposits may one day be found in rocks that we once thought to be of low potential. Assessments such as these need to be reviewed as the geoscientific database evolves.

The study area was divided into thirteen different tracts, which represent packages of rocks of similar geological characteristics. The geoscientific information that was used for the assessment includes: Geological Survey of Canada, Thompson and Roots, Open File 3223 (1: 250 000 geological compilation) and Open File 2849 (1: 50 000 geological maps); DIAND 1: 250 000 Regional Aeromagnetic Survey; Geological Survey of Canada Regional Geochemical Survey; DIAND Minfile inventory; Open File 1994-2(T), DIAND, Proposed Tombstone Area Park, a Preliminary review of Mineral Potential by Trevor Bremner; various assessment reports; as well as the results from recent field investigations (summer 1998). Personal communications with various industry geologists and prospectors added to our understanding of the geology and mineralization in the area. The digital version of the geological map that was used in the assessment is from GSC and DIAND Open File, in press, Gordey and Makepeace (comp), Yukon digital geology.

A total of five panelists were chosen for their expertise in the geology and mineral deposit models pertinent to the study area. After an analysis of the geoscientific information available for each tract, a unanimous relative ranking of all the tracts was achieved. The ranking was based upon the potential of the tract to host metallic mineral deposits (based on the information listed above) and the explorability of that tract (ex: tract 3, with its extensive overburden, would be very difficult to explore).

In a regional context, the Tombstone Study Area is of very high mineral potential. This is mainly due, but not exclusively, to the mineralizing influence of the Cretaceous Tombstone Suite, a belt of granitic to syenitic intrusions. Several types of mineral deposits are associated with these rocks, here in the study area as well as elsewhere in the Yukon and Alaska.

This map compares the relative mineral potential of tracts within the study area, from highest to lowest, not their absolute potential. In other words, tracts that rank highest on this map would also rank high in a regional context. Tracts that rank the lowest on this map would not rank low regionally, but would have at least a moderate ranking. If an assessment was conducted at a regional scale and the whole study area was chosen as one region, it would rank high in comparison to most regions of comparable size in the Yukon. Without the presence of a park proposal, this area would undoubtedly attract significant exploration activity.

A report outlining a more detailed description of the process and the relevant data will be produced in the fall of 1999.

Acknowledgements: Dave Tenney, Shawn Ryan, the geologists from Archer, Cathro and Associates, Hudson Bay Mining and Development, Blackstone Resources and Equity Engineering were very generous in sharing their knowledge and understanding of the area and thus contributed in a significant way to this process.

YTG- Department of Economic development
Mineral Resources Branch
Danièle Héon
Assisted by Jo-Anne vanRanden
Digital cartography by Jason Adams
Mineral assessment conducted on 25/06/99

Scale 1:100000 Échelle

5 0 5 10 15 20 25 Kilometers

Lambert Conformal Projection
Standard Parallels 62°N and 68°N
Central Meridian 132° 30' 00" W
Spheroid Clark 1866

This map produced with Arcview version 3.1
Developed for the Yukon Geology Program, Yukon Territorial Government, Department of Economic Development, Mineral Resources Branch
Geographic Information Systems analysis and digital cartography by Jason Adams. Production date: June, 1999.