



Ministry of Energy, Mines & Petroleum Resources
 Mining & Minerals Division
 BC Geological Survey

**ASSESSMENT REPORT
 TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] 2007 Exploration Program on the Lucky Property	TOTAL COST \$17,200.00
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AUTHOR(S) Peter A. Ronning SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) not applicable YEAR OF WORK 2007

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) event number 4182336; 29 November

PROPERTY NAME Lucky

CLAIM NAME(S) (on which work was done)
518020, 548408 (LUCKY 5), 548397 (LUCKY 1), 5 48401 (LUCKY 2), 548405 (LUCKY 4), 548412 (LUCKY 6), 548415 (LUCKY 7), 548416 (LUCKY 8), 548418 (LUCKY 9), 548420 (LUCKY 10), 548423 (LUCKY 11), 548424 (LUCKY 12),

COMMODITIES SOUGHT copper, gold (lead, zinc, silver)

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 092F 542, 092F 034, 092F 540, 092F 372, 092F 144

MINING DIVISION Alberni NTS 92 F 3

LATITUDE 49 ° 04 ' _____ " LONGITUDE 125 ° 18 ' _____ " (at centre of work)

OWNER(S)
 1) Electrum Resource 2) _____

MAILING ADDRESS
912 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

OPERATOR(S) [who paid for the work]
 1) Electrum Resource 2) _____

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912 - 510 West Hastings Street
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PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
The property is underlain by Triassic Karmutsen volcanic rocks, late Triassic Quatsino limestone and Parson Bay argillites and siltstones and Lower Jurassic Bonanza volcanics. Plutonic rocks include lower Jurassic Island Intrusions, and probable Tertiary granitic and gabbroic rocks. The district has been block faulted. Mineralization includes quartz-(chalcopyrite-gold) veins, skarns, and zones of pyritized volcanic and intrusive rocks. The Lucky vein has been traced by surface trenching, drifting and diamond drilling for about 105 meters of strike. It has been drilled to a depth of nearly 90 meters below surface. Numerous samples have been obtained over widths of 20 cm. to 4.4 meters. Gold grades range from 0.1 oz Au/ton to almost 2 oz Au/ton.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS Report Numbers (Electrum and others): 26208A, 26352A, 24306, 17224, 24252, 25429, 25829, 10626, 22163, 17108, 12545, 11545, 16782, 15685, 24784, 22300, 06146

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
GEOCHEMICAL			
(number of samples analysed for ...)			
Soil _____	154 samples	548420, 548416, 548412, 518020, 548397, 548402	\$ 16,555.00
Silt _____			
Rock _____	6 samples	518020, 548397	\$ 645.00
Other _____			
DRILLING			
(total metres; number of holes, size)			
Core _____			
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____			
PREPARATORY/PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST			\$ 17,200.00



**BC Geological Survey
Assessment Report
29835**

2007 Exploration Program

on the

Lucky Property

Tenure Number

(Claim Name): 518020, 548408 (LUCKY 5), 548397 (LUCKY 1), 548401 (LUCKY 2), 548405 (LUCKY 4), 548412 (LUCKY 6), 548415 (LUCKY 7), 548416 (LUCKY 8), 548418 (LUCKY 9), 548420 (LUCKY 10), 548423 (LUCKY 11), 548424 (LUCKY 12), 548402 (LUCKY 3), 562110 (LUCKY77), 562106 (LUCKY 7), 518017, 518016, 518015, 518014, 518013

Mining Division: Alberni

NTS Map Sheet: NTS 92F 3

Latitude: 49° 04' N

Longitude: 125° 18' W

Owner of Claims: Electrum Resource Corporation

Project Operator: Electrum Resource Corporation

Consultant: New Caledonian Geological Consulting

Report by: Peter A. Ronning, P.Eng.

Date of Report: 12 February 2008



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I. Summary and Conclusions

The Lucky Property is situated in British Columbia on NTS map sheet 92 F 3, on the southwest coast of Vancouver Island, approximately 22 kilometers northeast of Ucluelet. The property is rugged and densely forested, with relief of some 1,250 meters. Electrum Resource Corporation owns the claims and operated the work program described herein.

The property lies in the southern part of the Kennedy River Camp, an area that has been prospected since the early 1900's. Numerous gold veins exist in the camp, and there have been a few hundred tons of production. The most significant mineral production, however, was from the Brynnor magnetite mine, which produced 4.4 million tons of magnetite iron ore.

The Lucky is a gold-quartz vein that has been traced by surface trenching, drifting and diamond drilling for about 105 meters of strike. It has been drilled to a depth of nearly 90 meters below surface. Numerous samples have been obtained over widths of 20 cm. to 4.4 meters. Gold grades ranging from 0.1 oz Au/ton to almost 2 oz Au/ton have been reported by prior operators.

Some ground that is now part of the Lucky property was staked as early as 1905. The Lucky vein was stripped on surface and explored underground during the period 1920 - 1938. The 1980s saw extensive sampling and drilling of the vein as well as property-wide prospecting, geochemical surveys and geological mapping.

In 1991-92, a zone of highly sulphidized felsic rocks was discovered using geophysical techniques, on the TOQ grid, then part of Electrum's Lucky Property, though it no longer is. The exposures on the TOQ Grid are at the center of a 1.7 km long litho-geochemical trend of sub-economic but anomalous lead, zinc and gold concentrations.

During the period 1992-94, Electrum Resource Corp. ("Electrum") did small assessment programs consisting of geological and geochemical investigations over much of the area.

Consolidated Logan Mines Ltd. ("Logan") optioned the project from Electrum in 1995. In that year Logan did VLF-EM surveys, five diamond drill holes on the TOQ grid, and geological and mapping programs over other parts of the property. In 1996 Questor Surveys flew an airborne magnetic survey over much of the property for Logan, and in 1997, Logan did a program of soil, lake sediment and rock sampling.

This report describes work done for Electrum in 2007. It consisted primarily of the collection of 154 soil samples and six rock samples. To put the new soil samples in context, for the purpose of this report, other soil samples collected in prior years were compiled and are displayed, along with the new ones, on the maps included with this report.

It has been suggested that the sulphidized rocks on the TOQ grid may be part of the Paleozoic Sicker Group (Northcote, 1992). If that is so then these rocks would be the oldest rocks on the Lucky Claims. Triassic Karmutsen volcanic rocks underlie most of the property. Late Triassic Quatsino limestones or Parson Bay argillites and siltstones underlie smaller areas. Lower Jurassic Bonanza volcanics are present locally. Plutonic rocks include lower Jurassic granitic ones equivalent to the Island Intrusions, probable Tertiary granitic rocks, and gabbro dikes that also are probably Tertiary.

An assessment report filed for the Lucky Project in 2000 (Ronning, 2000) recommended continuing prospected west of the Toquart River, west of the TOQ grid, where intensely

pyritized volcanic rocks continue to be unearthed by the construction of new logging roads. No mineral concentrations of economic interest have ever been found in these rocks, but the known size of the sulphidized zone continues to grow with each new road built in the area, and prospecting should continue.

The soil samples collected in 2007 showed that in the vicinity of Nugget Creek in the north-central part of claim 548412, there is a coincidence of relatively high copper, zinc and arsenic concentrations in soils. This area should be examined by a geologist to see if a reason for the metal concentrations in the soils is evident, and what additional exploration might be warranted.

Since the early 1980's a sequence of small exploration programs on the Lucky property has generated a steady trickle of exploration data including geochemical, geological and geophysical information. Activity by Consolidated Logan Mines in the period 1995 to 1998 generated a considerable volume of information. Most of the information is to be found in individual reports. At this stage in the property's history, the data generated over the last 20-plus years should be brought together and synthesized, to obtain a clear picture of the present exploration potential.



II. Introduction

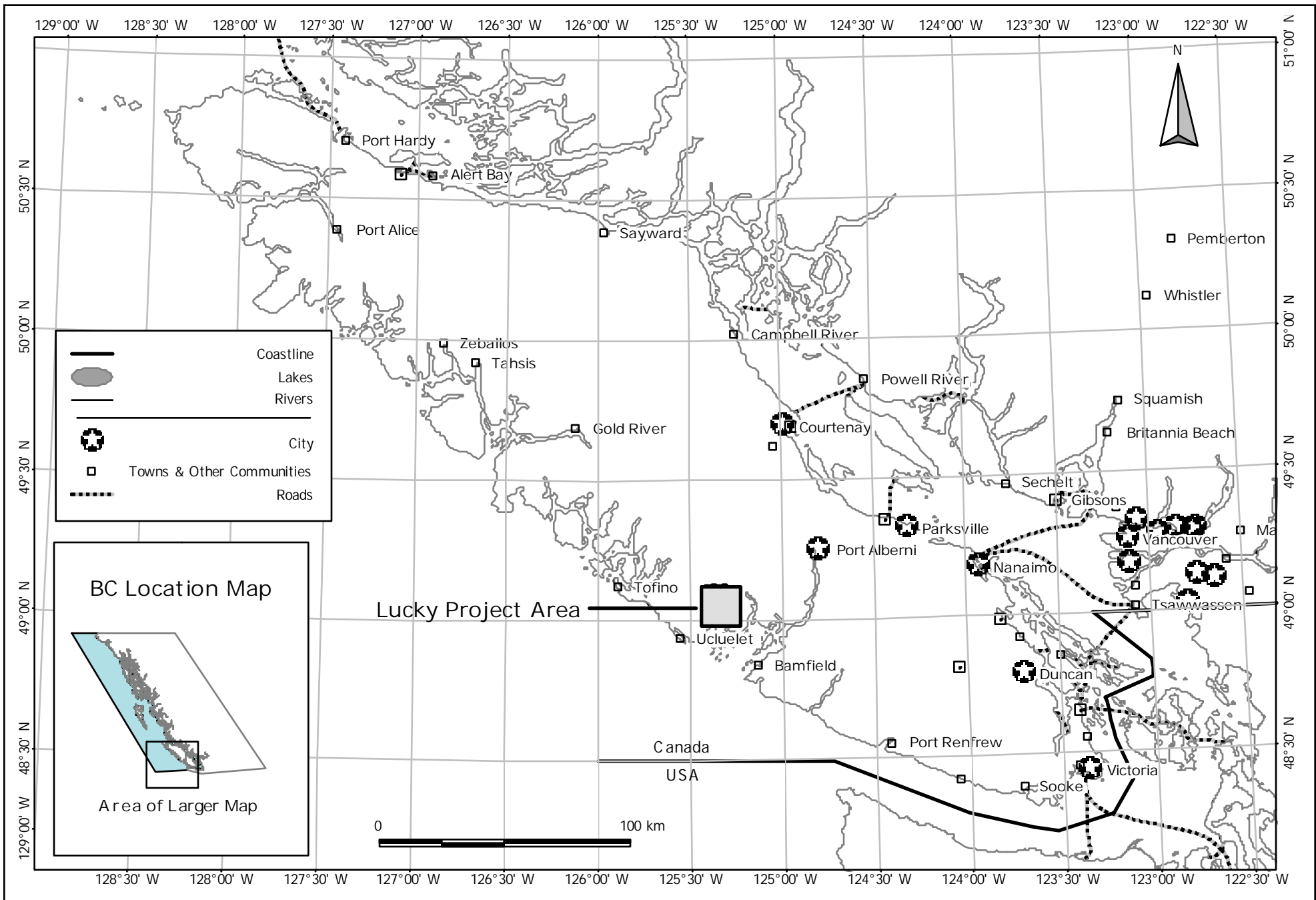
A. Location and Access

(see Figure 1 on page 4)

The Lucky Property is situated in British Columbia on NTS map sheet 92 F 3, on the southwest coast of Vancouver Island, approximately 22 kilometers northeast of Ucluelet. It is about 8 kilometers east of Kennedy Lake. A main line logging road leads from Kennedy Lake to Toquart Bay, whence a network of logging roads provides access to the western parts of the property. New roads continue to be built, increasing the access for exploration. Much of the property, particularly at higher elevations, is still accessible only by helicopter or by very difficult foot travel.

B. Physiography

Relief on the property is in the order of 1,250 meters, from sea level to the peak of Lucky Mountain. The rugged terrain is dissected by steep V-shaped valleys with heavily timbered slopes and dense underbrush. Only in the valley of Toquart River on the northwestern part of the property is the topography gentler. There the river has locally formed a flood plain a kilometer or so wide.



Lucky Project	Drawn By: PAR	Location Map	BC Albers Projection Based on NAD 83	Figure: 01
Electrum Resource Corp.	Data Sources: Massey et al. 2005		Scale: 1:2,000,000	06-Jan-08



C. Property Definition

1. Mineral Tenures

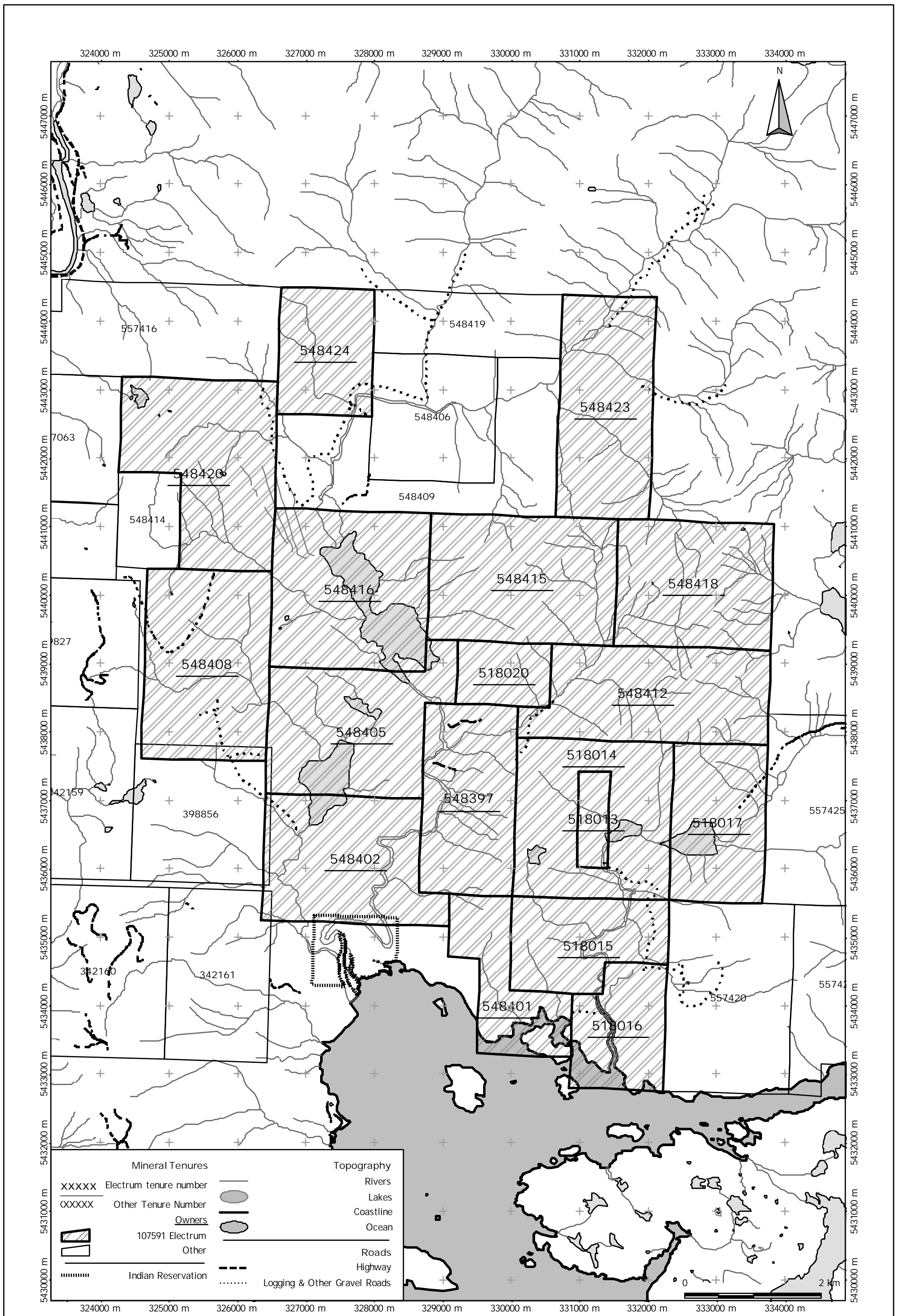
(see Figure 2)

The mineral tenures (claims) that comprise the property are listed in Table 1. All are owned by Electrum Resource Corporation. Note that the property configuration has varied significantly over the years since the 1980's. Prior assessment and other reports referring to the Lucky Property do not necessarily relate to exactly the same property from year-to-year and do not relate exactly to the property as presently configured. The present Lucky property does contain many of the key areas described in prior reports.

Table 1: Claims in the Lucky Property

Tenure Number	Claim Name	Map Number	Good To Date	Area, hectares
518020		092F	01-Jan-08	126.948
548408	LUCKY 5	092F	02-Jan-08	507.8055
548397	LUCKY 1	092F	02-Jan-08	380.9584
548401	LUCKY 2	092F	02-Jan-08	232.9102
548405	LUCKY 4	092F	02-Jan-08	465.5341
548412	LUCKY 6	092F	02-Jan-08	465.5051
548415	LUCKY 7	092F	02-Jan-08	507.7437
548416	LUCKY 8	092F	02-Jan-08	528.8875
548418	LUCKY 9	092F	02-Jan-08	423.1241
548420	LUCKY 10	092F	02-Jan-08	507.5791
548423	LUCKY 11	092F	02-Jan-08	444.0727
548424	LUCKY 12	092F	02-Jan-08	253.7154
548402	LUCKY 3	092F	02-Jan-08	444.5281
562110	LUCKY77	092F	05-Jul-08	338.2396
562106	LUCKY 7	092F	05-Jul-08	380.3744
518017		092F	01-Jan-09	317.485
518016		092F	01-Jan-09	232.934
518015		092F	01-Jan-09	275.228
518014		092F	01-Jan-11	465.639
518013		092F	01-Jan-13	63.496

Note that the claims and expiry dates listed in Table 1 reflect the status of the claims as of 02 September 2007. This table does not reflect any filing of work since 02 September 2007, including some of the work described in this report.



Lucky Project	Drawn By: PAR	Mineral Tenures	UTM Projection Based on NAD 83	Figure: 02
Electrum Resource Corp.	Data Source: The MapPlace		Scale: xx	06-Jan-08



2. History

(Much of the history described herein is adapted from Price, 1992)

a) History of the District

The Lucky property is in the southern part of the Kennedy River Camp. Considerable prospecting in the area took place in the early 1900's and in the 1930's. Numerous vein type gold showings were discovered and a few hundred tons of production resulted.

The most significant mineral production from the area was at the Brynnor magnetite mine about 10 km west of the Lucky property. Between 1962 and 1966 it produced about 4.4 million tons of magnetite iron ore from skarns in tuffaceous argillite and andesite.

In the late 1980's several companies explored for gold in the Kennedy River area, creating a minor flurry of exploration.

b) History of the Lucky Property

- | | |
|---------|---|
| 1905 | Part of the present property was staked as the Red Rover property. |
| 1920-38 | With the work of various operators the Lucky Vein was partially stripped and two adits were driven on it. Extensive sampling was carried out. |
| 1972-81 | Minor exploration work, mainly sampling at the Lucky Adit. |
| 1981-82 | Minor assessment work. |
| 1983-84 | J. Barakso, who at present controls the property through Electrum Resource Corporation, acquired the property. Silt, soil and rock chip sampling programs were carried out by Victoria Resource Corporation, under option. |
| 1985 | Falconbridge Ltd. optioned the claims and did work which included property-wide geochemical sampling, geophysical surveys and geological mapping. Underground workings were surveyed and sampled, and 332 meters of diamond drilling was done in 7 holes on the Lucky Vein. |
| 1987 | Electrum Resource Corporation optioned the property to Freemont Gold Corporation, who, with Alcove Gold Corporation, completed VLF-EM and magnetometer surveys, soil and rock chip geochemistry, geological mapping and prospecting. |
| 1988 | Canora Mining Corporation joined the joint venture and did 2,087 meters of diamond drilling in 20 holes on the Lucky vein, as well as 6 holes in an area known as the Ridge Zone. |
| 1991 | Electrum Resource Corporation did an IP and VLF-EM survey on the TOQ grid, located on the TOQ 3 claim. Pronounced chargeability and resistivity anomalies were located. A strong VLF-EM conductor is coincident with the former. |
| 1992 | Electrum carried out geological and geochemical investigations over much of the property. |
| 1993 | Electrum continued its geological and geochemical investigations, making use of logging roads completed since 1992. The 1993 work included a helicopter reconnaissance. |



- 1994: Electrum continued geological and geochemical investigations, making use of new logging roads and of a helicopter based in Port Alberni.
- 1995-98: Consolidated Logan Mines Ltd. held the property under option from Electrum. Work done by Logan included geochemical soil and/or rock surveys on a number of grids, a lake sediment survey, an aeromagnetic survey and 826 meters of diamond drilling in 5 holes on the TOQ zone.
- 1999: Electrum did a small exploration program consisting of reconnaissance geological mapping, rock chip sampling and soil sampling.
- 2000: Electrum did a small exploration program consisting of conventional stream sediment geochemistry, pan concentrate stream sediment geochemistry, rock chip sampling and prospecting.

III. Work Program

During the period 22 July through 29 July, 2007, Electrum Resource Corp. caused field work to be done by three persons on the Lucky property. The field work and subsequent laboratory analysis included the following:

154 samples collected and geochemically analyzed.

6 rock samples collected and geochemically analyzed.

The cost of this program, including all follow-up reporting and data management, was \$17,202.47. Details of these costs are set out in Appendix 1. The program was expensive, on a per-sample basis, because the rugged terrain makes progress from point to point slow and difficult, resulting in low productivity.

IV. Geology

A. Regional Geological Setting

*(Much of the following discussion is adapted from Price, 1992)
(See Figure 3)*

Most of the district surrounding the Lucky claims is underlain by Triassic volcanics of the Karmutsen Formation. It includes mafic volcanics ranging from fine to medium grained, with equigranular or porphyritic textures. Amygdules are common and pillow structures are locally recognizable. The volcanics are dominantly basaltic. A few units of volcanically derived clastic sediments are present.

On a regional scale the Karmutsen commonly exhibits alteration that includes the development of chlorite, actinolite and epidote in the groundmass. Epidote, quartz and calcite are ubiquitous as veins and other open space fillings.

Limestone, argillite and tuffaceous argillite of the late Triassic Quatsino Formation overlie the Karmutsen Formation, with an abrupt but apparently conformable contact. Some argillaceous to sandy sediments found directly above the Quatsino may belong to its upper Triassic successor, the Parson Bay Formation.

A few small areas in the eastern part of the project area are underlain by felsic volcanic rocks of the Jurassic Bonanza Group.

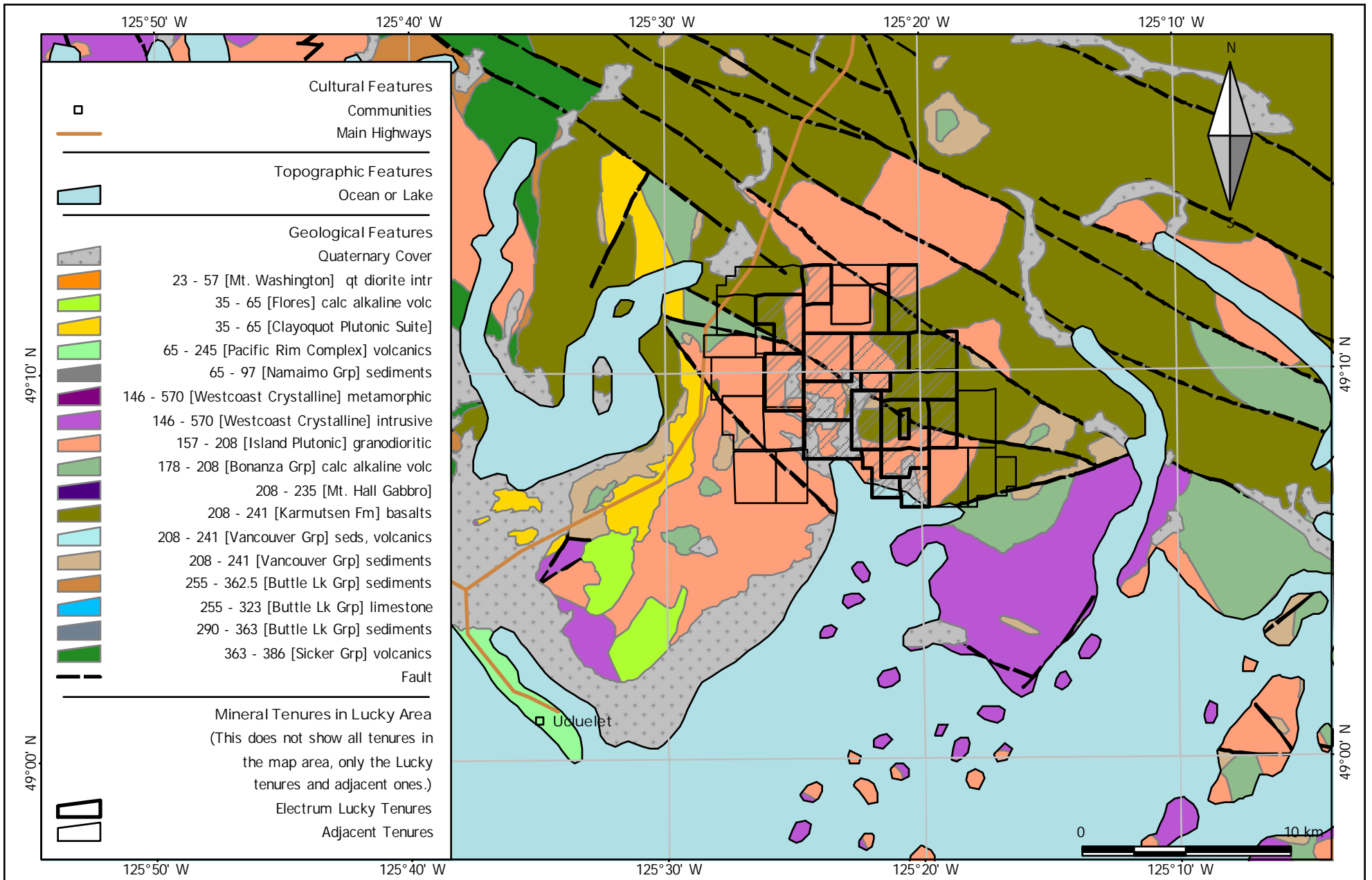
**B. Mineral Deposits in the District**

(Much of the following discussion is adapted from Price, 1992)

The Karmutsen Formation is the host to many gold-silver ± base metal veins in the Port Alberni, Kennedy Lake and Tofino areas. The veins typically contain high-grade pockets of mineralization and some are reported to contain estimated resources¹. Small shipments of direct shipping ore have been made from a few of them.

The Brynnor Mine, noted on page 7, is the only significant past producer in the area. Between 1962 and 1966 it produced about 4.4 million tons of magnetite iron ore from skarns in tuffaceous argillite and andesite.

¹ The writer has not looked into whether or not any of the resources reported in the area are in compliance with current regulations for reporting resources and reserves.



Lucky Project	Drawn By: PAR	Regional Geology	BC Albers Projection Based on NAD 83	Figure: 03
Electrum Resource Corp.	Data sources: BCGS Open File 2005-2		Scale: 1:250,000	06-Jan-08



C. Local and Property Geology

1. Lithologic Units

The most comprehensive geological mapping program done on the Lucky property was by Falconbridge (Rebic and Lehtinen, 1985). They identified the supracrustal units listed in **Table 2**, following:

Table 2: Supracrustal Rocks

lower Jurassic	
Bonanza Formation	andesite to dacite flows; agglomerates, breccias and tuffs. Fragments consist of bombs and blocks compositionally similar to host.
upper Triassic	
Parson Bay Formation	thin bedded calcareous sedimentary rocks composed of mudstone, argillite, siltstone and sandstone.
Quatsino Formation	light to dark grey, massive or thick-bedded limestone.
Karmutsen Formation	basalt to andesite meta-volcanics. Porphyritic amygdaloidal flows, fine grained flows and brecciated flows. Flow banding and pillow structures locally present. Plagioclase and/or augite phenocrysts are common. Narrow tuff and limestone beds are present in the upper

The supracrustal rocks are intruded by a variety of intrusions. With the lack of age dates on the property, the assignment of intrusive rocks to lower Jurassic or Tertiary ages is largely guesswork. The intrusive rocks are described in Table 3, following:

Table 3: Intrusive Rocks

Tertiary (?)	
	granite, quartz monzonite
	gabbro dikes, sills, stocks (these were considered lower Jurassic by Rebic and Lehtinen)
lower Jurassic (?)	
Island Intrusions	granodiorite, quartz diorite; commonly massive, medium to coarse grained, equigranular. Some porphyritic phases present.

2. Structural Geology

The characteristic structural style on the property is block faulting, with displacements on a scale of meters to hundreds of meters or possibly kilometers. Most of the recognized faults are steep dipping. Fault zones range from sharp breaks to zones several meters wide containing gouge and brittle shears.



On the TOQ grid there is some suggestion of ductile shearing. It variably manifests as mineral alignment, stylolitic cleavage or mylonitic colour banding. The dominant orientation is north-northeast. Insufficient work has been done to determine the implications of this localized ductile shearing. Its spatial association with extremely sulphidic rock may be important.

3. Alteration

Most of the many faults and fractures in the rocks of the Lucky Property exhibit some form of alteration, ranging from veins to limited alteration envelopes around the fractures. Quartz, calcite, chlorite, epidote and many less abundant minerals are present. For the most part the alteration is restricted to an area of a few millimeters to a few meters adjacent to whichever fracture channeled the altering fluids. The most important of the numerous alteration assemblages are described as follows:

- epidote The most superficially striking alteration mineral throughout the Karmutsen Formation on the Lucky Property is epidote. It is found in veins, filling amygdules and as pods up to several centimeters or decimeters wide. The latter are not obviously open space fillings and their origin is unclear.
- The minerals most commonly associated with the epidote are quartz and/or calcite. In veins and other open space fillings one or both of them may be found interior to the epidote, giving the impression that a cavity lined with epidote was subsequently filled by the quartz or calcite. Sulphides may or may not be present. Pyrite is the most common, but large blebs of chalcopyrite are sometimes associated with the epidote-quartz±calcite assemblage.
- Epidote in the Karmutsen is not unique to the Lucky Property, being found on a regional scale.
- quartz Quartz veins are abundant on the Lucky Property. The most significant known one, in terms of mineralization, is the Lucky Vein itself. Many similar-appearing veins exist, probably representing several generations of quartz.
- As noted above, quartz is also found associated with the ubiquitous epidote.
- Silicification is found adjacent to some quartz veins and as zones a few meters in extent associated with faults.
- calcite Calcite exists in many of the quartz veins, including the Lucky. Calcite-only veins and veinlets are also widespread.
- quartz-sericite The area of coincident geophysical anomalies on the TOQ grid is underlain by rocks that have undergone intense quartz-sericite alteration. Walker (1997) described pyrophyllite and clay, with other minor alteration minerals, in addition to the quartz-sericite. Where the alteration is most intense the protolith is completely unrecognizable. The hard, very finely crystalline mixture of quartz and sericite is light to medium grey. For the most part it is unfoliated, although ductile shear foliations are present in some exposures.
- This quartz-sericite rock on the TOQ Grid is almost everywhere pyritiferous, in the range 2% to 10% pyrite. Small samples of near-massive pyrite can be collected.



This silicified, sericitized and pyritized rock is the only pervasive alteration assemblage to be found covering a sizable area.

argillic argillic alteration, in the form of kaolinization of feldspars, is found in quartz feldspar porphyry dikes in the vicinity of Triple Creek. These dikes contain disseminated pyrite but have not been found to contain high base metal concentrations.

D. Mineralization

1. Lucky Vein

The Lucky gold-quartz vein is the best known and studied prospect on the property. It has been extensively described in prior reports (see in particular Carter, 1989; Eccles, 1984; Northcote, 1983a; Rebic and Lehtinen, 1985; Wilson and Zastavnikovich, 1989a).

Carter (1989) describes the Lucky Vein as follows:

"The Lucky quartz (carbonate) vein occupies a northerly striking, steeply east dipping shear zone and is exposed in surface trenches and two adits. The vein pinches and swells with widths ranging from a few cm. to 0.40 meter.

"... Six vein samples collected by Falconbridge over 28 meters of strike length had gold values ranging from 0.318(opt)/0.30 meter to 7.421(opt)/0.18 meter."

2. TOQ Grid and Toquart River West Area

The TOQ grid was part of Electrum's Lucky Property at the time the grid was being explored in the mid-1990's. It is not part of Electrum's present Lucky Property. Some of the Toquart River West area described here is part of Electrum's present property. The description in this section was contained in Ronning, 2000. It is repeated here, including to the reference to the TOQ grid, for context.

About 3 hectares of the TOQ grid is underlain by intensely sericitized rocks containing 2% to 25% pyrite. The present report incorporates the results of soil and rock chip sampling across the river to the west of the TOQ grid, in the Toquart River West area, where a sulphidized zone is present that is probably related to the one on the TOQ grid. If the sulphidized zones east and west of the Toquart River are indeed part of the same thing, then the zone of sulphidized rock extends discontinuously over almost 200 hectares, in contrast to the 3 hectare area originally identified on the TOQ grid. Work to date hasn't resulted in the discovery of any potentially economic base or precious metal enrichments in this material, but it remains intriguing.

Published geological maps show this area to be underlain by Jurassic Island Intrusions, with upper Triassic Karmutsen volcanics to the west (for example Figure 3). In fact intrusive rocks are only one of several components of the bedrock exposed in the new road cuts. The as-yet incomplete mapping indicates that a complex body of plutonic rock forms a central core in the mapped area. It is flanked to the north and south by interbedded pyroclastic, volcanoclastic and basaltic flow rocks.

The plutonic body consists of several lithologies including monzo-granite, diorite, monzo-diorite and diabase. With the available information it is not clear whether these different rock types represent a polyphase pluton, or a series of distinct small plutons that have succeeded each other in the same location. The bulk of the exposure is diabase, which, in its finer grained parts,

is easily confused with the basalts that form part of the volcanic-sedimentary package to the north and the south. Only a relatively minor part of the intrusive package contains significant visible quartz crystals, shown on Figure 4 as monzo-granite.

The basalts that form part of the volcano-sedimentary package flanking the plutonic rocks are moderately to strongly magnetic, and contain variable concentrations of epidote, albitization, and saussuritization of feldspars. The basalts vary from cryptic pillow basalt to flow breccia. Locally the basalts contain up to 4 meter thick interbeds of finely banded water lain tuff. At one site the banded tuff exhibits a northwest strike with a 70 degree dip to the northeast.

The tuffs and tuff breccias contain fragments ranging from fine ash to 5 cm rock fragments, mainly of volcanic derivation. These pyroclastic rocks are for the most part pyritized, typically with about 5% pyrite, as fine disseminated crystals. Locally the intensity of pyritization is much greater. Some rock fragments are preferentially pyritized, to the extent that they are almost massive sulphide. It is conceivable that some of the fragments of near-massive sulphide originated from syngenetic sulphide layers, now broken up and found as fragments in the tuff breccia. The writer prefers the interpretation that they are fragments of rock that were preferentially sulphidized by epigenetic processes within the tuff breccia.

In some exposures the tuff breccia is interlayered with green volcanic flows of andesitic or basaltic composition. The flow layers are up to several meters thick, but overall are subordinate in quantity to the pyroclastics.

The writer suspects, without any conclusive evidence, that these pyroclastic rocks belong to the Bonanza Volcanics.

Their contact relationship between the complex body of intrusive rocks and the surrounding volcano-sedimentary rocks is not visible, but there is a zone of what looks like granitic rock hybridized by the ingestion of some volcanic rock. This may indicate that at least one type of intrusive rock, Unit A, the monzo-granite, intrudes the pyroclastic rocks.

3. Other Mineral Occurrences

Several occurrences of chalcopyrite, sphalerite and/or galena, with or without precious metals, are known on the property. All are veins or skarns whose known dimensions are small, but their abundance is encouraging.

V. Discussion of 2007 Work

The field work in 2007 consisted principally of the collection of 154 soil samples and six rock samples.

A. Field, Laboratory and Office Methods

Soil samples were collected using conventional procedures, seeking to collect material from the "B" soil horizon wherever possible. The material collected was placed in conventional kraft soil sample envelopes.

The areas to be sampled were selected by Mr. John Barakso, a geochemist and the President of Electrum. The survey was intended to be reconnaissance in nature, so samples were collected along roadsides or other sites of opportunity in areas of geological interest. Grids were not used. The start and end of any given sequence of samples, plus varying numbers of intermediate points, were located using a hand-held GPS. The nominal sample spacing was typically 25



meters, but it varied between about 15 meters and 35 meters depending on the availability of suitable material and the degree of detail required.

The six rock samples collected were grab samples from two sites of interest. They were not intended to be representative of specified widths, lengths or volumes of rock. The collectors were not experienced prospectors, and the available descriptions of the rocks are minimal.

The samples were analyzed at Assayers Canada in Vancouver, B.C. Gold was analyzed using conventional wet geochemical techniques, and 34 other elements were determined using a conventional ICP technique.

The following discussion does not incorporate any formal, mathematical statistical treatment of the data. It is based on a subjective interpretation of the spatial distribution of metals as viewed on the accompanying maps.

1. Discussion of Soil Sample Results

Results of the analyses of soil samples conducted in 2007 appear in Appendix 2.

To provide context, Figure 4 through Figure 39 include geochemical results not only for the 2007 soil samples but also for some collected in 1999 and prior years. Note that the analytical procedures may have varied from year to year, and no attempt has been made to compensate for any such differences.

Sample symbols on the maps are colour coded to illustrate which range of values they fall into. The general colour scheme is from cooler colours for lower values to hotter colours for higher values. The number of different colours, and the concentrations that they represent, were chosen by an iterative process of viewing the results on maps, plotted on histograms, and plotted on histograms with logarithmic transforms. The use of histograms does not, however, imply that a formal statistical study was done. Ultimately the colour schemes were chosen using qualitative judgment.

Note that a minus sign (-) on the accompanying maps means “less than”. Thus, a gold analysis reported by the laboratory as “less than 1 ppb (<1 ppb)” is shown on the maps as -1 ppb. The substitution of “-“ for “<” is required by the database and GIS software used for storing, plotting and colour-coding the results.

For the purpose of display and discussion, in this report the soil samples are divided into five areas. The areas are identified by the tenure number(s) of the claim or claims that incorporate them. The areas are therefore identified as follows, in rough order from north to south:

- 548420
- 548416
- 548412
- 518020_548397
- 548402

No particular geological significance is implied by the way the samples are allocated to areas.

For each of gold, copper, lead, zinc, silver and arsenic, six maps are included. The first for each metal is an overview map plotted at a scale of 1:50,000 that shows all of the soil samples collected in 2007, and some of those collected in earlier years, plotted against a backdrop of regional geology. The purpose of the overview map is to give a general impression of the broad



distribution of the metal in soil samples over a large part of the property. The scale is too small to permit displaying labels showing the metal values, and there is a great deal of over-plotting.

In addition to the overview map, for each metal five 1:5,000 scale maps are included, showing the metal values in soil samples in each of the areas listed above. In these maps the metal values are displayed as labels.

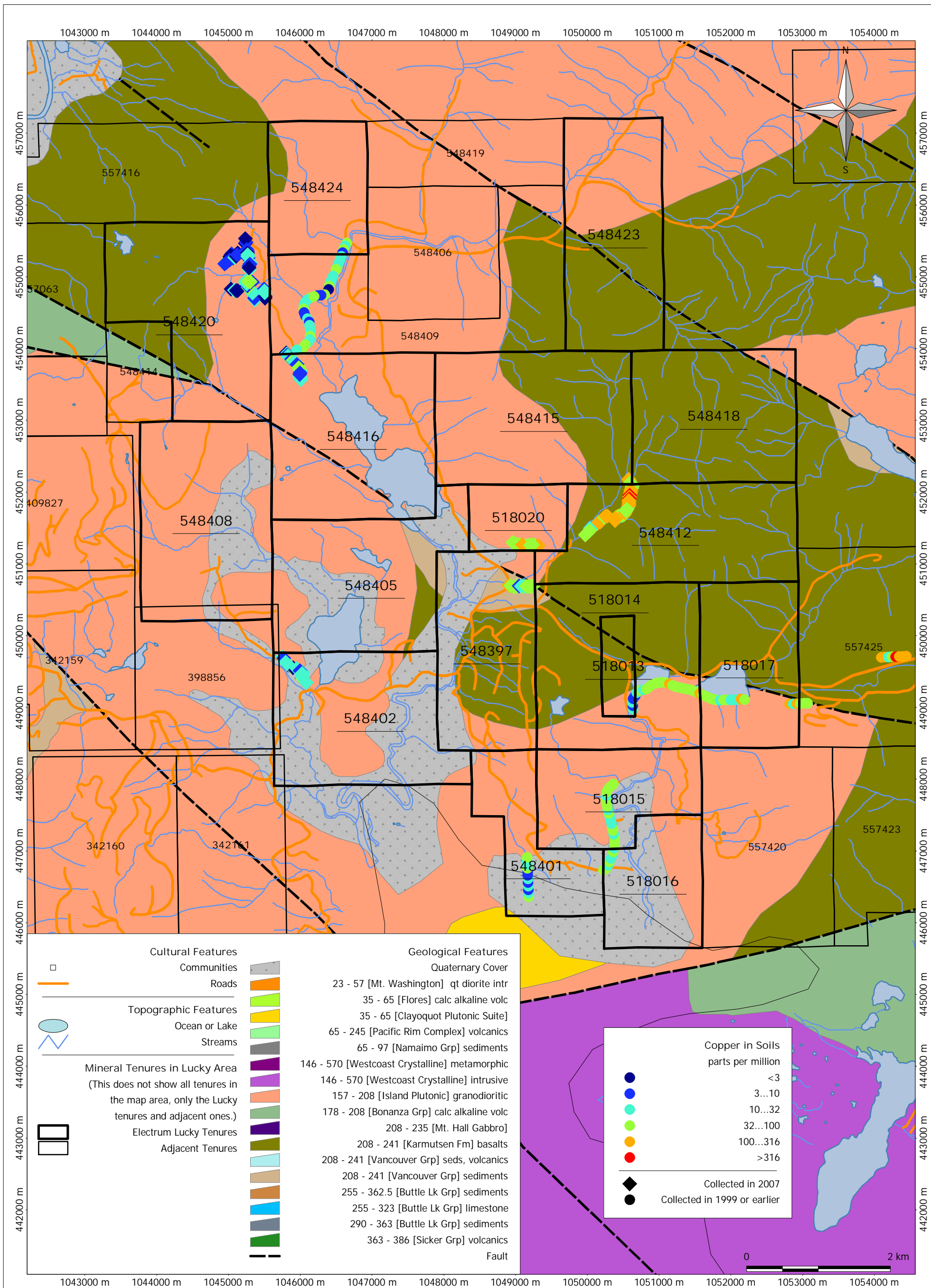
a) Copper in Soils

(Figure 4 through Figure 9)

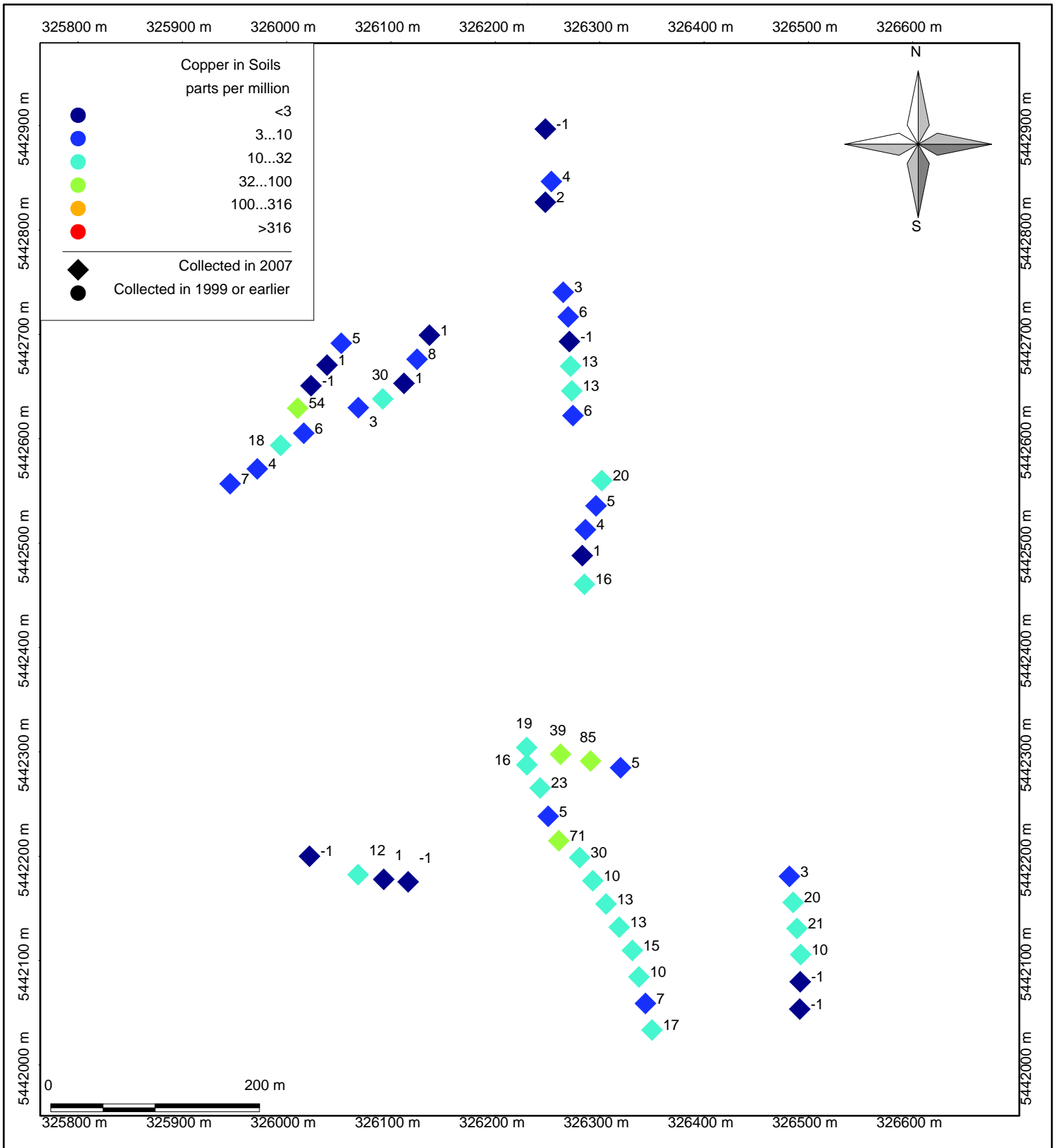
The most striking aspect of the copper distribution in Figure 4 is that the copper values in soils overlying rocks of the Karmutsen Group are generally considerably higher than those in soils overlying rocks of the Island Plutonic Suite. This probably reflects a higher background level of copper in the mafic Karmutsen volcanic rocks. In addition to the expected higher copper levels in mafic volcanic rocks, the Karmutsen volcanics on the Lucky property typically contain quartz-carbonate (pyrite/chalcopyrite) pods and veinlets. This type of copper mineralization is widespread on the property, but do date no there is no known concentration of such mineralization in a body large enough to be potentially economic.

While the contribution of the Karmutsen volcanic rocks to copper in soils must be acknowledged, there is nevertheless a striking linear cluster of comparatively high copper values in soils in the north-central part of claim 548412 (Figure 4 and Figure 7). This line of samples is on the slope to the left or southeast of a steep drainage known as Nugget Creek. Prospecting along the creek channel and nearby slopes has in the past revealed a typical abundance of the sort of small copper occurrences that characterize the Karmutsen. However, the line of ten soil samples spanning roughly 220 meters, containing more than 100 ppm copper, bears further investigation.

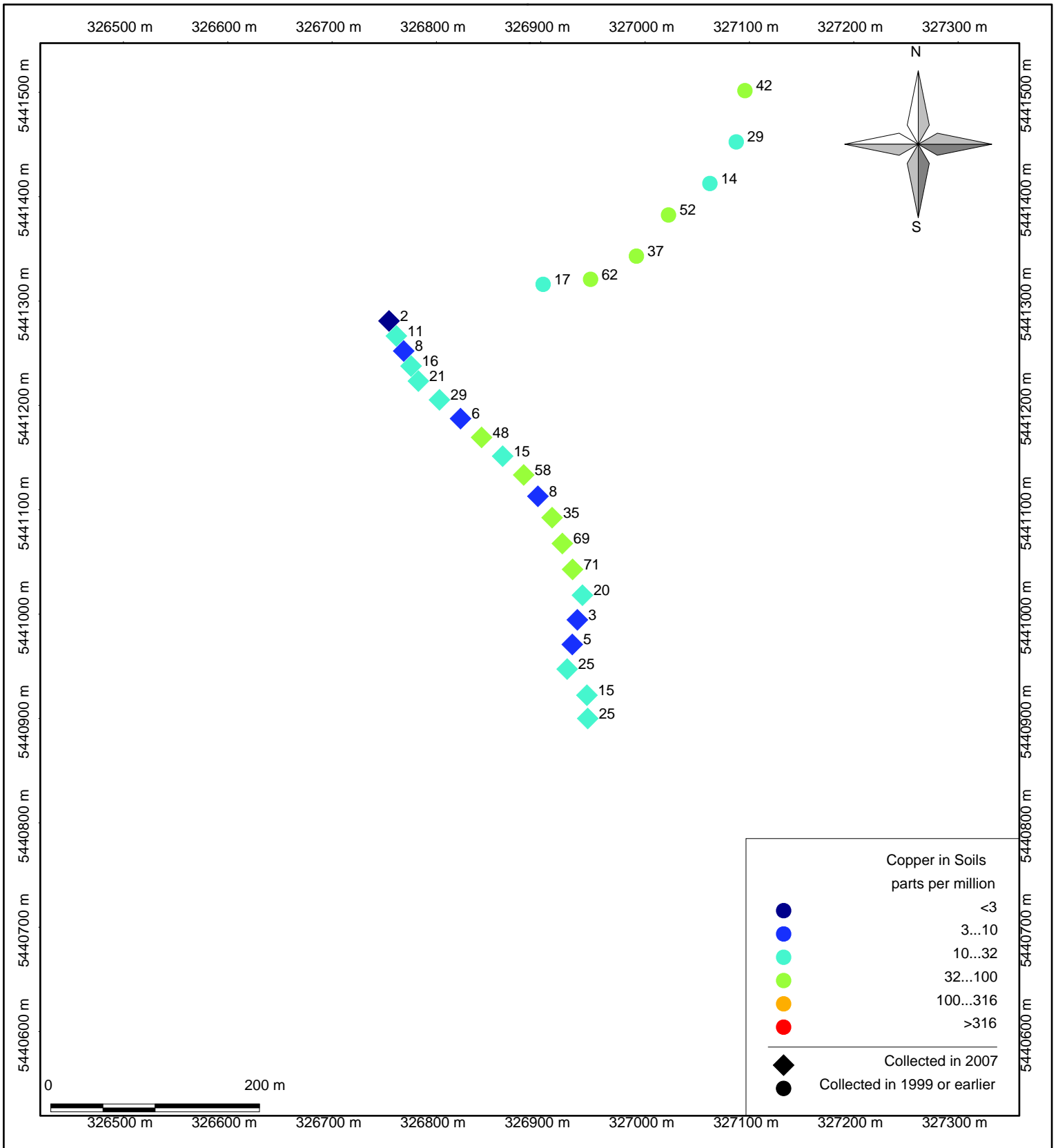
There are no other copper concentrations of note in the soil samples.



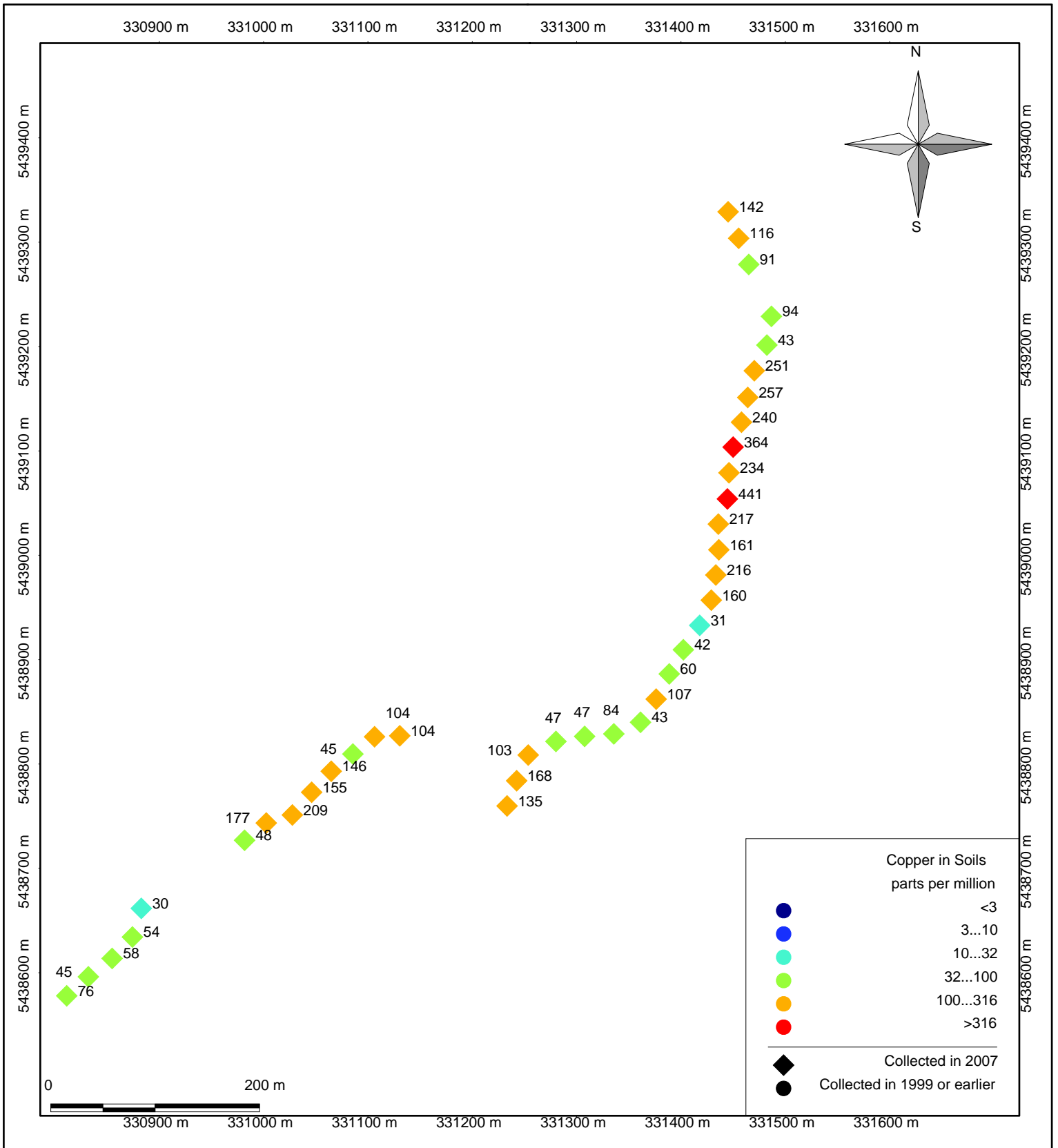
Lucky Project	Drawn By: PAR	Soil Geochemistry Copper Overview	BC Albers Projection	Figure: 04
Electrum Resource Corp.	Data Sources: The MapPlace Electrum Resource Corp.		Scale: 1:50,000	revised 14-Jul-08



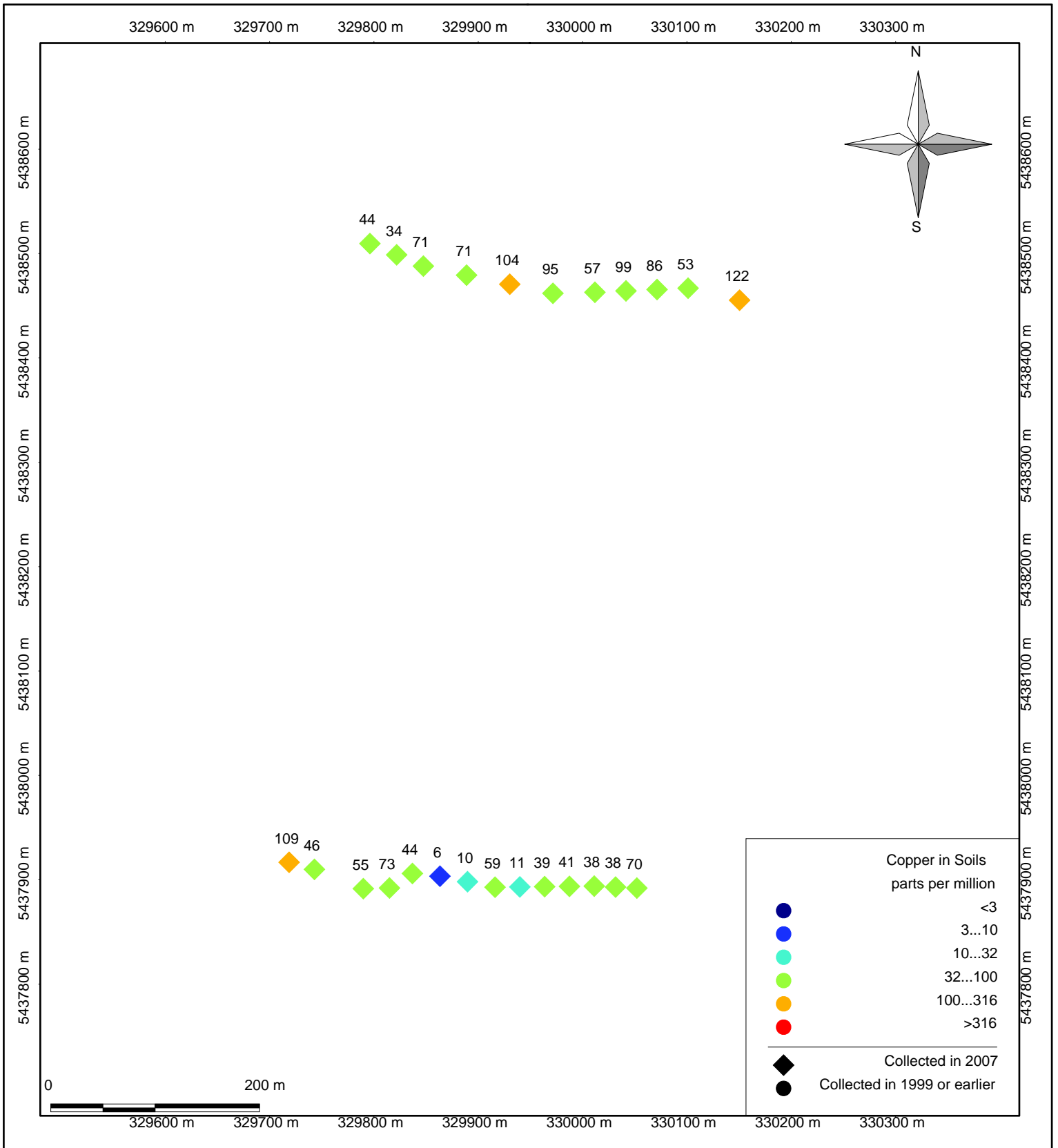
Lucky Project	Drawn By: PAR	Soil Geochemistry Copper Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 05
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



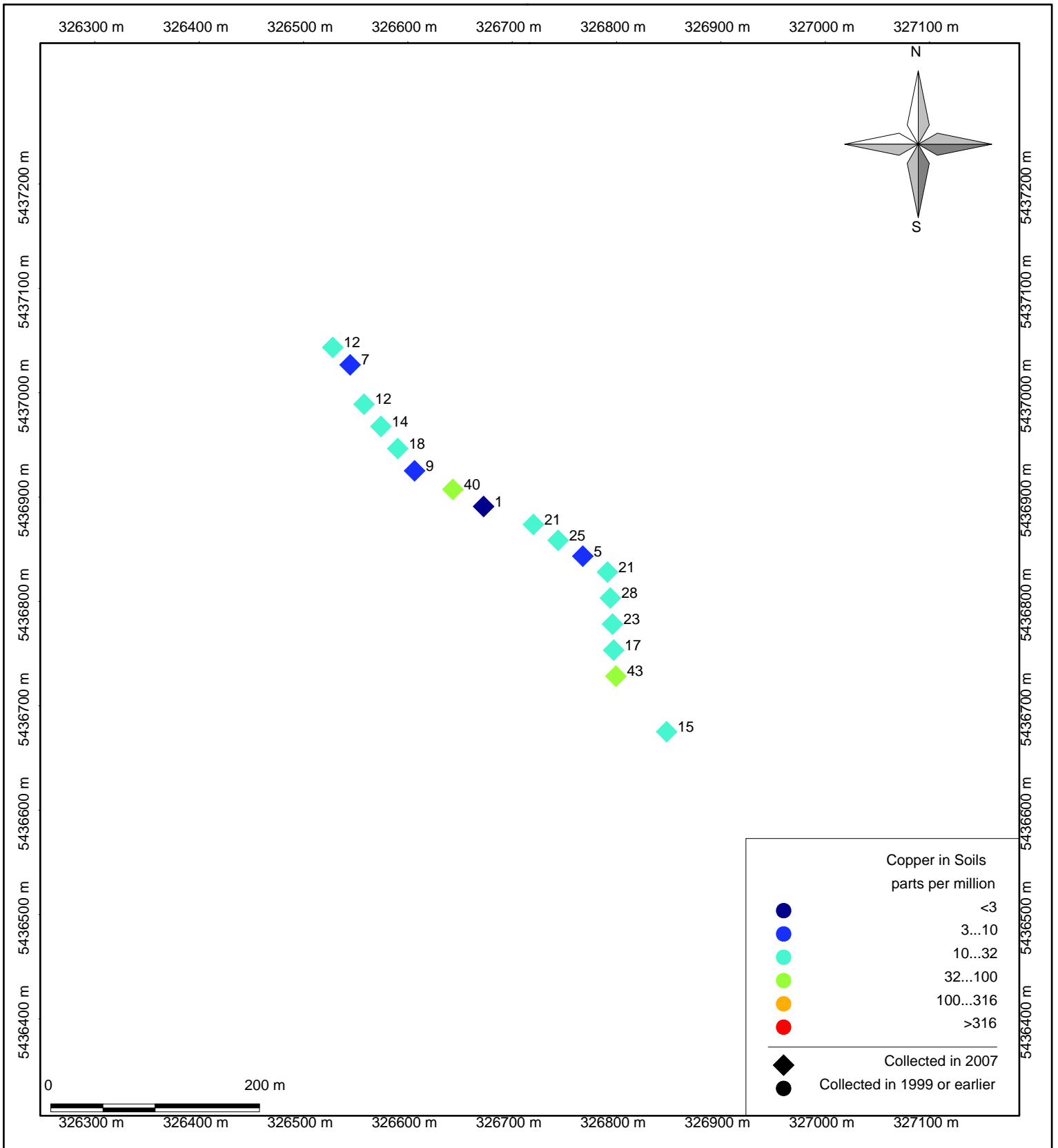
Lucky Project	Drawn By: PAR	Soil Geochemistry Copper Detail Tenure 548416	UTM Projection Based on NAD 83	Figure: 06
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Copper Detail Tenure 548412	UTM Projection Based on NAD 83	Figure: 07
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Copper Detail	UTM Projection Based on NAD 83	Figure: 08
Electrum Resource Corp.	Data Source: Electrum		Tenures 518020 548397	Scale: 1:5,000

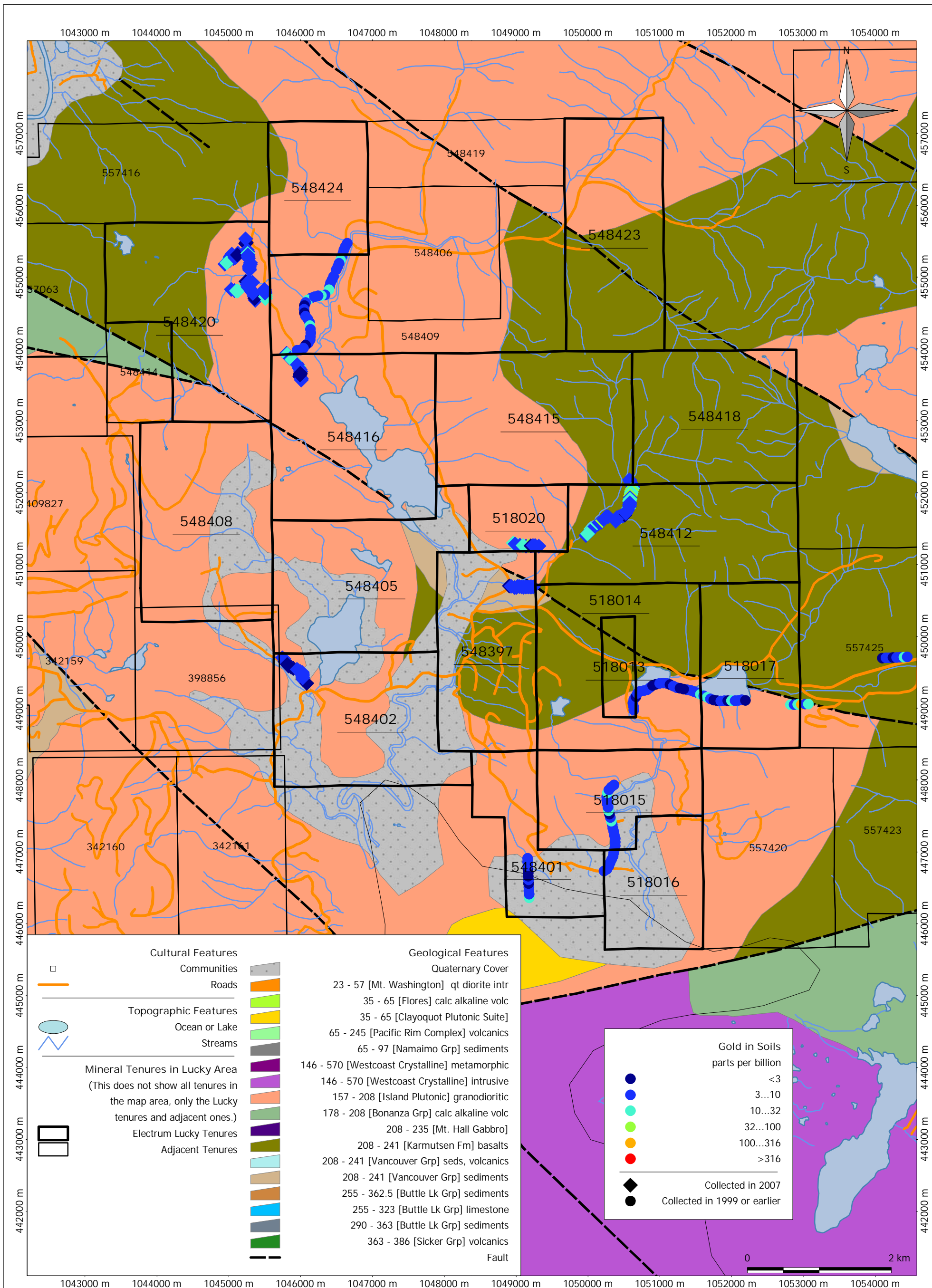


Lucky Project	Drawn By: PAR	Soil Geochemistry Copper Detail Tenure 548402	UTM Projection Based on NAD 83	Figure: 09
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08

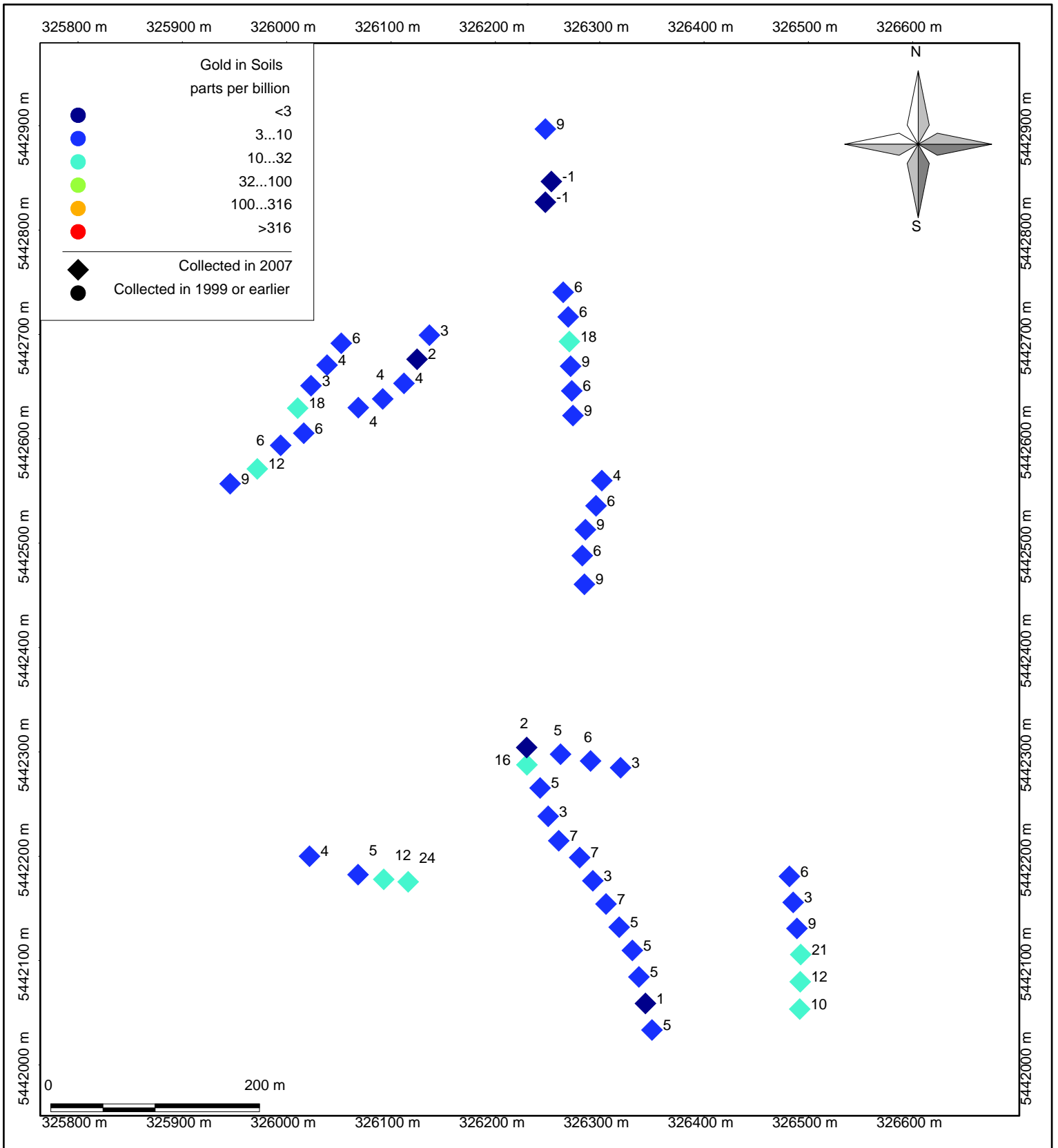


b) Gold in Soils
(Figure 10 through Figure 15)

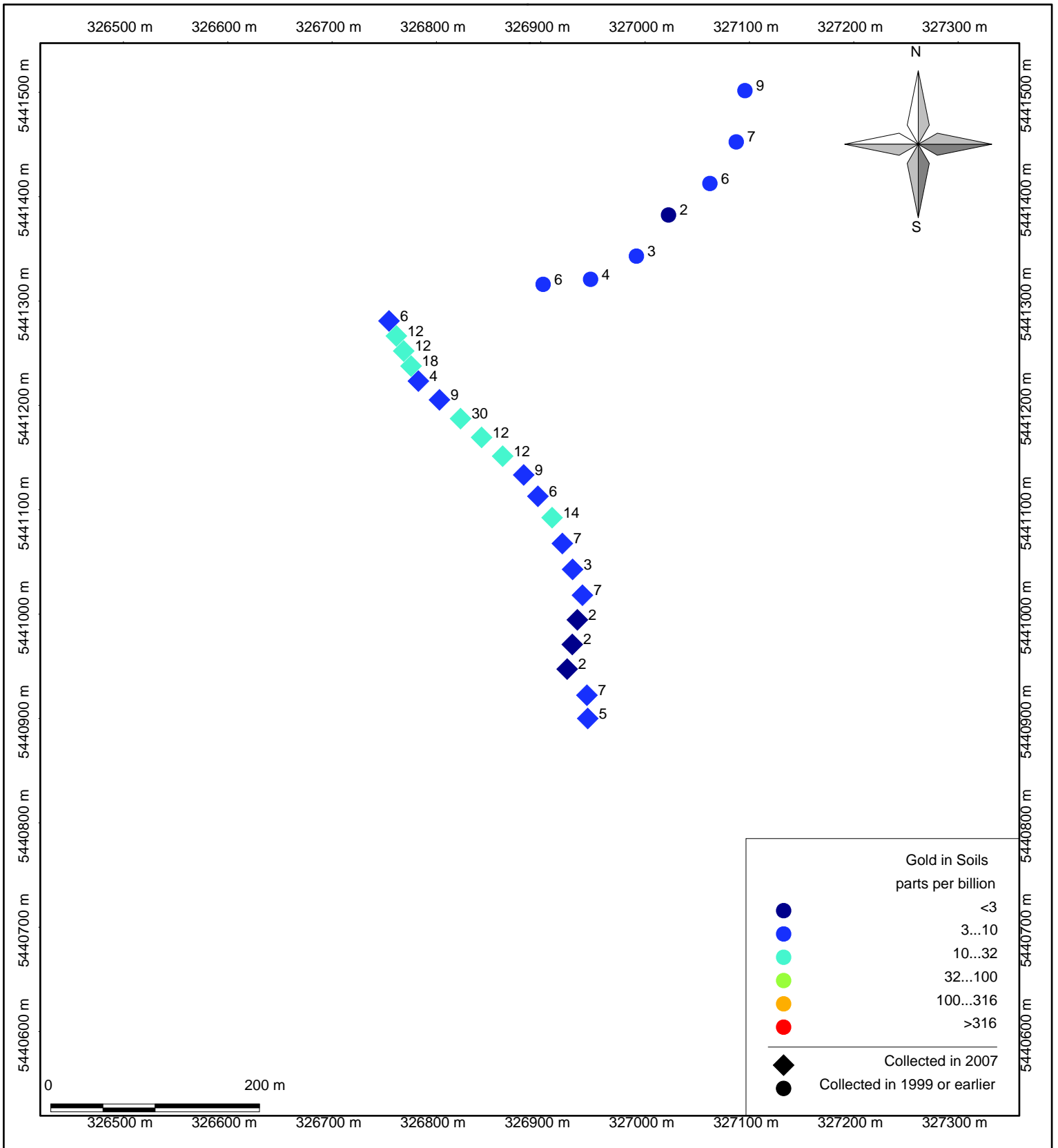
None of the soils sampled in 2007 stand out for their gold content.



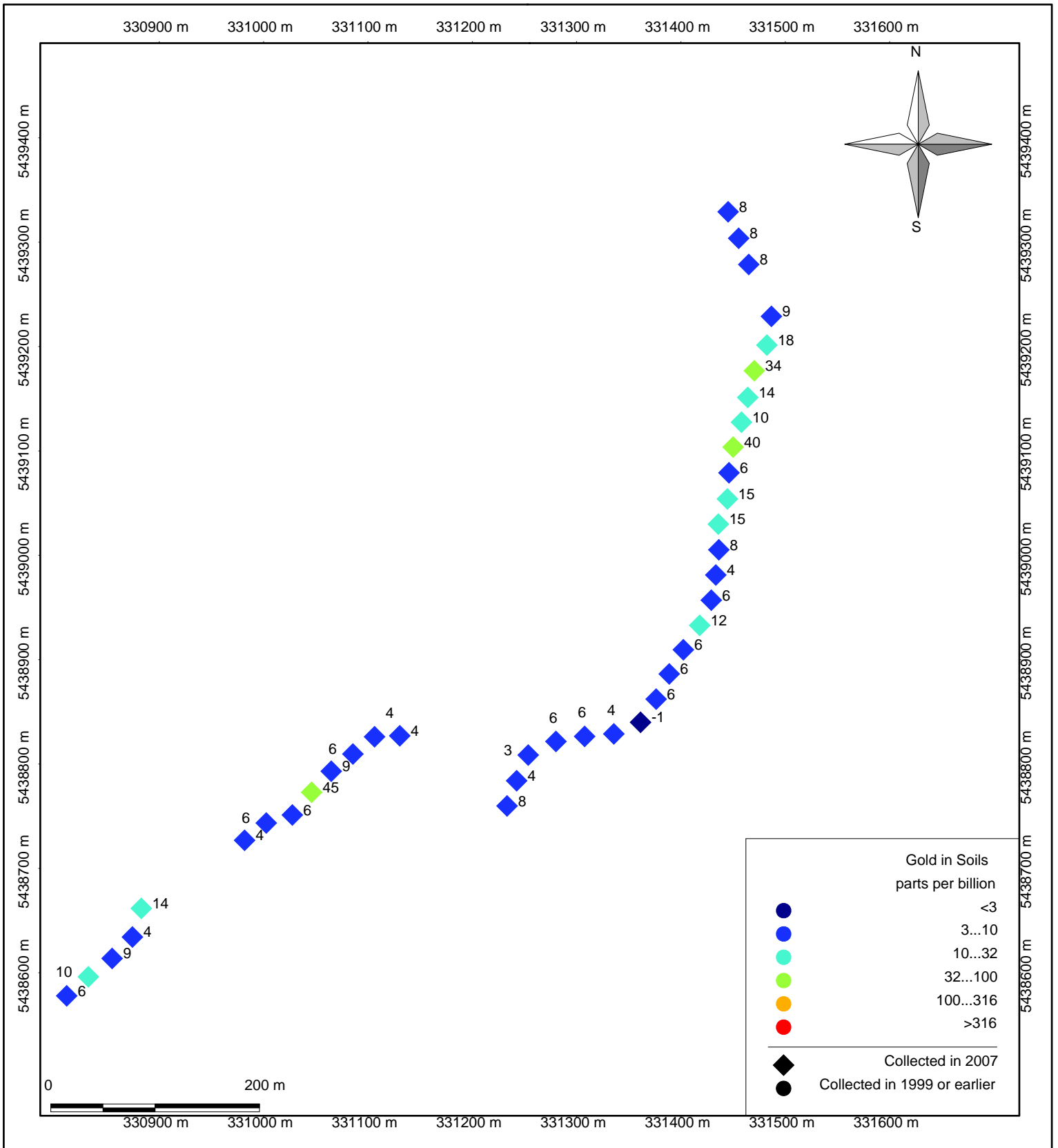
Lucky Project	Drawn By: PAR	Soil Geochemistry Gold Overview	BC Albers Projection	Figure: 10
Electrum Resource Corp.	Data Sources: The MapPlace Electrum Resource Corp.		Scale: 1:50,000	revised 14-Jul-08



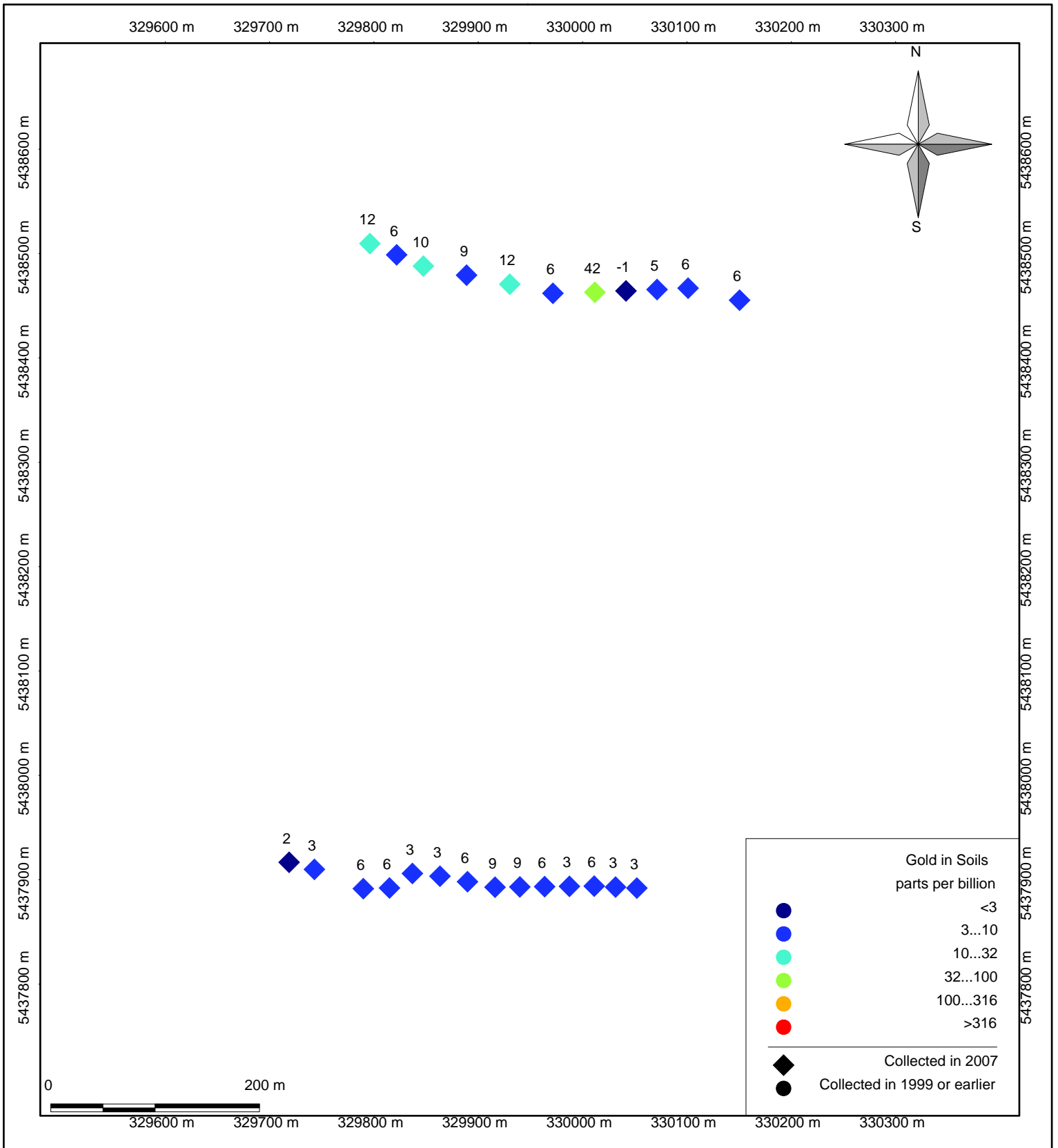
Lucky Project	Drawn By: PAR	Soil Geochemistry Gold Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 11
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



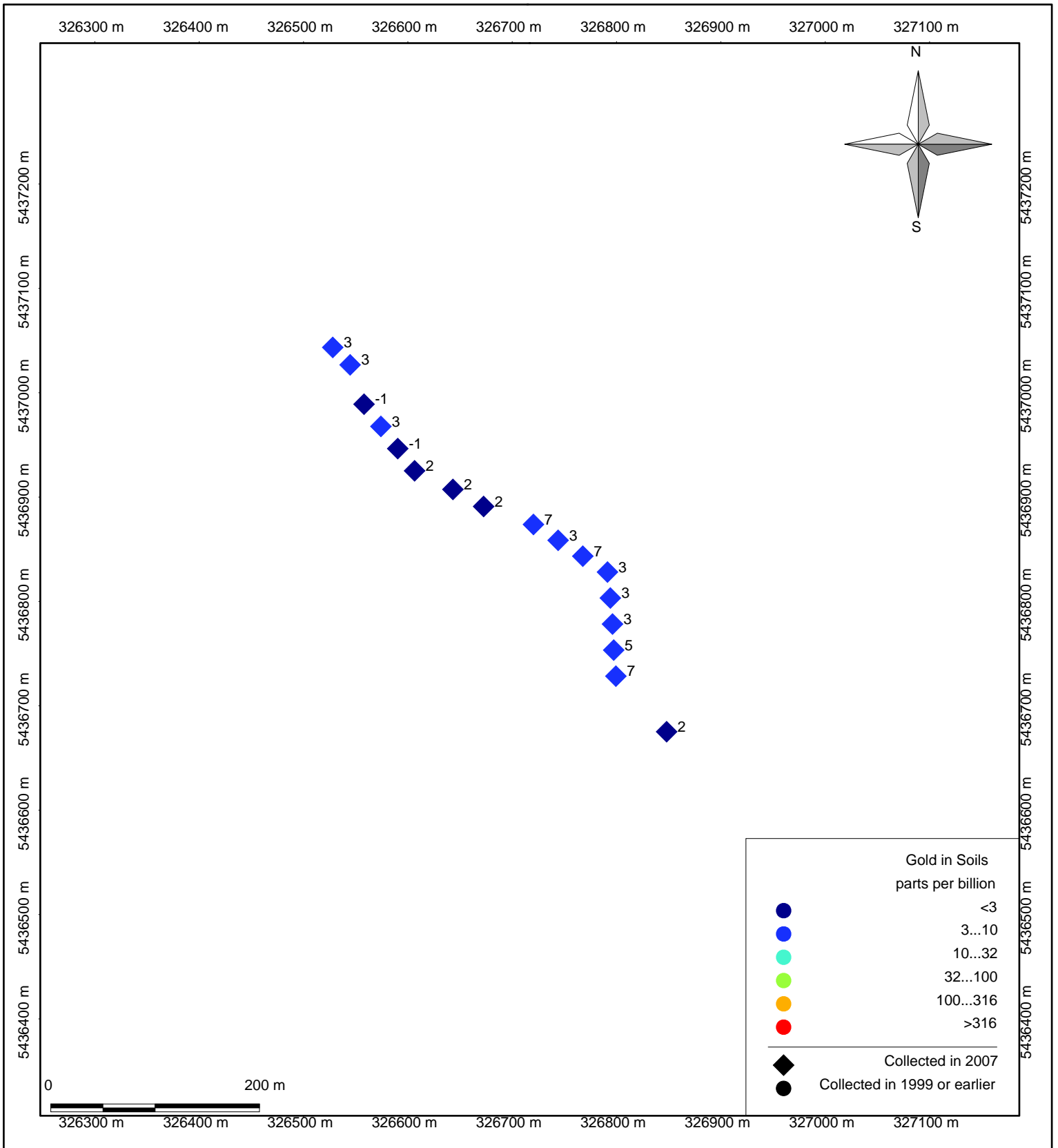
Lucky Project	Drawn By: PAR	Soil Geochemistry Gold Detail Tenure 548416	UTM Projection Based on NAD 83	Figure: 12
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Gold Detail Tenure 548412	UTM Projection Based on NAD 83	Figure: 13
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Gold Detail	UTM Projection Based on NAD 83	Figure: 14
Electrum Resource Corp.	Data Source: Electrum		Tenures 518020 548397	Scale: 1:5,000



Lucky Project	Drawn By: PAR	Soil Geochemistry Gold Detail Tenure 548402	UTM Projection Based on NAD 83	Figure: 15
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



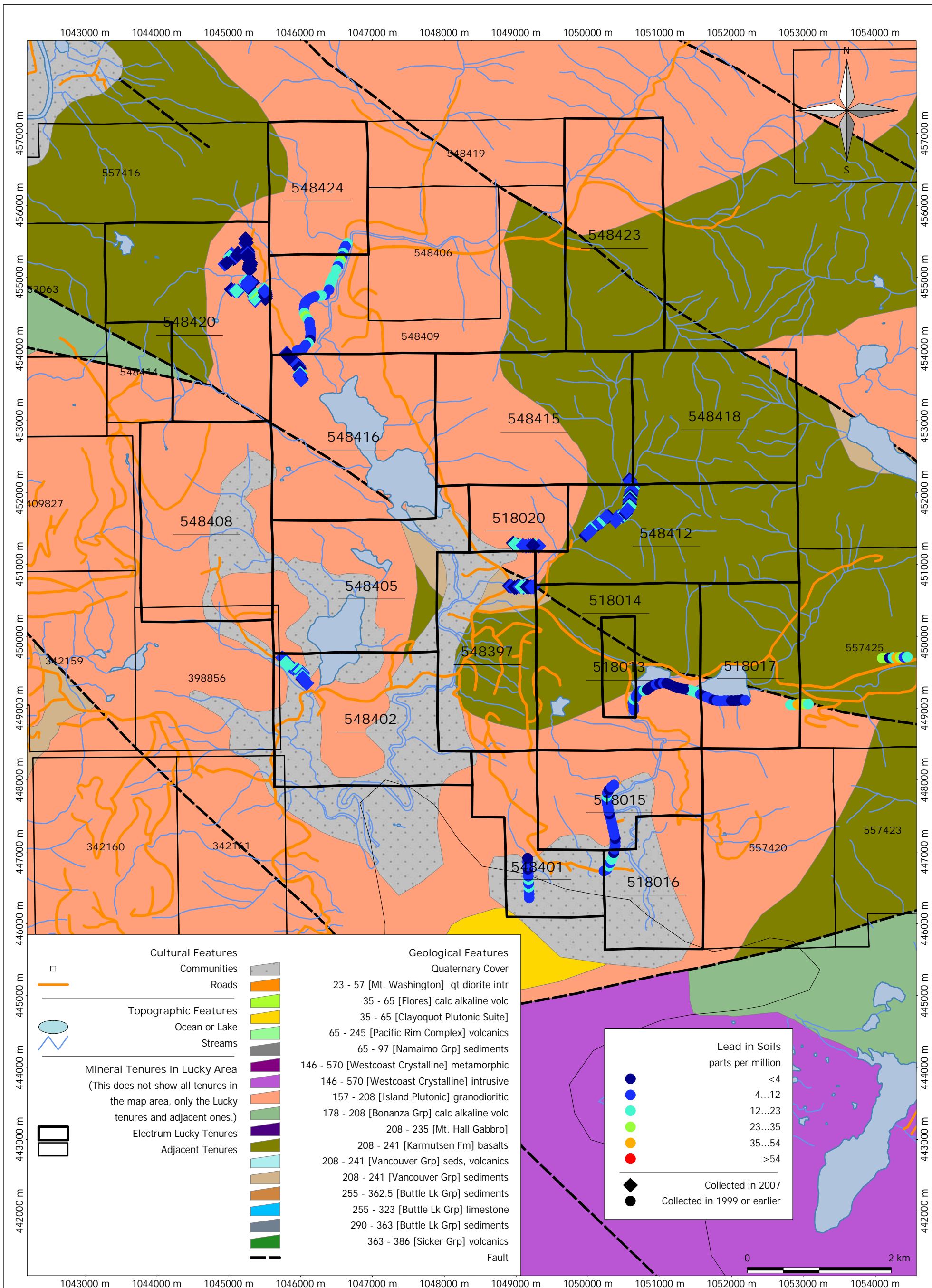
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for Electrum Resource Corporation

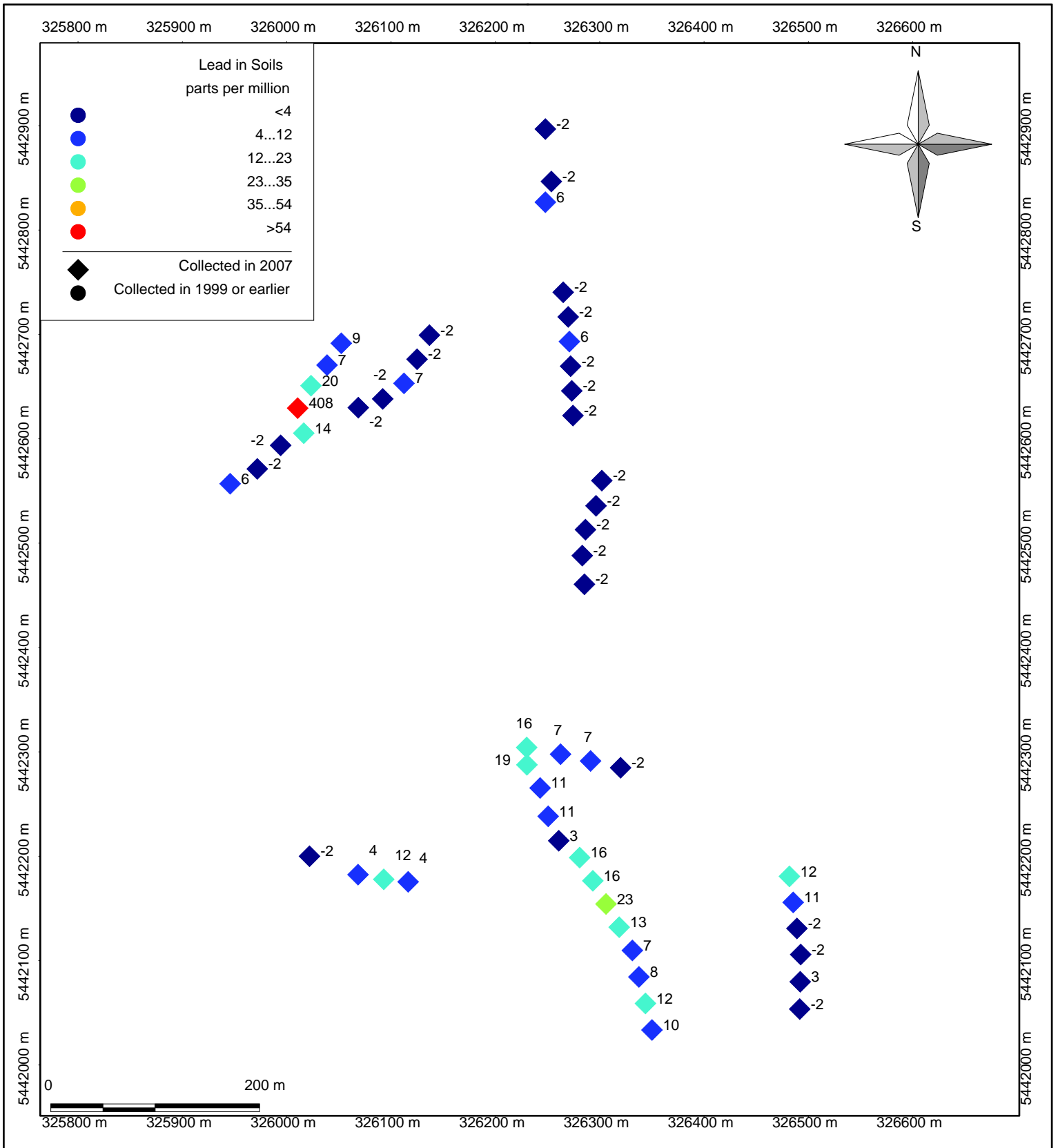


c) Lead in Soils
(Figure 16 through Figure 21)

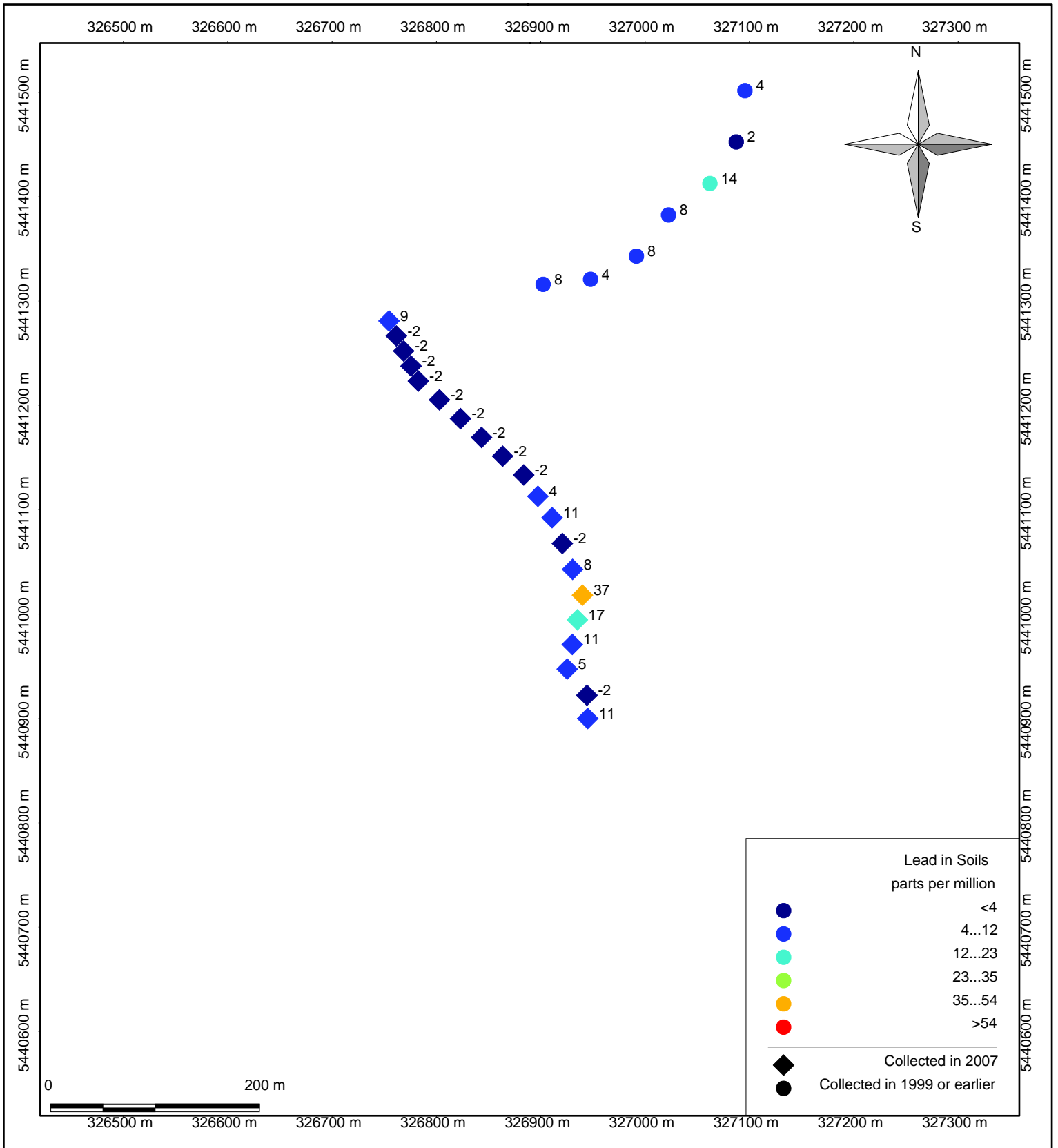
None of the soils sampled in 2007 stand out for their lead content.



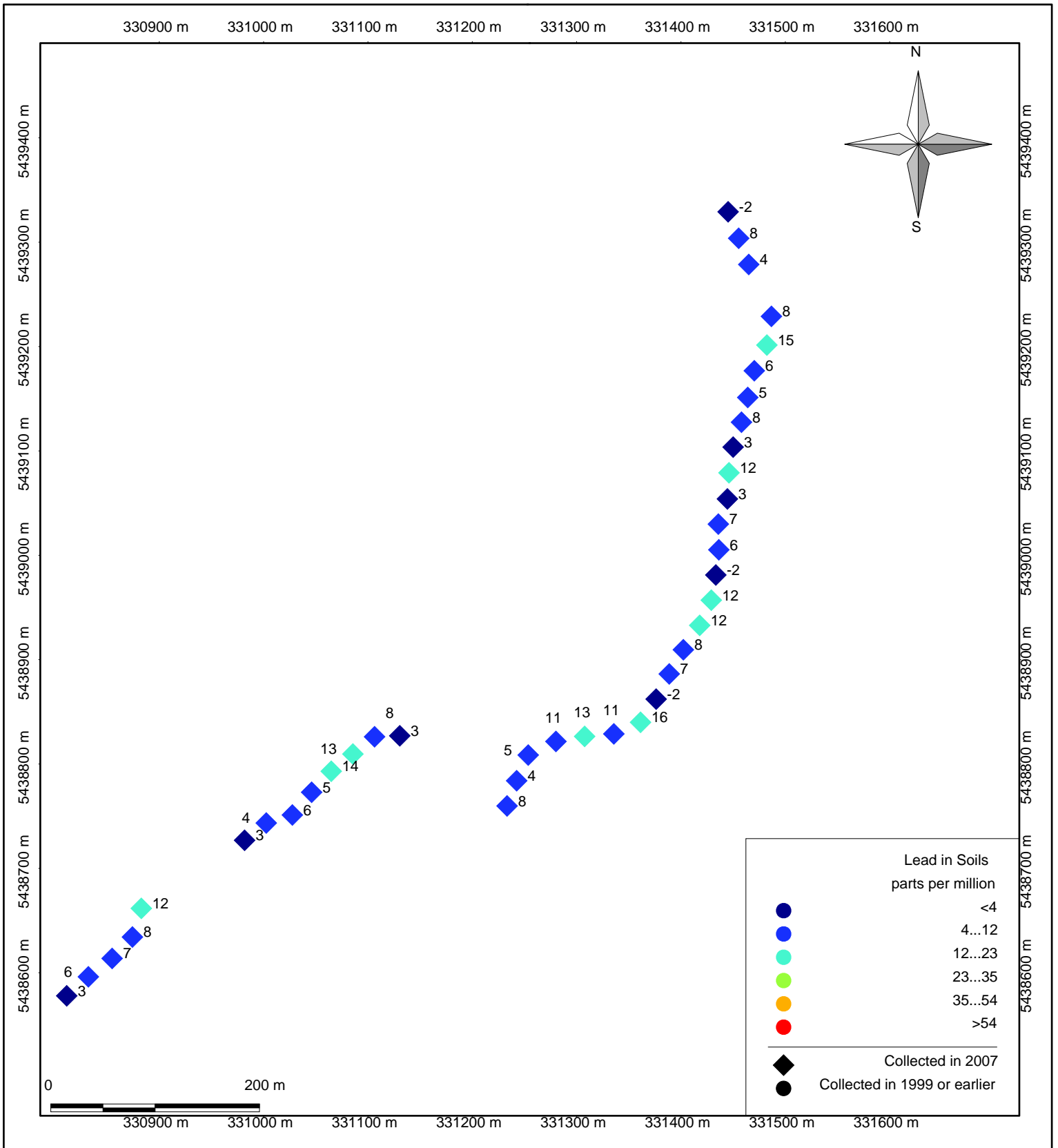
Lucky Project	Drawn By: PAR	Soil Geochemistry Lead Overview	BC Albers Projection	Figure: 16
Electrum Resource Corp.	Data Sources: The MapPlace Electrum Resource Corp.		Scale: 1:50,000	revised 14-Jul-08



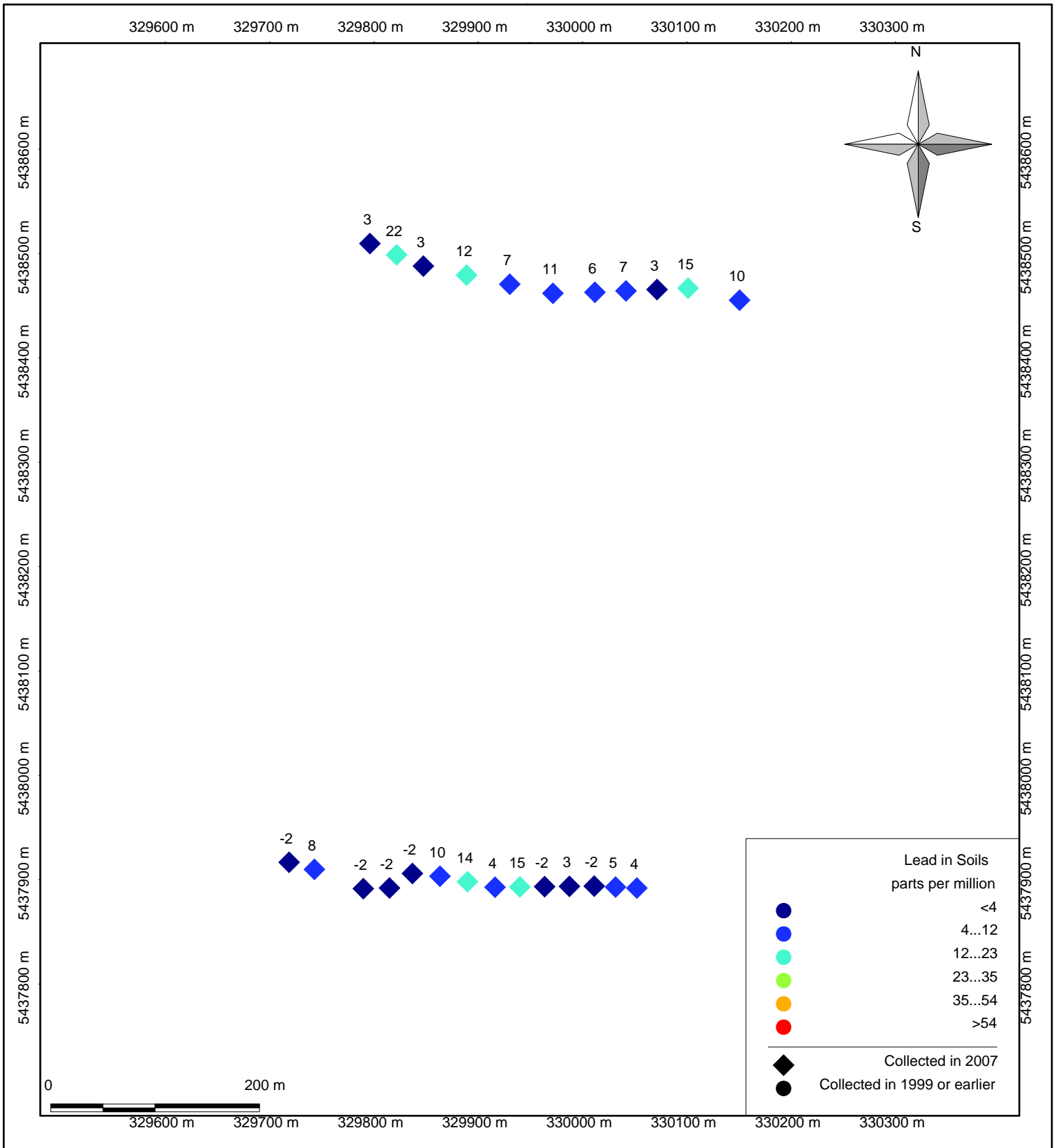
Lucky Project	Drawn By: PAR	Soil Geochemistry Lead Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 17
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



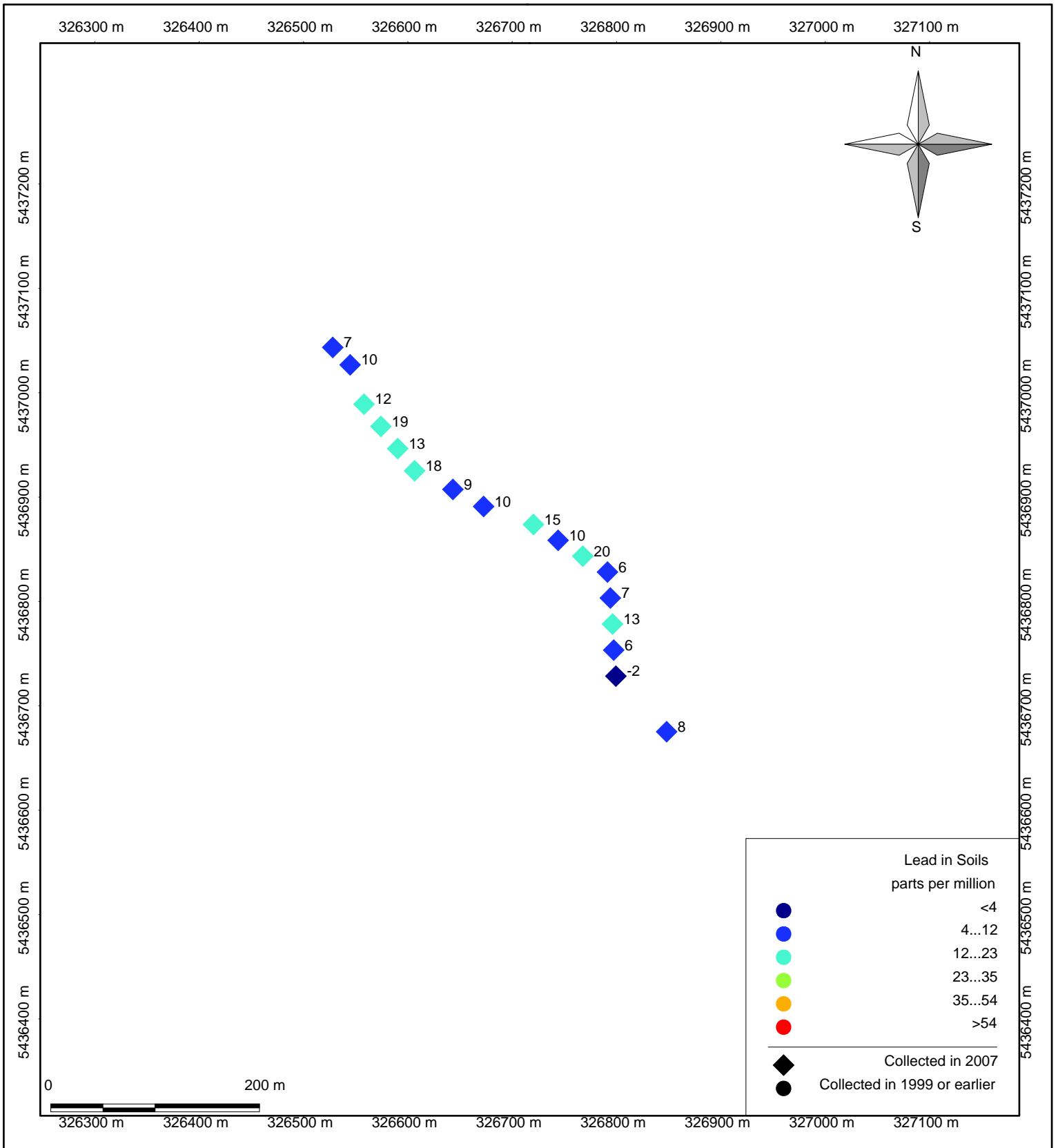
Lucky Project	Drawn By: PAR	Soil Geochemistry Lead Detail Tenure 548416	UTM Projection Based on NAD 83	Figure: 18
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Lead Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 19
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Lead Detail	UTM Projection Based on NAD 83	Figure: 20
Electrum Resource Corp.	Data Source: Electrum		Tenures 518020 548397	Scale: 1:5,000



Lucky Project	Drawn By: PAR	Soil Geochemistry Lead Detail Tenure 548402	UTM Projection Based on NAD 83	Figure: 21
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



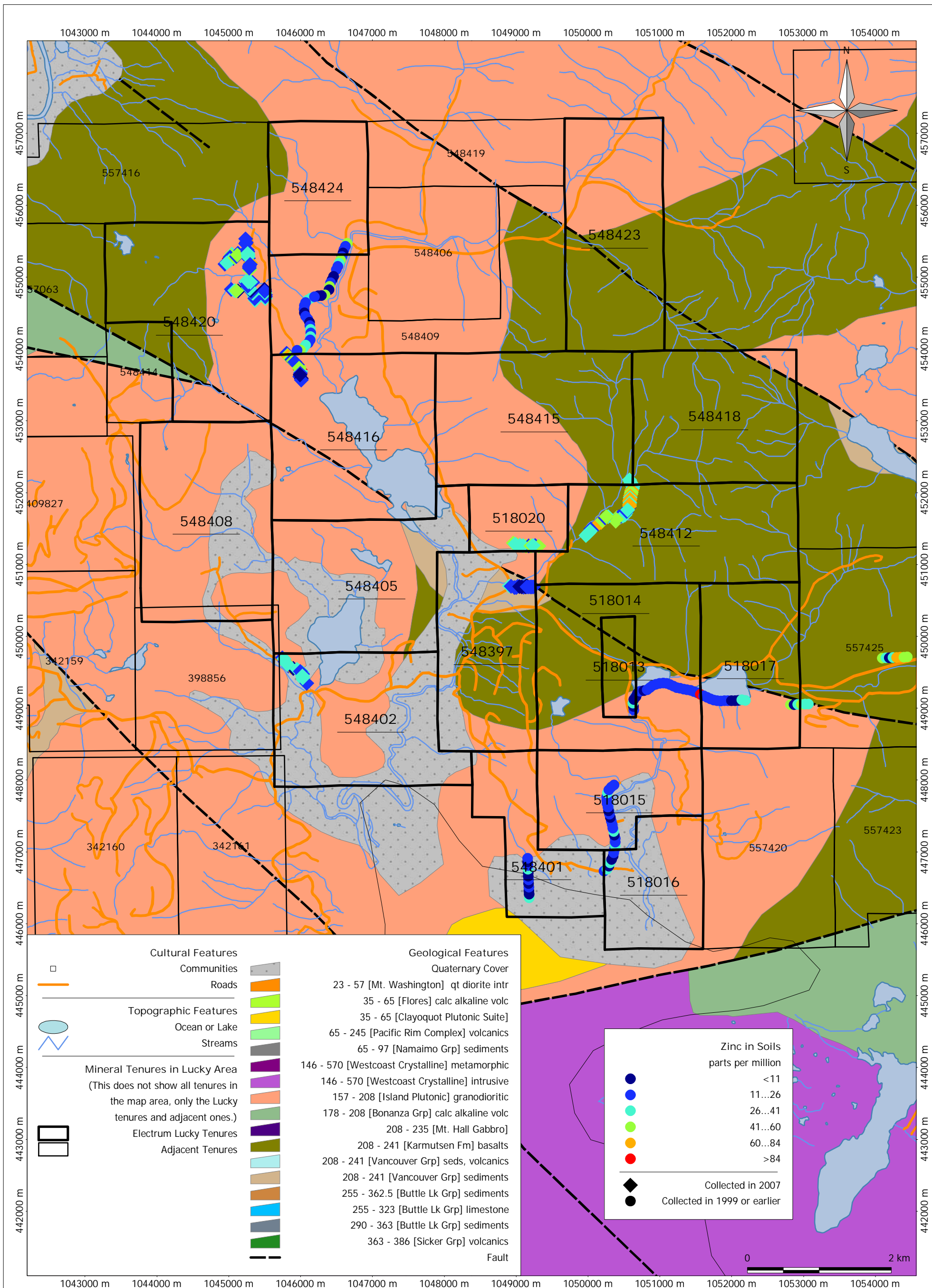
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for Electrum Resource Corporation

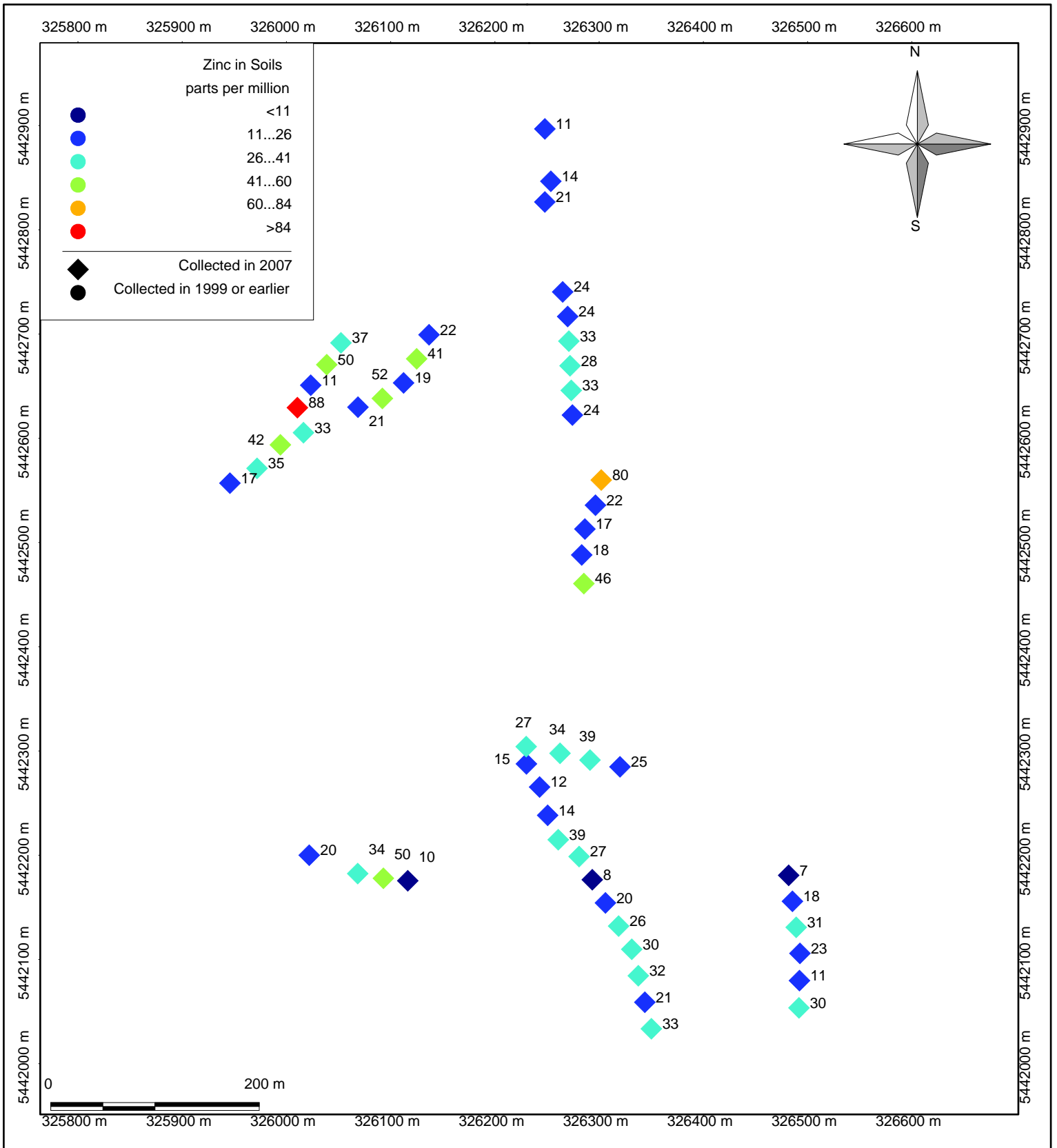
d) Zinc in Soils

(Figure 22 through Figure 27)

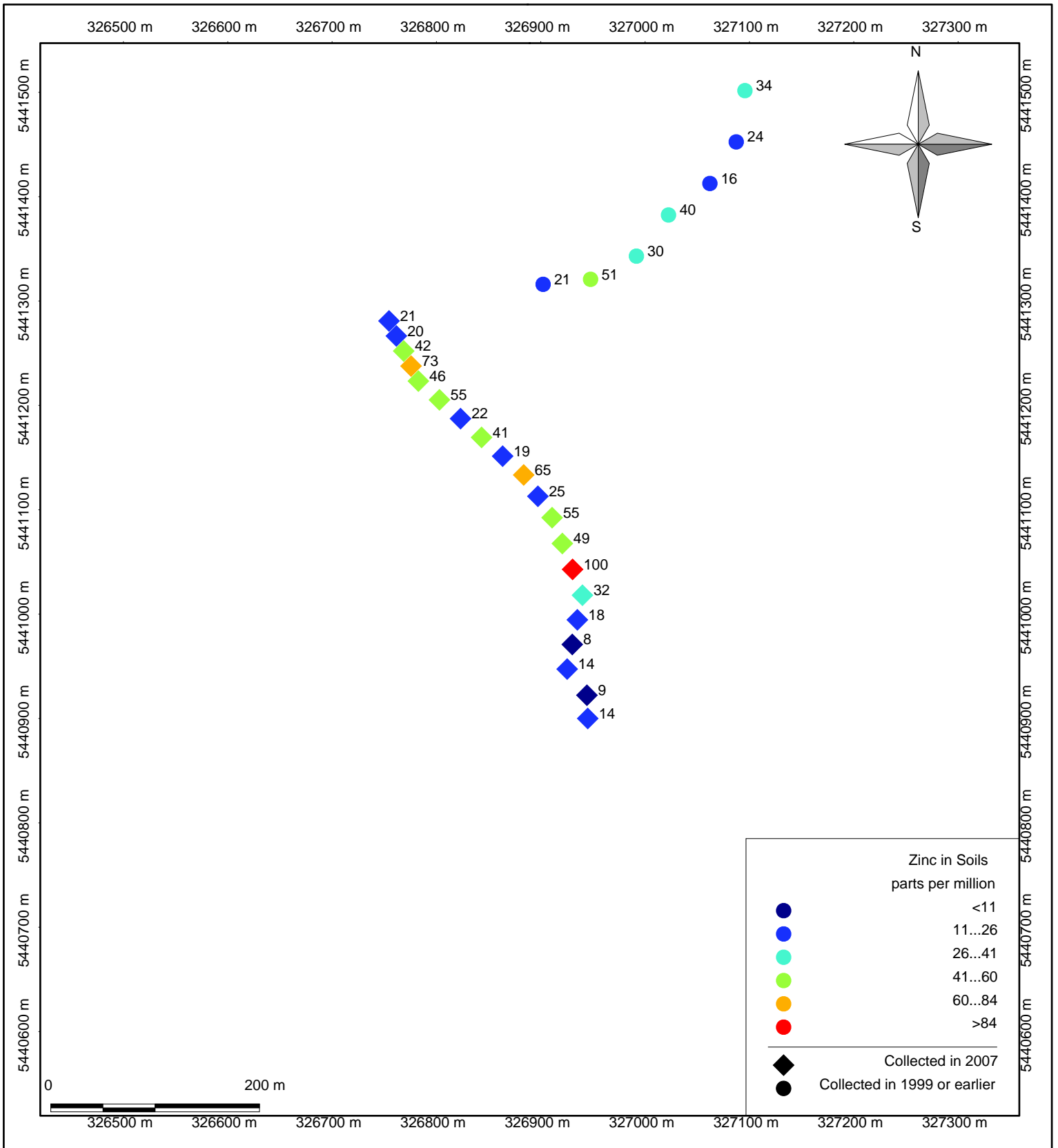
Zinc, relatively mobile in soils, has scattered high values throughout the area sampled. The most consistent grouping of higher values is in the same area as that for copper, in the north-central part of claim 548412.



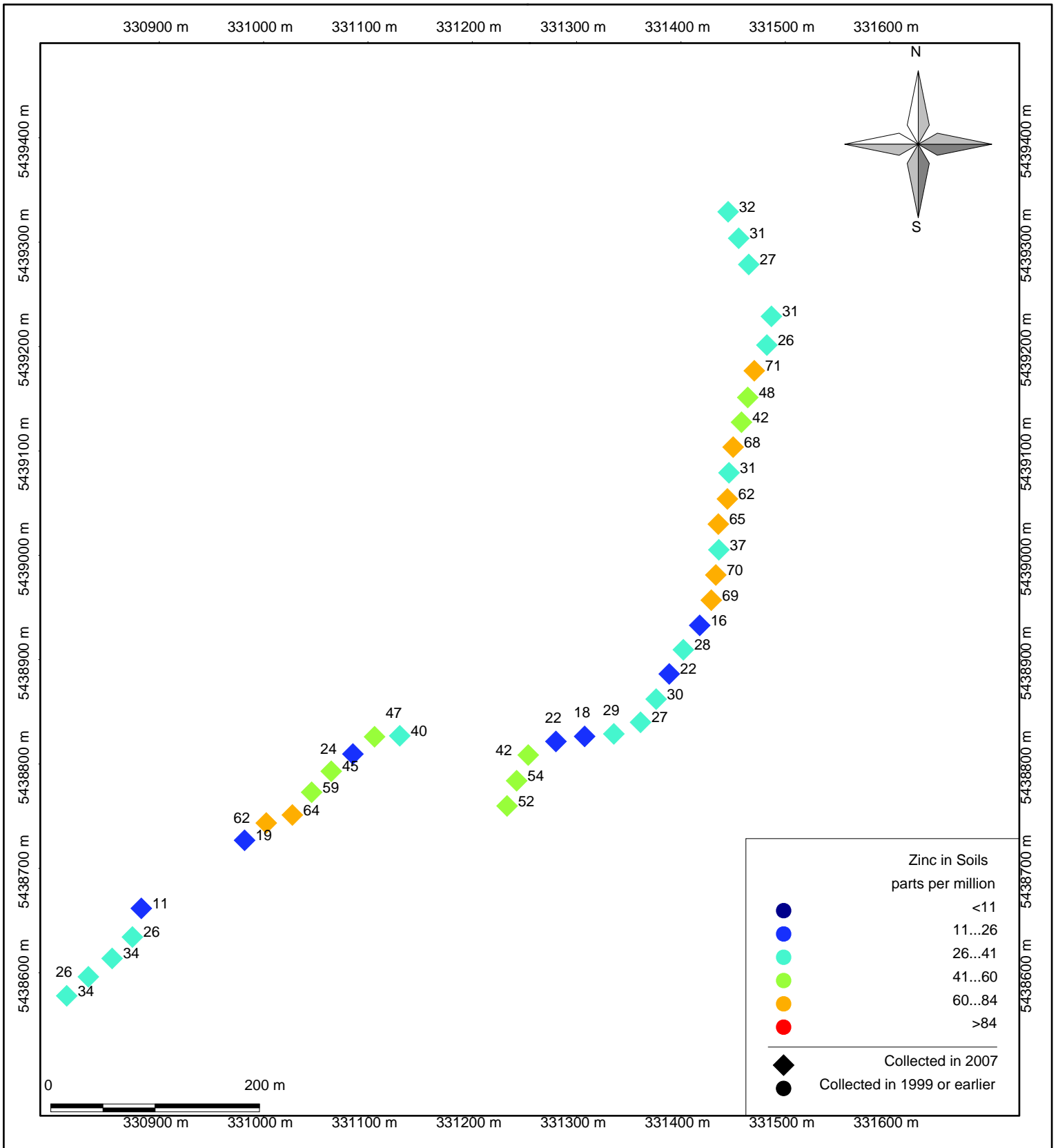
Lucky Project	Drawn By: PAR	Soil Geochemistry Zinc Overview	BC Albers Projection	Figure: 22
Electrum Resource Corp.	Data Sources: The MapPlace Electrum Resource Corp.		Scale: 1:50,000	revised 14-Jul-08



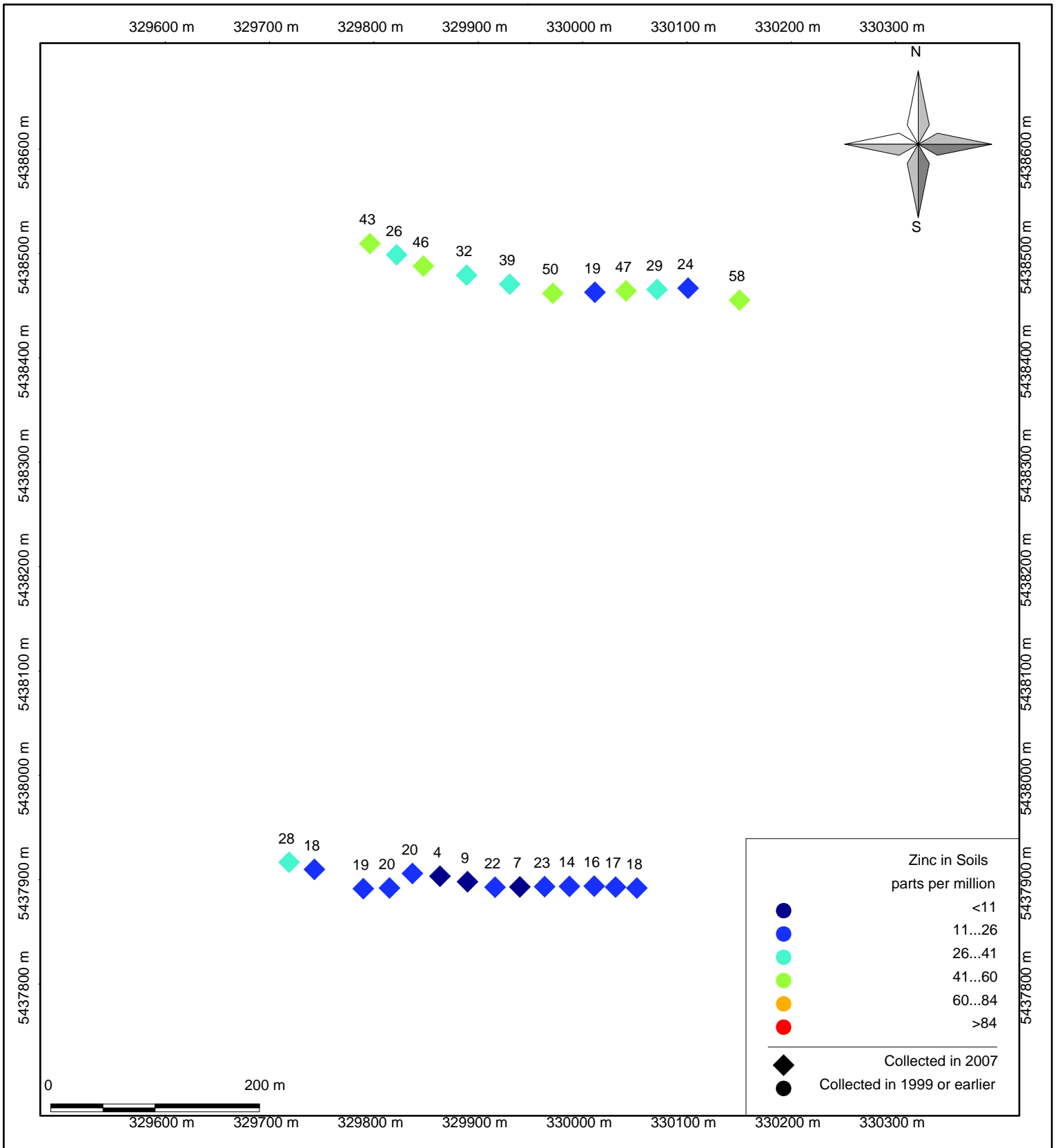
Lucky Project	Drawn By: PAR	Soil Geochemistry Zinc Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 23
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



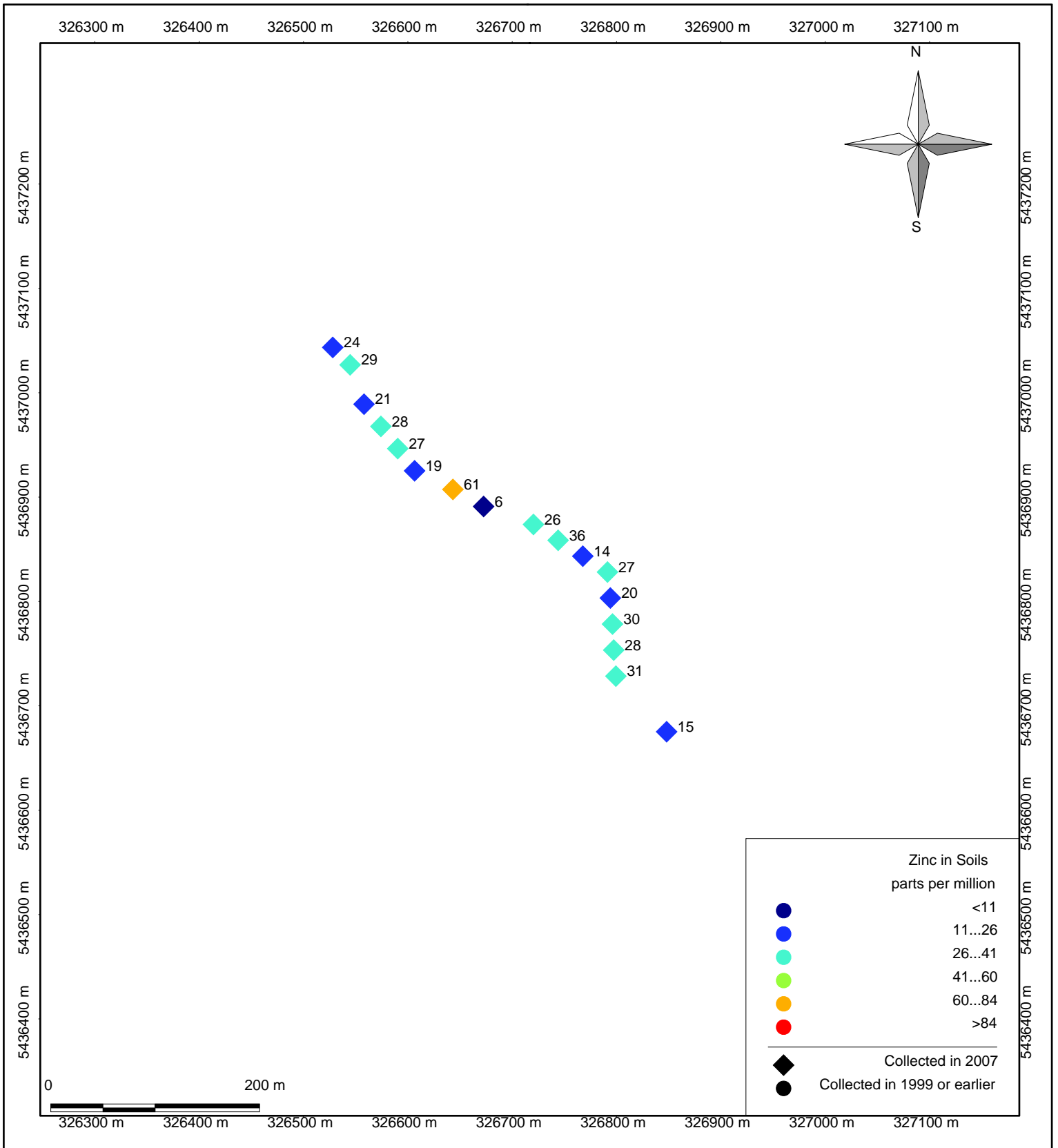
Lucky Project	Drawn By: PAR	Soil Geochemistry Zinc Detail Tenure 548416	UTM Projection Based on NAD 83	Figure: 24
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Zinc Detail Tenure 548412	UTM Projection Based on NAD 83	Figure: 25
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Zinc Detail	UTM Projection Based on NAD 83	Figure: 26
Electrum Resource Corp.	Data Source: Electrum		Tenures 518020 548397	Scale: 1:5,000



Lucky Project	Drawn By: PAR	Soil Geochemistry Zinc Detail Tenure 548402	UTM Projection Based on NAD 83	Figure: 27
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



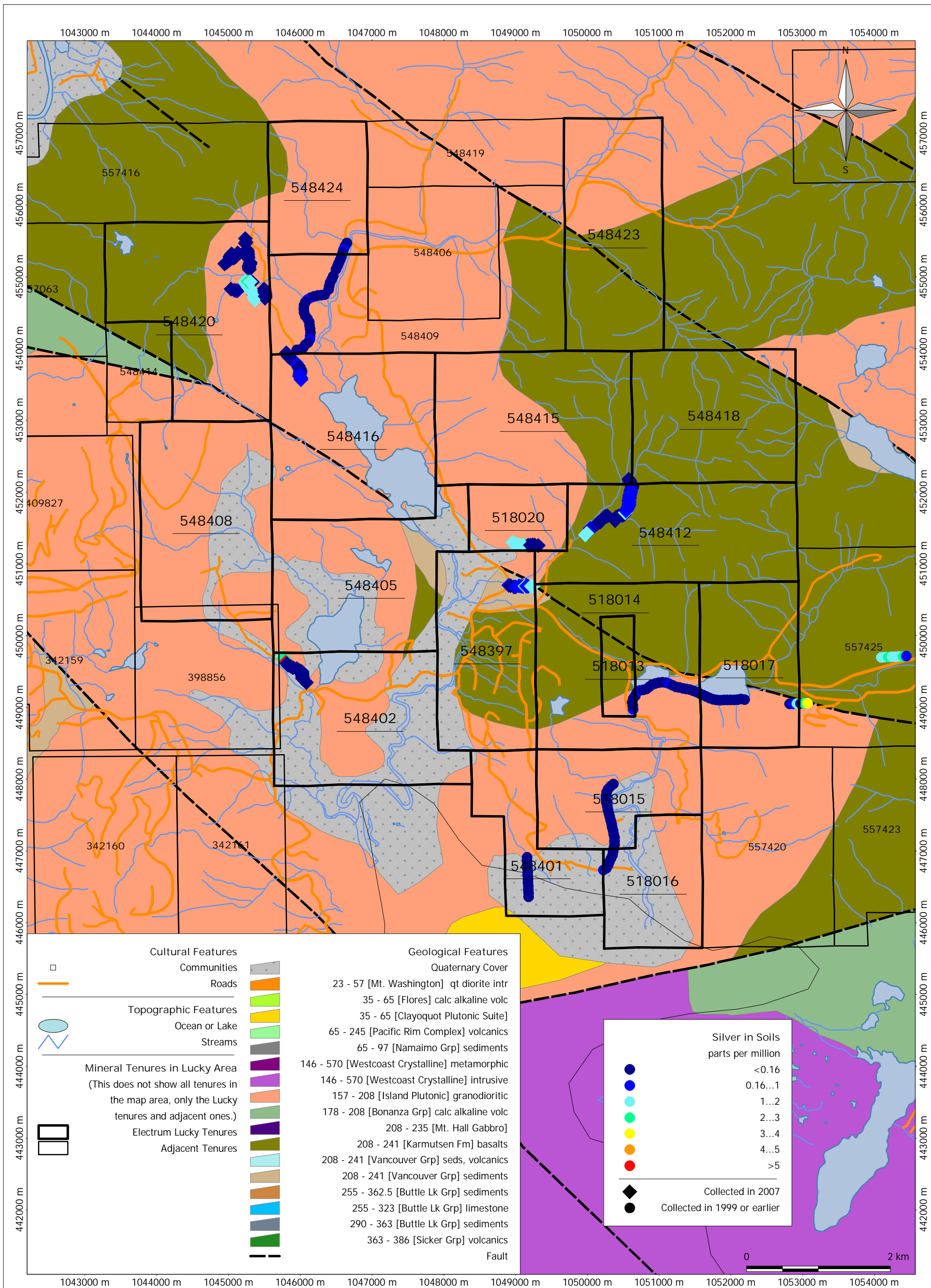
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for Electrum Resource Corporation

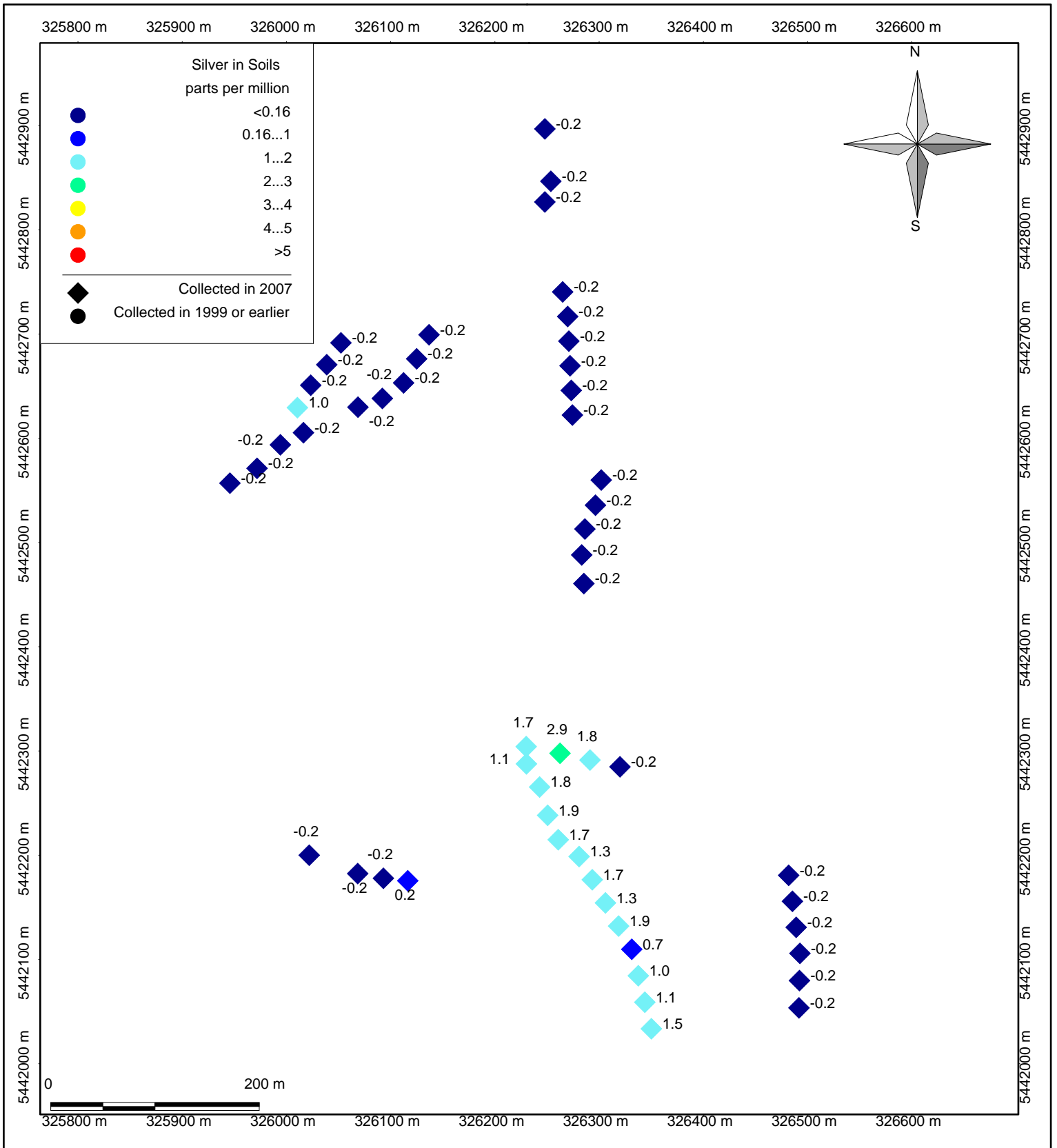
e) Silver in Soils*(Figure 28 through Figure 39)*

None of the areas sampled in 2007 have outstanding silver values in soils. There is one cluster of consistently higher silver values near the eastern edge of claim 548420 (Figure 23). In a line containing 16 soil samples, 14 contain 1 ppm silver or higher. This line warrants a follow-up examination by a geologist to see if there is any discernible reason for the consistently higher silver values.

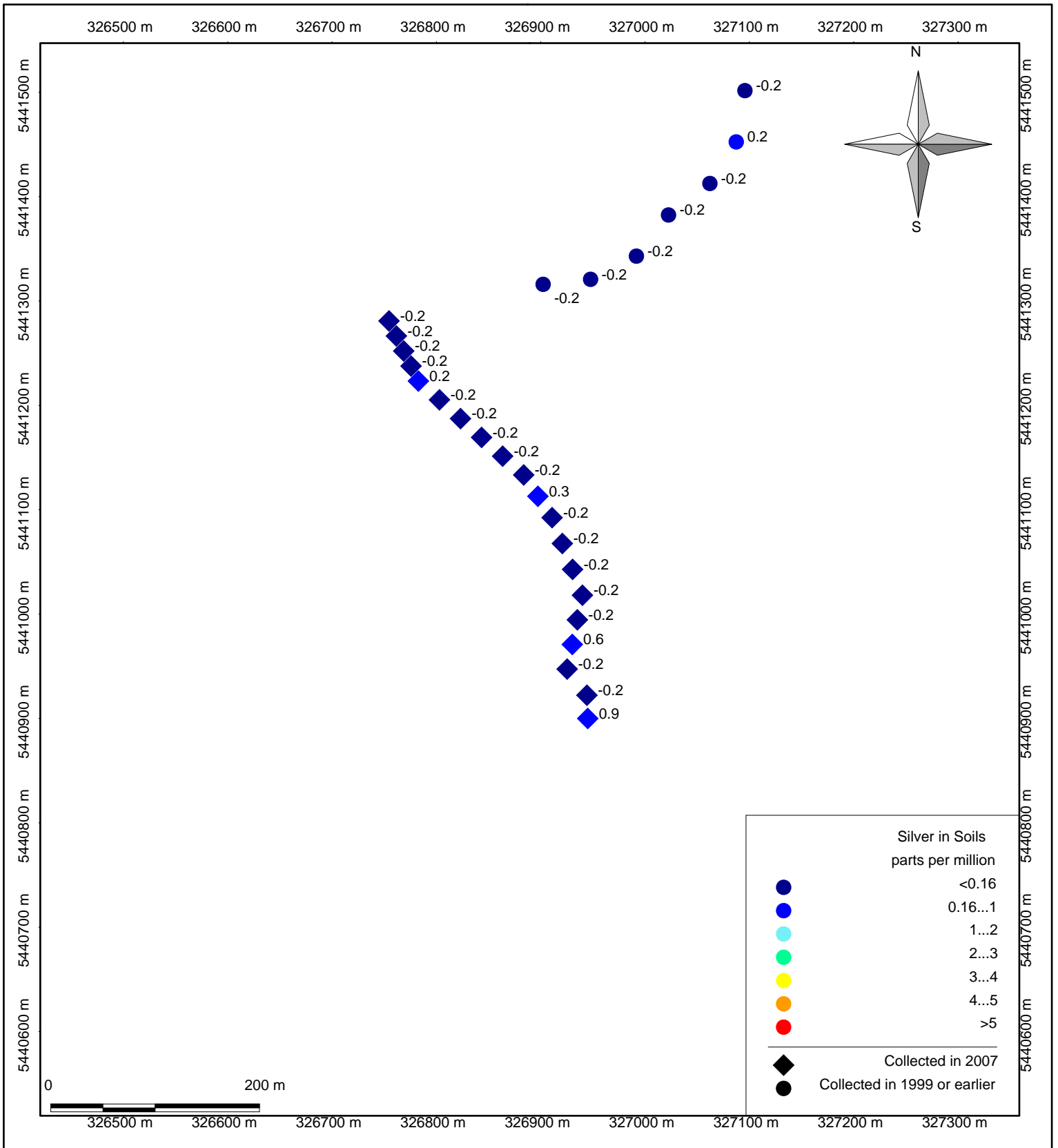
Near the south edge of claim 518020 (Figure 32), the six westernmost samples on the line all have silver values of 1 ppm or more. This area too warrants a field examination.



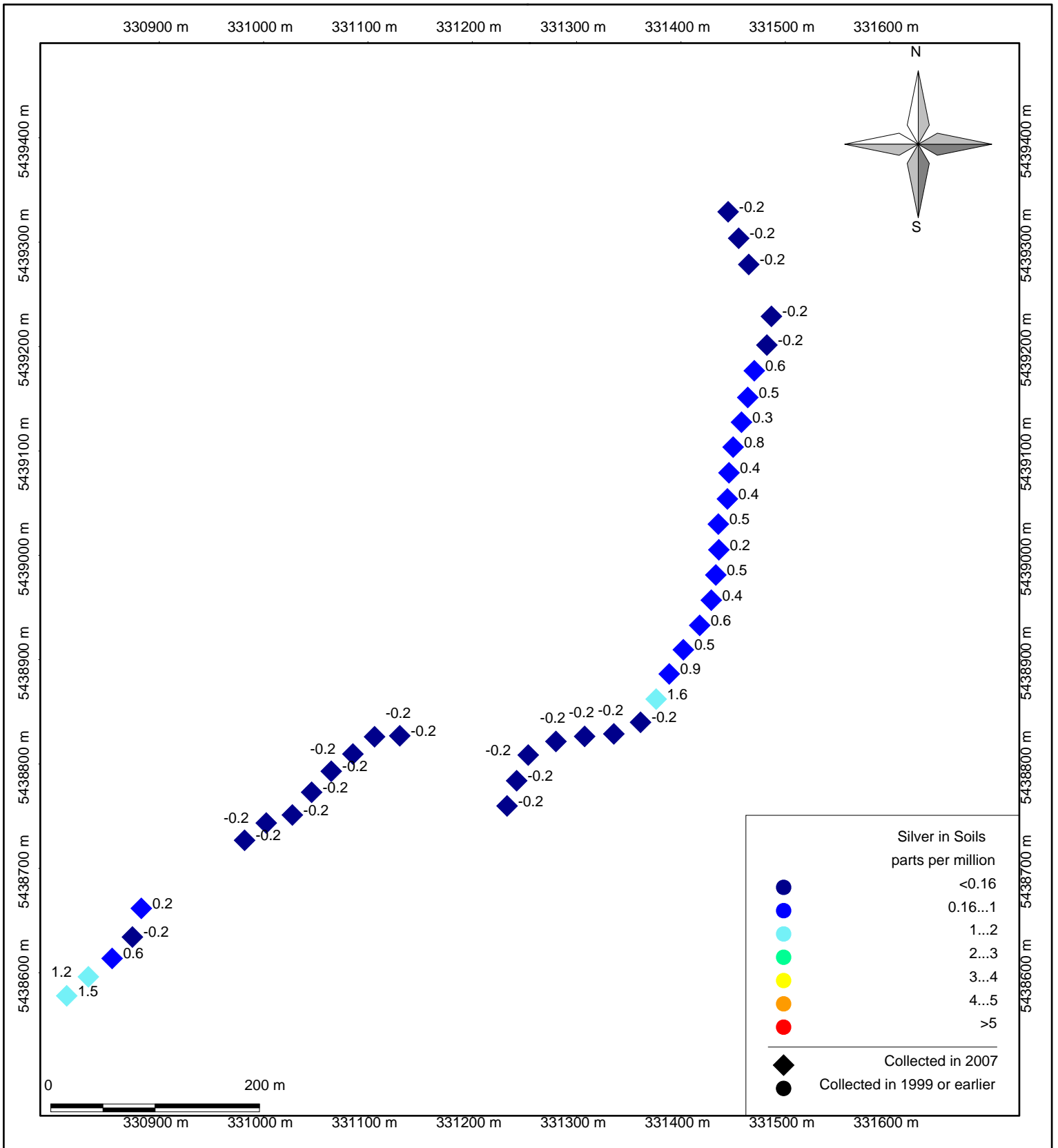
Lucky Project	Drawn By: PAR	Soil Geochemistry Silver Overview	BC Albers Projection	Figure: 28
Electrum Resource Corp.	Data Sources: The MapPlace Electrum Resource Corp.		Scale: 1:50,000	revised 14-Jul-08



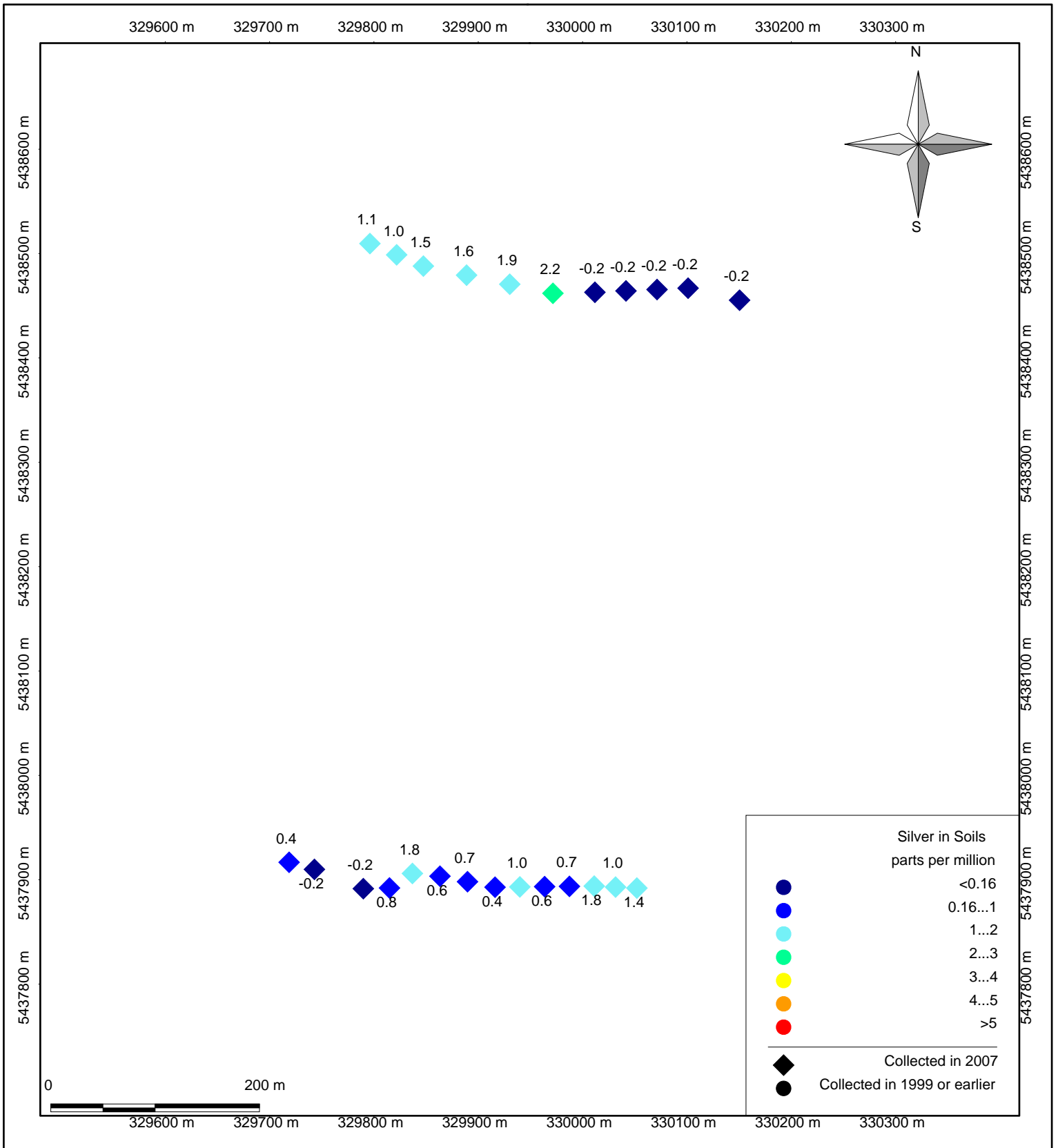
Lucky Project	Drawn By: PAR	Soil Geochemistry Silver Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 29
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



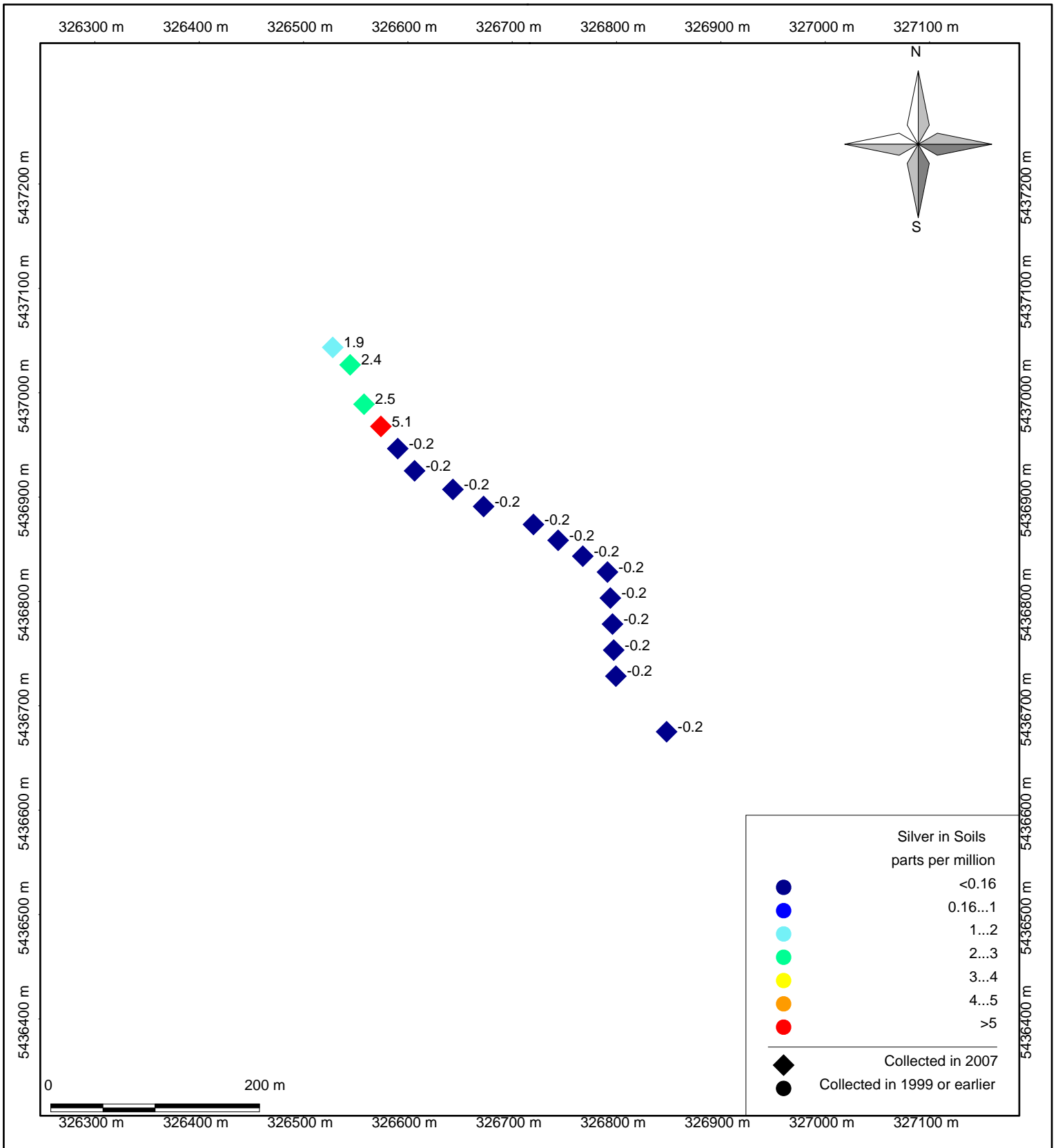
Lucky Project	Drawn By: PAR	Soil Geochemistry Silver Detail Tenure 548416	UTM Projection Based on NAD 83	Figure: 30
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Silver Detail Tenure 548412	UTM Projection Based on NAD 83	Figure: 31
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Silver Detail Tenures 518020 548397	UTM Projection Based on NAD 83	Figure: 32
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Silver Detail Tenure 548402	UTM Projection Based on NAD 83	Figure: 33
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



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for Electrum Resource Corporation

f) Arsenic in Soils

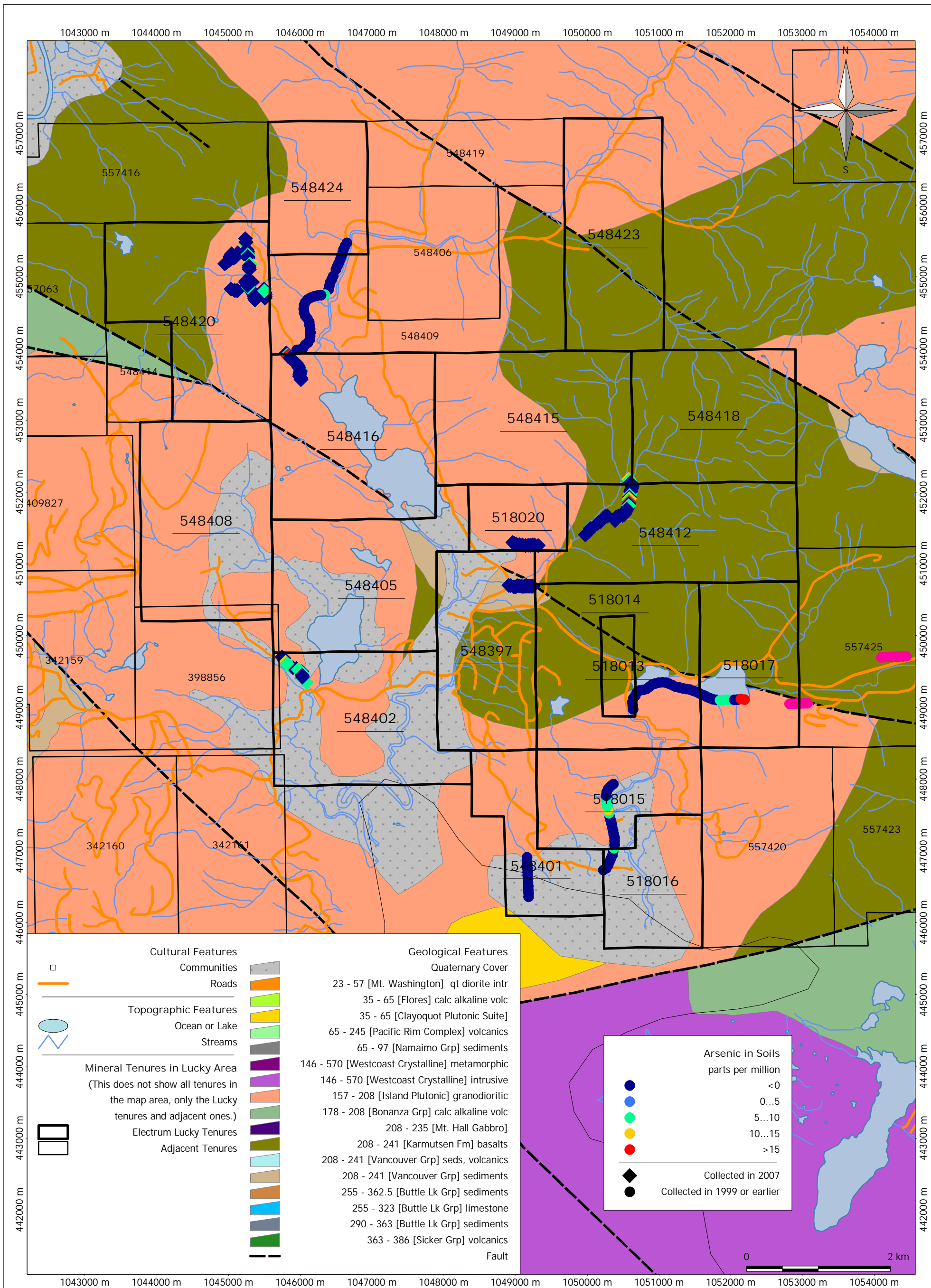
(Figure 34 through Figure 39)

Arsenic is not a metal of potential economic interest on the Lucky Project, but it can be an indicator element suggesting the presence of mineralization that may contain other metals. Large concentrations of arsenic can be deleterious to the economics of some mineral deposits.

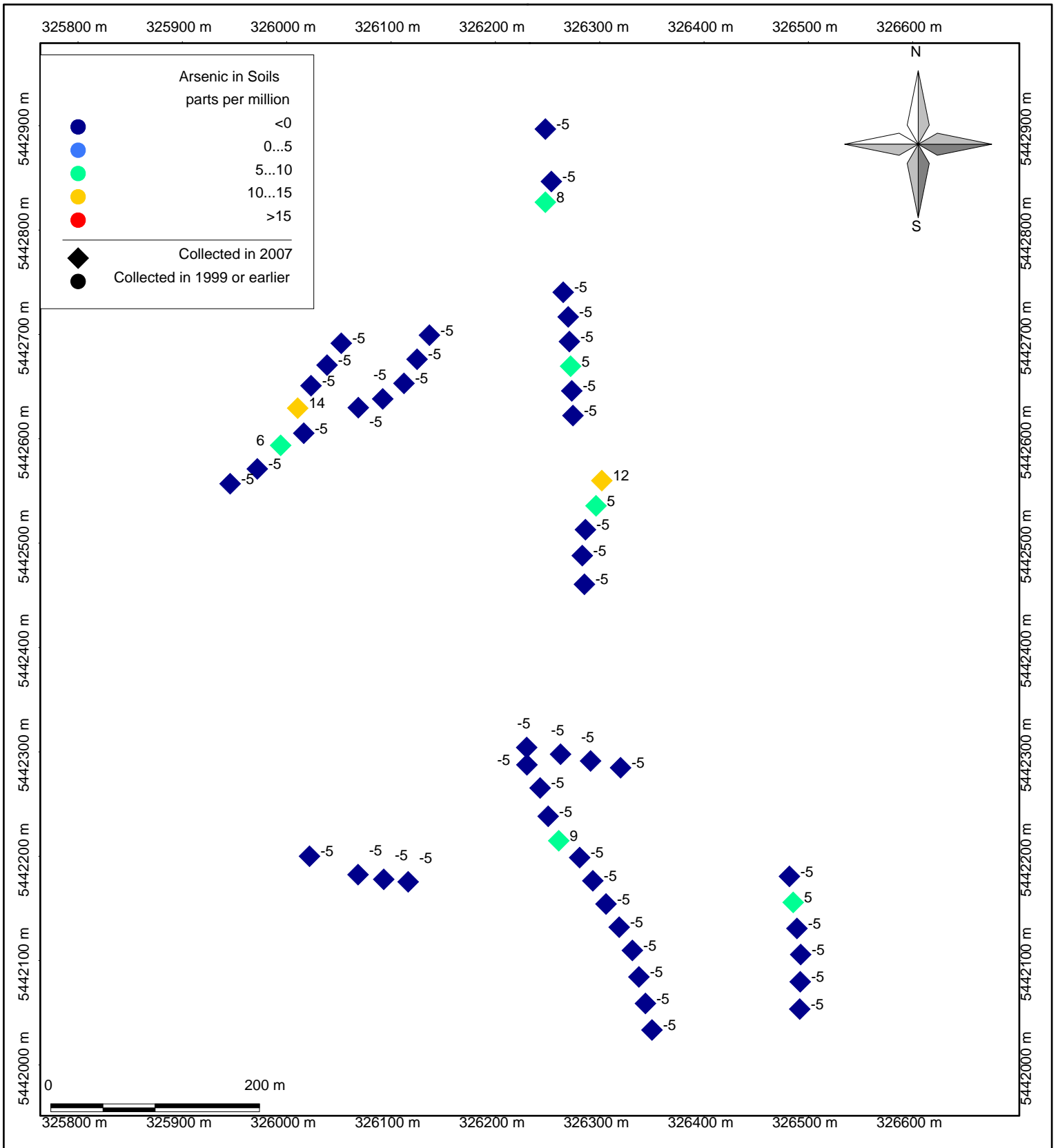
Arsenic concentrations in the Lucky soils are not very high. Twenty-eight of the 154 samples collected in 2007 contained arsenic at or above the 5 ppm As detection limit; the remainder were below the limit. In the compilation of soil samples from 2007 and prior years, 268 samples have arsenic analyses available, of which 41 are at or above the detection limit. The highest arsenic analysis from a soil sample is 55 ppm As.

Even though the arsenic concentrations are not very high, the relatively higher concentrations do tend to cluster in two areas. One is in the north-central part of claim 54812, roughly coincident with the higher copper and zinc values. There, eight out of fifteen samples contained detectable arsenic, with the highest concentration being 38 ppm A.

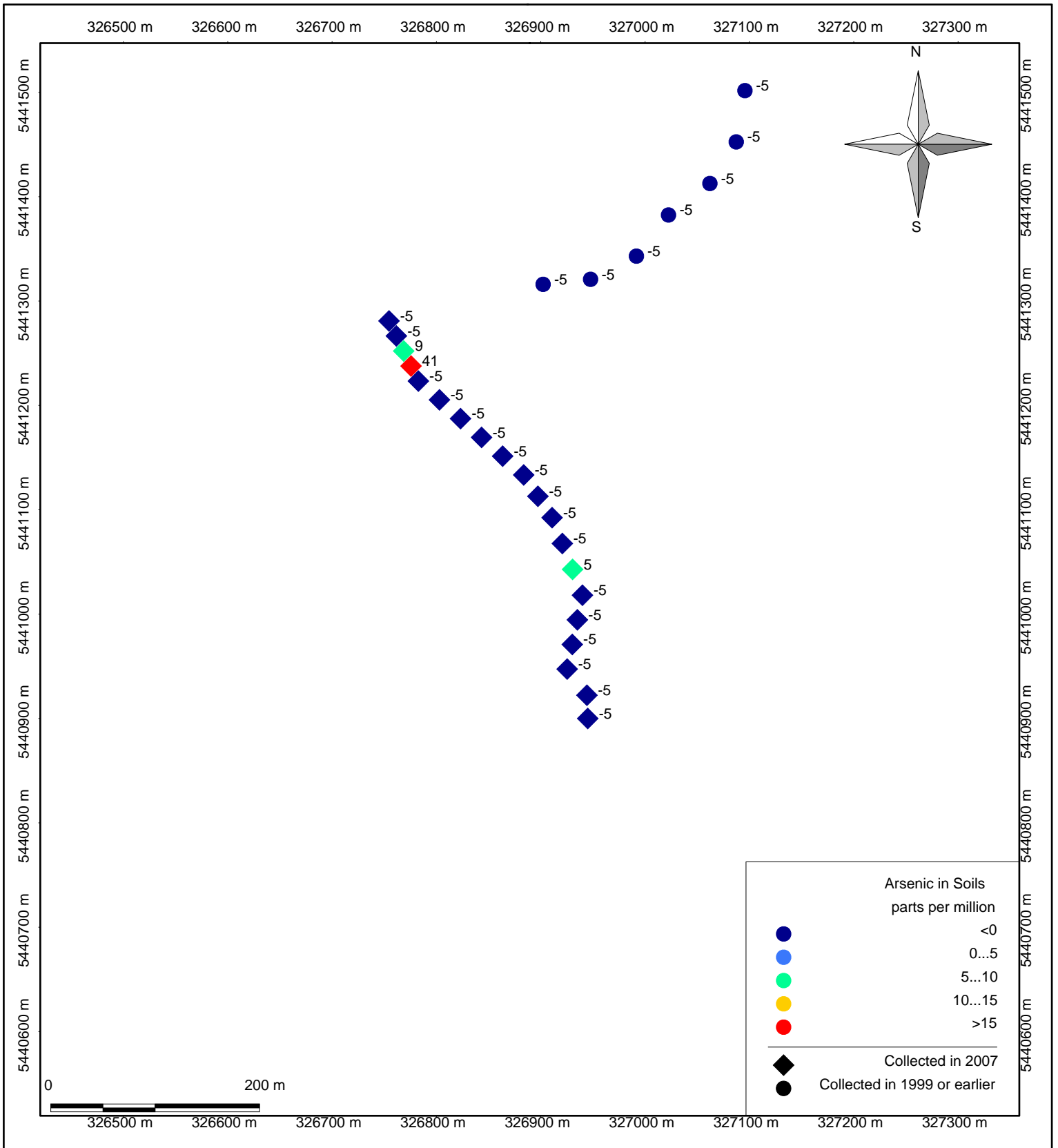
The other cluster of relatively higher arsenic values is along the road in the northwest corner of claim 548402, where a line of seventeen soil samples yielded nine samples containing detectable arsenic, with the highest concentration being 10 ppm As.



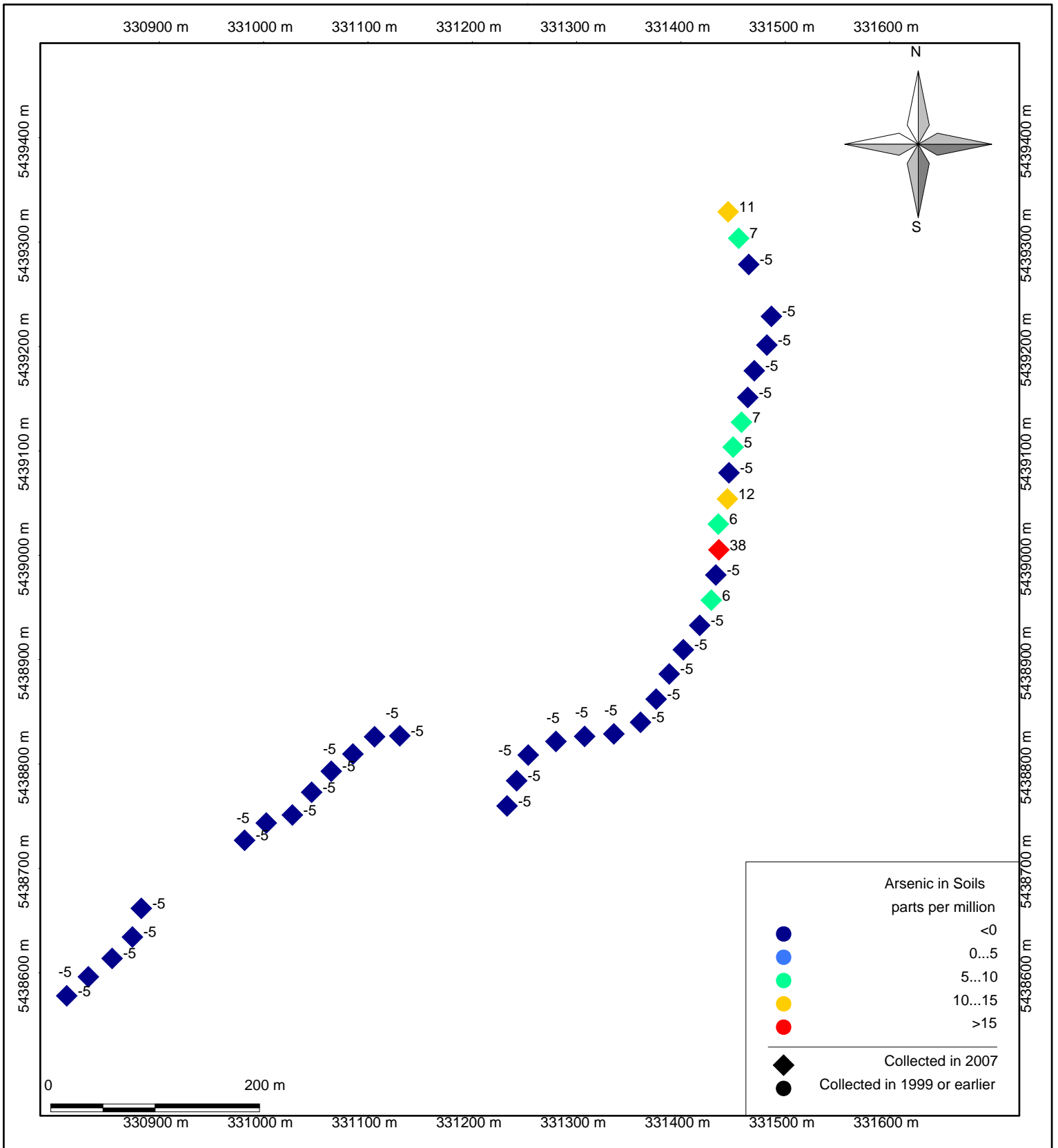
Lucky Project	Drawn By: PAR	Soil Geochemistry Arsenic Overview	BC Albers Projection	Figure: 34
Electrum Resource Corp.	Data Sources: The MapPlace Electrum Resource Corp.		Scale: 1:50,000	revised 14-Jul-08



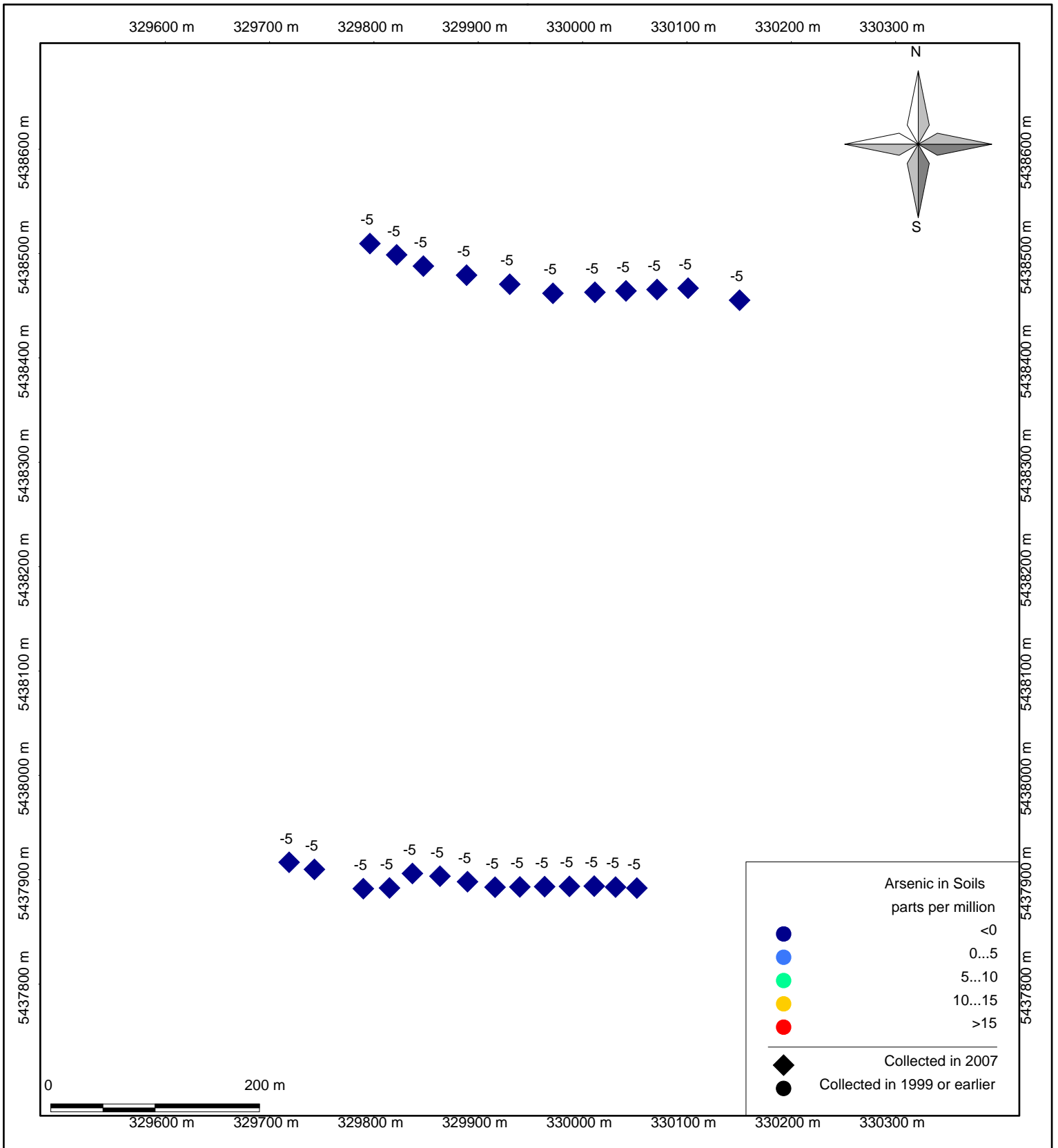
Lucky Project	Drawn By: PAR	Soil Geochemistry Arsenic Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 35
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



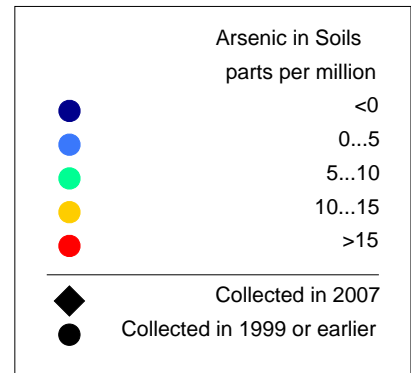
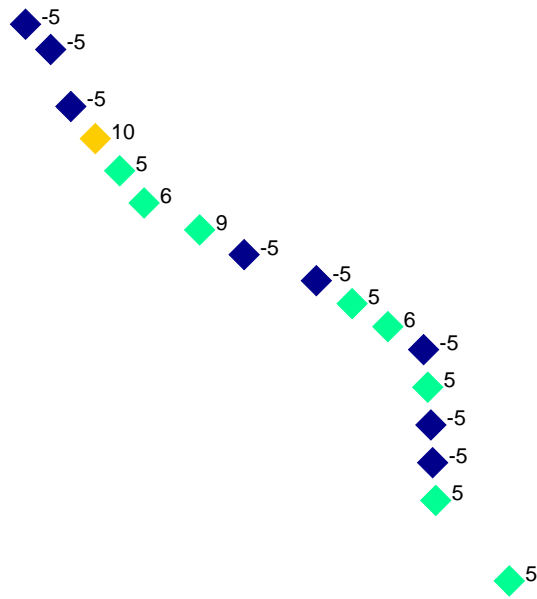
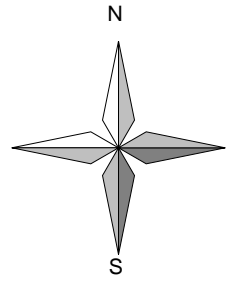
Lucky Project	Drawn By: PAR	Soil Geochemistry Arsenic Detail Tenure 548416	UTM Projection Based on NAD 83	Figure: 36
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



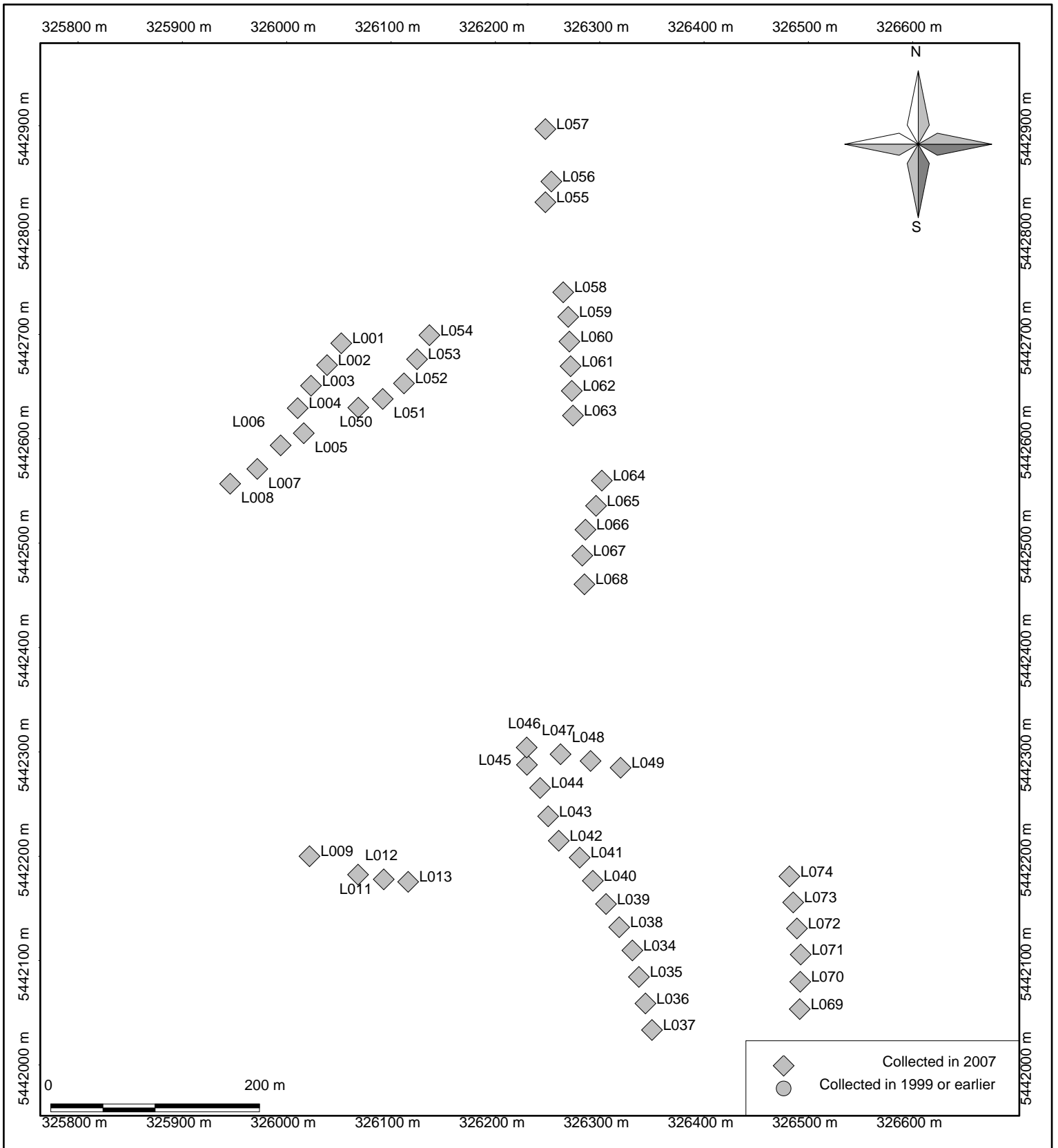
Lucky Project	Drawn By: PAR	Soil Geochemistry Arsenic Detail Tenure 548412	UTM Projection Based on NAD 83	Figure: 37
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



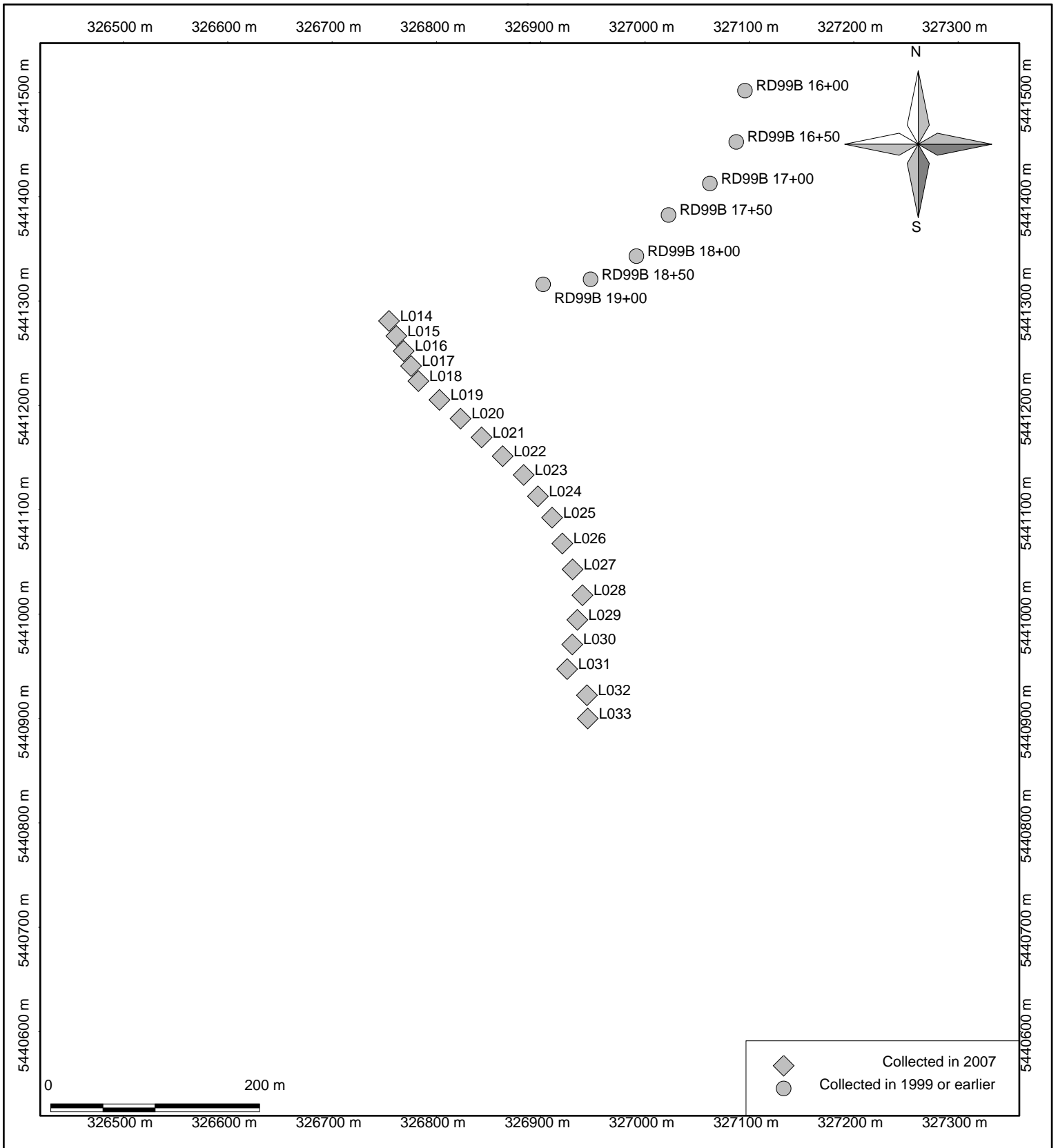
Lucky Project	Drawn By: PAR	Soil Geochemistry Arsenic Detail	UTM Projection Based on NAD 83	Figure: 38
Electrum Resource Corp.	Data Source: Electrum		Tenures 518020 548397	Scale: 1:5,000



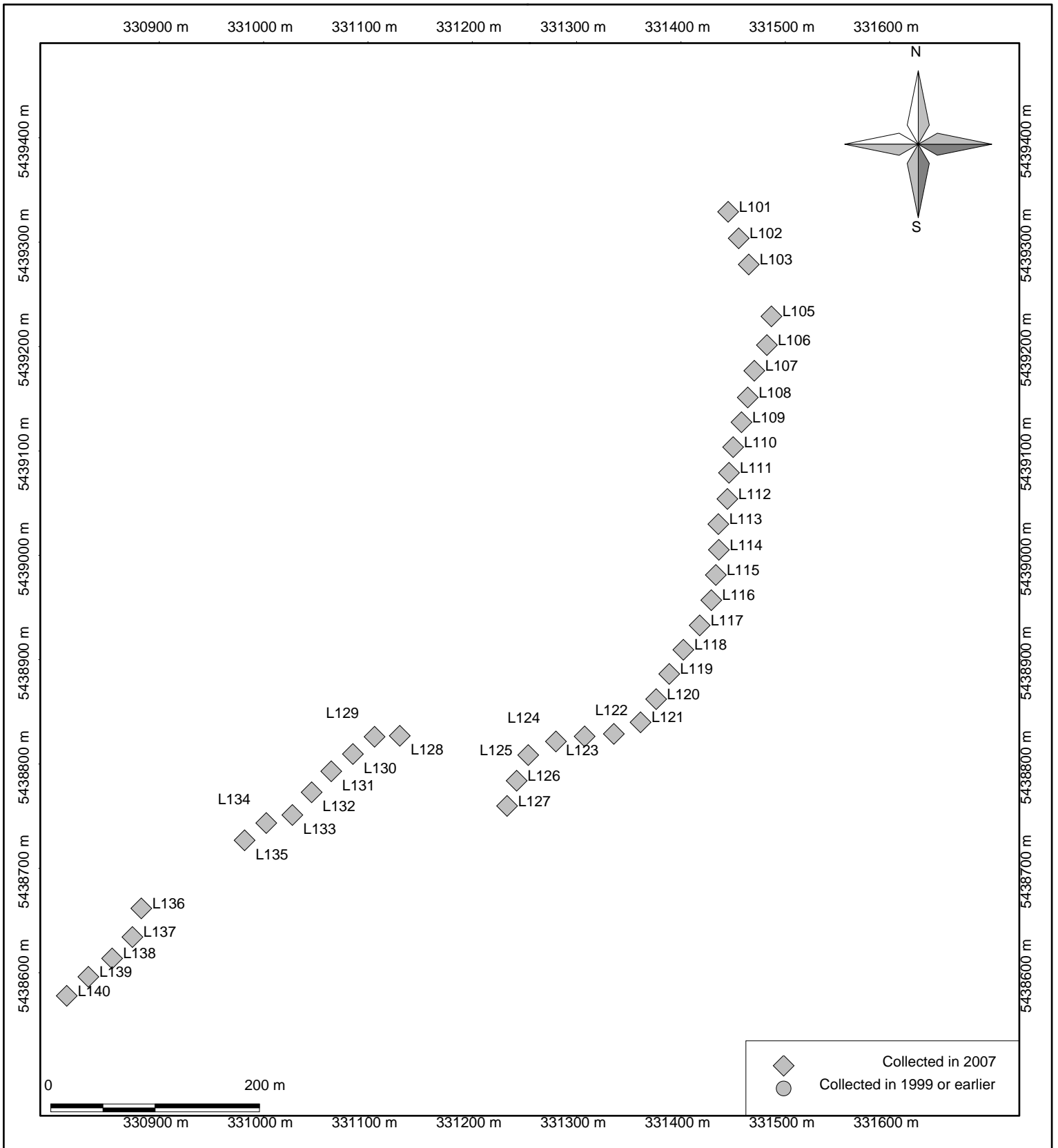
Lucky Project	Drawn By: PAR	Soil Geochemistry Arsenic Detail Tenure 548402	UTM Projection Based on NAD 83	Figure: 39
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



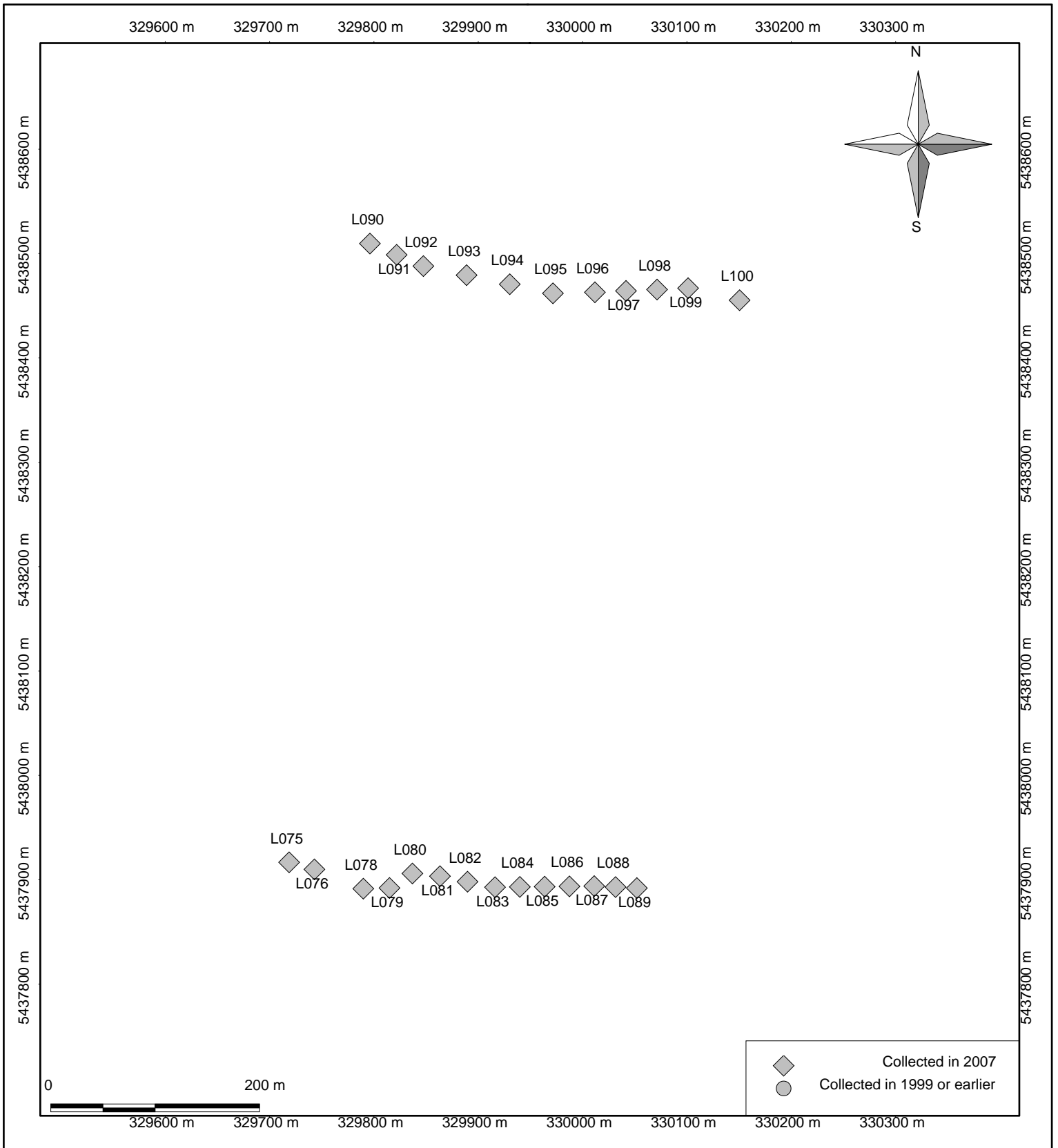
Lucky Project	Drawn By: PAR	Soil Geochemistry Sample ID Detail Tenure 548420	UTM Projection Based on NAD 83	Figure: 40
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



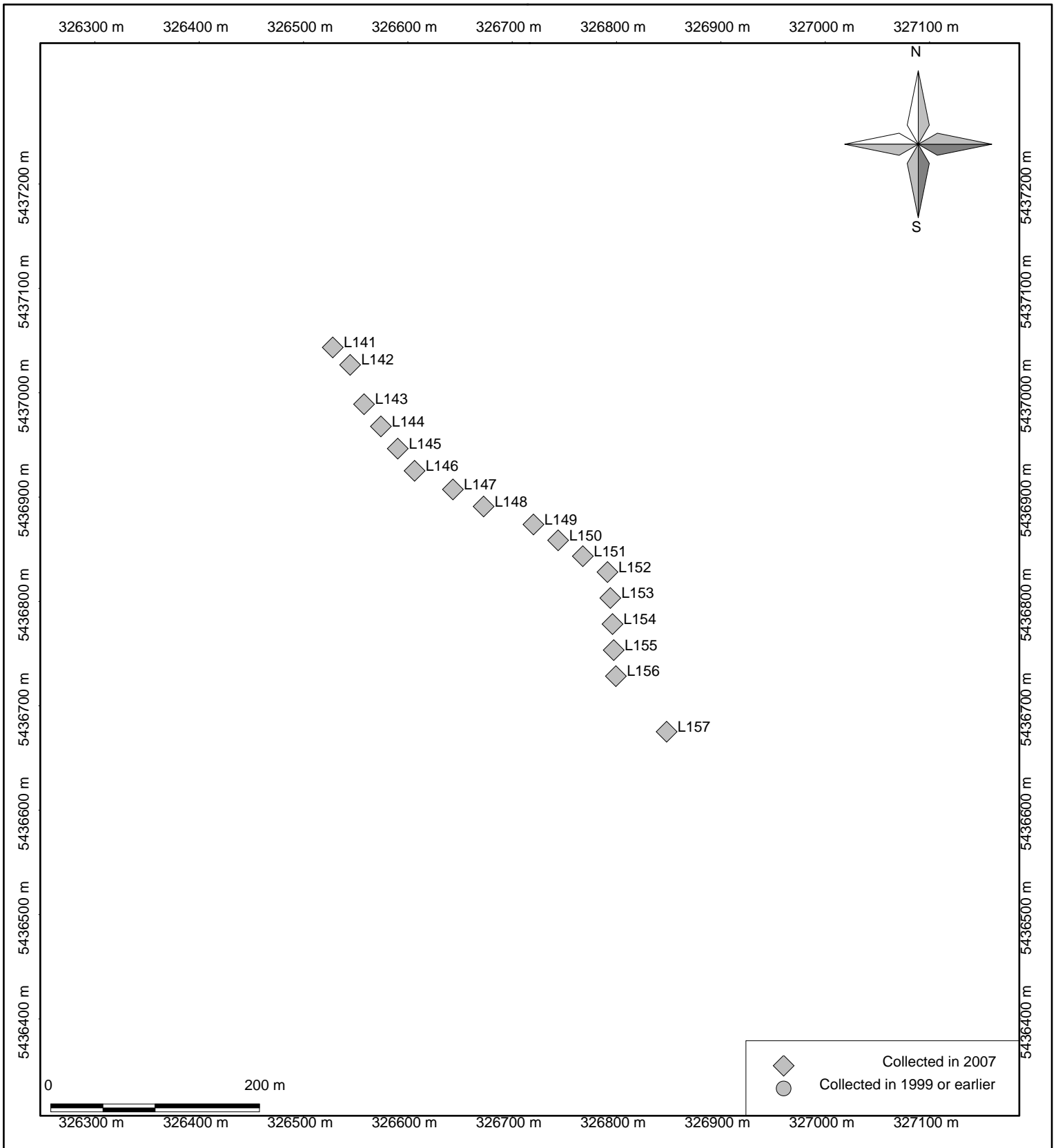
Lucky Project	Drawn By: PAR	Soil Geochemistry Sample ID Detail Tenure 548416	UTM Projection Based on NAD 83	Figure: 41
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Sample ID Detail Tenure 548412	UTM Projection Based on NAD 83	Figure: 42
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



Lucky Project	Drawn By: PAR	Soil Geochemistry Sample ID Detail	UTM Projection Based on NAD 83	Figure: 43
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08
		Tenures 518020 548397		



Lucky Project	Drawn By: PAR	Soil Geochemistry Sample ID Detail Tenure 548402	UTM Projection Based on NAD 83	Figure: 44
Electrum Resource Corp.	Data Source: Electrum		Scale: 1:5,000	06-Jan-08



2. Discussion of Rock Sample Results

The six rock samples that were analyzed were collected from two sites close to each other near the boundary between claims 518020 and 548397. They were grab samples collected by the soil samplers in passing, because the rocks looked interesting. The complete results appear in Appendix 3.

Only one of the rock samples contained notable metal values. That was number LR054B, collected near the northeast corner of claim 548397, between two lines of soil samples. The samplers described the rock as containing cubic-shaped sulphide crystals. The analysis yielded 119 ppm arsenic and 30 ppb gold. The gold value is far from being of economic interest, but at least indicates the presence of detectable gold, associated with arsenic.

VI. Conclusions and Recommendations

The Lucky Project area contains numerous showings, including the Lucky Vein itself, and a number of less well-known veins containing copper and gold mineralization.

The most intriguing area is west of the bend in the Toquart River north of Toquart Lake, on the claims numbered 548416 and 548420. Tuffs and tuff breccias exposed in road cuts in the area are rich in disseminated pyrite. The failure so far to discover in-situ base or precious metal mineralization is discouraging. However, new logging road access continues to be created west of the Toquart River, exposing more and more sulphidized rock. Prospecting should continue as new logging roads are opened up.

From time to time during and since the 1990s the Nugget Creek area has attracted some exploration interest because of small mineralized outcrops and common mineralized float. Logging roads constructed in the late 90s have made the nugget creek area somewhat more accessible, although once off a road the area is extremely rugged and difficult to traverse. Despite the difficulty, the linear cluster of soil samples in the north-central part of claim 548412, containing relatively elevated levels of copper, zinc and arsenic, merits some follow-up. The first step should be an examination of the area by an experienced geologist, to see if a reason for the elevated levels of those metals in soils can be identified. Specific recommendations for additional exploration work would be dependent on the outcome of that examination.

The Lucky Property has a long history of exploration, beginning with work on the Lucky Vein itself in the 1920's. Since the early 1980's a sequence of small exploration programs has generated a steady trickle of exploration data including geochemical, geological and geophysical information. Activity by Consolidated Logan Mines in the period 1995 to 1998 generated a considerable volume of information. Most of the information is to be found in individual reports. In 2000 Ronning recommended in an assessment report that the data generated over the last 20-plus years should be brought together and synthesized, to obtain a clear picture of the present exploration potential. This recommendation still stands.



VII. Bibliography

Bzdel, L.M. and Rockel, E.R.

1991: Report on Induced Polarization, Total Field Magnetic and VLF-EM Surveys on the TOQ and Lucky Claim Groups; unpublished consultant's report by Interpretex Resources Ltd. for Baril Developments Ltd. (*This report is included in Zastavnikovich et al, 1992, listed below*)

Carter, N.C.

1989: Geological Report on the Lucky Property; unpublished consultant's report for Freemont Gold Corporation, Alcove Gold Corporation and Canora Mining Corporation.

1988: Geological Report on the Toquart Bay Property; unpublished consultant's report for Freemont Gold Corporation, Electrum Resource Corporation and Alcove Gold Corporation.

1987: Geological Report on the Lucky Property; unpublished consultant's report for Freemont Gold Corporation.

Chow, Rita

1996: Geological, Geochemical, and Prospecting Report on the Lucky Property; Assessment Report 24,306 for Consolidated Logan Mines Ltd.

1998: Geological Report on the Lucky Property; Assessment Report 25,429 for Consolidated Logan Mines Ltd.

Eccles, Louise

1984: Summary Report on the Wick and Adjoining Claims of Victoria Resource Corporation; unpublished consultant's report.

Massey, N.W.D., MacIntyre, D.G., Desjardins, P.J. and Cooney, R.T.

2005: Digital Geology Map of British Columbia, Release 1. BC Ministry of Energy and Mines, Geological Survey Branch, January 2005.

Northcote, K.E.

1983a: Report on Wick Claim, Lucky Creek - Toquart Bay Area, Vancouver Island; unpublished consultant's report for Victoria Resource Corporation.

1983b: Report on KV, KX, KY and KZ Claims, Lucky Creek - Toquart Bay Area, Vancouver Island; unpublished consultant's report for Victoria Resource Corporation

1992: Untitled petrographic report to Electrum Resource Corporation, on the subject of two samples from the TOQ grid area.

Price, Barry James

1992: Geological Report - Lucky Property; unpublished consultant's report by Rapitan Resources Inc. for Canora Mining Corporation.



Rebic, Z. and Lehtinen, J.

1985: Summary Report - Toquart Bay; unpublished in-house report for Falconbridge Limited

Ronning, P.A.

1993: Geological Reconnaissance and Rock Chip Sampling on the Lucky Property; assessment report for Electrum Resource Corporation.

Ronning, P.A.

1994a: Compilation of Stream Sediment Geochemistry on the Lucky Property; assessment report for Electrum Resource Corporation.

1994b: 1994 Exploration Program on the Lucky Property; assessment report for Electrum Resource Corporation.

Ronning, P.A.

2000: 2000 Exploration Program on the Lucky Property; assessment report for Electrum Resource Corporation.

Ronning, P.A. and Zastavnikovich, S.

1992: 1992 Exploration Program on the Lucky Property; assessment report for Electrum Resource Corporation.

Ronning, P.A. and Zastavnikovich, S.

1993: Geological Reconnaissance and Rock Chip Sampling Program on the Lucky Property, assessment report for Electrum Resource Corporation.

Walker, R.R

1997: Summary Report and 1997 Recommended Exploration Program on the Lucky Property; consultant's report for Consolidated Logan Mines Ltd.

Wilson, J.R. and Zastavnikovich, S.

1989a: Diamond Drilling Assessment Report, Lucky Mineral Claims Group; assessment report for Electrum Resource Corporation, Baril Developments Ltd. and Freemont Gold Corporation.

1989b: Diamond Drilling and Geophysical Assessment Report on the Oyster, TOQ and Handsome Groups Claims; assessment report for Electrum Resources Corp., Baril Development Ltd. and Freemont Gold Corporation.

Zastavnikovich, S., Bzdel, L.M. and Rockel, E.R.

1992: Geochemical and Geophysical Assessment Report, Lucky and TOQ Groups Claims.

VIII. Statement of Qualifications

I, Peter Arthur Ronning, of 1450 Davidson Road, Langdale, B.C., hereby certify that:

1. I am a consulting geological engineer, doing business under the registered name New Caledonian Geological Consulting. My business address is 1450 Davidson Road, Gibsons, B.C., V0N 1V6.
2. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
3. I am a graduate of the University of British Columbia in geological engineering, with the degree of B.A.Sc. granted in 1973.
4. I am a graduate of Queen's University in Kingston, Ontario, with the degree of M.Sc. (applied) in geology granted in 1983.
5. I have worked as a geologist and latterly as a geological engineer in the field of mineral exploration since 1973, in many parts North and South America.
6. I am the author of the report entitled "2007 Exploration Program on the Lucky Property" and dated 12 February 2008.
7. The conclusions expressed in this report are professional opinions, based upon my own work in the subject area and on sources acknowledged in the text. I did not take part in nor did I observe the field work on the Lucky Project during 2007. I last visited the Lucky Project in 2000. Having undertaken reasonable due diligence, and believing the information I have used to be correct, I nevertheless accept no responsibility for the accuracy of information that I did not personally originate.
8. I neither own nor control a beneficial interest in the mineral property that is the subject of this report, nor in any corporation or other entity whose value could reasonably be expected to be affected by the conclusions expressed herein, including Electrum Resource Corporation (a private company) and its affiliates. I do not expect to receive any such interest. I do have a personal and business relationship with the principal of Electrum.
9. This report may be used by Electrum for any lawful purpose for which it is suitable. Should it be necessary to use abridgments of or excerpts from the report, these must be made in such a way as to retain their original meaning and context. All reasonable efforts must be made to obtain my approval prior to any use of such abridgments or excerpts.

Peter A. Ronning, P.Eng.



Appendix 1 — Statement of Costs

Date	Receipt/Invoice Number	Vendor	Category	Description	Base Cost	PST	GST	Tip	Total
19-Jun-07		New Caledonian Geo.	GIS services	preparing maps for field program	\$560.00		\$33.60		\$593.60
21-Jul-07	AJT-002	Sunshine Coast HBC	Field Supplies	flagging tape	\$28.33	\$1.98	\$1.70		\$32.01
22-Jul-07	AJT018	BC Ferry Corp.	Fares	Ferry Horseshoe Bay - Nanaimo	\$66.05				\$66.05
22-Jul-07	AJT003	BC Ferry Corp.	Meals	meal 1 pers	\$6.88		\$0.41		\$7.29
22-Jul-07	AJT004	BC Ferry Corp.	Meals	meal 1 pers	\$6.79		\$0.41		\$7.20
22-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$97.92				\$97.92
22-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
22-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
22-Jul-07	22839	Thornton Motel	Hotel	room, 1 person	\$125.00	\$10.00	\$7.50		\$142.50
22-Jul-07	22838	Thornton Motel	Hotel	room, 2 persons	\$125.00	\$10.00	\$7.50		\$142.50
22-Jul-07		J Barakso	Fees	field services	\$700.00				\$700.00
22-Jul-07		BC Ferry Corp.	Fares	ferry fare, 1 person and vehicle	\$51.70				\$51.70
22-Jul-07	JJB003	BC Ferry Corp.	Meals	meal, 1 person	\$14.05		\$0.84		\$14.89
22-Jul-07	JJB004	Peninsula Café	Meals	meal, 3 persons	\$45.16			\$5.00	\$50.16
23-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$63.36				\$63.36
23-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
23-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
23-Jul-07	22838	Thornton Motel	Hotel	room, 2 persons	\$125.00	\$10.00	\$7.50		\$142.50
23-Jul-07	JJB001	Whale's Tail Motel	Hotel	room, 1 person	\$125.00	\$8.75	\$7.50		\$141.25
23-Jul-07		J Barakso	Fees	field services	\$700.00				\$700.00
23-Jul-07	JJB005	Canadian Princess	Meals	meal, 3 persons	\$51.75		\$3.10	\$6.00	\$60.85
23-Jul-07	JJB006	Canadian Princess	Meals	meal, 3 persons	\$96.25	\$1.94	\$5.78	\$15.00	\$118.97
23-Jul-07	JJB008	Petro-Canada	Vehicle	gasoline	\$30.92		\$1.85		\$32.77



24-Jul-07	AJT005	Driftwood Patio	Meals	meal 2 pers	\$32.53			\$6.00	\$38.53
24-Jul-07	AJT006	Murrays Lucky Dollar	Groceries	groceries for lunch	\$19.38				\$19.38
24-Jul-07	AJT007	Ucluelet Co-Op	Groceries	groceries for lunch	\$24.21				\$24.21
24-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$50.00				\$50.00
24-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
24-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
24-Jul-07	22838	Thornton Motel	Hotel	room, 2 persons plus booking penalty	\$250.00	\$20.00	\$15.00		\$285.00
24-Jul-07		J Barakso	Fees	field services	\$700.00				\$700.00
24-Jul-07	JJB002	BC Ferry Corp.	Fares	ferry fare, 1 person and vehicle	\$51.70				\$51.70
24-Jul-07	JJB007	Canadian Princess	Meals	meal, 3 persons	\$35.85		\$2.16	\$5.00	\$43.01
25-Jul-07	AJT008	Mattershon House	Meals	meal 2 pers	\$52.50		\$3.15	\$8.50	\$64.15
25-Jul-07	AJT017	Canadian Princess	Meals	meal 2 pers	\$23.90		\$1.44	\$4.00	\$29.34
25-Jul-07	AJT001	Petro-Canada	Field Supplies	chain saw gas	\$4.57		\$0.27		\$4.84
25-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$54.24				\$54.24
25-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
25-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
25-Jul-07	JJB001	Whale's Tail Motel	Hotel	room, 2 persons	\$145.00	\$10.15	\$8.70		\$163.85
26-Jul-07	AJT010	Driftwood Takeaway	Meals	meal 2 pers	\$39.40		\$2.34		\$41.74
26-Jul-07	AJT009	Canadian Princess	Meals	meal 2 pers	\$26.85		\$1.62	\$4.00	\$32.47
26-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$55.68				\$55.68
26-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
26-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
26-Jul-07	JJB001	Whale's Tail Motel	Hotel	room, 2 persons	\$145.00	\$10.15	\$8.70		\$163.85



27-Jul-07	AJT012	Driftwood Takeaway	Meals	meal 2 pers	\$30.70		\$2.15		\$32.85
27-Jul-07	AJT011	Canadian Princess	Meals	meal 2 pers	\$23.90		\$1.44	\$4.00	\$29.34
27-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$50.00				\$50.00
27-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
27-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
27-Jul-07	JJB001	Whale's Tail Motel	Hotel	room, 2 persons	\$145.00	\$10.15	\$8.70		\$163.85
28-Jul-07	AJT013	Canadian Princess	Meals	meal 2 pers	\$23.90		\$1.44		\$25.34
28-Jul-07	AJT014	Driftwood Patio	Meals	meal 2 pers	\$39.15			\$7.00	\$46.15
28-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$53.76				\$53.76
28-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
28-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
28-Jul-07	JJB001	Whale's Tail Motel	Hotel	room, 2 persons	\$145.00	\$10.15	\$8.70		\$163.85
29-Jul-07	AJT019	BC Ferry Corp.	Fares	Ferry Nanaimo - Horseshoe Bay	\$66.05				\$66.05
29-Jul-07	AJT020	BC Ferry Corp.	Fares	Ferry Horseshoe Bay - Langdale	\$57.70				\$57.70
29-Jul-07	AJT015	BC Ferry Corp.	Meals	meal 2 pers	\$10.65		\$0.64		\$11.29
29-Jul-07	AJT016	BC Ferry Corp.	Meals	meal 2 pers	\$22.97		\$1.38		\$24.35
29-Jul-07	07073101	Alec Tebbutt	Vehicle	charge for use of vehicle	\$97.92				\$97.92
29-Jul-07	07073101	Alec Tebbutt	Fees	field services	\$300.00				\$300.00
29-Jul-07	07073101	B. Mitchel	Fees	field services	\$300.00				\$300.00
16-Sep-07	52458	Assayers Canada	Analyses	analyses of rock and soil samples	\$2,910.20		\$174.61		\$3,084.81
30-Sep-07	07-026	New Caledonian Geo.	Report	report writing and map preparation	\$1,456.00		\$87.36		\$1,543.36
30-Nov-07	07-035	New Caledonian Geo.	Report	report writing and map preparation	\$644.00		\$38.64		\$682.64
31-Dec-07	2007123101	Alec Tebbutt	GIS services	producing geochem maps	\$280.00				\$280.00



NCG

for Electrum Resource Corporation

31-Dec-07	07-039	New Caledonian Geo.	Report	report writing and map preparation	\$945.00		\$56.70		\$1,001.70
				Totals	\$15,971.87	\$103.27	\$286.53	\$64.50	\$17,202.47

**Appendix 2 — Soil Sample Analyses**

This tabulation of analytical results for the soil samples was prepared using digital files emailed to the writer directly from Assayers Corporation. The data have been re-formatted but not otherwise edited. The certificate numbers are shown.

		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Certificate	Sample	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr
Number	Name	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
7V1579SJ	L001	<0.2	2.89	<5	15	<0.5	<5	0.13	2	20	34
7V1579SJ	L002	<0.2	2.37	<5	19	<0.5	<5	0.13	2	18	27
7V1579SJ	L003	<0.2	0.93	<5	11	<0.5	<5	0.07	2	8	16
7V1579SJ	L004	1	2.11	14	40	<0.5	<5	0.17	3	11	26
7V1579SJ	L005	<0.2	2.09	<5	19	<0.5	<5	0.15	2	14	38
7V1579SJ	L006	<0.2	3.76	6	16	<0.5	<5	0.18	3	23	58
7V1579SJ	L007	<0.2	3.65	<5	21	<0.5	<5	0.12	3	16	35
7V1579SJ	L008	<0.2	1.81	<5	14	<0.5	<5	0.08	3	14	42
7V1579SJ	L009	<0.2	2.25	<5	17	<0.5	<5	0.09	2	10	26
7V1579SJ	L011	<0.2	1.86	<5	23	<0.5	<5	0.21	1	13	17
7V1579SJ	L012	<0.2	2.49	<5	39	0.5	<5	0.1	2	15	10
7V1579SJ	L013	0.2	1.78	<5	21	<0.5	<5	0.03	1	5	5
7V1579SJ	L014	<0.2	1.89	<5	18	<0.5	<5	0.11	2	11	14
7V1579SJ	L015	<0.2	3.23	<5	22	<0.5	<5	0.06	3	9	13
7V1579SJ	L016	<0.2	3.68	9	25	<0.5	<5	0.19	5	15	16
7V1579SJ	L017	<0.2	6.5	41	72	0.8	<5	1.68	3	34	34
7V1579SJ	L018	0.2	4.08	<5	30	<0.5	<5	0.19	3	17	28
7V1579SJ	L019	<0.2	8.92	<5	32	0.7	<5	0.12	2	18	24
7V1579SJ	L020	<0.2	4.07	<5	17	<0.5	<5	0.13	3	14	23
7V1579SJ	L021	<0.2	8.09	<5	20	0.6	<5	0.11	2	40	27
7V1579SJ	L022	<0.2	3.75	<5	12	<0.5	<5	0.07	3	15	29
7V1579SJ	L023	<0.2	5.57	<5	25	0.6	<5	0.19	2	59	24
7V1579SJ	L024	0.3	1.81	<5	56	<0.5	<5	0.14	2	16	13
7V1579SJ	L025	<0.2	3.12	<5	56	<0.5	<5	0.13	3	9	18
7V1579SJ	L026	<0.2	8.42	<5	14	0.5	<5	0.07	2	35	16
7V1579SJ	L027	<0.2	2.92	5	39	0.8	<5	0.31	4	48	19
7V1579SJ	L028	<0.2	1.8	<5	39	<0.5	<5	0.15	4	20	10
7V1579SJ	L029	<0.2	1.13	<5	25	<0.5	<5	0.16	2	8	7
7V1579SJ	L030	0.6	1.05	<5	13	<0.5	<5	0.15	2	8	6
7V1579SJ	L031	<0.2	4.22	<5	13	<0.5	<5	0.08	4	10	22
7V1579SJ	L032	<0.2	4.21	<5	10	<0.5	<5	0.02	1	5	12
7V1579SJ	L033	0.9	1.95	<5	20	<0.5	<5	0.1	3	10	6
7V1579SJ	L034	0.7	4.16	<5	20	<0.5	<5	0.15	4	14	46
7V1579SJ	L035	1	2.83	<5	21	<0.5	<5	0.15	2	11	28
7V1579SJ	L036	1.1	2.54	<5	17	<0.5	<5	0.09	3	8	22
7V1579SJ	L037	1.5	3.11	<5	20	0.5	<5	0.21	2	15	29
7V1579SJ	L038	1.9	3.17	<5	19	0.5	<5	0.21	4	14	43
7V1579SJ	L039	1.3	2.6	<5	17	0.5	<5	0.14	6	13	39
7V1579SJ	L040	1.7	2.64	<5	10	0.5	<5	0.11	5	12	35



Certificate Number	Sample Name	ICP Ag ppm	ICP Al %	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm
7V1579SJ	L041	1.3	3.96	<5	21	0.6	<5	0.19	4	15	52
7V1579SJ	L042	1.7	3.17	9	40	0.6	<5	0.4	3	13	23
7V1579SJ	L043	1.9	2.28	<5	26	<0.5	<5	0.07	3	4	6
7V1579SJ	L044	1.8	3.13	<5	13	<0.5	<5	0.1	4	9	34
7V1579SJ	L045	1.1	2.73	<5	12	0.5	<5	0.08	5	11	43
7V1579SJ	L046	1.7	2.96	<5	40	0.5	<5	0.08	6	13	29
7V1579SJ	L047	2.9	4.73	<5	18	0.7	<5	0.16	5	17	58
7V1579SJ	L048	1.8	3.57	<5	39	0.9	<5	0.39	5	18	22
7V1579SJ	L049	<0.2	2.39	<5	27	<0.5	<5	0.11	2	11	22
7V1579SJ	L050	<0.2	2.47	<5	13	<0.5	<5	0.09	3	17	36
7V1579SJ	L051	<0.2	2.98	<5	23	<0.5	<5	0.27	3	20	35
7V1579SJ	L052	<0.2	1.98	<5	14	<0.5	<5	0.09	2	13	22
7V1579SJ	L053	<0.2	3.64	<5	24	<0.5	<5	0.13	2	16	46
7V1579SJ	L054	<0.2	1.86	<5	13	<0.5	<5	0.03	3	10	23
7V1579SJ	L055	<0.2	2.11	8	14	<0.5	<5	0.1	3	14	17
7V1579SJ	L056	<0.2	2.33	<5	15	<0.5	<5	0.06	2	10	12
7V1579SJ	L057	<0.2	2.16	<5	<10	<0.5	<5	0.05	2	9	22
7V1579SJ	L058	<0.2	3.68	<5	15	<0.5	<5	0.09	2	15	29
7V1579SJ	L059	<0.2	4.5	<5	13	<0.5	<5	0.1	3	15	41
7V1579SJ	L060	<0.2	2.82	<5	22	<0.5	<5	0.11	2	15	18
7V1579SJ	L061	<0.2	4.48	5	17	<0.5	<5	0.07	4	13	39
7V1579SJ	L062	<0.2	7.73	<5	24	<0.5	<5	0.05	3	12	58
7V1579SJ	L063	<0.2	2.64	<5	14	<0.5	<5	0.13	3	19	30
7V1579SJ	L064	<0.2	4.61	12	75	1.1	<5	0.53	4	61	49
7V1579SJ	L065	<0.2	3.31	5	11	<0.5	<5	0.08	4	18	46
7V1579SJ	L066	<0.2	3.57	<5	10	<0.5	<5	0.07	3	16	43
7V1579SJ	L067	<0.2	2.65	<5	11	<0.5	<5	0.07	3	19	42
7V1579SJ	L068	<0.2	3.11	<5	20	<0.5	<5	0.18	1	20	41
7V1579SJ	L069	<0.2	3.42	<5	11	<0.5	<5	0.16	4	16	45
7V1579SJ	L070	<0.2	1.67	<5	<10	<0.5	<5	0.06	3	15	28
7V1579SJ	L071	<0.2	3.42	<5	14	<0.5	<5	0.16	3	16	55
7V1579SJ	L072	<0.2	3.44	<5	18	<0.5	<5	0.17	3	20	55
7V1579SJ	L073	<0.2	3.17	5	15	<0.5	<5	0.12	4	13	58
7V1579SJ	L074	<0.2	1.48	<5	12	<0.5	<5	0.09	3	11	22
7V1579SJ	L075	0.4	11.05	<5	11	0.9	<5	0.3	5	24	182
7V1579SJ	L076	<0.2	5.56	<5	10	1	<5	0.21	9	27	166
7V1579SJ	L078	<0.2	8.22	<5	10	0.7	<5	0.2	5	18	135
7V1579SJ	L079	0.8	6.66	<5	14	0.7	<5	0.2	3	14	78
7V1579SJ	L080	1.8	4.8	<5	15	0.9	<5	0.28	1	13	76
7V1579SJ	L081	0.6	1.53	<5	<10	<0.5	<5	0.11	3	11	37
7V1579SJ	L082	0.7	1.34	<5	11	0.5	<5	0.21	3	14	34
7V1579SJ	L083	0.4	4.09	<5	13	0.7	<5	0.25	4	18	70
7V1579SJ	L084	1	2.13	<5	<10	0.5	<5	0.09	5	14	60
7V1579SJ	L085	0.6	4.33	<5	14	0.6	<5	0.15	3	13	62



Certificate Number	Sample Name	ICP Ag ppm	ICP Al %	ICP As ppm	ICP Ba ppm	ICP Be ppm	ICP Bi ppm	ICP Ca %	ICP Cd ppm	ICP Co ppm	ICP Cr ppm
7V1579SJ	L086	0.7	6.08	<5	10	0.6	<5	0.11	4	13	91
7V1579SJ	L087	1.8	6.96	<5	13	0.6	<5	0.12	4	13	87
7V1579SJ	L088	1	3.73	<5	17	0.6	<5	0.24	3	14	51
7V1579SJ	L089	1.4	5.61	<5	16	0.9	<5	0.17	5	16	81
7V1579SJ	L090	1.1	3.46	<5	12	0.7	<5	0.4	4	23	98
7V1579SJ	L091	1	2.9	<5	12	0.7	<5	0.15	7	42	188
7V1579SJ	L092	1.5	3.94	<5	15	0.8	<5	0.36	5	28	106
7V1579SJ	L093	1.6	5.07	<5	10	1	<5	0.18	7	27	120
7V1579SJ	L094	1.9	4.7	<5	12	1.1	<5	0.26	5	27	97
7V1579SJ	L095	2.2	3.35	<5	15	1.1	<5	0.31	4	72	70
7V1579SJ	L096	<0.2	3.47	<5	<10	0.8	<5	0.17	4	23	74
7V1579SJ	L097	<0.2	4.82	<5	13	1.3	<5	0.23	6	41	129
7V1579SJ	L098	<0.2	5.01	<5	12	0.8	<5	0.29	5	23	123
7V1579SJ	L099	<0.2	3.48	<5	10	1	<5	0.23	6	26	128
7V1579SJ	L100	<0.2	5.13	<5	17	1.4	<5	0.34	6	46	154
7V1579SJ	L101	<0.2	6.51	11	12	0.9	<5	0.33	6	26	139
7V1579SJ	L102	<0.2	5.54	7	13	1.1	<5	0.36	7	29	113
7V1579SJ	L103	<0.2	6.72	<5	<10	0.8	<5	0.28	5	23	124
7V1579SJ	L105	<0.2	4.57	<5	11	0.8	<5	0.35	5	25	118
7V1579SJ	L106	<0.2	3.7	<5	11	0.8	<5	0.34	6	27	139
7V1579SJ	L107	0.6	4.76	<5	39	0.9	<5	0.41	4	42	138
7V1579SJ	L108	0.5	5.2	<5	29	0.8	<5	0.35	5	32	137
7V1579SJ	L109	0.3	5.85	7	28	1.1	<5	0.26	7	32	156
7V1579SJ	L110	0.8	3.9	5	34	0.8	<5	0.8	4	55	114
7V1579SJ	L111	0.4	4.25	<5	25	0.8	<5	0.36	7	28	138
7V1579SJ	L112	0.4	4.17	12	33	0.8	<5	0.95	4	54	122
7V1579SJ	L113	0.5	3.77	6	27	0.7	<5	0.79	4	51	125
7V1579SJ	L114	0.2	5.59	38	17	1.3	<5	0.29	6	30	275
7V1579SJ	L115	0.5	6.09	<5	38	0.8	<5	0.26	5	44	127
7V1579SJ	L116	0.4	4.28	6	30	0.9	<5	0.58	5	47	118
7V1579SJ	L117	0.6	2.83	<5	<10	0.8	<5	0.36	5	20	87
7V1579SJ	L118	0.5	3.72	<5	10	0.8	<5	0.43	5	26	114
7V1579SJ	L119	0.9	4.28	<5	<10	0.9	<5	0.31	5	24	105
7V1579SJ	L120	1.6	4.97	<5	11	0.7	<5	0.31	3	23	107
7V1579SJ	L121	<0.2	2.61	<5	10	0.6	<5	0.28	6	25	94
7V1579SJ	L122	<0.2	4.59	<5	13	0.7	<5	0.2	6	25	136
7V1579SJ	L123	<0.2	3.1	<5	<10	0.7	<5	0.21	6	21	106
7V1579SJ	L124	<0.2	3.8	<5	<10	0.8	<5	0.26	6	25	117
7V1579SJ	L125	<0.2	5.82	<5	13	1	<5	0.24	7	27	148
7V1579SJ	L126	<0.2	4.52	<5	19	0.7	<5	0.55	4	30	103
7V1579SJ	L127	<0.2	5.3	<5	19	0.9	<5	0.31	6	31	147
7V1579SJ	L128	<0.2	4.63	<5	14	0.7	<5	0.35	5	25	111
7V1579SJ	L129	<0.2	4.41	<5	20	1	<5	0.34	7	36	128
7V1579SJ	L130	<0.2	3.18	<5	10	0.7	<5	0.28	7	23	119



Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm
7V1579SJ	L131	<0.2	4.38	<5	20	0.9	<5	0.56	6	31	117
7V1579SJ	L132	<0.2	2.97	<5	31	0.6	<5	0.82	3	39	79
7V1579SJ	L133	<0.2	3.55	<5	26	0.7	<5	0.81	4	39	81
7V1579SJ	L134	<0.2	3.56	<5	31	0.7	<5	0.94	4	38	80
7V1579SJ	L135	<0.2	1.2	<5	17	<0.5	<5	0.6	1	14	21
7V1579SJ	L136	0.2	2.68	<5	<10	0.7	<5	0.25	5	17	75
7V1579SJ	L137	<0.2	3.25	<5	16	0.7	<5	0.46	4	23	69
7V1579SJ	L138	0.6	3.74	<5	17	0.9	<5	0.46	4	23	80
7V1579SJ	L139	1.2	4.13	<5	10	0.7	<5	0.35	4	20	85
7V1579SJ	L140	1.5	4.94	<5	12	0.8	<5	0.36	3	19	76
7V1579SJ	L141	1.9	6	<5	15	0.5	<5	0.09	3	9	38
7V1579SJ	L142	2.4	3.12	<5	14	<0.5	<5	0.09	4	8	23
7V1579SJ	L143	2.5	6.42	<5	21	0.5	<5	0.09	4	9	47
7V1579SJ	L144	5.1	5.83	10	20	0.6	<5	0.12	4	8	43
7V1579SJ	L145	<0.2	5.16	5	19	<0.5	<5	0.07	4	11	64
7V1579SJ	L146	<0.2	3.86	6	14	<0.5	<5	0.09	4	9	26
7V1579SJ	L147	<0.2	4.76	9	26	0.5	<5	0.21	4	14	62
7V1579SJ	L148	<0.2	0.95	<5	20	<0.5	<5	0.08	1	5	6
7V1579SJ	L149	<0.2	2.22	<5	19	<0.5	<5	0.16	4	12	66
7V1579SJ	L150	<0.2	4.01	5	24	<0.5	<5	0.15	4	13	79
7V1579SJ	L151	<0.2	1.94	6	16	<0.5	<5	0.15	4	9	29
7V1579SJ	L152	<0.2	2.65	<5	25	<0.5	<5	0.19	3	10	52
7V1579SJ	L153	<0.2	4.59	5	15	<0.5	<5	0.12	3	10	69
7V1579SJ	L154	<0.2	3.77	<5	24	<0.5	<5	0.06	3	11	52
7V1579SJ	L155	<0.2	2.71	<5	15	<0.5	<5	0.18	3	12	47
7V1579SJ	L156	<0.2	5.46	5	21	<0.5	<5	0.12	3	12	57
7V1579SJ	L157	<0.2	3.5	5	14	<0.5	<5	0.12	3	8	48

Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
7V1579SJ	L001	5	5.57	2	0.02	<10	0.59	288	<2	0.01	10
7V1579SJ	L002	1	4.6	2	0.03	<10	0.93	444	<2	0.01	12
7V1579SJ	L003	<1	4	1	0.02	<10	0.13	58	<2	0.01	3
7V1579SJ	L004	54	7.41	1	0.05	<10	0.2	109	<2	0.06	8
7V1579SJ	L005	6	5.82	1	0.03	<10	0.39	208	<2	0.02	8
7V1579SJ	L006	18	7.11	2	0.02	<10	0.71	353	<2	0.02	14
7V1579SJ	L007	4	7.68	2	0.02	<10	0.29	188	<2	0.01	6
7V1579SJ	L008	7	6.78	1	0.02	<10	0.09	274	3	0.01	4
7V1579SJ	L009	<1	5.12	1	0.02	<10	0.18	97	25	0.01	3
7V1579SJ	L011	12	2.76	1	0.02	<10	0.57	294	17	0.01	8
7V1579SJ	L012	1	3.61	2	0.03	<10	0.2	314	15	0.01	4
7V1579SJ	L013	<1	3.15	1	0.02	<10	0.03	53	<2	0.01	2



Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni
		ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm
7V1579SJ	L014	2	4.87	1	0.02	<10	0.29	160	<2	0.02	4
7V1579SJ	L015	11	6.57	1	0.03	<10	0.12	87	<2	0.02	3
7V1579SJ	L016	8	11.6	1	0.02	<10	0.52	294	8	0.03	5
7V1579SJ	L017	16	5.34	2	0.02	<10	0.14	796	5	0.03	7
7V1579SJ	L018	21	6.31	2	0.02	<10	0.53	297	<2	0.03	9
7V1579SJ	L019	29	5.07	3	0.02	<10	0.46	488	<2	0.02	7
7V1579SJ	L020	6	7.28	1	0.02	<10	0.29	160	<2	0.01	4
7V1579SJ	L021	48	5.14	3	0.01	<10	0.21	1039	2	0.02	5
7V1579SJ	L022	15	7.17	2	0.01	<10	0.16	123	<2	0.01	4
7V1579SJ	L023	58	4.78	2	0.02	11	0.7	1795	<2	0.02	10
7V1579SJ	L024	8	5.34	1	0.02	<10	0.21	358	<2	0.01	3
7V1579SJ	L025	35	4.93	<1	0.01	<10	0.43	247	2	0.01	6
7V1579SJ	L026	69	3.99	1	0.01	<10	0.29	726	4	0.01	5
7V1579SJ	L027	71	6.4	<1	0.02	<10	0.8	1366	8	0.01	11
7V1579SJ	L028	20	5.82	<1	0.02	<10	0.13	449	2	0.01	3
7V1579SJ	L029	3	3.37	<1	0.04	<10	0.24	175	2	0.01	2
7V1579SJ	L030	5	3.31	<1	0.02	<10	0.09	113	<2	0.01	2
7V1579SJ	L031	25	6.73	<1	0.02	<10	0.17	159	<2	0.01	2
7V1579SJ	L032	15	2.31	<1	0.01	<10	0.09	213	<2	0.01	2
7V1579SJ	L033	25	5.81	<1	0.02	<10	0.11	158	<2	0.01	1
7V1579SJ	L034	15	6.54	1	0.03	<10	0.54	299	<2	0.01	8
7V1579SJ	L035	10	4.07	<1	0.03	<10	0.58	308	5	0.01	9
7V1579SJ	L036	7	4.46	<1	0.03	<10	0.29	188	3	0.01	6
7V1579SJ	L037	17	3.38	<1	0.03	<10	0.64	335	2	0.01	12
7V1579SJ	L038	13	6.65	<1	0.04	<10	0.42	262	2	0.01	8
7V1579SJ	L039	13	10.06	<1	0.04	<10	0.32	188	<2	0.01	5
7V1579SJ	L040	10	7.91	<1	0.03	<10	0.09	85	<2	0.01	1
7V1579SJ	L041	30	7.4	<1	0.04	<10	0.51	281	<2	0.01	8
7V1579SJ	L042	71	6.36	<1	0.05	<10	0.68	392	8	0.01	10
7V1579SJ	L043	5	5.18	<1	0.05	<10	0.14	142	9	0.01	3
7V1579SJ	L044	23	6.88	<1	0.03	<10	0.18	121	<2	0.01	3
7V1579SJ	L045	16	8.39	<1	0.03	<10	0.24	152	<2	0.01	3
7V1579SJ	L046	19	9.94	<1	0.04	<10	0.38	216	<2	0.01	7
7V1579SJ	L047	39	8.23	<1	0.04	<10	0.64	343	2	0.01	9
7V1579SJ	L048	85	8.38	<1	0.04	<10	0.73	428	2	0.01	11
7V1579SJ	L049	5	5.19	<1	0.02	<10	0.38	216	<2	0.01	5
7V1579SJ	L050	3	7.11	1	0.02	<10	0.31	155	<2	0.01	6
7V1579SJ	L051	30	6.19	1	0.02	<10	0.95	478	<2	0.01	15
7V1579SJ	L052	1	5.63	1	0.02	<10	0.26	128	<2	0.01	4
7V1579SJ	L053	8	5.67	<1	0.02	<10	0.72	351	<2	0.01	11
7V1579SJ	L054	1	6.37	<1	0.02	<10	0.06	39	<2	0.01	3
7V1579SJ	L055	2	6.21	<1	0.02	<10	0.22	151	<2	0.01	4
7V1579SJ	L056	4	4.54	1	0.01	<10	0.07	49	<2	0.01	2
7V1579SJ	L057	<1	5.23	1	0.01	<10	0.11	56	<2	0.01	2



Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni
		ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm
7V1579SJ	L058	3	5.89	2	0.01	<10	0.29	147	<2	0.01	4
7V1579SJ	L059	6	6.96	1	0.01	<10	0.29	128	<2	0.01	5
7V1579SJ	L060	<1	5.37	1	0.02	<10	0.39	264	4	0.01	5
7V1579SJ	L061	13	8.36	<1	0.01	<10	0.26	162	<2	0.01	4
7V1579SJ	L062	13	7.19	2	0.01	<10	0.27	162	<2	0.01	6
7V1579SJ	L063	6	6.46	1	0.02	<10	0.32	172	<2	0.01	6
7V1579SJ	L064	20	8.14	<1	0.03	<10	0.78	1945	12	0.01	22
7V1579SJ	L065	5	8.51	1	0.01	<10	0.26	142	<2	0.01	5
7V1579SJ	L066	4	6.81	1	0.02	<10	0.21	110	<2	0.01	4
7V1579SJ	L067	1	7.83	1	0.02	<10	0.23	108	<2	0.01	5
7V1579SJ	L068	16	3.24	1	0.02	<10	0.75	346	<2	0.01	13
7V1579SJ	L069	<1	8.68	1	0.01	<10	0.3	137	<2	0.01	5
7V1579SJ	L070	<1	6.91	1	0.02	<10	0.06	66	<2	0.01	2
7V1579SJ	L071	10	6.37	1	0.01	<10	0.33	195	<2	0.01	7
7V1579SJ	L072	21	7.27	1	0.02	<10	0.46	273	<2	0.01	9
7V1579SJ	L073	20	7.25	<1	0.02	<10	0.24	169	<2	0.01	6
7V1579SJ	L074	3	5.73	1	0.02	<10	0.1	83	<2	0.01	3
7V1579SJ	L075	109	8.75	1	0.02	<10	0.69	277	<2	0.01	20
7V1579SJ	L076	46	12.35	<1	0.01	<10	0.24	161	<2	0.01	10
7V1579SJ	L078	55	8.5	1	0.01	<10	0.35	169	<2	0.01	10
7V1579SJ	L079	73	5.67	2	0.02	<10	0.49	202	<2	0.01	14
7V1579SJ	L080	44	3.2	2	0.02	<10	0.35	146	2	0.02	12
7V1579SJ	L081	6	5.61	1	0.01	<10	0.06	72	<2	0.01	2
7V1579SJ	L082	10	5.61	1	0.02	<10	0.18	105	<2	0.01	5
7V1579SJ	L083	59	6.93	<1	0.02	<10	0.43	193	<2	0.01	14
7V1579SJ	L084	11	8.51	<1	0.02	<10	0.08	73	<2	0.01	4
7V1579SJ	L085	39	5.24	2	0.02	<10	0.34	201	<2	0.01	11
7V1579SJ	L086	41	6.47	<1	0.02	<10	0.16	163	<2	0.01	7
7V1579SJ	L087	38	7.62	<1	0.03	<10	0.22	188	<2	0.01	9
7V1579SJ	L088	38	5.5	2	0.02	<10	0.43	196	<2	0.01	12
7V1579SJ	L089	70	7.6	1	0.02	<10	0.38	234	<2	0.01	12
7V1579SJ	L090	44	7.37	1	0.03	<10	0.91	383	<2	0.02	26
7V1579SJ	L091	34	10.76	2	0.03	<10	0.28	1002	<2	0.01	15
7V1579SJ	L092	71	8.01	<1	0.03	<10	0.81	519	<2	0.01	33
7V1579SJ	L093	71	11.44	1	0.03	<10	0.31	370	<2	0.01	13
7V1579SJ	L094	104	8.77	<1	0.03	<10	0.53	334	<2	0.01	20
7V1579SJ	L095	95	7.13	1	0.04	<10	0.56	1424	<2	0.01	25
7V1579SJ	L096	57	6.41	1	<0.01	<10	0.18	244	<2	0.01	8
7V1579SJ	L097	99	9.23	2	0.01	<10	0.32	441	<2	0.01	18
7V1579SJ	L098	86	7.62	1	0.01	<10	0.54	250	<2	0.01	19
7V1579SJ	L099	53	9.48	1	0.01	<10	0.25	270	<2	0.01	11
7V1579SJ	L100	122	9.21	<1	0.02	<10	0.62	473	<2	0.01	35
7V1579SJ	L101	142	9.48	1	0.01	<10	0.78	265	<2	0.02	23
7V1579SJ	L102	116	10.3	1	0.01	<10	0.58	239	<2	0.02	19



Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	Cu	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni
		ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm
7V1579SJ	L103	91	8.53	2	0.02	<10	0.51	240	<2	0.01	18
7V1579SJ	L105	94	8.02	1	0.01	<10	0.73	271	<2	0.02	24
7V1579SJ	L106	43	10.13	1	0.01	<10	0.71	261	<2	0.01	20
7V1579SJ	L107	251	7.52	<1	0.02	<10	1.82	636	<2	0.02	78
7V1579SJ	L108	257	8.43	1	0.01	<10	1.13	466	<2	0.01	53
7V1579SJ	L109	240	10.54	<1	0.02	<10	0.89	400	<2	0.02	42
7V1579SJ	L110	364	6.44	<1	0.03	<10	2.11	1757	<2	0.02	81
7V1579SJ	L111	234	11.11	<1	0.02	<10	0.73	409	<2	0.02	33
7V1579SJ	L112	441	6.76	1	0.02	<10	2.4	1134	<2	0.02	82
7V1579SJ	L113	217	7.37	<1	0.04	<10	2.26	863	<2	0.02	76
7V1579SJ	L114	161	9.32	1	0.02	<10	0.75	306	<2	0.01	33
7V1579SJ	L115	216	8.57	<1	0.02	<10	1.76	890	<2	0.01	59
7V1579SJ	L116	160	8.21	<1	0.03	<10	1.83	1063	<2	0.02	58
7V1579SJ	L117	31	8.29	<1	0.02	<10	0.28	167	<2	0.01	9
7V1579SJ	L118	42	8.75	1	0.02	<10	0.68	294	<2	0.01	20
7V1579SJ	L119	60	8.61	1	0.02	<10	0.42	211	<2	0.01	14
7V1579SJ	L120	107	6.43	1	0.02	<10	0.78	336	<2	0.01	24
7V1579SJ	L121	43	8.46	1	0.01	<10	0.52	394	<2	0.01	16
7V1579SJ	L122	84	9.2	1	0.01	<10	0.72	275	<2	0.01	22
7V1579SJ	L123	47	8.69	1	0.01	<10	0.33	211	<2	0.01	10
7V1579SJ	L124	47	9.09	<1	0.01	<10	0.53	239	<2	0.02	16
7V1579SJ	L125	103	10.05	2	0.01	<10	0.72	290	<2	0.01	25
7V1579SJ	L126	168	6.36	1	0.01	<10	1.5	471	<2	0.01	45
7V1579SJ	L127	135	9.44	<1	0.01	<10	0.96	429	<2	0.01	32
7V1579SJ	L128	104	7.7	1	0.01	<10	0.98	329	<2	0.01	31
7V1579SJ	L129	104	9.89	<1	0.01	<10	0.97	486	<2	0.01	31
7V1579SJ	L130	45	9.98	<1	0.01	<10	0.55	198	<2	0.01	16
7V1579SJ	L131	146	9.21	1	0.01	<10	1.13	479	<2	0.01	34
7V1579SJ	L132	155	5.98	<1	0.01	<10	1.81	808	<2	0.02	50
7V1579SJ	L133	209	5.78	<1	0.01	<10	1.82	637	<2	0.02	55
7V1579SJ	L134	177	6.1	<1	0.01	<10	1.97	615	<2	0.02	53
7V1579SJ	L135	48	2.16	<1	<0.01	<10	0.55	240	<2	0.01	15
7V1579SJ	L136	30	7.46	<1	0.01	<10	0.18	124	<2	0.01	7
7V1579SJ	L137	54	6.47	1	0.02	<10	0.59	277	<2	0.02	18
7V1579SJ	L138	58	6.81	1	0.01	<10	0.41	237	<2	0.01	19
7V1579SJ	L139	45	7.11	<1	0.02	<10	0.56	228	<2	0.01	16
7V1579SJ	L140	76	6.11	1	0.02	<10	0.69	292	<2	0.01	23
7V1579SJ	L141	12	6.86	1	0.03	<10	0.28	183	16	0.01	7
7V1579SJ	L142	7	7.02	<1	0.04	<10	0.24	169	6	0.01	3
7V1579SJ	L143	12	7.73	1	0.04	<10	0.26	179	13	0.01	6
7V1579SJ	L144	14	7.8	<1	0.06	<10	0.26	182	9	0.01	6
7V1579SJ	L145	18	7.26	<1	0.02	<10	0.35	229	5	0.01	8
7V1579SJ	L146	9	7.08	<1	0.02	<10	0.2	130	4	0.01	4
7V1579SJ	L147	40	7.02	<1	0.02	<10	0.73	402	2	0.01	17



Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	Cu ppm	Fe %	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
7V1579SJ	L148	1	1.72	1	0.02	<10	0.07	98	3	0.01	1
7V1579SJ	L149	21	6.33	<1	0.03	<10	0.47	226	<2	0.01	11
7V1579SJ	L150	25	6.69	<1	0.03	<10	0.59	292	<2	0.01	15
7V1579SJ	L151	5	5.94	<1	0.03	<10	0.22	123	<2	0.01	5
7V1579SJ	L152	21	4.75	<1	0.02	<10	0.44	216	<2	0.01	12
7V1579SJ	L153	28	5.97	<1	0.02	<10	0.27	185	<2	0.01	7
7V1579SJ	L154	23	5.9	<1	0.02	<10	0.48	283	2	0.01	12
7V1579SJ	L155	17	4.89	<1	0.01	<10	0.59	251	<2	0.01	15
7V1579SJ	L156	43	4.78	<1	0.01	<10	0.47	243	<2	0.01	14
7V1579SJ	L157	15	5.72	<1	0.01	<10	0.21	128	<2	0.01	4

Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm
7V1579SJ	L001	276	9	0.04	13	4	6	<5	0.56	<10	18
7V1579SJ	L002	243	7	0.03	11	3	5	<5	0.39	<10	<10
7V1579SJ	L003	162	20	0.03	5	1	4	<5	0.26	<10	17
7V1579SJ	L004	495	408	0.11	13	2	6	<5	0.26	<10	35
7V1579SJ	L005	247	14	0.03	10	3	5	<5	0.31	<10	21
7V1579SJ	L006	296	<2	0.06	12	7	6	<5	0.46	<10	16
7V1579SJ	L007	316	<2	0.05	12	4	5	<5	0.35	<10	28
7V1579SJ	L008	187	6	0.02	9	2	5	<5	0.33	<10	19
7V1579SJ	L009	156	<2	0.03	10	3	5	<5	0.25	<10	15
7V1579SJ	L011	236	4	0.04	5	3	2	<5	0.22	<10	<10
7V1579SJ	L012	367	12	0.07	<5	2	3	<5	0.07	<10	25
7V1579SJ	L013	197	4	0.03	<5	1	3	<5	0.07	<10	22
7V1579SJ	L014	242	9	0.04	8	2	4	<5	0.3	<10	16
7V1579SJ	L015	317	<2	0.05	9	2	5	<5	0.19	<10	33
7V1579SJ	L016	388	<2	0.06	14	5	9	<5	0.21	10	55
7V1579SJ	L017	797	<2	0.1	7	6	15	<5	0.16	<10	33
7V1579SJ	L018	383	<2	0.05	10	7	6	<5	0.3	<10	21
7V1579SJ	L019	1537	<2	0.1	9	13	5	<5	0.2	<10	<10
7V1579SJ	L020	410	<2	0.06	13	8	7	<5	0.39	<10	27
7V1579SJ	L021	915	<2	0.12	8	15	4	<5	0.19	<10	<10
7V1579SJ	L022	344	<2	0.08	13	6	6	<5	0.35	<10	39
7V1579SJ	L023	963	<2	0.09	10	7	4	<5	0.21	18	<10
7V1579SJ	L024	351	4	0.05	5	2	4	<5	0.23	<10	<10
7V1579SJ	L025	302	11	0.04	<5	4	4	<5	0.23	<10	12
7V1579SJ	L026	764	<2	0.11	<5	11	10	<5	0.15	11	10
7V1579SJ	L027	614	8	0.04	<5	8	15	<5	0.3	<10	20
7V1579SJ	L028	455	37	0.06	<5	2	9	<5	0.27	<10	14
7V1579SJ	L029	246	17	0.04	<5	3	9	<5	0.28	<10	10
7V1579SJ	L030	167	11	0.02	<5	2	16	<5	0.27	18	12



Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
7V1579SJ	L031	359	5	0.05	<5	7	17	<5	0.32	10	19
7V1579SJ	L032	530	<2	0.06	<5	4	2	<5	0.1	<10	<10
7V1579SJ	L033	351	11	0.03	<5	4	25	<5	0.22	23	14
7V1579SJ	L034	227	7	0.05	<5	7	27	<5	0.43	24	18
7V1579SJ	L035	159	8	0.02	<5	5	21	<5	0.31	22	14
7V1579SJ	L036	150	12	0.03	<5	5	25	<5	0.19	23	16
7V1579SJ	L037	238	10	0.04	<5	6	28	<5	0.43	18	15
7V1579SJ	L038	238	13	0.1	<5	10	45	<5	0.47	21	21
7V1579SJ	L039	439	23	0.06	<5	5	39	<5	0.5	16	28
7V1579SJ	L040	270	16	0.03	<5	5	39	<5	0.49	24	21
7V1579SJ	L041	434	16	0.07	<5	11	39	<5	0.49	27	23
7V1579SJ	L042	926	3	0.02	<5	8	38	<5	0.25	39	22
7V1579SJ	L043	218	11	0.03	<5	2	33	<5	0.08	31	18
7V1579SJ	L044	287	11	0.05	<5	9	45	<5	0.35	26	18
7V1579SJ	L045	332	19	0.06	<5	6	39	<5	0.44	37	30
7V1579SJ	L046	365	16	0.05	<5	4	50	<5	0.45	36	30
7V1579SJ	L047	438	7	0.07	<5	13	55	<5	0.53	33	27
7V1579SJ	L048	1157	7	0.05	<5	8	47	<5	0.26	28	29
7V1579SJ	L049	216	<2	0.04	9	4	3	<5	0.22	<10	25
7V1579SJ	L050	218	<2	0.04	13	3	4	<5	0.35	<10	29
7V1579SJ	L051	293	<2	0.04	10	6	3	<5	0.29	<10	13
7V1579SJ	L052	202	7	0.04	10	3	2	<5	0.36	<10	32
7V1579SJ	L053	178	<2	0.03	9	4	3	<5	0.34	<10	23
7V1579SJ	L054	200	<2	0.03	8	1	2	<5	0.22	<10	37
7V1579SJ	L055	217	6	0.03	12	2	3	<5	0.34	<10	28
7V1579SJ	L056	153	<2	0.03	<5	2	3	<5	0.22	<10	31
7V1579SJ	L057	179	<2	0.03	6	2	4	<5	0.26	<10	27
7V1579SJ	L058	217	<2	0.05	12	5	3	<5	0.34	<10	30
7V1579SJ	L059	279	<2	0.08	11	8	3	<5	0.4	<10	35
7V1579SJ	L060	191	6	0.04	9	3	3	<5	0.24	<10	18
7V1579SJ	L061	298	<2	0.15	11	8	5	<5	0.29	<10	43
7V1579SJ	L062	257	<2	0.18	8	13	3	5	0.26	<10	39
7V1579SJ	L063	230	<2	0.04	15	3	4	<5	0.46	<10	24
7V1579SJ	L064	542	<2	0.04	10	8	4	<5	0.18	<10	<10
7V1579SJ	L065	286	<2	0.16	17	5	5	<5	0.4	<10	44
7V1579SJ	L066	248	<2	0.05	14	2	4	<5	0.36	<10	37
7V1579SJ	L067	310	<2	0.05	17	2	4	<5	0.6	<10	49
7V1579SJ	L068	253	<2	0.04	11	5	<1	<5	0.41	<10	<10
7V1579SJ	L069	265	<2	0.07	17	5	4	<5	0.46	<10	42
7V1579SJ	L070	222	3	0.03	14	2	6	<5	0.45	<10	39
7V1579SJ	L071	376	<2	0.06	12	7	3	<5	0.43	<10	32
7V1579SJ	L072	313	<2	0.06	15	10	4	<5	0.44	<10	33
7V1579SJ	L073	348	11	0.07	<5	10	10	<5	0.4	<10	17
7V1579SJ	L074	229	12	0.03	<5	3	6	<5	0.39	<10	10



Certificate	Sample	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Number	Name	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
7V1579SJ	L075	409	<2	0.11	<5	31	21	<5	0.86	33	19
7V1579SJ	L076	667	8	0.21	5	24	26	<5	1.09	26	27
7V1579SJ	L078	381	<2	0.21	5	20	16	<5	0.7	19	16
7V1579SJ	L079	259	<2	0.07	<5	19	24	<5	0.45	12	12
7V1579SJ	L080	290	<2	0.05	<5	10	25	<5	0.43	32	<10
7V1579SJ	L081	145	10	0.02	5	2	16	<5	0.49	14	<10
7V1579SJ	L082	220	14	0.04	<5	4	20	<5	0.57	14	14
7V1579SJ	L083	345	4	0.05	<5	10	24	<5	0.64	23	14
7V1579SJ	L084	273	15	0.05	<5	3	28	<5	0.6	20	19
7V1579SJ	L085	323	<2	0.08	<5	11	23	<5	0.42	18	10
7V1579SJ	L086	322	3	0.21	<5	17	25	<5	0.51	36	12
7V1579SJ	L087	768	<2	0.12	<5	17	37	<5	0.52	35	21
7V1579SJ	L088	282	5	0.06	<5	8	31	<5	0.42	34	16
7V1579SJ	L089	476	4	0.29	<5	16	32	<5	0.57	23	17
7V1579SJ	L090	393	3	0.04	7	9	33	<5	0.59	29	16
7V1579SJ	L091	413	22	0.06	6	7	36	<5	0.63	34	27
7V1579SJ	L092	411	3	0.06	8	11	34	<5	0.52	35	19
7V1579SJ	L093	494	12	0.11	7	12	46	<5	0.67	39	24
7V1579SJ	L094	332	7	0.08	<5	17	44	<5	0.79	22	26
7V1579SJ	L095	354	11	0.05	<5	8	46	<5	0.6	46	25
7V1579SJ	L096	307	6	0.05	<5	8	<1	5	0.64	<10	<10
7V1579SJ	L097	460	7	0.08	<5	16	15	<5	0.85	19	20
7V1579SJ	L098	335	3	0.07	<5	14	12	<5	0.73	<10	16
7V1579SJ	L099	431	15	0.07	<5	11	15	<5	0.82	17	23
7V1579SJ	L100	519	10	0.07	<5	17	17	<5	0.82	23	22
7V1579SJ	L101	514	<2	0.1	<5	22	18	<5	0.84	18	22
7V1579SJ	L102	473	8	0.11	<5	17	18	<5	0.97	30	24
7V1579SJ	L103	509	4	0.09	<5	16	17	<5	0.82	19	19
7V1579SJ	L105	401	8	0.08	<5	16	21	<5	0.77	18	17
7V1579SJ	L106	362	15	0.05	<5	10	23	<5	0.94	23	22
7V1579SJ	L107	423	6	0.03	<5	13	34	<5	0.42	29	21
7V1579SJ	L108	444	5	0.03	<5	15	25	<5	0.47	29	20
7V1579SJ	L109	669	8	0.06	<5	16	27	<5	0.6	28	25
7V1579SJ	L110	606	3	0.03	<5	13	38	<5	0.41	23	18
7V1579SJ	L111	568	12	0.06	<5	14	26	<5	0.67	29	28
7V1579SJ	L112	447	3	0.01	<5	16	41	<5	0.49	17	16
7V1579SJ	L113	576	7	0.03	<5	11	39	<5	0.55	18	20
7V1579SJ	L114	693	6	0.06	6	12	25	<5	0.79	36	24
7V1579SJ	L115	495	<2	0.05	<5	14	29	<5	0.53	21	23
7V1579SJ	L116	467	12	0.03	<5	14	41	<5	0.65	31	22
7V1579SJ	L117	313	12	0.06	<5	8	24	<5	0.83	29	20
7V1579SJ	L118	316	8	0.07	<5	11	24	<5	0.87	25	22
7V1579SJ	L119	394	7	0.09	<5	12	26	<5	0.88	49	17
7V1579SJ	L120	427	<2	0.08	<5	13	29	<5	0.69	39	17



		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Certificate	Sample	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U
Number	Name	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
7V1579SJ	L121	520	16	0.07	<5	7	15	<5	0.65	<10	21
7V1579SJ	L122	510	11	0.08	<5	13	18	<5	0.75	15	21
7V1579SJ	L123	457	13	0.07	<5	11	17	<5	0.76	20	20
7V1579SJ	L124	496	11	0.1	<5	11	18	<5	0.87	15	21
7V1579SJ	L125	905	5	0.13	<5	21	20	<5	0.86	18	23
7V1579SJ	L126	298	4	0.03	<5	16	24	<5	0.6	19	15
7V1579SJ	L127	455	8	0.11	<5	19	22	<5	0.75	25	23
7V1579SJ	L128	488	3	0.09	<5	15	20	<5	0.68	24	17
7V1579SJ	L129	534	8	0.05	<5	17	22	<5	0.87	24	22
7V1579SJ	L130	400	13	0.06	<5	9	22	<5	0.83	18	23
7V1579SJ	L131	524	14	0.06	<5	17	22	<5	0.67	23	20
7V1579SJ	L132	300	5	0.01	<5	12	24	<5	0.46	13	15
7V1579SJ	L133	361	6	0.02	<5	12	26	<5	0.48	22	13
7V1579SJ	L134	325	4	0.02	<5	12	29	<5	0.51	20	14
7V1579SJ	L135	196	3	0.01	<5	5	6	<5	0.28	<10	<10
7V1579SJ	L136	270	12	0.05	<5	8	19	<5	0.72	23	16
7V1579SJ	L137	324	8	0.06	<5	12	17	<5	0.7	21	14
7V1579SJ	L138	317	7	0.05	<5	11	22	<5	0.62	24	17
7V1579SJ	L139	259	6	0.06	<5	14	28	<5	0.66	32	19
7V1579SJ	L140	306	3	0.11	<5	13	35	<5	0.52	42	16
7V1579SJ	L141	453	7	0.08	<5	10	44	<5	0.29	49	21
7V1579SJ	L142	200	10	0.05	<5	4	46	<5	0.3	37	21
7V1579SJ	L143	309	12	0.07	<5	9	54	<5	0.37	41	26
7V1579SJ	L144	341	19	0.1	<5	8	89	<5	0.33	80	34
7V1579SJ	L145	252	13	0.06	<5	7	8	<5	0.35	<10	14
7V1579SJ	L146	324	18	0.08	<5	5	8	<5	0.33	14	14
7V1579SJ	L147	311	9	0.24	<5	14	10	7	0.38	10	13
7V1579SJ	L148	88	10	0.02	<5	1	1	<5	0.21	<10	<10
7V1579SJ	L149	208	15	0.04	<5	7	9	<5	0.38	10	11
7V1579SJ	L150	239	10	0.05	<5	10	8	<5	0.39	15	14
7V1579SJ	L151	165	20	0.04	<5	3	11	<5	0.39	11	11
7V1579SJ	L152	135	6	0.09	<5	10	11	<5	0.32	<10	<10
7V1579SJ	L153	258	7	0.1	<5	14	7	<5	0.35	13	12
7V1579SJ	L154	267	13	0.09	<5	15	7	<5	0.31	10	11
7V1579SJ	L155	139	6	0.13	<5	9	5	<5	0.34	21	<10
7V1579SJ	L156	213	<2	0.11	<5	26	4	5	0.3	15	<10
7V1579SJ	L157	193	8	0.08	<5	7	6	<5	0.33	14	10

		ICP	ICP	ICP	ICP
Certificate	Sample	V	W	Zn	Zr
Number	Name	ppm	ppm	ppm	ppm
7V1579SJ	L001	164	13	37	9
7V1579SJ	L002	135	10	50	4



Certificate	Sample	ICP	ICP	ICP	ICP
Number	Name	V	W	Zn	Zr
		ppm	ppm	ppm	ppm
7V1579SJ	L003	158	<10	11	4
7V1579SJ	L004	153	16	88	6
7V1579SJ	L005	142	13	33	5
7V1579SJ	L006	148	16	42	13
7V1579SJ	L007	169	18	35	9
7V1579SJ	L008	212	16	17	8
7V1579SJ	L009	154	12	20	4
7V1579SJ	L011	88	<10	34	3
7V1579SJ	L012	60	<10	50	2
7V1579SJ	L013	67	<10	10	2
7V1579SJ	L014	150	12	21	5
7V1579SJ	L015	128	15	20	6
7V1579SJ	L016	127	28	42	11
7V1579SJ	L017	186	<10	73	5
7V1579SJ	L018	177	12	46	7
7V1579SJ	L019	110	<10	55	13
7V1579SJ	L020	183	17	22	6
7V1579SJ	L021	104	11	41	11
7V1579SJ	L022	191	16	19	11
7V1579SJ	L023	117	<10	65	5
7V1579SJ	L024	198	13	25	4
7V1579SJ	L025	164	<10	55	4
7V1579SJ	L026	90	<10	49	6
7V1579SJ	L027	140	<10	100	11
7V1579SJ	L028	207	<10	32	4
7V1579SJ	L029	206	<10	18	2
7V1579SJ	L030	167	<10	8	2
7V1579SJ	L031	218	<10	14	10
7V1579SJ	L032	49	<10	9	5
7V1579SJ	L033	180	<10	14	3
7V1579SJ	L034	165	<10	30	18
7V1579SJ	L035	123	<10	32	8
7V1579SJ	L036	126	<10	21	5
7V1579SJ	L037	96	<10	33	7
7V1579SJ	L038	177	<10	26	17
7V1579SJ	L039	225	<10	20	14
7V1579SJ	L040	249	<10	8	11
7V1579SJ	L041	185	<10	27	24
7V1579SJ	L042	116	<10	39	5
7V1579SJ	L043	95	<10	14	2
7V1579SJ	L044	187	<10	12	12
7V1579SJ	L045	207	<10	15	17
7V1579SJ	L046	184	<10	27	10
7V1579SJ	L047	187	<10	34	32



Certificate	Sample	ICP	ICP	ICP	ICP
Number	Name	V	W	Zn	Zr
		ppm	ppm	ppm	ppm
7V1579SJ	L048	120	<10	39	11
7V1579SJ	L049	116	13	25	8
7V1579SJ	L050	178	16	21	9
7V1579SJ	L051	103	11	52	9
7V1579SJ	L052	162	12	19	8
7V1579SJ	L053	180	13	41	11
7V1579SJ	L054	161	15	22	6
7V1579SJ	L055	169	14	21	7
7V1579SJ	L056	124	10	14	6
7V1579SJ	L057	162	12	11	9
7V1579SJ	L058	144	13	24	16
7V1579SJ	L059	168	17	24	22
7V1579SJ	L060	107	11	33	5
7V1579SJ	L061	168	19	28	21
7V1579SJ	L062	143	17	33	32
7V1579SJ	L063	165	15	24	12
7V1579SJ	L064	157	16	80	7
7V1579SJ	L065	203	20	22	17
7V1579SJ	L066	183	16	17	13
7V1579SJ	L067	289	18	18	10
7V1579SJ	L068	107	<10	46	8
7V1579SJ	L069	228	21	30	14
7V1579SJ	L070	253	16	11	8
7V1579SJ	L071	172	14	23	15
7V1579SJ	L072	192	16	31	20
7V1579SJ	L073	198	<10	18	15
7V1579SJ	L074	201	<10	7	7
7V1579SJ	L075	334	<10	28	74
7V1579SJ	L076	526	<10	18	47
7V1579SJ	L078	282	<10	19	60
7V1579SJ	L079	163	<10	20	35
7V1579SJ	L080	183	<10	20	9
7V1579SJ	L081	234	<10	4	10
7V1579SJ	L082	227	<10	9	11
7V1579SJ	L083	267	<10	22	32
7V1579SJ	L084	281	<10	7	17
7V1579SJ	L085	159	<10	23	17
7V1579SJ	L086	242	<10	14	29
7V1579SJ	L087	234	<10	16	29
7V1579SJ	L088	168	<10	17	16
7V1579SJ	L089	260	<10	18	26
7V1579SJ	L090	175	<10	43	12
7V1579SJ	L091	416	<10	26	15
7V1579SJ	L092	185	<10	46	15



Certificate	Sample	ICP	ICP	ICP	ICP
Number	Name	V	W	Zn	Zr
		ppm	ppm	ppm	ppm
7V1579SJ	L093	287	<10	32	27
7V1579SJ	L094	301	<10	39	32
7V1579SJ	L095	230	<10	50	15
7V1579SJ	L096	290	<10	19	19
7V1579SJ	L097	390	<10	47	32
7V1579SJ	L098	282	<10	29	35
7V1579SJ	L099	387	<10	24	22
7V1579SJ	L100	422	<10	58	27
7V1579SJ	L101	361	<10	32	39
7V1579SJ	L102	432	<10	31	38
7V1579SJ	L103	313	<10	27	47
7V1579SJ	L105	295	<10	31	31
7V1579SJ	L106	363	<10	26	37
7V1579SJ	L107	198	<10	71	15
7V1579SJ	L108	236	<10	48	17
7V1579SJ	L109	355	<10	42	22
7V1579SJ	L110	180	<10	68	9
7V1579SJ	L111	324	<10	31	22
7V1579SJ	L112	200	<10	62	16
7V1579SJ	L113	215	<10	65	17
7V1579SJ	L114	419	<10	37	16
7V1579SJ	L115	223	<10	70	17
7V1579SJ	L116	272	<10	69	14
7V1579SJ	L117	344	<10	16	19
7V1579SJ	L118	296	<10	28	31
7V1579SJ	L119	329	<10	22	33
7V1579SJ	L120	194	<10	30	26
7V1579SJ	L121	297	<10	27	18
7V1579SJ	L122	310	<10	29	38
7V1579SJ	L123	390	<10	18	20
7V1579SJ	L124	360	<10	22	35
7V1579SJ	L125	338	<10	42	50
7V1579SJ	L126	210	<10	54	28
7V1579SJ	L127	338	<10	52	37
7V1579SJ	L128	242	<10	40	31
7V1579SJ	L129	346	<10	47	37
7V1579SJ	L130	337	<10	24	28
7V1579SJ	L131	291	<10	45	27
7V1579SJ	L132	182	<10	59	14
7V1579SJ	L133	184	<10	64	22
7V1579SJ	L134	195	<10	62	26
7V1579SJ	L135	82	<10	19	11
7V1579SJ	L136	309	<10	11	20
7V1579SJ	L137	241	<10	26	26



Certificate	Sample	ICP	ICP	ICP	ICP
Number	Name	V	W	Zn	Zr
		ppm	ppm	ppm	ppm
7V1579SJ	L138	289	<10	34	18
7V1579SJ	L139	219	<10	26	30
7V1579SJ	L140	189	<10	34	24
7V1579SJ	L141	121	<10	24	14
7V1579SJ	L142	179	<10	29	8
7V1579SJ	L143	203	<10	21	14
7V1579SJ	L144	186	<10	28	15
7V1579SJ	L145	197	<10	27	21
7V1579SJ	L146	148	<10	19	10
7V1579SJ	L147	173	<10	61	21
7V1579SJ	L148	98	<10	6	3
7V1579SJ	L149	182	<10	26	20
7V1579SJ	L150	187	<10	36	22
7V1579SJ	L151	210	<10	14	8
7V1579SJ	L152	147	<10	27	17
7V1579SJ	L153	171	<10	20	23
7V1579SJ	L154	176	<10	30	15
7V1579SJ	L155	110	<10	28	13
7V1579SJ	L156	157	<10	31	21
7V1579SJ	L157	162	<10	15	16



		Geochem	Geochem
Certificate	Sample	Au	Au-Check
Number	Name	ppb	ppb
7V1579SG	L001	6	3
7V1579SG	L002	4	
7V1579SG	L003	3	
7V1579SG	L004	18	
7V1579SG	L005	6	
7V1579SG	L006	6	
7V1579SG	L007	12	
7V1579SG	L008	9	
7V1579SG	L009	4	
7V1579SG	L010	N.S.	N.S.
7V1579SG	L011	5	
7V1579SG	L012	12	
7V1579SG	L013	24	
7V1579SG	L014	6	
7V1579SG	L015	12	
7V1579SG	L016	12	
7V1579SG	L017	18	
7V1579SG	L018	4	
7V1579SG	L019	9	
7V1579SG	L020	30	18
7V1579SG	L021	12	
7V1579SG	L022	12	
7V1579SG	L023	9	
7V1579SG	L024	6	
7V1579SG	*1110	1420	
7V1579SG	*BLANK	<1	
7V1579SG	L025	14	
7V1579SG	L026	7	
7V1579SG	L027	3	
7V1579SG	L028	7	
7V1579SG	L029	2	
7V1579SG	L030	2	
7V1579SG	L031	2	
7V1579SG	L032	7	
7V1579SG	L033	5	
7V1579SG	L034	5	8
7V1579SG	L035	5	
7V1579SG	L036	1	
7V1579SG	L037	5	
7V1579SG	L038	5	
7V1579SG	L039	7	
7V1579SG	L040	3	
7V1579SG	L041	7	

		Geochem	Geochem
Certificate	Sample	Au	Au-Check
Number	Name	ppb	ppb
7V1579SG	L042	7	
7V1579SG	L043	3	
7V1579SG	L044	5	2
7V1579SG	L045	16	
7V1579SG	L046	2	
7V1579SG	L047	5	
7V1579SG	L048	6	
7V1579SG	*1110	1460	
7V1579SG	*BLANK	<1	
7V1579SG	L049	3	2
7V1579SG	L050	4	
7V1579SG	L051	4	
7V1579SG	L052	4	
7V1579SG	L053	2	
7V1579SG	L054	3	
7V1579SG	L055	<1	
7V1579SG	L056	<1	
7V1579SG	L057	9	
7V1579SG	L058	6	3
7V1579SG	L059	6	
7V1579SG	L060	18	
7V1579SG	L061	9	
7V1579SG	L062	6	
7V1579SG	L063	9	
7V1579SG	L064	4	
7V1579SG	L065	6	
7V1579SG	L066	9	
7V1579SG	L067	6	
7V1579SG	L068	9	
7V1579SG	L069	10	
7V1579SG	L070	12	
7V1579SG	L071	21	
7V1579SG	L072	9	
7V1579SG	*1110	1414	
7V1579SG	*BLANK	<1	
7V1579SG	L073	3	3
7V1579SG	L074	6	
7V1579SG	L075	2	
7V1579SG	L076	3	
7V1579SG	L077	N.S.	N.S.
7V1579SG	L078	6	
7V1579SG	L079	6	
7V1579SG	L080	3	



		Geochem	Geochem
Certificate	Sample	Au	Au-Check
Number	Name	ppb	ppb
7V1579SG	L081	3	
7V1579SG	L082	6	
7V1579SG	L083	9	
7V1579SG	L084	9	
7V1579SG	L085	6	
7V1579SG	L086	3	
7V1579SG	L087	6	
7V1579SG	L088	3	
7V1579SG	L089	3	
7V1579SG	L090	12	
7V1579SG	L091	6	
7V1579SG	L092	10	4
7V1579SG	L093	9	
7V1579SG	L094	12	
7V1579SG	L095	6	
7V1579SG	L096	42	
7V1579SG	*1110	1346	
7V1579SG	*BLANK	<1	
7V1579SG	L097	<1	
7V1579SG	L098	5	
7V1579SG	L099	6	
7V1579SG	L100	6	
7V1579SG	L101	8	
7V1579SG	L102	8	
7V1579SG	L103	8	
7V1579SG	L104	N.S.	N.S.
7V1579SG	L105	9	
7V1579SG	L106	18	11
7V1579SG	L107	34	
7V1579SG	L108	14	
7V1579SG	L109	10	
7V1579SG	L110	40	
7V1579SG	L111	6	
7V1579SG	L112	15	
7V1579SG	L113	15	
7V1579SG	L114	8	
7V1579SG	L115	4	
7V1579SG	L116	6	4
7V1579SG	L117	12	
7V1579SG	L118	6	
7V1579SG	L119	6	
7V1579SG	L120	6	
7V1579SG	*1110	1384	

		Geochem	Geochem
Certificate	Sample	Au	Au-Check
Number	Name	ppb	ppb
7V1579SG	*BLANK	<1	
7V1579SG	L121	<1	
7V1579SG	L122	4	
7V1579SG	L123	6	
7V1579SG	L124	6	
7V1579SG	L125	3	
7V1579SG	L126	4	
7V1579SG	L127	8	
7V1579SG	L128	4	
7V1579SG	L129	4	
7V1579SG	L130	6	9
7V1579SG	L131	9	
7V1579SG	L132	45	
7V1579SG	L133	6	
7V1579SG	L134	6	
7V1579SG	L135	4	
7V1579SG	L136	14	
7V1579SG	L137	4	
7V1579SG	L138	9	
7V1579SG	L139	10	
7V1579SG	L140	6	7
7V1579SG	L141	3	
7V1579SG	L142	3	
7V1579SG	L143	<1	
7V1579SG	L144	3	
7V1579SG	*1110	1445	
7V1579SG	*BLANK	<1	
7V1579SG	L145	<1	
7V1579SG	L146	2	
7V1579SG	L147	2	
7V1579SG	L148	2	
7V1579SG	L149	7	
7V1579SG	L150	3	
7V1579SG	L151	7	
7V1579SG	L152	3	
7V1579SG	L153	3	
7V1579SG	L154	3	3
7V1579SG	L155	5	
7V1579SG	L156	7	
7V1579SG	L157	2	
7V1579SG	*1110	1599	
7V1579SG	*BLANK	<1	



Appendix 3 — Rock Chip Sample Analyses

This tabulation of analytical results for the rock samples was prepared using digital files emailed to the writer directly from Assayers Corporation. The data have been re-formatted but not otherwise edited. The certificate numbers are shown.

		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Certificate	Sample	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
Number	Name	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
7V1579RJ	LR053A	0.2	2.21	<5	19	0.8	<5	2	2	14	70	29
7V1579RJ	LR053B	<0.2	2.05	<5	23	0.5	<5	1.33	2	14	59	18
7V1579RJ	LR053C	<0.2	1.75	<5	25	<0.5	<5	1.06	2	18	76	42
7V1579RJ	LR053D	0.4	2.46	<5	27	0.6	<5	1.76	2	19	57	20
7V1579RJ	LR054A	<0.2	1.98	66	56	<0.5	<5	0.35	3	13	20	88
7V1579RJ	LR054B	<0.2	2.37	119	83	<0.5	<5	0.38	4	15	14	67
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Certificate	Sample	Fe	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb
Number	Name	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
7V1579RJ	LR053A	3.41	1	0.12	<10	0.84	777	<2	0.06	8	758	4
7V1579RJ	LR053B	3.75	<1	0.13	<10	1.04	723	<2	0.09	12	762	<2
7V1579RJ	LR053C	4.13	1	0.13	<10	0.91	766	<2	0.1	9	747	8
7V1579RJ	LR053D	4.27	<1	0.2	<10	1.11	903	<2	0.12	8	828	2
7V1579RJ	LR054A	4.67	1	0.16	<10	0.83	826	8	0.03	8	942	10
7V1579RJ	LR054B	6.51	<1	0.2	<10	1.14	1308	7	0.02	8	962	16
		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
Certificate	Sample	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
Number	Name	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
7V1579RJ	LR053A	0.13	<5	4	24	<5	0.18	<10	<10	69	<10	73
7V1579RJ	LR053B	0.16	<5	5	41	<5	0.18	<10	<10	80	<10	63
7V1579RJ	LR053C	0.27	<5	5	25	<5	0.19	<10	<10	85	<10	84
7V1579RJ	LR053D	0.2	<5	5	43	<5	0.24	<10	<10	101	<10	86
7V1579RJ	LR054A	0.57	<5	5	9	<5	0.21	<10	11	120	<10	47
7V1579RJ	LR054B	1.98	<5	5	13	<5	0.17	<10	17	68	<10	80
		ICP						Geoch	Geoch			
Certificate	Sample	Zr		Certificate	Sample	Au	Au-C					
Number	Name	ppm		Number	Name	ppb	ppb					
7V1579RJ	LR053A	6		7V1579RG	LR053A	<1	<1					
7V1579RJ	LR053B	5		7V1579RG	LR053B	1						
7V1579RJ	LR053C	5		7V1579RG	LR053C	3						
7V1579RJ	LR053D	5		7V1579RG	LR053D	1						
7V1579RJ	LR054A	4		7V1579RG	LR054A	18						
7V1579RJ	LR054B	6		7V1579RG	LR054B	30						