0122-92460
094172

Geochemical and Geological Report on the Butter Claims

Covering the:

Butter 1 –116 incl.
Claims

Grant Numbers:
YC15179-YC15294 incl

on
Claim Sheets 115 J 09
in
Whitehorse Mining District

Longitude 138° 10' N

Latitude 62° 39' N

Owned by

Deltango Gold Limited

Report by

Gregg Jilson

Dec. 1 2000

Work completed

July 19, 1999 to Aug 2, 1999

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 22,800 .

M. Burke

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

Table of Contents

List of Tables

List of Appendices

List of Figures

List of Plates

The Butter Claims

1 Introduction

The Butter claims (Figure 1) were staked to cover an area of anomalous Au, As and Sb response on the government regional geochemical survey (RGS) (Geological Survey of Canada, 1986) (Figure 2a) and also to cover a string of high potassium, low thorium-potassium ratio radiometric anomalies (Geological Survey of Canada, 1994) similar to, and on strike with anomalies over, Au-Ag-As-Bi-Cu mineralization on the adjacent Sonora Gulch property of Selwyn Minerals (Figure 3). One of the attractions of this area was the occurrence of tetradymite in the vein system on the Sonora Gulch Property.

2 Location and Access

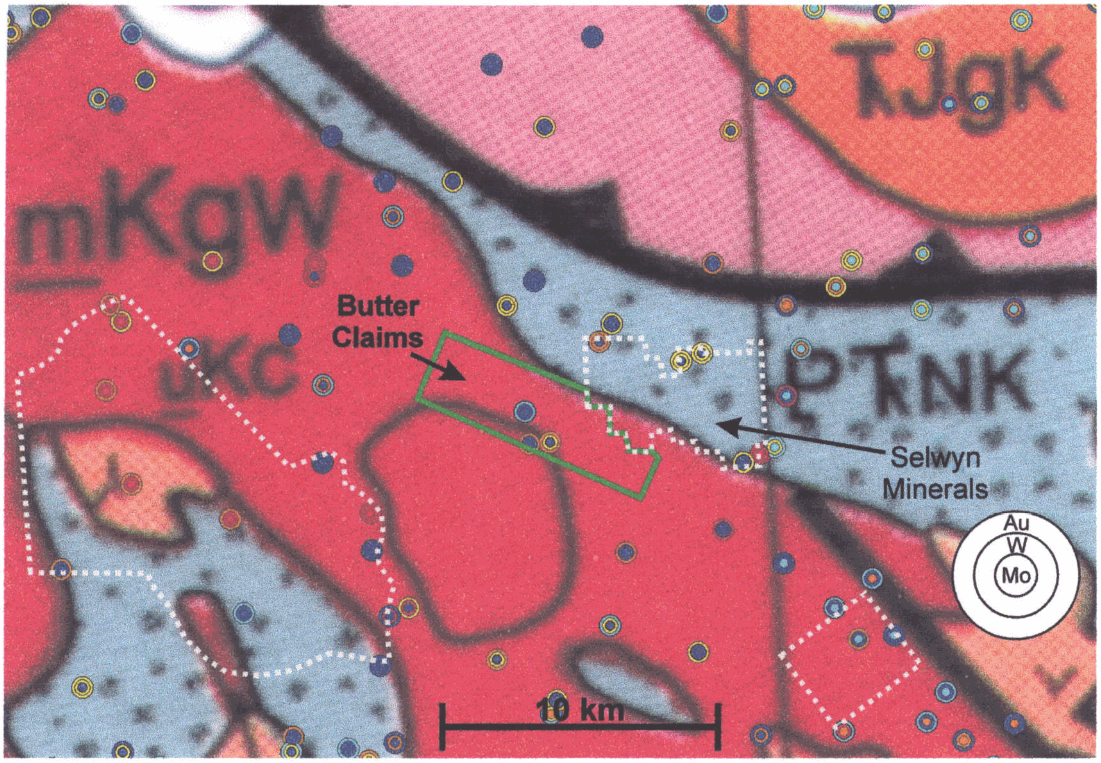
The Butter claims are located 113 km. northwest of Carmacks, 272 km. northwest of Whitehorse and 167 km. southeast of Dawson. The claims are in the northeast part of the Snag map sheet on NTS sheet 115J09. The center of the claim block is at latitude 62° 39' N and longitude 138° 10' West. The claims are on the north flank of the Dawson Range in the Hayes Creek drainage. Butterfield Creek drains the west end of the property.

Access is most conveniently by helicopter from Carmacks. Mobilization for this programme was by driving to the end of the Casino Trail and then slinging the field gear to the property. The end of the Casino Trail is 33 km. south east of the claims and a winter road extends to the adjoining Selwyn Minerals property. There is an airstrip on that property and another in the Hayes Creek valley but they were not used as part of this program and their condition is not known.

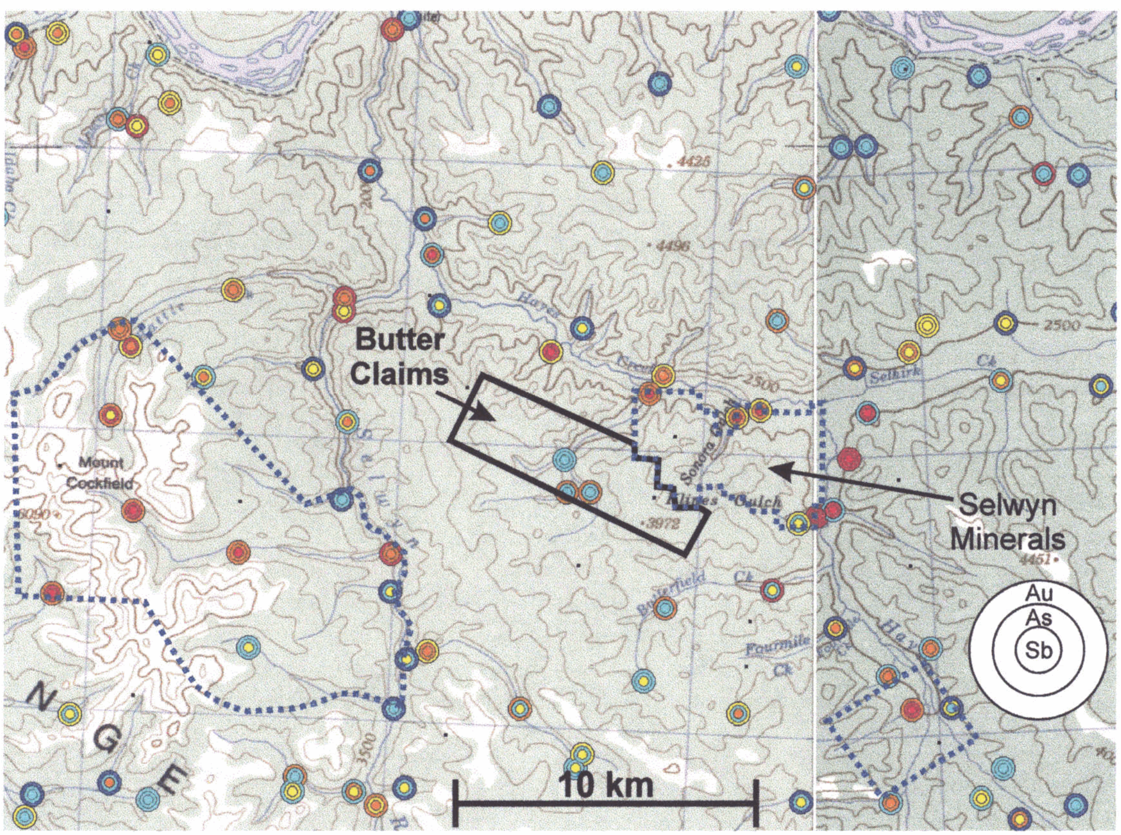
3 Claims

The Butter claims consist of 116 full sized claims. All claims are located in the Whitehorse Mining District. Figure 5 is a map of the claim block.

Figure 1 Map of Yukon showing the location of Deltango Gold Limited's properties.



A)



B)

Figure 2a Regional data for the Butter claims and vicinity. A) shows the geology from the Tectonic Assemblage Map (Wheeler & McFeely, 1991) along with Au, W, Mo thematics for RGS data (mKgw = Dawson Range Batholith, PTrNK = schist gneiss unit, "Y" symbols on orange denote Carmacks Volcanics, TrJgK are early Jurassic granitoids and unlabled pink is the Selwyn Gneiss). B) shows topography and Au, Sb, As thematics for RGS data. The dotted outline shows the land holdings of others in the vicinity, the large area around Mt. Cockfield is a First Nation land claim. Values denoted by colour ranges for RGS data are as shown in Figure 2b.

Yukon stream sediment thematic scale
(log normalized)

	Au ppb	As ppm	Ag ppm	W ppm	Sb ppm	Pb ppm	Mo ppm
>2 std above mean	20.9 to 2510	20.1 to 11200	0.36 to 6.3	4.87 to 90	1.67 to 170	31.56 to 694	3.17 to 94
1 to 2 std above mean	7.5 to 20.9	9.4 to 20.1	0.24 to 0.36	2.93 to 4.87	0.96 to 1.67	13 to 31.56	2 to 3.17
mean to 1 std	2.1 to 7.5	4.1 to 9.4	0.13 to 0.24	1.62 to 2.93	0.44 to 0.96	5.36 to 13	
detection to mean	1 to 2.1	0.5 to 4.1		1 to 1.62	0.1 to 0.44	2 to 5.36	1 to 1.25
Below detection							
No analysis							

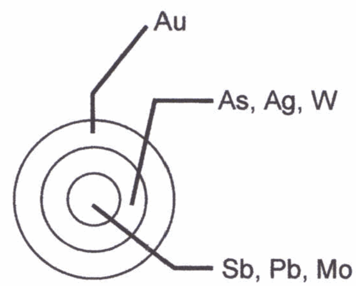


Figure 2b The colour scheme for the nested geochemical symbols in Figure 2a. These values are based on a statistical analysis of the regional geochemical data within the Project Area.

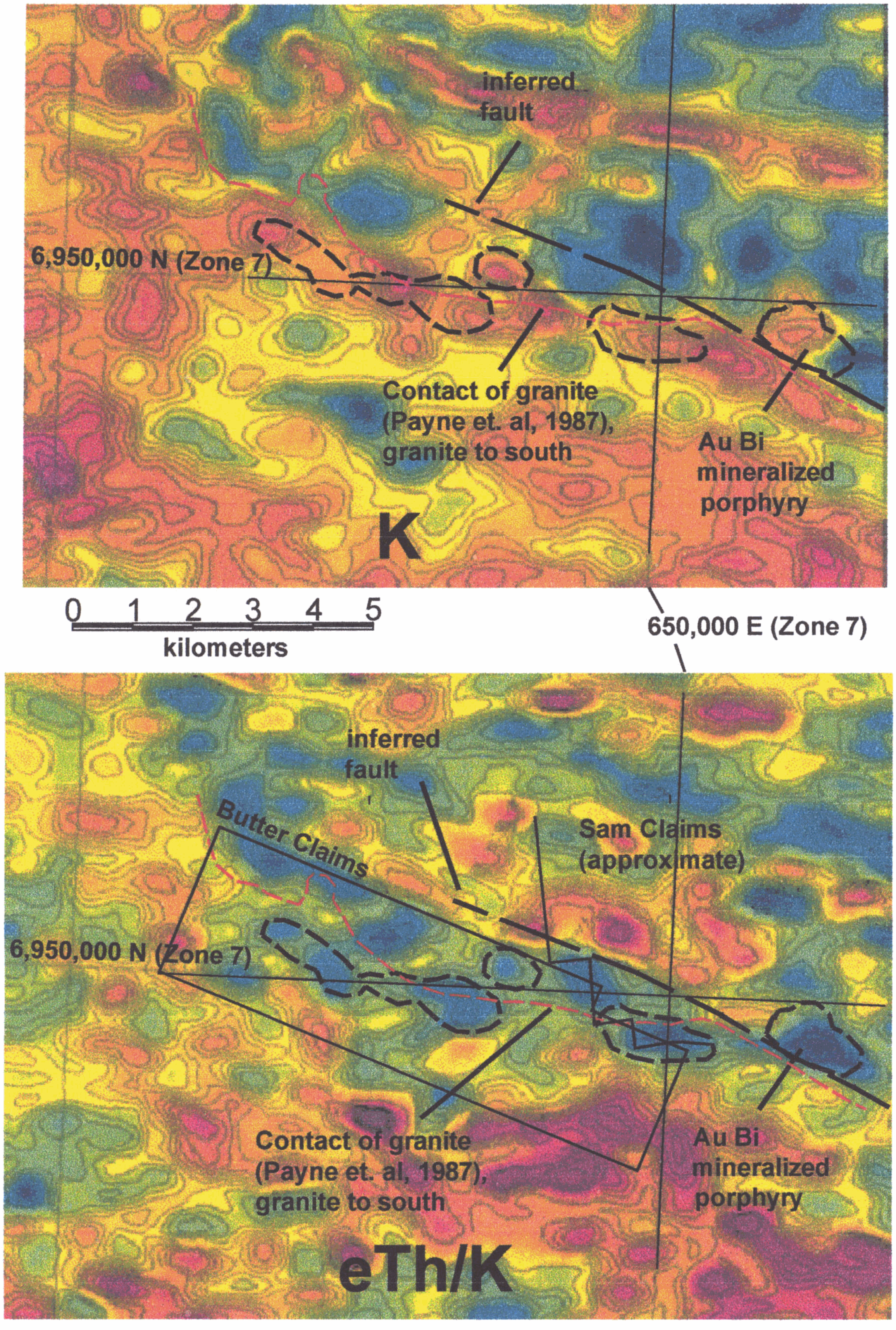
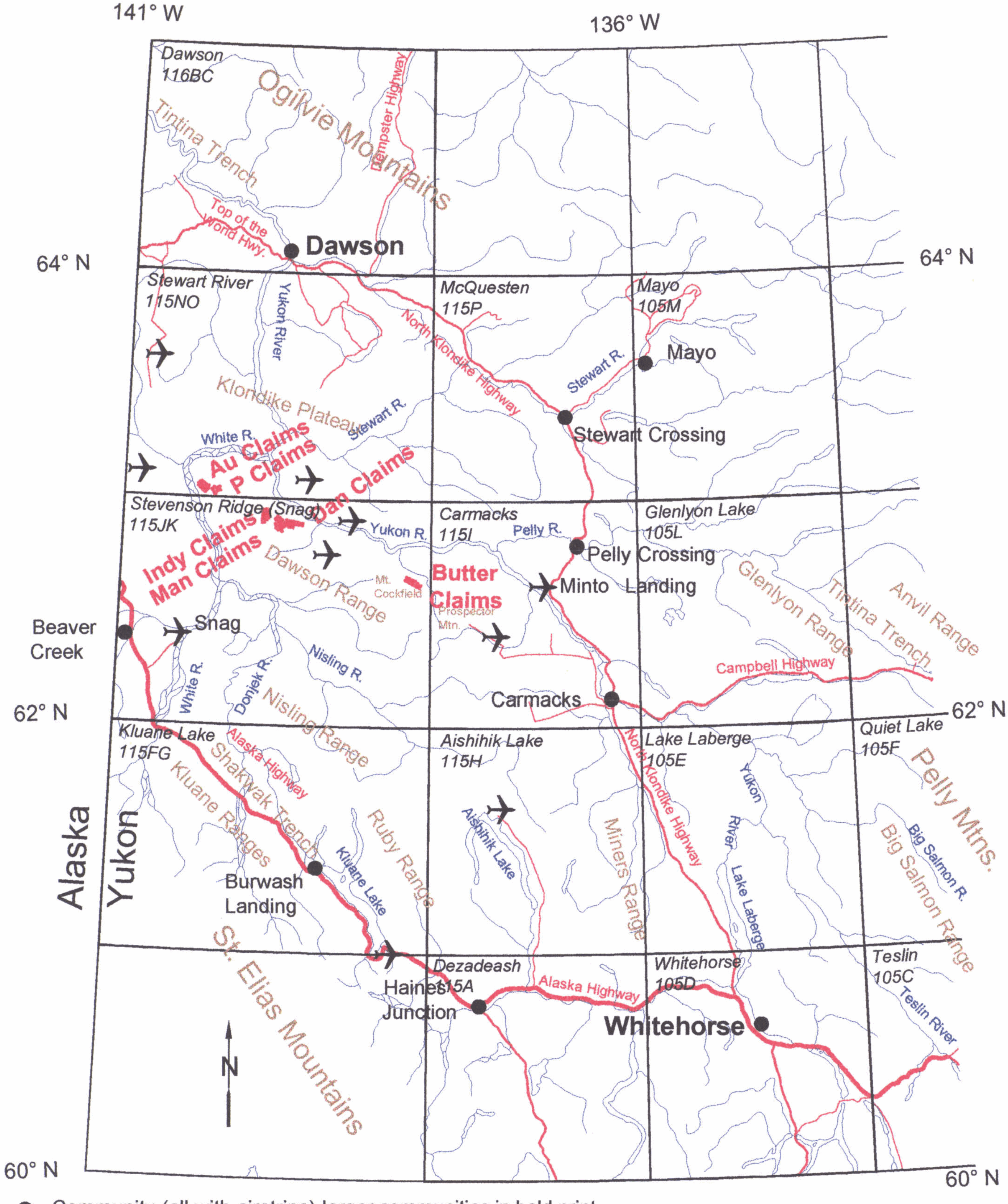


Figure 3 Potassium and thorium/potassium ratio maps from the government gamma ray spectrometer survey of Selwyn River East (115 J 09) showing the ratio lows along the zone of elevated potassium following the contact of the Dawson Range Batholith that influenced the staking of the Butter claims.



● Community (all with airstrips), larger communities in bold print

✈ Airstrips in bush, gravel

0 50 100 200 kilometers

Figure 4 Location of Deltango claims (in red) relative to major transportation arteries of the southwest Yukon.

Table 1. List of Claims prior to field work

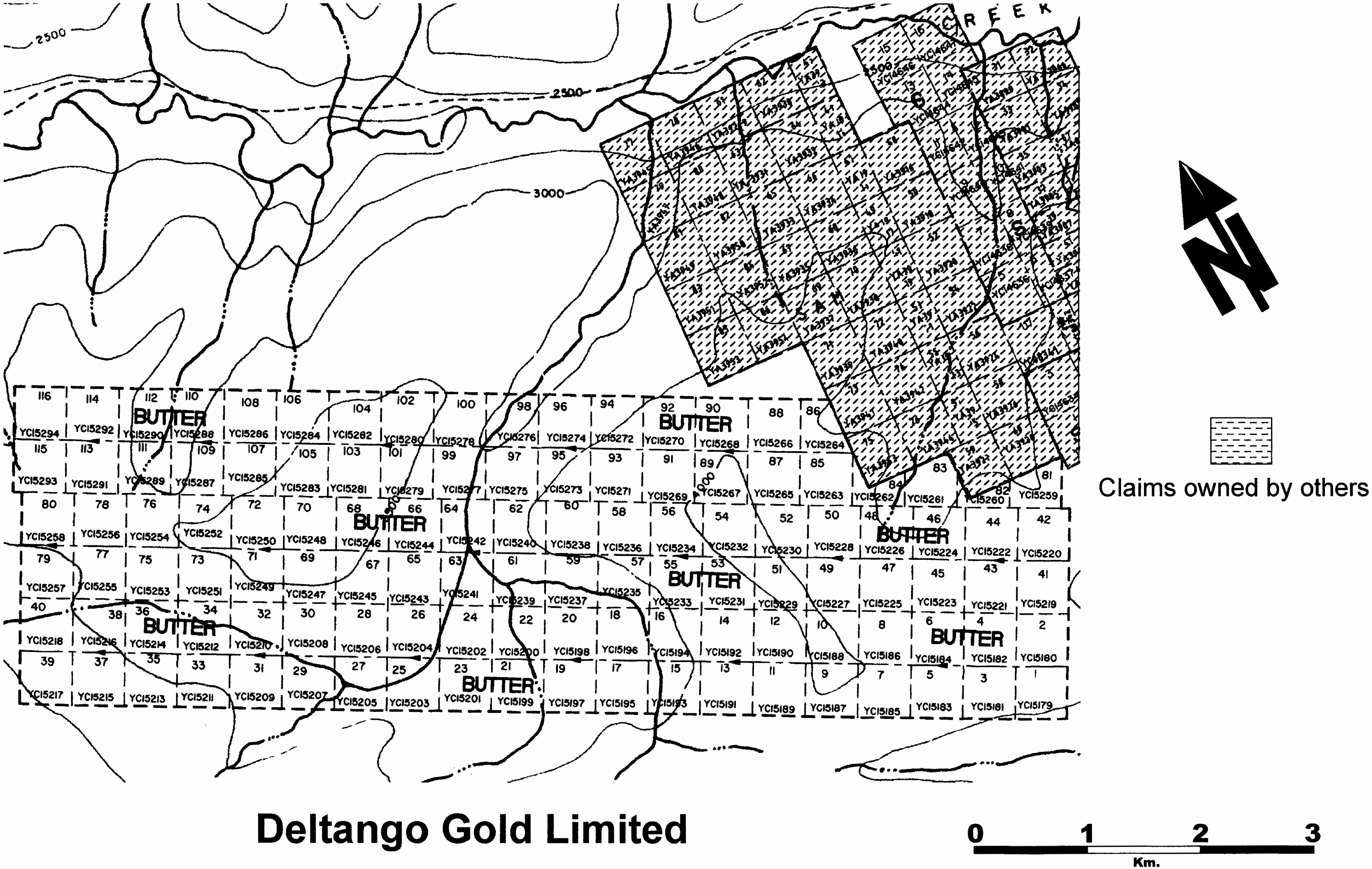
Claim Names & Numbers	Grant Numbers	# of Claims	Expiry Dates	Claim Sheets
Butter 1-116 incl.	YC15179-YC15294 incl.	116	June 10, 2000	115J09

The work described in this report has been filed as assessment work in varying amounts on all of the Butter claims. Table 2 lists the new expiry dates and the number of years requested. Figure 6 is a map showing the new expiry dates.

Table 2. List of Claims following filing assessment work

Claim Names & Numbers	Grant Numbers	# of Claims	Years Requested	Expiry Dates	Claim Sheets
Butter 1-27 incl.	YC15179-YC15205 incl.	27	2	6/10/02	115J09
Butter 28-40 incl.	YC15206-YC15218 incl.	13	1	6/10/01	115J09
Butter 41-53 incl.	YC15219-YC15231 incl.	13	2	6/10/02	115J09
Butter 54, 56, 58, 60, 62, 64	YC15232, 34, 36, 38, 40, 42	6	3	6/10/03	115J09
Butter 55, 57, 59, 61, 63	YC15233, 35, 37, 39, 41	5	2	6/10/02	115J09
Butter 65-70 incl.	YC15243-YC15248 incl.	6	2	6/10/02	115J09
Butter 71-80 incl.	YC15249-YC15258 incl.	10	1	6/10/01	115J09
Butter 81-83	YC15259-YC15261 incl.	3	2	6/10/02	115J09
Butter 84-100	YC15262-YC15278 incl.	17	3	6/10/03	115J09
Butter 101-108	YC15279-YC15286 incl.	8	2	6/10/02	115J09
Butter 109, 111, 113, 115	YC15287, 89, 91, 93	4	1	6/10/01	115J09
Butter 110, 112, 114, 116	YC15288, 90, 92, 94	4	2	6/10/02	115J09

Appendix A presents a summary of expenses for the field work (Table A1). The work has been allocated to claim block based on sample counts for geochemical expenses or time spent on the claims for labor and other field expenses or by specific applicable invoices in the case of helicopter and fixed wing charter costs (Table A2). Total field cost attributable to the work in the vicinity of the Butter claims is $35,210. Total costs have been cast in terms of a cost per geochemical sample regardless of sample type for the calculation of the distribution of work.

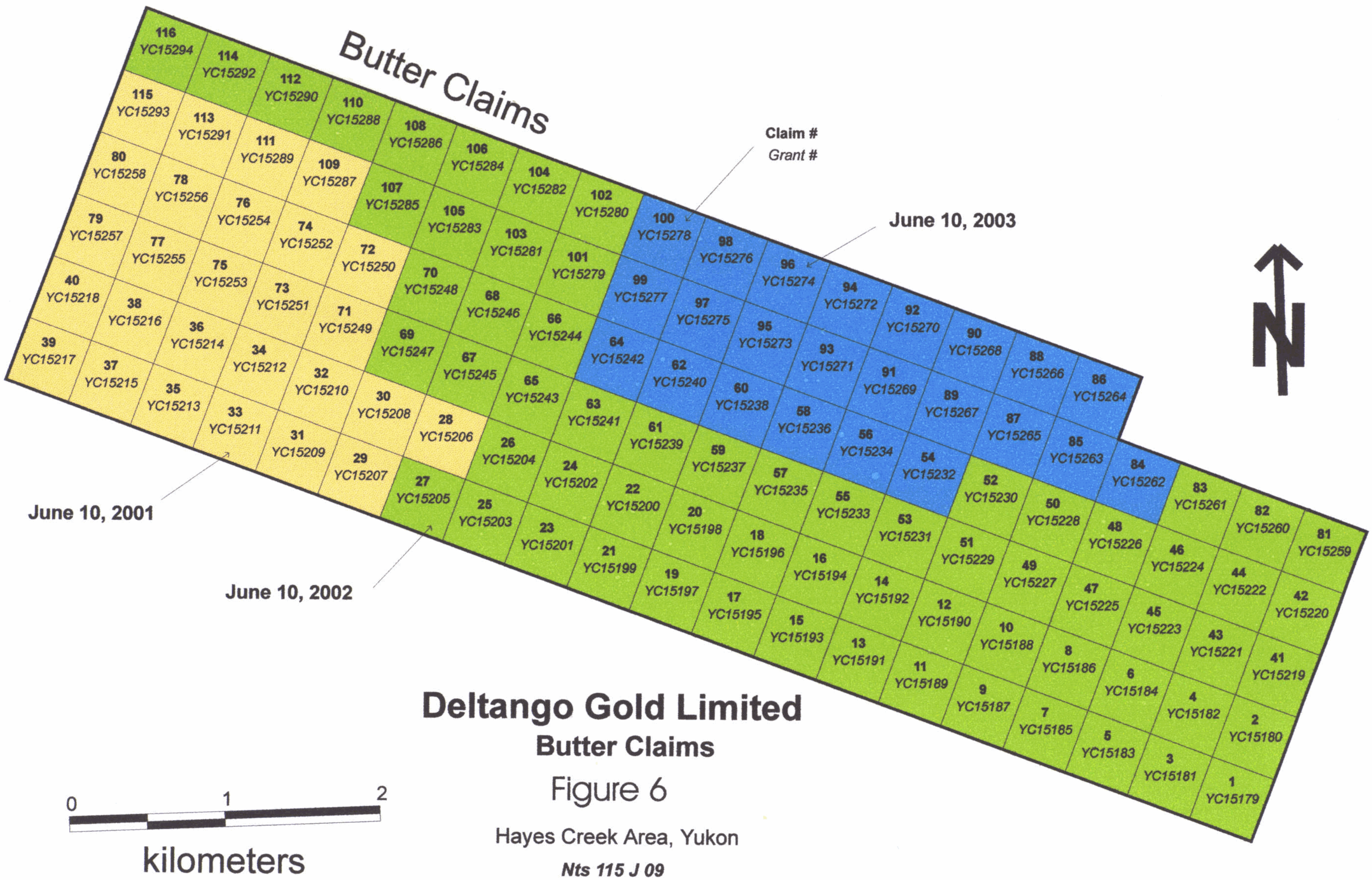


Deltango Gold Limited

Butter Claims - Whitehorse Mining District, Yukon

NTS Sheet 115 J 09

Figure 5



Deltango Gold Limited

Butter Claims

Figure 6

Hayes Creek Area, Yukon

Nts 115 J 09

Only expenses for the work done on the claims or in the near vicinity of them is included as assessment work per section 54(2) of the Yukon Quartz Mining Act. The area included as the "near vicinity" is indicated by a shaded area on Figure A-1 in Appendix A. The portion of the total field cost on and near the claim block plus an allowance for initial report preparation amount to $25,341 (Table A-2). For the purposes of calculation of work distribution samples near the claims have been allocated to a nearby claim as shown by the arrows on Figure A-1. The locations of samples collected, regardless of type, is shown by small diamond symbols and the cost attributed for the samples on a claim is also shown on Figure A-1; this is the basis for grouping for assessment filing. The expenses for samples collected on other claim blocks due to initial uncertainty of claim location or in areas far enough from the claims so their results are not relevant to the claims have not been included in the calculation of assessment work.

4 Field Work

The Butter claims was the first property investigated in the 1999 field season. The crew moved to the property on July 19th and demobilized to the Dan claims on August 2nd. The following 182 samples were collected:

Conventional Silt Samples:	64 samples
Pan Concentrate Samples:	58 samples
Soil Samples:	45 samples
Rock Samples:	15 samples

Work was conducted from three fly camps.

Field reconnaissance of the claim blocks was carried out by a crew of two samplers and one geologist. A second geologist, the author, was mapping on the property for part of the field programme. The work carried out consisted mainly of conventional stream sediment and pan concentrate sampling. This first pass drainage sampling was intended to outline areas requiring more detailed sampling or follow-up soil sampling later. A geologic reconnaissance of each area was also carried out along with limited prospecting by the geologist and samplers while traversing. Selected soil traverses were completed in areas of interest as time permitted.

4.1 Field Methods

The field methods followed were based on the successful and proven methodologies used in Alaska in the search for similar targets in comparable terrain and climate. All sample sites were marked in the field with flagging and aluminum tags stapled to a nearby tree, bush or post. Most sample locations were recorded by GPS supported by map and compass methods using a 1:50,000 topographic map. Locations are considered accurate to 20 to 50 metres.

4.1.1 Conventional stream sediment sampling

Approximately 250 gm. of stream sediment from the active stream bed (where possible) was collected by hand and placed in a Kraft paper bag. The bag was dried at ambient temperature but no further processing was done in the field. Observations were recorded at each sample site to characterize the stream type, size, setting, gradient and flow conditions, sediment type, size and colour, pH and conductivity, water colour, existence of precipitates or organics.

4.1.2 Pan Concentrate Sampling

Approximately 10 pounds (three gold pans) of minus 10 mesh stream sediment were dug from the active stream channel by shovel then screened to minus 10 mesh and panned down to approximately one pound of sediment. The pan concentrate was placed in a zip lock plastic bag and no attempt was made to dry it. In collecting the sample particular care was taken in digging the material to avoid unnecessary agitation of the sediment before screening. After panning was complete considerable care was taken to ensure that all material from the pan, especially the finest fraction, was collected in the bag. Similar records of observations noted above for silt sampling were made at the pan concentrate sample sites. In general a pan concentrate and conventional silt sample were collected together.

4.1.3 Soil Sampling

Soil sample collection utilized a 2 to 3 hp. power auger with up to two 1.5 m auger flights of approximately 5 cm. diameter. A tungsten carbide tipped "Christmas tree" shaped bit was used. A 250 gm. sample was collected from mineral soil as close to the bedrock interface as possible. The power auger was capable of collecting a sample from two to three metres depth, however in practice, frozen soil or rocks prevented reaching that depth. Most samples were collected from at least 1 m. depth. The power auger method is slower and more labor intensive than sampling by mattock or shovel but definitely produces a superior sample, since it is relatively easy to check several areas quickly for good soil samples. Sampling by power auger is also more likely to collect a useful sample in difficult situations than is sampling by shovel or mattock.

Rock chips were also collected from the soil at the sampling depth. These chips were washed and then examined to agument the geologic observations.

4.2 Analytical methods

Samples were shipped to Acme Analytical Laboratories Ltd. ("Acme") in Vancouver B.C. by bus from Whitehorse. Given the nature of the samples, there was no particular security protocol employed during the shipping of samples other than shipping in securely closed but not sealed plastic pails, which were under control of Deltango staff at all times until delivered to the bus terminal. The samples arrived at the laboratory without delay and the laboratory did not report any obvious tampering with the samples or containers.

Sample preparation for soil and conventional silt samples consisted of oven drying at 60° C and disaggregating the sample then sieving with an 80 mesh screen. A 30 gm. split of the – 80 mesh material was submitted for analysis.

Pan concentrate samples were carefully removed from the plastic bags to ensure that no fines were left in the bag. The sample was oven dried at 60°C. The entire sample was pulverized to 100 mesh (the lab claims 95% is – 100 mesh) and a 30 gm. split of the – 100 mesh pulverized material was taken for analysis.

Rock samples for trace analysis were oven dried at 60°C crushed to 10 mesh and a 400 gm split pulverized to 100 mesh. A 30 gm. split of the – 100 mesh material was taken for analysis.

Trace element analysis was by Acme's Group 1F-MS analytical package, which consists of a 1 hour hot aqua regia extraction followed by ICP mass spectrometer analysis of the leachate. Thirty-seven elements are reported (see Table 3). Detection limits claimed for this analytical method are low (Table 3) particularly for the key elements Au (0.2 ppb), As (0.1 ppm), Bi (0.02 ppm), Te (0.02 ppm). Acme claims that the method is not subject to the effects that require expensive hydride generation analysis for As, Sb, Bi, Se and Te.

It is recognized that the aqua regia extraction may not be complete for gold. Generally an aqua regia extraction is thought to be about 80 percent of a fire assay provided there are no difficult effects such as encapsulation. Replicate analyses by other methods such as fire assay for gold and hydride generation for arsenic and antimony were planned as a check on the method but due to early termination of the programme these were not completed. The analysis used is also partial for several other metals for which results are reported (see Table 3). Tin is not normally reported with this method since the digestion does not attack cassiterite but at Deltango's request a value was reported; the result for tin should be viewed with this in mind and no conclusions have been drawn from the tin results.

Table 3

Detection limits for geochemical analyses

Mo	0.01	ppm	
Cu	0.01	ppm	
Pb	0.01	ppm	
Zn	0.1	ppm	
Ag	2	ppb	
Ni	0.1	ppm	*
Co	0.1	ppm	
Mn	1	ppm	*
Fe	0.01	%	*
As	0.1	ppm	
U	0.1	ppm	*
Au	0.2	ppb	
Th	0.1	ppm	*
Sr	0.5	ppm	*
Cd	0.01	ppm	
Sb	0.02	ppm	
Bi	0.02	ppm	
V	2	ppm	*
Ca	0.01	%	*
P	0.001	%	*
La	0.5	ppm	*
Cr	0.5	ppm	*
Mg	0.01	%	*
Ba	0.5	ppm	*
Ti	0.01	%	*
B	1	ppm	*
Al	0.01	%	*
Na	0.01	%	*
K	0.01	%	*
W	0.2	ppm	*
Tl	0.02	ppm	
Hg	5	ppb	
Se	0.1	ppm	
Te	0.02	ppm	
Ga	0.02	ppm	
S	0.02	%	*
Sn		ppm	*

* Aqua Regia digestion is a partial leach for the elements marked with asterisk

A limited number of whole rock analyses were completed using Acme's Group 4A package. In this method the sample is crushed and pulverized to 100 mesh and a 0.2 gm. split of the – 100 mesh material is fused with lithium borate. The fused material is digested with 0.5 N HNO3 and analysis is done by ICP. FeO was added to the suite for this programme, this was done by titration.

5 Geology

Outcrop on the property is poor as the area is at low elevation in the un-glaciated area of the Yukon. Most of the property is heavily treed with thick mossy ground cover. Frozen soils are widespread below the thick moss. Although outcrop is very limited a fair idea of the underlying geology is possible due to rock chips in the residual soils and from the numerous blocks of rock in the soil. The opportunity to make structural observations is limited.

The geology of the Butter claims and vicinity is shown on Plate 1in Appendix D. The southern part of the claim block is underlain by coarse-grained biotite > hornblende granodiorite of Cretaceous age (Johnston, 1995). The body is homogenous and massive except within 0.5 to 1.0 km. of the northern contact. Here the granodiorite is slightly K-feldspar megacrystic in the northwest part of the claims or leucrocratic in the northeast part of the claims. These areas correspond with the bulk of elevated potassium radiometric anomalies but no alteration, quartz veining or mineralization was found. Testing with a handheld scintillometer generally confirmed this inference but the difference in potassium response between rock types within the granitic body was so subtle that the tool was not considered useful at a reconnaissance stage.

North of the granodiorite body is a meta-sedimentary and meta-volcanic sequence which includes micaceous quartzite, calcareous schist, calc-silicate and minor marble and mafic meta-volcanics. The structure of the meta-sedimentary and meta-volcanic sequence is not well known but the foliation and layering is thought to dip gently to the southwest. It appears that the calcareous meta-sediments are the structurally deepest part of the sequence and are overlain by the meta-volcanic rocks.

A fault inferred to exist based on data on the adjacent Sonora Gulch property was expected to pass north of the property. Since the fault was thought to be related to mineralization and there was known As + Sb response from the RGS data north of the claims sampling coverage and geologic reconnaissance was extended north as far as Hayes Creek. A zone of crushed and sheared rock with calc-silicate alteration and sparse sulphide dissemination was found about half way to Hayes Creek from the claim block. This zone is only a little south of where the fault was inferred to extend and is assumed to represent the fault. A few rock samples geochemically anomalous in As and Sb and the strongest anomalous silt sample on the property (sample 3037, high in Au, As, Sb, Bi, Cu, Ag, Zn, Pb, Cr, Ni, and Co) were collected from the vicinity of this zone.

An additional radiometric anomaly, a small one north of the granite contact on the Butter Claims (just north of 6,950,000 on Figure 3) and the one that best replicates the situation at Sonora Gulch, is currently unexplained. There is only a weak silt response from creeks draining this area and it is not clear if the response originates from the area of the radiometric anomaly or the fault to the north.

6 Geochemistry

Mapped results for pan concentrate and silt samples are presented in plates 2 through 13 in Appendix D. Soil sample results are shown on Plate 14 in Appendix D. There are six maps presented for each of the silt and pan concentrate samples, these maps portray a suite of 4 elements each: Au-As-Sb-Bi; Au-Bi-W-Mo; Au-Hg-Te-Se; Cu-Mo-Au-Ag; Zn-Pb-Ba-Cu and Cr-Co-Ni-Cu. The suites were selected to combine gold pathfinders, or to be suggestive of porphyry, VMS and mafic-ultramafic situations. The maps showing suites are intended to look at the relationship between elements in various samples as well as the spatial distribution of the data

Table 4 shows the results of a simple statistical analysis (mean maximum, minimum and standard deviation) of each sample type for all 33 elements analyzed for pan concentrates (58), silts (64), soils (45) and rocks (15).. For each of the 17 elements selected for plotting (of the 33 analyzed) summary statistics were compiled and colour ranges set up as shown on Table 5. Colour ranges were set up depending on the silt or pan concentrate populations. Dark blue colours were assigned for samples ranging from below detection to the 50th percentile, Cyan from the 50th to 75th percentile, yellow from 75th to 90th percentile, orange from 90th to 95th percentile, red from the 95th to 97.5th percentile and magenta above the 97.5th percentile.

The histograms and cumulative frequency plots used to determine these ranges are presented in Appendix B and certified geochemical reports for the samples in Appendix C.

In the area of the Butter Claims there is a significant difference between the area of Dawson Range Batholith granitic rocks and the metamorphics to the north in most metals for both pan concentrates and silts. The inferred fault north of the Butter Claims also appears to have a significant influence on geochemical patterns. Au, Bi, As, Sb and Mo are all high at the fault or sporadically north of it (Plates 3 and 4, in Appendix B). Similarly, Pb, Zn, Cu, Ag and Ba (Plates 6 and 7) are high in silts from streams draining in the vicinity of the fault and to the north. Cr, Ni, Co, and Cu show a similar pattern (Plate 8) perhaps suggesting there are altered ultramafics associated with the structure. One small ultramafic body is known near the Cr, Ni, Co anomalies on the west edge of the Sam Claims (Plate 8).

Within the granitic rocks geochemical response is subdued, but there is a cluster of tributaries to Butterfield Creek on the southeast end of the claim block with silts that are three to eight times local background in Mo (up to 3.3 ppm Mo). There is also a weak Cu and Mo silt response to the west on the south side of the Butter Claims (33 ppm Cu or five times background and 0.8 ppm Mo or twice background) where some weak potassic alteration and very sparse pyrite was noted in the granites. The same

Table 4

Statistical summary of samples collected from the Butter Claims and vicinity

Pan Concentrates

	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)
average	1.74	8.90	7.72	35.6	46	13.4	6.6	414	2.01	20.9	1.4	3.2	11.6	21.2	0.15	1.60	0.39	38	0.24
Std dev	0.91	8.77	7.91	24.9	70	17.2	5.1	193	0.97	30.9	0.5	4.5	7.6	10.7	0.17	2.48	1.05	25	0.19
m+2sd	3.56	26.44	23.55	85.5	187	47.8	16.7	799	3.95	82.8	2.5	12.3	26.7	42.6	0.49	6.56	2.49	87	0.62
min	0.38	1.43	1.19	7.9	5	1.2	1.0	85	0.52	0.3	0.4	0.2	2.1	6.5	0.01	0.09	0.03	8	0.09
max	4.01	36.09	49.35	90.4	472	97.7	20.6	1286	5.24	108.2	2.7	25.3	34.9	58.0	0.79	11.40	7.66	124	1.15
count	58	58	58	58	58	58	58	58	58	58	58	48	58	58	56	58	58	58	58
below det or missing	0	0	0	0	0	0	0	0	0	0	0	10	0	0	2	0	0	0	0

Conventional Silts

	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)
average	0.94	19.05	12.43	95.2	140	26.0	12.0	745	2.89	27.8	6.8	7.0	11.6	55.4	0.33	2.87	0.23	57	0.97
Std dev	1.16	14.63	7.76	52.1	278	31.8	6.0	451	0.83	46.7	6.3	11.7	4.3	34.1	0.39	7.56	0.18	15	1.46
m+2sd	3.27	48.30	27.95	199.4	696	89.6	24.0	1648	4.54	121.2	19.5	30.3	20.2	123.5	1.11	18.00	0.58	86	3.89
min	0.17	2.00	4.59	27.9	14	1.9	2.6	210	1.37	1.5	1.1	0.3	3.9	12.5	0.06	0.10	0.04	25	0.27
max	8.14	98.46	50.05	444.0	2192	188.5	42.3	2504	6.17	221.6	28.7	65.2	23.7	231.2	2.28	52.78	0.89	114	10.21
count	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
below det or missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Soils

	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)
average	1.37	18.87	17.05	90.0	478	19.9	13.5	1068	3.42	11.5	3.2	2.1	23.9	24.5	0.18	1.38	0.27	70	0.39
Std dev	0.98	19.23	16.27	34.0	607	29.5	5.6	487	0.93	41.0	2.1	2.8	10.4	15.5	0.27	3.49	0.33	29	0.18
m+2sd	3.34	57.33	49.60	158.1	1692	78.9	24.8	2042	5.27	93.6	7.5	7.7	44.6	55.4	0.71	8.36	0.94	128	0.76
min	0.24	4.48	6.76	54.0	14	2.6	5.8	438	1.72	0.8	0.8	0.3	4.1	11.5	0.04	0.24	0.08	16	0.16
max	4.40	112.66	118.53	276.4	3848	147.7	36.4	3344	5.83	279.7	9.1	16.7	41.1	84.5	1.41	20.82	2.23	154	1.08
count	45	45	45	45	45	45	45	45	45	45	45	37	45	45	45	45	45	45	45
below det or missing	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0

Rocks

	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)
average	1.09	19.47	4.46	29.6	30	89.4	17.2	342	2.10	35.6	1.1	1.3	6.5	196.1	0.04	2.21	0.13	28	7.84
Std dev	0.75	15.11	2.09	21.7	20	249.7	28.1	118	1.28	50.9	0.6	1.7	5.5	290.6	0.04	2.68	0.12	19	9.45
m+2sd	2.58	49.70	8.64	72.9	69	588.9	73.4	578	4.66	137.4	2.3	4.7	17.4	777.2	0.12	7.56	0.37	65	26.75
min	0.08	2.81	0.63	4.4	2	2.4	0.8	120	0.22	0.7	0.2	0.2	0.4	4.0	0.01	0.04	0.02	6	0.04
max	2.73	52.64	8.56	74.3	63	955.2	116.1	557	4.19	158.8	2.6	5.9	19.4	1131.4	0.15	8.72	0.38	68	31.08
count	15	15	15	15	14	14	15	15	15	15	15	10	15	15	14	15	15	14	15
below det or missing	0	0	0	0	1	1	0	0	0	0	0	5	0	0	1	0	0	1	0

Table 4 (continued)

Statistical summary of samples collected from the Butter Claims and vicinity

Pan Concentrates

	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)
average	0.04	21.2	51.2	0.28	552.8	0.03	1.4	0.62	0.04	0.14	3.5	0.08	22	0.3	0.06	2.4	0.05	mostly
Std dev	0.01	11.8	121.5	0.24	725.0	0.02	0.6	0.29	0.02	0.06	1.7	0.04	12	0.3	0.05	1.0	0.07	not
m+2sd	0.06	44.9	294.2	0.76	2002.7	0.07	2.6	1.21	0.07	0.27	6.9	0.15	46	1.0	0.17	4.3	0.19	determined
min	0.02	4.9	5.2	0.04	46.2	0.00	1.0	0.24	0.01	0.06	0.2	0.03	5	0.1	0.02	0.9	0.01	
max	0.08	55.2	864.5	0.97	2651.8	0.10	3.0	1.40	0.08	0.29	8.7	0.17	50	1.4	0.25	4.4	0.32	
count	58	58	58	58	58	58	51	58	58	58	57	58	51	37	23	58	32	
below det or missing	0	0	0	0	0	0	7	0	0	0	1	0	7	21	35	0	26	

Conventional Silts

	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)
average	0.08	28.3	36.4	0.67	311.4	0.08	1.3	1.41	0.02	0.16	0.4	0.16	64	0.5	0.04	5.0	0.05	mostly
Std dev	0.02	12.5	42.2	0.37	114.2	0.03	0.5	0.31	0.01	0.09	0.1	0.07	28	0.6	0.03	1.1	0.06	not
m+2sd	0.12	53.3	120.8	1.41	539.8	0.14	2.2	2.02	0.03	0.35	0.6	0.30	120	1.7	0.09	7.3	0.17	determined
min	0.04	9.9	2.6	0.12	114.6	0.01	1.0	0.41	0.01	0.06	0.2	0.06	9	0.1	0.02	1.6	0.01	
max	0.13	64.5	286.0	2.63	684.7	0.22	3.0	2.26	0.03	0.66	0.7	0.43	154	3.8	0.15	9.1	0.38	
count	64	64	64	64	64	64	60	64	64	64	37	64	64	60	45	64	58	
below det or missing	0	0	0	0	0	0	4	0	0	0	27	0	0	4	19	0	6	

Soils

	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)
average	0.07	29.7	56.3	0.73	289.0	0.09	1.2	1.71	0.02	0.25	13.4	0.23	48	0.3	0.03	6.3	0.02	mostly
Std dev	0.04	11.2	48.4	0.55	228.9	0.07	0.4	0.63	0.01	0.20	15.8	0.13	39	0.4	0.03	2.5	0.02	not
m+2sd	0.15	52.0	153.0	1.83	746.9	0.23	1.9	2.96	0.04	0.65	44.9	0.48	127	1.0	0.10	11.2	0.05	determined
min	0.02	6.5	5.5	0.08	105.0	0.00	1.0	0.62	0.01	0.08	0.4	0.05	5	0.1	0.02	1.2	0.01	
max	0.21	52.8	219.8	3.22	1311.4	0.35	2.0	3.21	0.05	1.28	66.8	0.82	219	2.0	0.17	14.1	0.07	
count	45	45	45	45	45	45	31	45	45	45	37	45	41	24	24	45	23	
below det or missing	0	0	0	0	0	0	14	0	0	0	8	0	4	21	21	0	22	

Rocks

	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)
average	0.04	10.8	167.8	1.73	68.0	0.07	3.1	0.94	0.03	0.33	3.6	0.15	19	0.2	0.05	3.7	0.13	mostly
Std dev	0.03	8.1	491.5	2.81	78.4	0.07	4.8	0.74	0.03	0.35	3.4	0.12	27	0.1	0.02	3.0	0.10	not
m+2sd	0.09	27.1	1150.7	7.35	224.8	0.20	12.8	2.42	0.09	1.02	10.4	0.39	74	0.3	0.10	9.7	0.33	determined
min	0.01	0.8	3.3	0.06	10.4	0.01	1.0	0.03	0.00	0.01	0.5	0.02	5	0.1	0.02	0.1	0.01	
max	0.11	28.1	1941.9	11.67	328.8	0.20	14.0	2.50	0.09	1.06	12.9	0.42	68	0.3	0.10	9.1	0.30	
count	15	15	15	15	15	14	7	15	15	15	15	13	5	8	10	15	13	
below det or missing	0	0	0	0	0	1	8	0	0	0	0	2	10	7	5	0	2	

Table 5

Butter Claims
Summary Statistics and colour ranges used for map preparation

Silts

		Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)	Sb (ppm)	Bi (ppm)	Cr (ppm)	Ba (ppm)	W (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)
average		0.94	19.05	12.43	95.2	140	26.0	12.0	27.8	7.0	2.87	0.23	36.4	311.4	0.4	64	0.5	0.04
Std dev		1.16	14.63	7.76	52.1	278	31.8	6.0	46.7	11.7	7.56	0.18	42.2	114.2	0.1	28	0.6	0.03
m+2sd		3.27	48.30	27.95	199.4	696	89.6	24.0	121.2	30.3	18.00	0.58	120.8	539.8	0.6	120	1.7	0.09
min		0.17	2.00	4.59	27.9	14	1.9	2.6	1.5	0.3	0.10	0.04	2.6	114.6	0.2	9	0.1	0.02
max		8.14	98.46	50.05	444.0	2192	188.5	42.3	221.6	65.2	52.78	0.89	286.0	684.7	0.7	154	3.8	0.15
count		64	64	64	64	64	64	64	64	64	64	64	64	64	37	64	60	45
below det or missing		0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	4	19
mode		0.25	9	9.5	65	45	11	8	4.5	1.5	0.45	0.125	17	230	0.15	45	0.15	0.005
median (50th %ile)	max for dk blue	0.5	13	9	82	70	14	9.5	4.8	3	0.4	0.13	22	260	0.12	55	0.24	0.012
75th %ile	max for cyan	1	23	13	100	130	29	13	26	6	1.7	0.25	35	390	0.23	80	0.38	0.03
90th %ile	max for yellow	2	34	23	125	195	48	16	90	15	8.2	0.4	57	450	0.45	98	0.8	0.05
95th %ile	max for orange	2.7	42	25	130	345	98	22	120	20	8.8	0.6	86	500	0.51	105	1.4	0.072
97.5th %ile	max for red	3.3	46	34	200	560	136	28	175	35	10.5	0.8	174	540	0.54	110	1.7	0.1

Pan Concentrates

		Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	As (ppm)	Au (ppb)	Sb (ppm)	Bi (ppm)	Cr (ppm)	Ba (ppm)	W (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)
average		1.74	8.90	7.72	35.6	46	13.4	6.6	20.9	3.2	1.60	0.39	51.2	552.8	3.5	22	0.3	0.06
Std dev		0.91	8.77	7.91	24.9	70	17.2	5.1	30.9	4.5	2.48	1.05	121.5	725.0	1.7	12	0.3	0.05
m+2sd		3.56	26.44	23.55	85.5	187	47.8	16.7	82.8	12.3	6.56	2.49	294.2	2002.7	6.9	46	1.0	0.17
min		0.38	1.43	1.19	7.9	5	1.2	1.0	0.3	0.2	0.09	0.03	5.2	46.2	0.2	5	0.1	0.02
max		4.01	36.09	49.35	90.4	472	97.7	20.6	108.2	25.3	11.40	7.66	864.5	2651.8	8.7	50	1.4	0.25
count		58	58	58	58	58	58	58	58	48	58	58	58	58	57	51	37	23
below det or missing		0	0	0	0	0	0	0	0	10	0	0	0	0	1	7	21	35
mode		0.9	3.5	2.5	17.5	12.5	3	2.5	1.5	0.25	0.15	0.55	12.5	125	2.75	5	0.025	0.005
median (50th %ile)	max for dk blue	1.5	4	4	22	15	5	4.5	5	0.8	0.3	0.1	10	150	3	19	0.045	0.005
75th %ile	max for cyan	2.1	14	9.5	54	58	16	9	27	3	1.8	0.3	25	700	4	25.5	0.23	0.032
90th %ile	max for yellow	2.9	21.5	19	76	98	30	14.5	84	7.3	5.4	0.53	115	1850	5.4	38	0.64	0.062
95th %ile	max for orange	3.5	29	20	84	142	42	16.5	96	11.8	8.6	1.4	220	2250	6.2	40	0.75	0.085
97.5th %ile	max for red	3.8	34	24	86	175	64	18	102	12.4	9.1	1.75	260	2350	8	42	0.96	0.16

drainage is relatively high in Cr, Ni, and Co, but no other metals suggestive of ultramafic or mafic lithologies.

A quite weak Au±Bi±W response occurs on the central Butter Claims. The gold in silt there is three to four times background for the granites, but only reaches 16 ppb Au with W of 0.6 ppm (several times background) and Bi up to 0.35 ppm (just above background).

Pan concentrates show a similar picture as the conventional silts. Most metals are higher in the metamorphics north of the claim block. The response in the granite is marked by scattered Mo response of two to three times background, but with no pattern and no support for the areas weakly anomalous in the conventional silts.

Gold response everywhere in pan concentrates is very low (13 ppb and less) and generally lower than in silts from the same locations suggesting, in the area sampled, there is no free gold sufficiently coarse to affect its settling characteristics.

The limited Au and Bi response in the pan concentrates points to the area of the fault zone (or the metamorphics in general) as a possible source. The same is true of Sb and As (Plates 9 to 12). The metamorphics show generally elevated Cu, Pb, Zn, Ba response (Plate 13) in the pan concentrates similar to the conventional silts although in both cases the numbers, though above the overall property background, are not particularly high and, considering the widespread distribution, may reflect higher background in the meta-sediments and meta-volcanics. Cr, Ni and, to a lesser extent Co, in pan concentrates vector strongly toward the known ultramafic bodies with a tendency toward a generally higher background in the metamorphics, perhaps due to their mafic meta-volcanic component.

Soil sampling results did not reveal any areas of immediate interest. Several of the samples are relatively high in tungsten (up to 60-80 ppm), however, this is thought to be related to contamination of the sample by wear of the carbide auger bit, as there is no relation to the tungsten silt results (actually well upstream of the weak silt response on the central Butter Claims noted above).

7 Conclusions and Recommendations

On the claims, the area of the small radiometric anomaly north of the granite contact should be further prospected and the area should be checked with a small soil grid.

The more interesting area is north of the claim block in the area of the Schist-Gneiss unit and the fault where additional follow-up would be worthwhile. This work should include detailed prospecting additional more detailed silt sampling and/or some soil traverses over the trace of the projected fault. Should the results be encouraging then, additional soil sampling may be warranted. More staking would be required to cover the target areas.

Respectfully submitted,

Gregg Jilson

8 References

Geological Survey of Canada 1986: National Geochemical Reconnaissance Stream Sediment and Water Data, Western Yukon, (NTS 115J and 115K E1/2) Geological Survey of Canada. Open File 1363.

Geological Survey of Canada, 1994. Airborne Geophysical Survey, Selwyn River East, Yukon Territory. (NTS 115J/09, 115I/12). Open File 2816.

Johnston, S.T., 1995. Geological compilation with interpretation from geophysical surveys of the northern Dawson Range, central Yukon (115 J/9 & 10; 115 I/12) (1:100, 000 scale map). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1995 - 2 (G).

Payne, J.G. Gonzalez, R.A., Akhurst, K., and Sisson, W.G., 1987. Geology of Colorado Creek (115-J/10), Selwyn River (115 J/09), and Prospector Mountain (115 I/05) map areas, western Dawson Range, west-central Yukon. Exploration and Geological Services Division, Indian and Northern Affairs Canada, Yukon Region, Open File 1987-3, 141 p.

Tempelman-Kluit, D.J., 1974. Reconnaissance geology of Aishihik Lake, Snag and part of Stewart River map areas, west-central Yukon Territory. Geological Survey of Canada, Paper 73-14, 93 p.

Wheeler, J.O., and McFeely, P., 1991. Tectonic Assemblage map of the Canadian Cordillera and adjacent parts of the United States of America. In: Gabrielse, H. and Yorath, C.J. (editors), Geology of Canada no. 4: Geology of the Cordilleran Orogen in Canada.

Appendix A

Summary and Allocation of Costs

Deltango Gold Limited

12/5/00 08:02

Tintina Gold Belt Project

Table A-1 Field Programme Cost Summary as of November 30, 1999

Total $ 115,540.64

Field work	**$ 70,359.30**		
Field Equipment and supplies - 50% to project		$ 8,236.41	
Neville Crosby			*$ 7,053.85*
shipping			*$ 755.92*
on Expense acct Brownlee			*$ 776.50*
on Expense acct Jilson			*$ 7,886.55*
Vehicle		$ 3,779.44	
Norcan			*$ -*
Moneypenny			*$ -*
Blackfox			*$ 851.20*
GAJ Inc			*$ 2,928.24*
Rotary Wing		$ 36,524.34	
Trans North			*$ 36,524.34*
Fixed Wing		$ 4,793.41	
Summit Air			*$ 1,200.00*
Bonanza Air			*$ 3,593.41*
Geochemistry and Assaying		$ 12,006.98	
Acme Analytical			*$ 11,024.55*
shipping			*$ 886.43*
Pro-Western Plastics (pails) - 1/3 of total			*$ 96.00*
Geophysics		*$ 535.00*	
T. Haseck & Associates			*$ 535.00*
Groceries and Camp consumables		$ 3,233.72	
Groceries			*$ 2,983.19*
Consumables			*$ 250.53*
Expediting		$ 1,250.00	
Moneypenny			*$ 1,250.00*
Staff	**$ 45,181.35**		
Salaries & Consulting Fees		$ 44,482.55	
Gregg Jilson			*$ 8,100.00* thru Sept
Doug Brownlee			*$ 18,000.00*
Field Techs.			*$ 18,382.55*
Expenses		$ 698.80	
Travel Accomodation & meals			*$ 698.80*
other expenses			

I certify the above costs are an accurate summary [signature]

Gregg Jilson

Dated Dec 5 2000

Deltango Gold Limited - Tintina Gold Belt Project

Table A-2 Distribution of Work and Costs

Physical Work Distribution

	start	finish	days	% of days	silts	pans	soils	rock chips	whole rocks	total samples	% of samples	percent on & near
Butter	19-Jul-99	2-Aug-99	14	33%	64	58	45	15		182	28%	50%
Dan Man Indy (DMI)	3-Aug-99	20-Aug-99	17	40%	84	82	68	44	3	281	44%	66%
Au & P (WR)	25-Aug-99	6-Sep-99	12	28%	43	68	37	26	4	178	28%	80%
			43		191	208	150	85	7	641		

Physical work breakdown within DMI (Dan, Man & Indy claims) and WR (White River = Au & P claims) Areas

							silt+soil+pan+rock+WR				
	silts	pans	soils	rock chips	whole rocks	total samples	# samples on cls.	# samples near cls.	# samples on nearby cls.	# samples off cls.	percent on & near
Dan	39	45	60	34	1	179	67	28	24	30	64%
Man	12	11	0	0	0	23	28	6	3	10	72%
Indy	32	26	8	10	2	78	12	31	0	20	68%
	83	82	68	44	3	280	107	65	27	60	66%
Au			not				14	50	0	7	90%
P			differentiated				22	26	5	16	70%
	43	68	37	26	4	178	36	76	5	23	80%

Total Cost Distribution

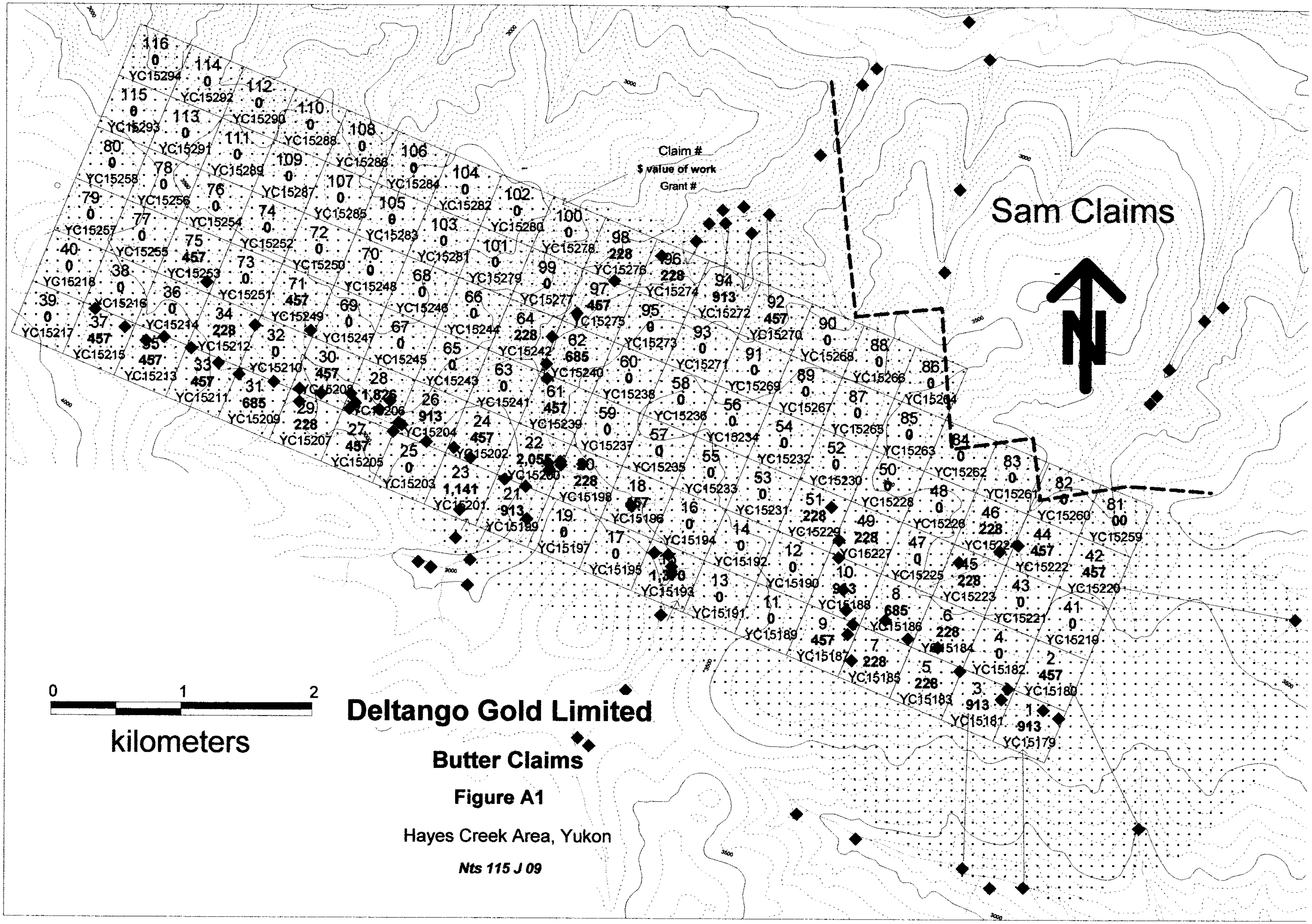
Field Costs			
camp,staff,vehicle,expediting,travel	$	61,681	split by days, then by number of samples within DMI and WR
geochemical	$	12,007	split by samples
geophysics	$	535	all to Butter
helicopter	$	36,524	split by ticket, then number of samples within DMI and WR
fixed wing	$	4,793	split by ticket, then number of samples within DMI and WR
	$	**115,541**	**sub-total field cost, equals total of Table A-1**
report preparation	$	11,600	split equally, Butter, DMI and WR - not included in Table A-1
total	**$**	**127,141**	

Cost Distribution by Property, split as noted above

	part of daily split costs	part of geoch costs	part of copter costs	part of fixed wing costs	geophysics cost	sub-total field cost	part on and near claims	report preparation	total cost	no. of claims	dollars per claim
Butter	**$ 20,082**	**$ 3,409**	**$ 11,183**	**$ -**	**$ 535**	**$ 35,210**	$ 17,605	$ 3,867	$ 21,471	116	$ 185
Dan Man Indy	$ 24,385	$ 5,264	$ 17,638	$ 3,024	$ -	$ 50,311	$ 33,411	$ 3,867	$ 37,278	354	$ 105
Au & P	$ 17,213	$ 3,334	$ 7,703	$ 1,769	$ -	$ 30,020	$ 24,016	$ 3,867	$ 27,883	125	$ 223
	$ 61,681	$ 12,007	$ 36,524	$ 4,793	$ 535	**$ 115,541**	$ 75,032	$ 11,600	$ 86,632	595	

Calculation of Cost per geochemical Sample

	Butter	DMI	Au P	
cost	**$ 35,210**	$ 50,311	$ 30,020	
total # samples	182	282	179	
field cost/sample	$ 193.46	$ 178.41	$ 167.71	
# samples on claims	88	106	44	
# samples near claims	23	62	72	
# samples on and near	111	168	117	
# samples on other claims	21	35	17	
# samples outside	50	79	45	
cost for samp.on and near claims	$ 21,474	$ 29,972	$ 19,622	
report prep	$ 3,867	$ 3,867	$ 3,867	
total qualifying cost	**$ 25,341**	$ 33,839	$ 23,489	
# of claims	116	354	125	
$/claim	$ 218	$ 96	$ 188	
$/sample on and near	**$ 228.29**	**$ 201.42**	**$ 200.76**	**used to calculate work distribution on Figure A1**


Sam Claims
Claim #
$ value of work
Grant #
N
0
1
2
kilometers
Deltango Gold Limited
Butter Claims
Figure A1
Hayes Creek Area, Yukon
Nts 115 J 09

Appendix B

Statistical Summary

- Correlation matrices
- Histograms for 17 plotted elements
- Cumulative histograms for 17 plotted elements

Appendix B - Table 1

Correlation matrix for Silt samples
For samples from the Butter Claims

	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)	
Mo (ppm)	1.000	0.794	0.372	0.839	0.315	0.546	0.528	0.216	0.475	0.498	0.061	0.063	-0.244	-0.068	0.699	0.819	0.242	0.454	-0.009	0.141	-0.250	0.217	0.129	0.294	-0.111	0.131	0.057	-0.107	0.413	-0.155	0.543	0.219	0.746	0.684	0.070	0.447	1.000	Mo (ppm)
Cu (ppm)		1.000	0.543	0.870	0.499	0.776	0.587	-0.051	0.412	0.536	-0.126	0.191	-0.472	0.143	0.804	0.818	0.382	0.474	0.216	0.175	-0.365	0.511	0.431	0.415	0.047	0.468	0.315	0.090	0.405	-0.223	0.596	0.187	0.839	0.759	0.165	0.511	1.000	Cu (ppm)
Pb (ppm)			1.000	0.530	0.747	0.668	0.399	-0.089	0.206	0.724	-0.175	0.698	-0.130	-0.123	0.742	0.610	0.833	0.047	-0.003	-0.148	-0.134	0.691	0.476	0.136	-0.170	0.238	0.376	-0.196	0.308	-0.103	0.441	0.125	0.175	0.627	0.208	0.276	1.000	Pb (ppm)
Zn (ppm)				1.000	0.473	0.695	0.541	0.146	0.511	0.502	-0.068	0.193	-0.283	0.065	0.845	0.934	0.339	0.404	0.034	0.274	-0.237	0.379	0.252	0.363	-0.037	0.331	0.240	0.097	0.453	-0.230	0.685	0.211	0.811	0.767	0.145	0.499	1.000	Zn (ppm)
Ag (ppb)					1.000	0.741	0.314	-0.127	0.142	0.548	-0.127	0.649	-0.159	-0.022	0.806	0.586	0.605	0.048	0.064	-0.240	-0.113	0.771	0.393	0.104	-0.065	0.296	0.306	0.076	0.267	-0.075	0.375	0.149	0.205	0.475	0.171	0.193	1.000	Ag (ppb)
Ni (ppm)						1.000	0.700	-0.025	0.413	0.636	-0.213	0.492	-0.415	0.003	0.781	0.763	0.494	0.389	0.117	0.094	-0.330	0.899	0.734	0.099	0.128	0.236	0.346	0.148	0.304	-0.231	0.444	0.112	0.460	0.605	0.161	0.285	1.000	Ni (ppm)
Co (ppm)							1.000	0.452	0.729	0.747	-0.280	0.216	-0.481	0.000	0.498	0.510	0.324	0.581	0.126	0.171	-0.387	0.582	0.610	0.221	0.198	0.101	0.287	0.049	0.283	-0.295	0.381	0.254	0.415	0.424	0.194	0.353	1.000	Co (ppm)
Mn (ppm)								1.000	0.627	0.171	-0.108	-0.109	-0.018	-0.065	0.004	0.069	-0.146	0.331	-0.100	-0.072	-0.023	-0.086	-0.102	0.162	0.029	-0.070	0.059	-0.071	0.106	-0.064	0.142	0.460	0.078	-0.085	0.183	-0.003	1.000	Mn (ppm)
Fe (%)									1.000	0.445	-0.140	0.030	-0.161	0.026	0.332	0.400	0.167	0.606	-0.006	0.202	-0.082	0.270	0.317	0.258	0.123	0.025	0.276	-0.045	0.331	-0.233	0.437	0.325	0.397	0.333	0.256	0.297	1.000	Fe (%)
As (ppm)										1.000	-0.284	0.466	-0.366	-0.188	0.652	0.579	0.650	0.220	0.005	0.049	-0.354	0.591	0.408	0.209	-0.198	0.038	0.142	-0.181	0.220	-0.152	0.349	0.198	0.286	0.571	0.005	0.365	1.000	As (ppm)
U (ppm)											1.000	-0.205	0.509	0.364	-0.135	-0.075	-0.227	-0.043	-0.090	0.015	0.548	-0.234	-0.214	-0.125	0.049	0.139	0.065	0.234	-0.008	0.091	0.061	0.162	-0.101	-0.185	0.102	-0.064	1.000	U (ppm)
Au (ppb)												1.000	-0.111	-0.171	0.458	0.332	0.732	-0.083	-0.028	-0.111	-0.188	0.607	0.403	-0.243	-0.106	0.016	0.150	-0.054	0.079	0.163	0.122	-0.066	-0.109	0.348	0.060	0.170	1.000	Au (ppb)
Th (ppm)													1.000	-0.035	-0.314	-0.242	-0.147	-0.100	-0.265	-0.121	0.799	-0.316	-0.301	-0.266	-0.025	-0.030	0.082	-0.178	0.131	0.198	0.084	0.100	-0.485	-0.297	0.268	-0.228	1.000	Th (ppm)
Sr (ppm)														1.000	0.024	-0.067	-0.152	-0.083	0.742	0.238	0.194	-0.051	-0.010	0.251	-0.015	0.549	0.000	0.360	-0.107	0.124	0.066	0.239	0.288	-0.102	-0.110	0.230	1.000	Sr (ppm)
Cd (ppm)															1.000	0.869	0.556	0.251	0.091	0.005	-0.271	0.605	0.309	0.343	-0.138	0.389	0.249	0.051	0.369	-0.067	0.563	0.194	0.606	0.737	0.120	0.456	1.000	Cd (ppm)
Sb (ppm)																1.000	0.427	0.329	-0.041	0.189	-0.245	0.490	0.264	0.157	-0.094	0.140	0.162	0.079	0.410	-0.133	0.591	0.161	0.691	0.794	0.075	0.482	1.000	Sb (ppm)
Bi (ppm)																	1.000	-0.014	-0.007	-0.109	-0.139	0.589	0.433	0.015	-0.147	0.111	0.258	-0.265	0.242	0.119	0.285	0.050	0.030	0.611	0.119	0.468	1.000	Bi (ppm)
V (ppm)																		1.000	-0.071	0.072	-0.191	0.228	0.443	0.084	0.555	0.155	0.420	0.115	0.397	-0.087	0.411	0.158	0.346	0.406	0.561	0.097	1.000	V (ppm)
Ca (%)																			1.000	0.082	-0.139	0.089	0.119	0.147	-0.126	0.559	-0.130	0.004	-0.036	-0.087	0.014	0.069	0.351	-0.041	-0.206	0.227	1.000	Ca (%)
P (%)																				1.000	-0.104	-0.103	0.049	0.119	-0.107	-0.219	-0.329	0.179	-0.236	0.226	-0.052	-0.106	0.394	0.336	-0.385	0.283	1.000	P (%)
La (ppm)																					1.000	-0.238	-0.254	-0.016	-0.128	0.042	0.225	-0.066	0.065	-0.022	0.066	0.295	-0.348	-0.325	0.221	-0.157	1.000	La (ppm)
Cr (ppm)																						1.000	0.789	-0.048	0.151	0.235	0.407	0.092	0.217	-0.167	0.287	0.085	0.098	0.357	0.206	0.169	1.000	Cr (ppm)
Mg (%)																							1.000	-0.108	0.480	0.165	0.485	0.037	0.281	-0.235	0.257	-0.071	0.047	0.284	0.379	0.107	1.000	Mg (%)
Ba (ppm)																								1.000	-0.148	0.422	0.181	0.047	0.128	-0.151	0.330	0.329	0.474	0.176	0.046	0.118	1.000	Ba (ppm)
Ti (%)																									1.000	0.125	0.525	0.382	0.408	-0.184	0.259	-0.177	-0.092	-0.187	0.675	-0.156	1.000	Ti (%)
B (ppm)																										1.000	0.319	0.069	0.297	-0.014	0.439	0.201	0.391	0.012	0.298	0.350	#DIV/0!	B (ppm)
Al (%)																											1.000	0.189	0.503	-0.309	0.521	0.287	0.004	-0.062	0.871	-0.035	1.000	Al (%)
Na (%)																												1.000	-0.176	0.019	-0.059	-0.032	0.093	-0.125	0.081	-0.088	1.000	Na (%)
K (%)																													1.000	-0.197	0.874	0.026	0.306	0.289	0.606	0.188	1.000	K (%)
W (ppm)																														1.000	-0.173	0.092	-0.181	0.095	-0.289	0.085	#DIV/0!	W (ppm)
Tl (ppm)																															1.000	0.218	0.525	0.450	0.548	0.280	1.000	Tl (ppm)
Hg (ppb)																																1.000	0.213	0.014	0.223	0.143	1.000	Hg (ppb)
Se (ppm)																																	1.000	0.606	-0.083	0.508	1.000	Se (ppm)
Te (ppm)																																		1.000	-0.082	0.581	#DIV/0!	Te (ppm)
Ga (ppm)																																			1.000	-0.066	1.000	Ga (ppm)
S (%)																																				1.000	#DIV/0!	S (%)
Sn (ppm)																																					1.000	Sn (ppm)

Appendix B - Table 1
Correlation Matrix for Silt Sample Results

Appendix B - Table 2

Correlation matrix for Pan samples
For samples from the Butter Claims

	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)	
Mo (ppm)	1.000	0.397	0.372	0.317	0.406	0.384	0.365	0.280	0.485	0.305	0.171	0.221	0.202	0.148	0.356	0.375	0.352	0.409	0.301	0.090	0.165	0.335	0.229	0.181	0.335	0.098	0.309	0.323	0.314	0.438	0.239	0.310	0.280	0.272	0.393	0.386	-0.995	Mo (ppm)
Cu (ppm)		1.000	0.640	0.880	0.760	0.857	0.865	0.388	0.556	0.732	0.110	0.509	-0.107	0.702	0.774	0.699	0.480	0.235	0.837	0.626	-0.097	0.487	0.788	0.681	0.376	0.250	0.757	-0.304	0.456	0.229	0.564	0.567	0.746	0.234	0.626	0.567	-0.992	Cu (ppm)
Pb (ppm)			1.000	0.688	0.829	0.746	0.710	0.329	0.478	0.767	0.160	0.352	0.102	0.478	0.843	0.792	0.778	0.147	0.574	0.402	0.102	0.731	0.699	0.445	0.258	0.432	0.659	-0.174	0.612	0.256	0.628	0.458	0.231	0.629	0.599	0.795	-0.442	Pb (ppm)
Zn (ppm)				1.000	0.605	0.683	0.807	0.453	0.471	0.761	0.195	0.381	-0.055	0.724	0.836	0.732	0.333	0.173	0.635	0.671	-0.037	0.324	0.783	0.832	0.286	0.523	0.854	-0.435	0.669	0.052	0.780	0.658	0.809	0.107	0.701	0.450	-0.940	Zn (ppm)
Ag (ppb)					1.000	0.818	0.635	0.223	0.507	0.689	0.118	0.481	0.073	0.432	0.798	0.785	0.841	0.228	0.696	0.411	0.082	0.785	0.565	0.296	0.346	0.065	0.466	-0.073	0.272	0.453	0.324	0.323	0.361	0.711	0.452	0.779	-0.999	Ag (ppb)
Ni (ppm)						1.000	0.867	0.320	0.566	0.667	0.062	0.411	-0.057	0.587	0.696	0.716	0.719	0.224	0.815	0.521	-0.030	0.801	0.821	0.424	0.400	0.200	0.679	-0.184	0.451	0.295	0.503	0.385	0.396	0.477	0.586	0.671	-0.969	Ni (ppm)
Co (ppm)							1.000	0.494	0.653	0.752	0.122	0.422	0.023	0.671	0.667	0.642	0.494	0.303	0.777	0.580	0.031	0.533	0.945	0.639	0.440	0.427	0.900	-0.315	0.680	0.146	0.718	0.544	0.473	0.227	0.812	0.603	-0.964	Co (ppm)
Mn (ppm)								1.000	0.498	0.273	0.340	0.266	0.434	0.567	0.263	0.226	0.142	0.354	0.367	0.360	0.325	0.170	0.444	0.295	0.333	0.123	0.499	-0.101	0.419	-0.003	0.502	0.213	0.459	-0.075	0.626	0.156	-0.435	Mn (ppm)
Fe (%)									1.000	0.352	0.510	0.191	0.633	0.524	0.367	0.396	0.528	0.894	0.614	0.535	0.595	0.514	0.505	0.336	0.641	0.043	0.518	0.208	0.403	0.496	0.402	0.269	0.395	0.619	0.809	0.517	0.064	Fe (%)
As (ppm)										1.000	0.022	0.456	-0.112	0.416	0.811	0.830	0.445	0.025	0.478	0.386	-0.125	0.399	0.743	0.561	0.179	0.425	0.735	-0.402	0.594	0.148	0.683	0.566	0.462	0.232	0.575	0.626	-0.991	As (ppm)
U (ppm)											1.000	-0.056	0.651	0.313	0.221	0.209	0.155	0.595	0.067	0.270	0.556	0.134	-0.004	0.087	0.181	-0.101	0.035	0.212	0.064	0.210	0.157	0.098	0.323	0.407	0.316	0.045	0.363	U (ppm)
Au (ppb)												1.000	-0.110	0.289	0.394	0.374	0.270	0.035	0.385	0.320	-0.100	0.272	0.368	0.320	0.155	0.055	0.346	-0.103	0.070	0.088	0.184	0.094	0.269	0.070	0.244	0.255	-1.000	Au (ppb)
Th (ppm)													1.000	0.092	-0.052	0.050	0.176	0.776	-0.007	0.124	0.940	0.157	-0.083	-0.176	0.380	-0.162	-0.017	0.417	0.066	0.375	0.040	-0.065	-0.059	0.557	0.425	0.012	0.938	Th (ppm)
Sr (ppm)														1.000	0.501	0.336	0.306	0.234	0.755	0.823	0.108	0.341	0.675	0.693	0.188	0.285	0.647	-0.279	0.434	0.039	0.555	0.381	0.630	0.186	0.567	0.326	-0.945	Sr (ppm)
Cd (ppm)															1.000	0.841	0.581	0.083	0.543	0.409	-0.046	0.549	0.617	0.556	0.195	0.389	0.624	-0.270	0.511	0.202	0.590	0.616	0.554	0.486	0.505	0.648	-0.122	Cd (ppm)
Sb (ppm)																1.000	0.580	0.143	0.417	0.344	0.049	0.560	0.607	0.396	0.219	0.327	0.589	-0.194	0.490	0.315	0.597	0.394	0.496	0.425	0.518	0.589	-0.998	Sb (ppm)
Bi (ppm)																	1.000	0.308	0.556	0.294	0.191	0.898	0.423	0.132	0.307	-0.024	0.289	0.084	0.190	0.500	0.198	0.141	0.007	0.821	0.362	0.805	-0.961	Bi (ppm)
V (ppm)																		1.000	0.286	0.328	0.723	0.293	0.135	0.100	0.620	-0.176	0.198	0.416	0.154	0.504	0.130	0.048	0.350	0.545	0.614	0.190	0.484	V (ppm)
Ca (%)																			1.000	0.637	0.016	0.589	0.721	0.472	0.389	0.208	0.598	-0.144	0.336	0.273	0.390	0.386	0.385	0.341	0.539	0.584	-0.290	Ca (%)
P (%)																				1.000	0.191	0.329	0.567	0.636	0.281	0.235	0.567	-0.252	0.365	0.085	0.502	0.234	0.677	0.344	0.528	0.312	0.438	P (%)
La (ppm)																					1.000	0.188	-0.069	-0.130	0.361	-0.108	0.000	0.399	0.065	0.402	0.002	-0.074	-0.097	0.503	0.386	0.016	0.804	La (ppm)
Cr (ppm)																						1.000	0.492	0.065	0.305	-0.003	0.341	0.163	0.258	0.399	0.246	0.116	0.014	0.704	0.387	0.696	0.904	Cr (ppm)
Mg (%)																							1.000	0.626	0.346	0.531	0.927	-0.424	0.738	0.003	0.758	0.478	0.369	0.099	0.776	0.557	-0.932	Mg (%)
Ba (ppm)																								1.000	0.117	0.471	0.738	-0.463	0.530	-0.069	0.640	0.595	0.757	-0.014	0.527	0.164	-0.995	Ba (ppm)
Ti (%)																									1.000	-0.074	0.357	0.169	0.313	0.392	0.266	0.084	0.403	0.276	0.613	0.337	0.191	Ti (%)
B (ppm)																										1.000	0.609	-0.389	0.735	-0.223	0.634	0.386	0.023	-0.285	0.406	0.088	-0.809	B (ppm)
Al (%)																											1.000	-0.344	0.853	0.017	0.857	0.589	0.513	-0.134	0.859	0.442	-0.883	Al (%)
Na (%)																												1.000	-0.204	0.584	-0.286	-0.270	-0.325	0.233	-0.064	0.016	0.884	Na (%)
K (%)																													1.000	0.019	0.902	0.458	0.246	-0.213	0.777	0.334	-0.491	K (%)
W (ppm)																														1.000	-0.045	0.009	0.064	0.555	0.215	0.379	-1.000	W (ppm)
Tl (ppm)																															1.000	0.525	0.482	-0.134	0.752	0.351	-0.104	Tl (ppm)
Hg (ppb)																																1.000	0.549	-0.008	0.441	0.288	-0.144	Hg (ppb)
Se (ppm)																																	1.000	-0.029	0.453	0.007	-1.000	Se (ppm)
Te (ppm)																																		1.000	0.170	0.568	#DIV/0!	Te (ppm)
Ga (ppm)																																			1.000	0.495	-0.706	Ga (ppm)
S (%)																																				1.000	-1.000	S (%)
Sn (ppm)																																					1.000	Sn (ppm)

Appendix B - Table 3

Correlation matrix for Soil samples
For samples from the Butter Claims

	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)
Mo (ppm)	1.000	0.418	0.017	0.374	0.125	0.155	0.364	0.350	0.136	0.487	0.119	0.262	-0.277	0.190	0.403	0.157	0.224	-0.131	0.193
Cu (ppm)		1.000	0.020	0.709	-0.077	0.704	0.709	0.111	0.512	0.766	-0.098	0.236	-0.540	0.526	0.569	0.322	0.030	0.308	0.641
Pb (ppm)			1.000	0.157	0.018	-0.161	-0.157	0.347	-0.146	0.076	0.453	-0.092	0.295	-0.110	0.673	0.074	0.341	-0.405	-0.131
Zn (ppm)				1.000	-0.080	0.226	0.409	0.355	0.615	0.833	0.227	0.194	-0.136	0.161	0.652	0.470	0.089	0.309	0.335
Ag (ppb)					1.000	-0.084	-0.056	-0.027	-0.316	-0.032	0.242	0.742	0.278	-0.160	-0.001	-0.071	-0.056	-0.261	-0.119
Ni (ppm)						1.000	0.849	-0.141	0.426	0.267	-0.220	0.073	-0.584	0.598	0.138	0.089	-0.094	0.388	0.683
Co (ppm)							1.000	0.041	0.640	0.314	-0.083	0.138	-0.492	0.645	0.170	0.221	-0.016	0.491	0.804
Mn (ppm)								1.000	0.244	0.171	0.270	-0.167	0.228	-0.181	0.291	0.122	0.343	-0.188	0.027
Fe (%)									1.000	0.250	0.112	0.001	-0.264	0.286	0.070	0.213	0.026	0.800	0.468
As (ppm)										1.000	-0.074	0.201	-0.303	0.159	0.707	0.497	0.055	0.054	0.238
U (ppm)											1.000	0.360	0.335	-0.035	0.223	-0.016	0.220	-0.123	-0.040
Au (ppb)												1.000	-0.089	0.057	0.120	0.002	-0.085	0.074	0.041
Th (ppm)													1.000	-0.466	-0.144	-0.103	-0.014	-0.349	-0.396
Sr (ppm)														1.000	0.105	0.017	-0.126	0.244	0.797
Cd (ppm)															1.000	0.345	0.176	-0.173	0.155
Sb (ppm)																1.000	0.113	-0.021	0.136
Bi (ppm)																	1.000	-0.169	-0.112
V (ppm)																		1.000	0.326
Ca (%)																			1.000
P (%)																			
La (ppm)																			
Cr (ppm)																			
Mg (%)																			
Ba (ppm)																			
Ti (%)																			
B (ppm)																			
Al (%)																			
Na (%)																			
K (%)																			
W (ppm)																			
Tl (ppm)																			
Hg (ppb)																			
Se (ppm)																			
Te (ppm)																			
Ga (ppm)																			
S (%)																			
Sn (ppm)																			

	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)	
Mo (ppm)	0.114	-0.191	0.627	-0.090	0.095	-0.213	0.254	-0.140	0.248	-0.285	0.340	-0.225	0.325	0.560	0.760	-0.222	0.478	#DIV/0!	Mo (ppm)
Cu (ppm)	0.517	-0.304	0.069	0.496	0.049	0.111	0.753	0.188	0.262	-0.083	-0.254	-0.110	0.049	0.798	0.706	-0.053	0.595	#DIV/0!	Cu (ppm)
Pb (ppm)	-0.021	0.399	-0.198	-0.315	0.685	-0.363	-0.127	-0.329	-0.273	-0.101	-0.090	-0.190	0.240	0.597	0.530	-0.377	0.274	#DIV/0!	Pb (ppm)
Zn (ppm)	0.313	-0.116	-0.175	0.115	0.138	0.016	0.465	0.094	-0.118	0.231	-0.232	0.273	0.038	0.856	0.890	0.095	0.699	#DIV/0!	Zn (ppm)
Ag (ppb)	-0.014	0.159	0.186	-0.143	0.037	-0.053	-0.112	-0.258	-0.014	-0.145	0.138	0.012	0.654	-0.053	-0.064	-0.193	0.254	#DIV/0!	Ag (ppb)
Ni (ppm)	0.550	-0.358	0.370	0.862	-0.095	0.333	0.709	0.254	0.430	-0.105	-0.190	-0.215	-0.068	0.276	0.133	0.012	0.161	#DIV/0!	Ni (ppm)
Co (ppm)	0.693	-0.367	0.449	0.803	-0.081	0.404	0.686	0.241	0.585	0.142	0.030	0.004	-0.060	0.337	0.259	0.091	0.279	#DIV/0!	Co (ppm)
Mn (ppm)	0.082	0.318	-0.071	-0.189	0.412	-0.182	-0.085	-0.250	-0.142	0.191	-0.185	0.248	0.161	0.486	0.384	-0.175	0.416	#DIV/0!	Mn (ppm)
Fe (%)	0.412	-0.257	-0.056	0.585	-0.154	0.462	0.461	0.596	0.213	0.502	-0.359	0.410	-0.107	0.282	0.343	0.562	0.207	#DIV/0!	Fe (%)
As (ppm)	0.148	-0.275	-0.061	0.004	0.093	-0.133	0.433	-0.026	-0.077	-0.119	-0.148	0.003	0.062	0.972	0.940	-0.119	0.652	#DIV/0!	As (ppm)
U (ppm)	-0.078	0.449	-0.013	-0.249	0.244	-0.147	-0.211	-0.228	-0.210	0.110	-0.068	0.095	0.319	-0.124	0.052	-0.216	0.288	#DIV/0!	U (ppm)
Au (ppb)	-0.044	-0.044	0.205	-0.020	-0.081	0.063	0.144	0.061	0.064	-0.150	0.075	-0.039	0.660	0.144	0.128	-0.025	0.315	#DIV/0!	Au (ppb)
Th (ppm)	-0.133	0.705	-0.265	-0.395	0.157	-0.205	-0.555	-0.361	-0.213	0.320	0.214	0.387	0.063	-0.388	-0.187	-0.062	-0.097	#DIV/0!	Th (ppm)
Sr (ppm)	0.577	-0.230	0.298	0.552	0.058	0.321	0.616	0.163	0.523	-0.075	0.147	-0.207	-0.283	0.178	0.181	-0.032	0.100	#DIV/0!	Sr (ppm)
Cd (ppm)	0.152	-0.046	-0.061	-0.149	0.635	-0.259	0.294	-0.197	-0.148	-0.168	-0.120	-0.151	0.158	0.963	0.919	-0.294	0.648	#DIV/0!	Cd (ppm)
Sb (ppm)	0.060	-0.112	-0.107	-0.076	0.031	-0.231	0.138	-0.022	-0.025	-0.092	-0.142	-0.006	0.104	0.961	0.410	-0.095	0.668	#DIV/0!	Sb (ppm)
Bi (ppm)	-0.131	0.196	-0.084	-0.220	0.153	-0.239	-0.203	-0.177	-0.199	-0.130	-0.122	-0.094	0.250	0.484	0.061	-0.190	0.272	#DIV/0!	Bi (ppm)
V (ppm)	0.252	-0.456	-0.053	0.661	-0.301	0.777	0.322	0.806	0.250	0.545	-0.368	0.507	-0.171	-0.102	-0.116	0.801	-0.140	#DIV/0!	V (ppm)
Ca (%)	0.846	-0.178	0.298	0.677	0.060	0.363	0.837	0.047	0.630	0.237	0.094	0.014	-0.245	0.311	0.230	-0.049	0.359	#DIV/0!	Ca (%)
P (%)	1.000	-0.045	0.245	0.609	0.087	0.291	0.734	-0.040	0.586	0.339	0.159	0.099	-0.215	0.199	0.167	-0.035	0.396	#DIV/0!	P (%)
La (ppm)		1.000	-0.172	-0.332	0.190	-0.302	-0.341	-0.490	-0.209	0.130	0.081	0.131	0.221	-0.344	-0.135	-0.370	0.000	#DIV/0!	La (ppm)
Cr (ppm)			1.000	0.249	-0.032	0.088	0.169	-0.107	0.513	-0.222	0.539	-0.286	0.209	-0.121	-0.088	-0.177	-0.138	#DIV/0!	Cr (ppm)
Mg (%)				1.000	-0.194	0.654	0.583	0.477	0.554	0.284	-0.177	0.143	-0.249	-0.029	-0.124	0.370	-0.059	#DIV/0!	Mg (%)
Ba (ppm)					1.000	-0.163	-0.085	-0.243	-0.049	-0.019	0.001	-0.027	0.100	0.516	0.650	-0.239	0.107	#DIV/0!	Ba (ppm)
Ti (%)						1.000	0.179	0.552	0.445	0.615	-0.137	0.619	-0.192	-0.301	-0.317	0.638	-0.321	#DIV/0!	Ti (%)
B (ppm)							1.000	0.044	0.440	-0.042	-0.011	-0.333	-0.206	0.574	0.377	-0.153	0.515	#DIV/0!	B (ppm)
Al (%)								1.000	0.124	0.190	-0.423	0.252	-0.054	-0.210	-0.198	0.860	-0.382	#DIV/0!	Al (%)
Na (%)									1.000	0.222	0.392	0.071	-0.149	-0.091	-0.105	0.090	0.000	#DIV/0!	Na (%)
K (%)										1.000	-0.031	0.865	-0.239	-0.231	-0.168	0.482	-0.029	#DIV/0!	K (%)
W (ppm)											1.000	-0.145	-0.160	-0.172	-0.056	-0.249	-0.042	#DIV/0!	W (ppm)
Tl (ppm)												1.000	-0.036	-0.057	0.141	0.548	-0.014	#DIV/0!	Tl (ppm)
Hg (ppb)													1.000	0.006	0.025	-0.143	0.056	#DIV/0!	Hg (ppb)
Se (ppm)														1.000	0.942	-0.302	0.831	#DIV/0!	Se (ppm)
Te (ppm)															1.000	-0.233	0.749	#DIV/0!	Te (ppm)
Ga (ppm)																1.000	-0.419	#DIV/0!	Ga (ppm)
S (%)																	1.000	#DIV/0!	S (%)
Sn (ppm)																		#DIV/0!	Sn (ppm)

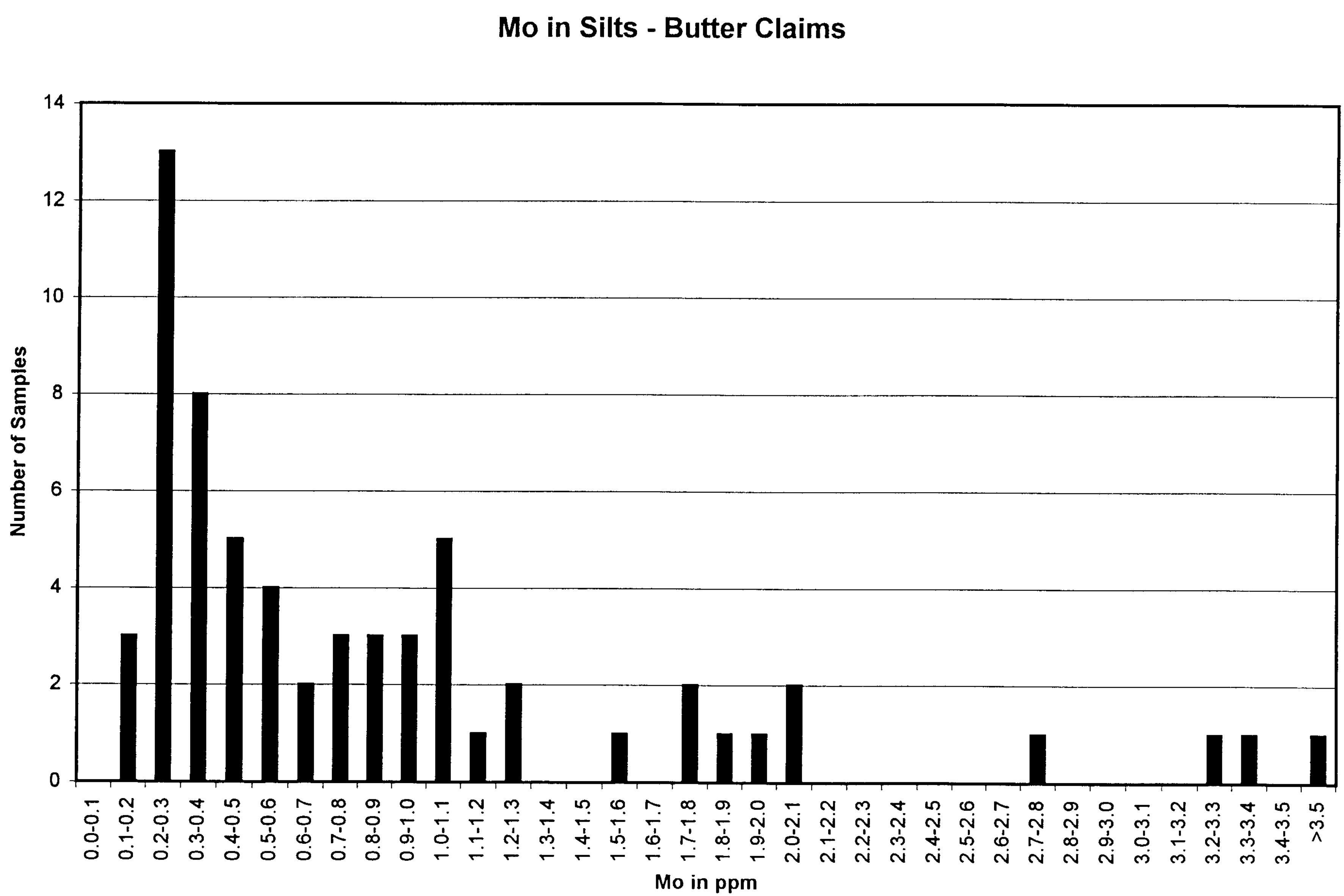
Appendix B - Table 4

Correlation matrix for Rock samples
For samples from the Butter Claims

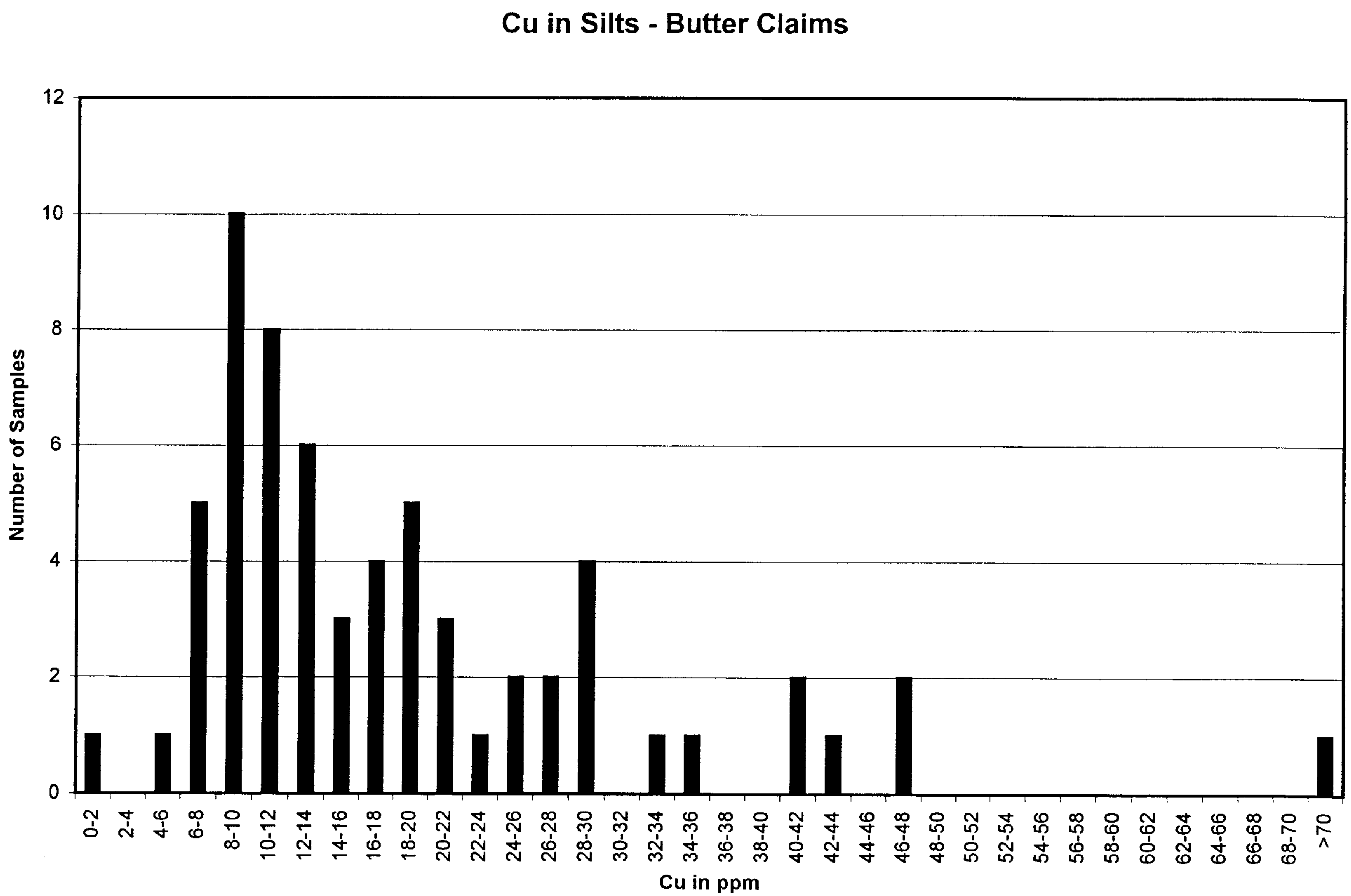
	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppb)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppb)	Th (ppm)
Mo (ppm)	1.000	0.010	0.069	0.264	0.428	-0.425	-0.345	0.071	-0.039	-0.098	0.677	0.045	0.622
Cu (ppm)		1.000	-0.478	0.345	0.474	0.374	0.486	0.264	0.554	0.272	-0.261	0.868	-0.140
Pb (ppm)			1.000	0.033	-0.180	-0.513	-0.573	-0.405	-0.582	-0.037	-0.045	-0.500	-0.046
Zn (ppm)				1.000	0.256	-0.261	-0.079	0.425	0.561	0.616	0.220	-0.197	0.228
Ag (ppb)					1.000	-0.305	-0.156	-0.112	0.125	0.094	0.043	0.698	0.161
Ni (ppm)						1.000	0.987	0.470	0.498	-0.124	-0.321	-0.003	-0.351
Co (ppm)							1.000	0.569	0.630	0.009	-0.249	0.174	-0.254
Mn (ppm)								1.000	0.860	0.418	0.312	-0.431	0.386
Fe (%)									1.000	0.550	0.135	-0.096	0.189
As (ppm)										1.000	0.061	-0.213	0.116
U (ppm)											1.000	-0.490	0.925
Au (ppb)												1.000	-0.358
Th (ppm)													1.000

	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (%)	Ba (ppm)
Mo (ppm)	-0.455	-0.432	0.013	0.027	0.023	-0.519	0.313	0.491	-0.366	-0.426	0.397
Cu (ppm)	-0.381	-0.392	0.268	0.346	0.307	-0.449	0.045	-0.049	0.379	0.393	-0.012
Pb (ppm)	0.491	0.248	-0.020	-0.327	-0.303	0.629	-0.231	0.035	-0.519	-0.489	-0.297
Zn (ppm)	-0.290	-0.331	0.621	0.233	0.723	-0.287	0.386	0.358	-0.233	-0.147	0.209
Ag (ppb)	-0.346	-0.332	0.258	0.264	0.003	-0.363	0.532	0.199	-0.241	-0.256	0.185
Ni (ppm)	-0.242	-0.479	-0.169	0.620	-0.129	-0.234	-0.349	-0.377	1.000	0.985	-0.204
Co (ppm)	-0.244	-0.566	-0.028	0.652	0.005	-0.289	-0.237	-0.266	0.983	0.984	-0.116
Mn (ppm)	-0.362	-0.592	0.351	0.437	0.561	-0.415	0.212	0.377	0.469	0.529	0.336
Fe (%)	-0.379	-0.628	0.540	0.570	0.715	-0.428	0.340	0.246	0.487	0.563	0.321
As (ppm)	-0.021	-0.334	0.949	0.058	0.515	0.000	0.059	0.271	-0.118	-0.015	-0.080
U (ppm)	-0.340	-0.289	0.079	-0.162	0.187	-0.404	0.579	0.835	-0.277	-0.314	0.745
Au (ppb)	-0.230	-0.170	-0.167	-0.095	-0.127	-0.286	-0.119	-0.412	0.162	-0.242	-0.203
Th (ppm)	-0.352	-0.384	0.154	-0.162	0.287	-0.436	0.575	0.949	-0.299	-0.336	0.726
Sr (ppm)	1.000	-0.055	-0.057	-0.298	-0.151	0.921	-0.121	-0.284	-0.192	-0.174	-0.264
Cd (ppm)		1.000	-0.394	-0.315	-0.558	0.127	-0.468	-0.371	-0.446	-0.230	-0.402
Sb (ppm)			1.000	0.215	0.505	-0.044	0.115	0.306	-0.156	-0.071	-0.080
Bi (ppm)				1.000	0.112	-0.355	-0.022	-0.116	0.606	0.611	-0.125
V (ppm)					1.000	-0.239	0.591	0.380	-0.142	-0.055	0.509
Ca (%)						1.000	-0.189	-0.355	-0.234	-0.177	-0.326
P (%)							1.000	0.615	-0.341	-0.309	0.893
La (ppm)								1.000	-0.336	-0.344	0.690
Cr (ppm)									1.000	0.983	-0.183
Mg (%)										1.000	-0.174
Ba (ppm)											1.000

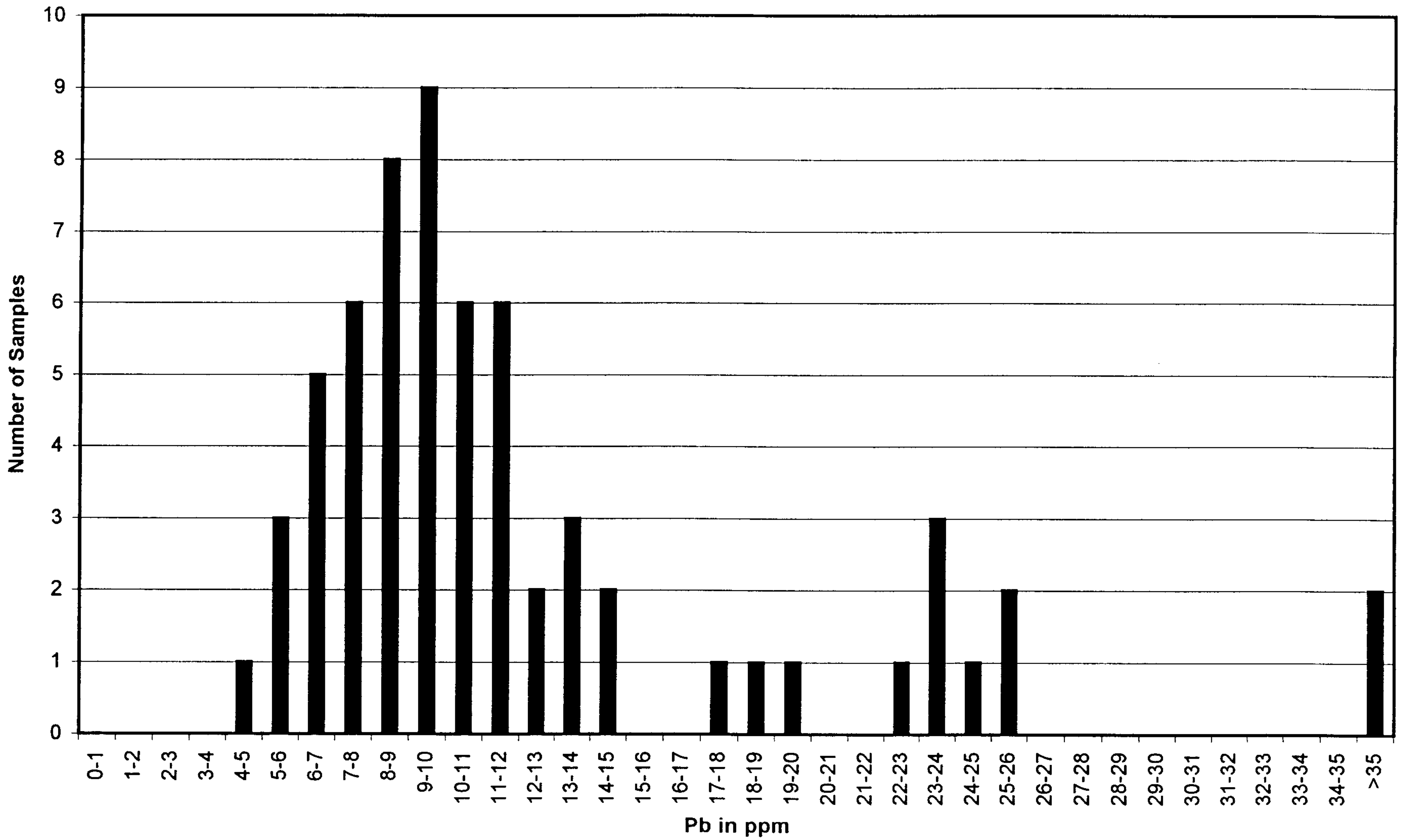
	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Tl (ppm)	Hg (ppb)	Se (ppm)	Te (ppm)	Ga (ppm)	S (%)	Sn (ppm)	
Mo (ppm)	0.324	-0.448	0.230	0.627	0.202	0.940	-0.051	0.975	0.452	-0.646	0.211	0.420	#DIV/0!	Mo (ppm)
Cu (ppm)	0.117	0.485	0.304	0.115	0.081	-0.054	0.054	-0.521	0.748	-0.653	0.299	0.543	#DIV/0!	Cu (ppm)
Pb (ppm)	-0.175	-0.804	-0.195	-0.343	-0.177	0.037	0.007	-0.023	-0.435	0.240	-0.221	-0.134	#DIV/0!	Pb (ppm)
Zn (ppm)	0.577	-0.520	0.868	-0.025	0.770	0.031	0.850	-0.535	-0.250	-0.499	0.820	0.029	#DIV/0!	Zn (ppm)
Ag (ppb)	0.018	-0.376	0.322	0.305	-0.059	0.310	-0.191	-0.344	0.615	-0.652	0.222	0.870	#DIV/0!	Ag (ppb)
Ni (ppm)	-0.247	0.995	-0.297	-0.312	-0.239	-0.294	-0.229	-0.703	-0.362	0.339	-0.269	0.352	#DIV/0!	Ni (ppm)
Co (ppm)	-0.176	0.982	-0.088	-0.247	-0.079	-0.282	-0.117	-0.714	-0.171	-0.497	-0.066	0.280	#DIV/0!	Co (ppm)
Mn (ppm)	0.161	0.482	0.586	0.155	0.650	0.012	0.526	-0.204	-0.514	-0.208	0.613	-0.230	#DIV/0!	Mn (ppm)
Fe (%)	0.294	0.496	0.700	0.023	0.652	-0.195	0.603	-0.621	-0.379	-0.342	0.719	0.059	#DIV/0!	Fe (%)
As (ppm)	-0.042	-0.382	0.718	-0.264	0.552	-0.248	0.824	-0.597	-0.504	-0.201	0.723	-0.144	#DIV/0!	As (ppm)
U (ppm)	0.444	-0.708	0.305	0.558	0.447	0.602	0.268	0.728	-0.175	-0.323	0.359	-0.334	#DIV/0!	U (ppm)
Au (ppb)	-0.183	0.189	-0.100	0.338	-0.372	0.163	-0.475	-0.397	0.953	-0.383	-0.160	0.762	#DIV/0!	Au (ppb)
Th (ppm)	0.382	-0.577	0.386	0.650	0.478	0.547	0.227	0.492	-0.143	-0.276	0.462	-0.266	#DIV/0!	Th (ppm)
Sr (ppm)	-0.376	-0.504	-0.292	-0.477	-0.250	-0.428	0.089	-0.664	-0.642	0.780	-0.304	-0.152	#DIV/0!	Sr (ppm)
Cd (ppm)	-0.251	-0.282	-0.552	-0.346	-0.459	-0.279	-0.419	-0.192	-0.239	-0.082	-0.550	-0.348	#DIV/0!	Cd (ppm)
Sb (ppm)	-0.031	-0.443	0.727	-0.262	0.509	-0.179	0.746	-0.612	-0.669	-0.164	0.733	0.061	#DIV/0!	Sb (ppm)
Bi (ppm)	0.012	0.714	0.170	-0.263	0.041	-0.037	-0.076	-0.568	-0.297	-0.200	0.132	0.523	#DIV/0!	Bi (ppm)
V (ppm)	0.688	-0.316	0.885	0.255	0.920	-0.199	0.740	-0.610	-0.255	0.206	0.932	-0.163	#DIV/0!	V (ppm)
Ca (%)	-0.384	-0.587	-0.312	-0.586	-0.270	-0.529	0.026	-0.545	-0.603	0.678	-0.328	-0.161	#DIV/0!	Ca (%)
P (%)	0.759	-0.708	0.547	0.481	0.590	0.090	0.311	-0.867	-0.178	-0.308	0.558	0.040	#DIV/0!	P (%)
La (ppm)	0.421	-0.574	0.480	0.516	0.525	0.371	0.353	-0.168	-0.363	-0.309	0.557	-0.287	#DIV/0!	La (ppm)
Cr (ppm)	-0.258	0.995	-0.259	-0.268	-0.219	-0.256	-0.240	-0.516	-0.303	-0.180	-0.232	0.396	#DIV/0!	Cr (ppm)
Mg (%)	-0.239	0.981	-0.162	-0.324	-0.123	-0.352	-0.142	-0.841	-0.605	-0.223	-0.140	-0.035	#DIV/0!	Mg (%)
Ba (ppm)	0.742	-0.426	0.385	0.674	0.570	0.246	0.197	-0.445	-0.093	-0.277	0.453	-0.191	#DIV/0!	Ba (ppm)
Ti (%)	1.000	-0.447	0.501	0.432	0.664	0.123	0.417	-0.458	0.026	-0.129	0.534	-0.176	#DIV/0!	Ti (%)
B (ppm)		1.000	-0.505	-0.591	-0.418	-0.289	-0.575	#DIV/0!	1.000	-0.569	-0.465	0.772	#DIV/0!	B (ppm)
Al (%)			1.000	0.183	0.897	-0.006	0.892	-0.551	-0.353	-0.367	0.978	0.028	#DIV/0!	Al (%)
Na (%)				1.000	0.280	0.641	-0.199	0.945	0.741	-0.368	0.237	0.056	#DIV/0!	Na (%)
K (%)					1.000	-0.012	0.851	-0.435	-0.479	-0.112	0.926	-0.315	#DIV/0!	K (%)
W (ppm)						1.000	-0.240	0.987	0.536	-0.643	-0.029	0.363	#DIV/0!	W (ppm)
Tl (ppm)							1.000	-0.516	-0.538	-0.009	0.890	-0.506	#DIV/0!	Tl (ppm)
Hg (ppb)								1.000	0.996	0.103	-0.558	0.200	#DIV/0!	Hg (ppb)
Se (ppm)									1.000	-0.632	-0.390	0.728	#DIV/0!	Se (ppm)
Te (ppm)										1.000	-0.260	-0.378	#DIV/0!	Te (ppm)
Ga (ppm)											1.000	-0.073	#DIV/0!	Ga (ppm)
S (%)												1.000	#DIV/0!	S (%)
Sn (ppm)													#DIV/0!	Sn (ppm)



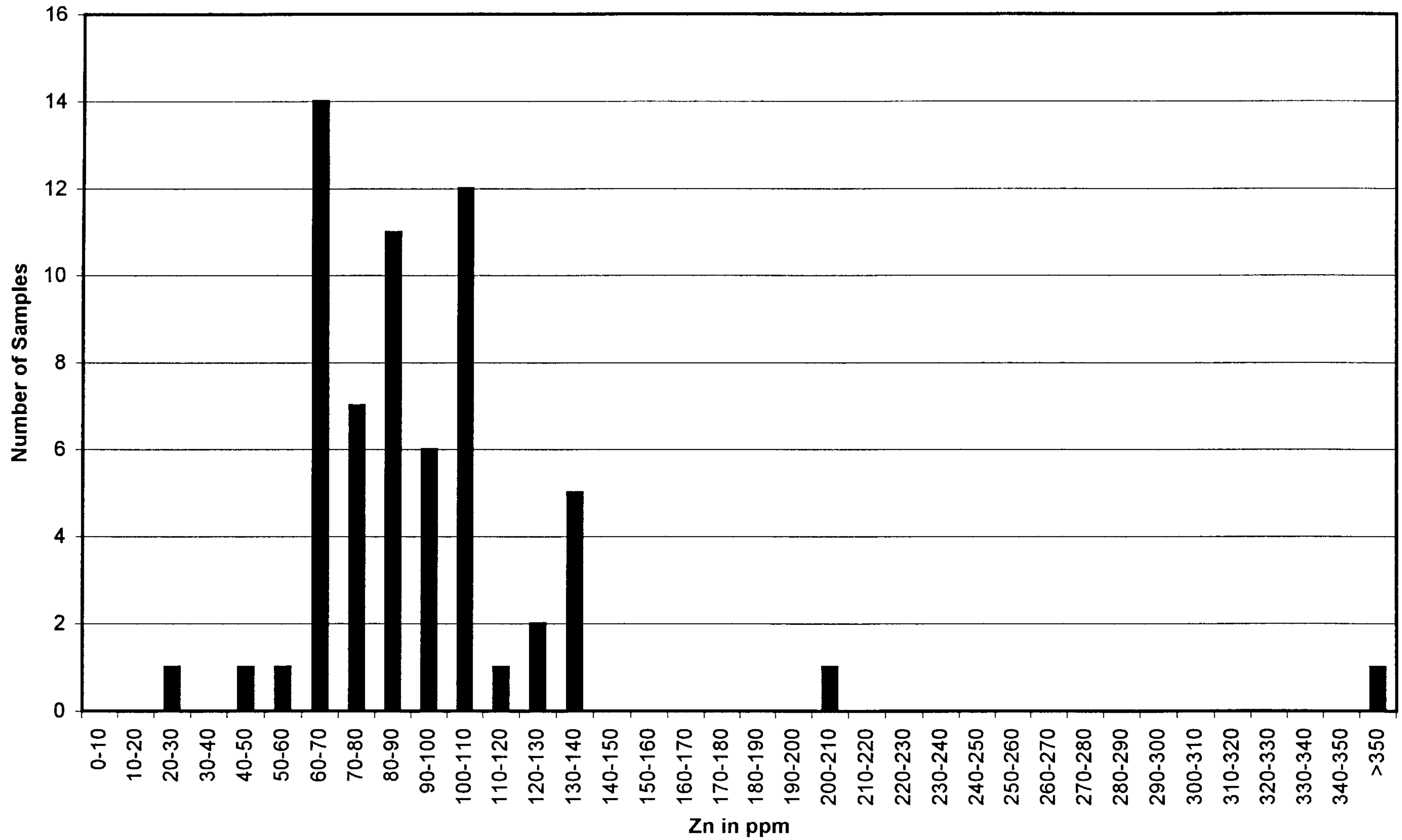
Mo in Silts - Butter Claims
Number of Samples
14
12
10
8
6
4
2
0
0.0-0.1
0.1-0.2
0.2-0.3
0.3-0.4
0.4-0.5
0.5-0.6
0.6-0.7
0.7-0.8
0.8-0.9
0.9-1.0
1.0-1.1
1.1-1.2
1.2-1.3
1.3-1.4
1.4-1.5
1.5-1.6
1.6-1.7
1.7-1.8
1.8-1.9
1.9-2.0
2.0-2.1
2.1-2.2
2.2-2.3
2.3-2.4
2.4-2.5
2.5-2.6
2.6-2.7
2.7-2.8
2.8-2.9
2.9-3.0
3.0-3.1
3.1-3.2
3.2-3.3
3.3-3.4
3.4-3.5
>3.5
Mo in ppm


Cu in Silts - Butter Claims
Number of Samples
0
2
4
6
8
10
12
0-2
2-4
4-6
6-8
8-10
10-12
12-14
14-16
16-18
18-20
20-22
22-24
24-26
26-28
28-30
30-32
32-34
34-36
36-38
38-40
40-42
42-44
44-46
46-48
48-50
50-52
52-54
54-56
56-58
58-60
60-62
62-64
64-66
66-68
68-70
>70
Cu in ppm

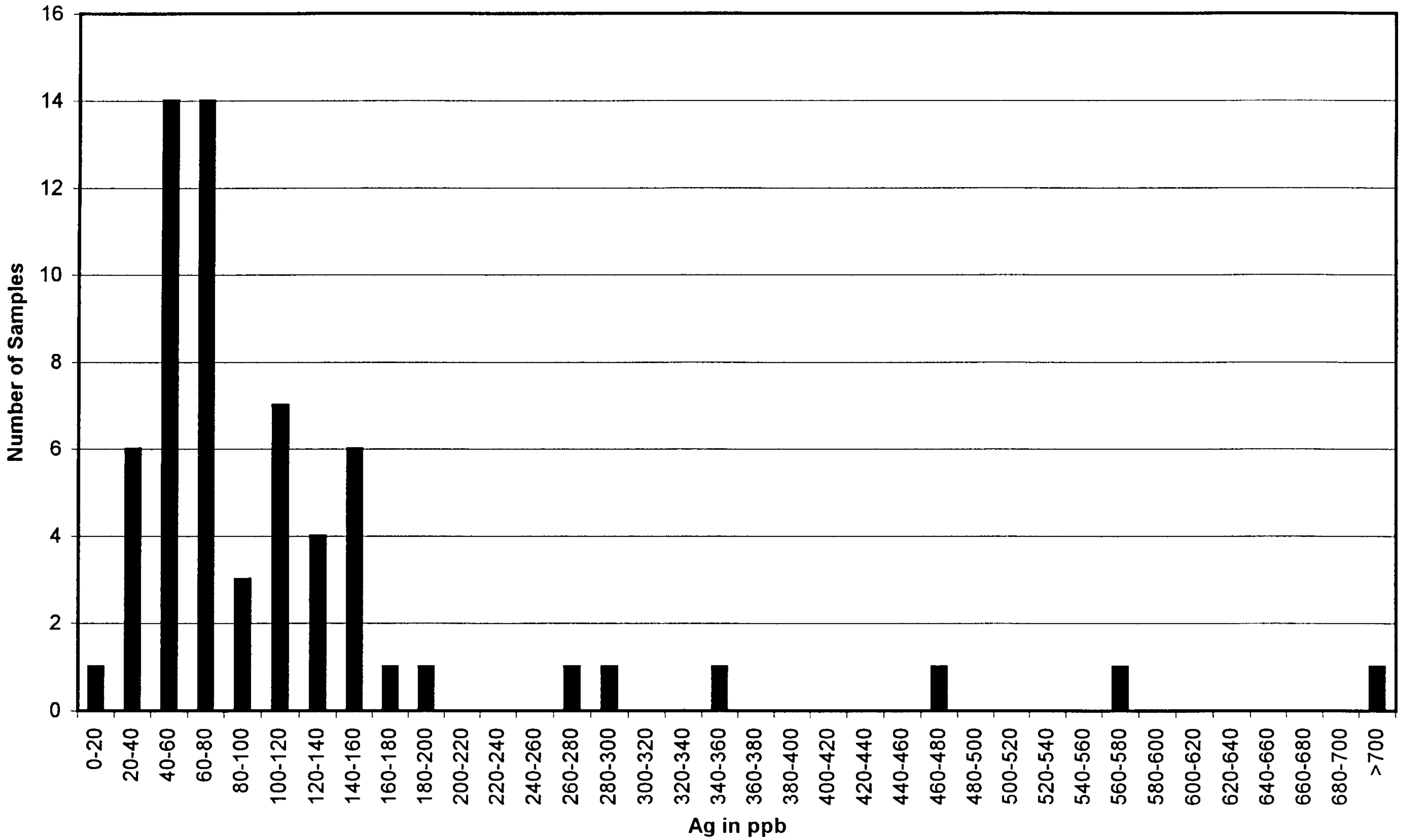
Pb in Silts - Butter Claims



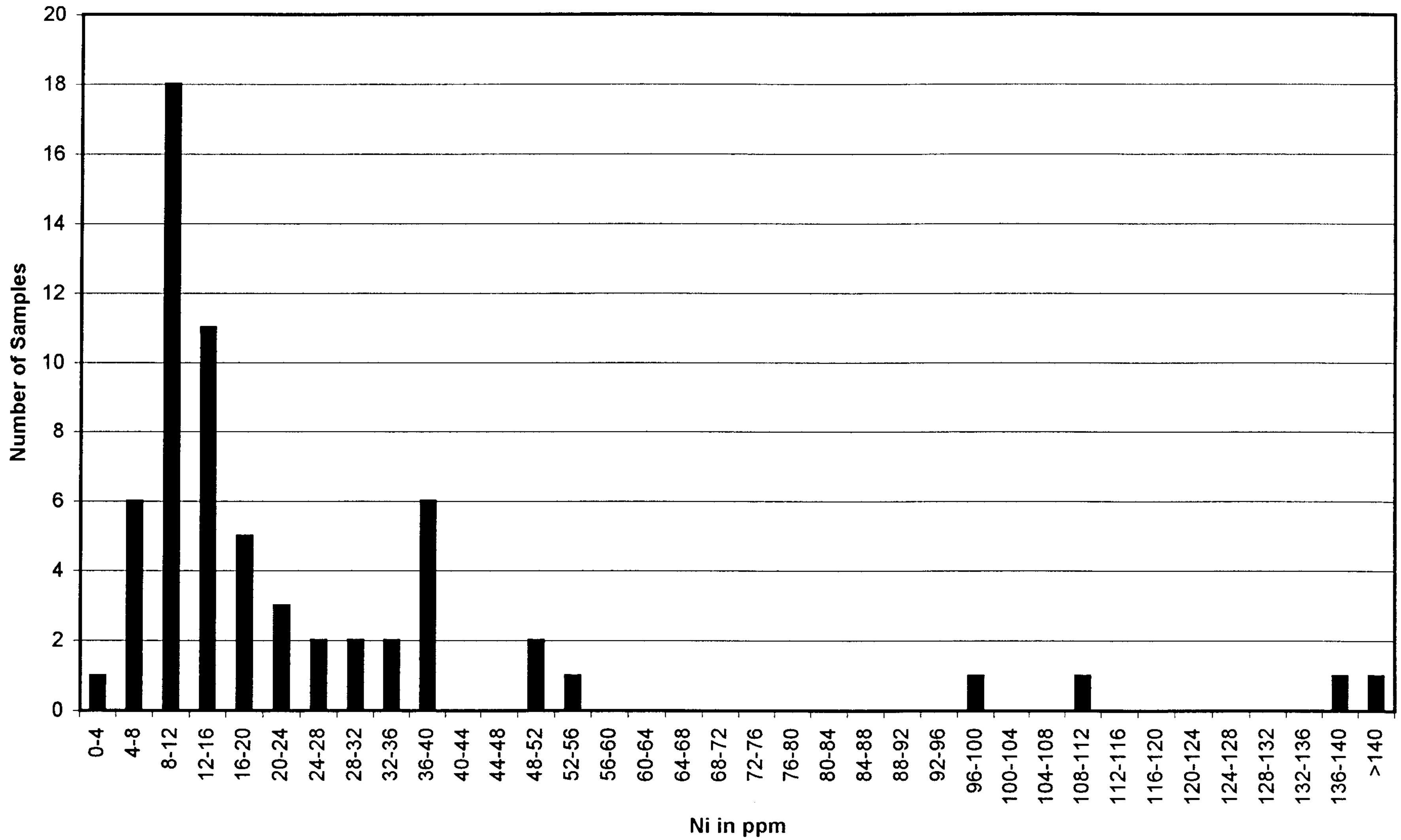
Zn in Silts - Butter Claims

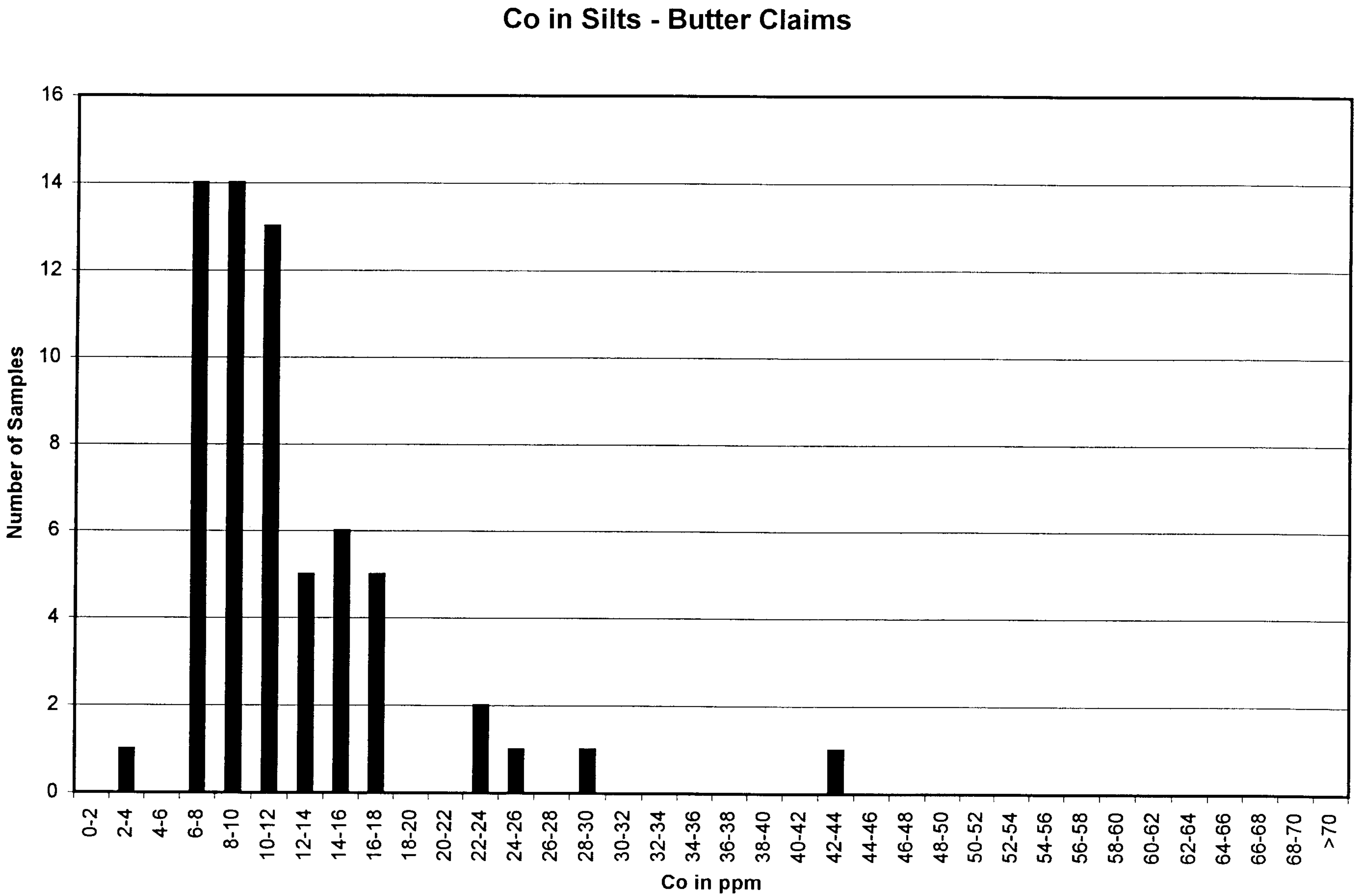


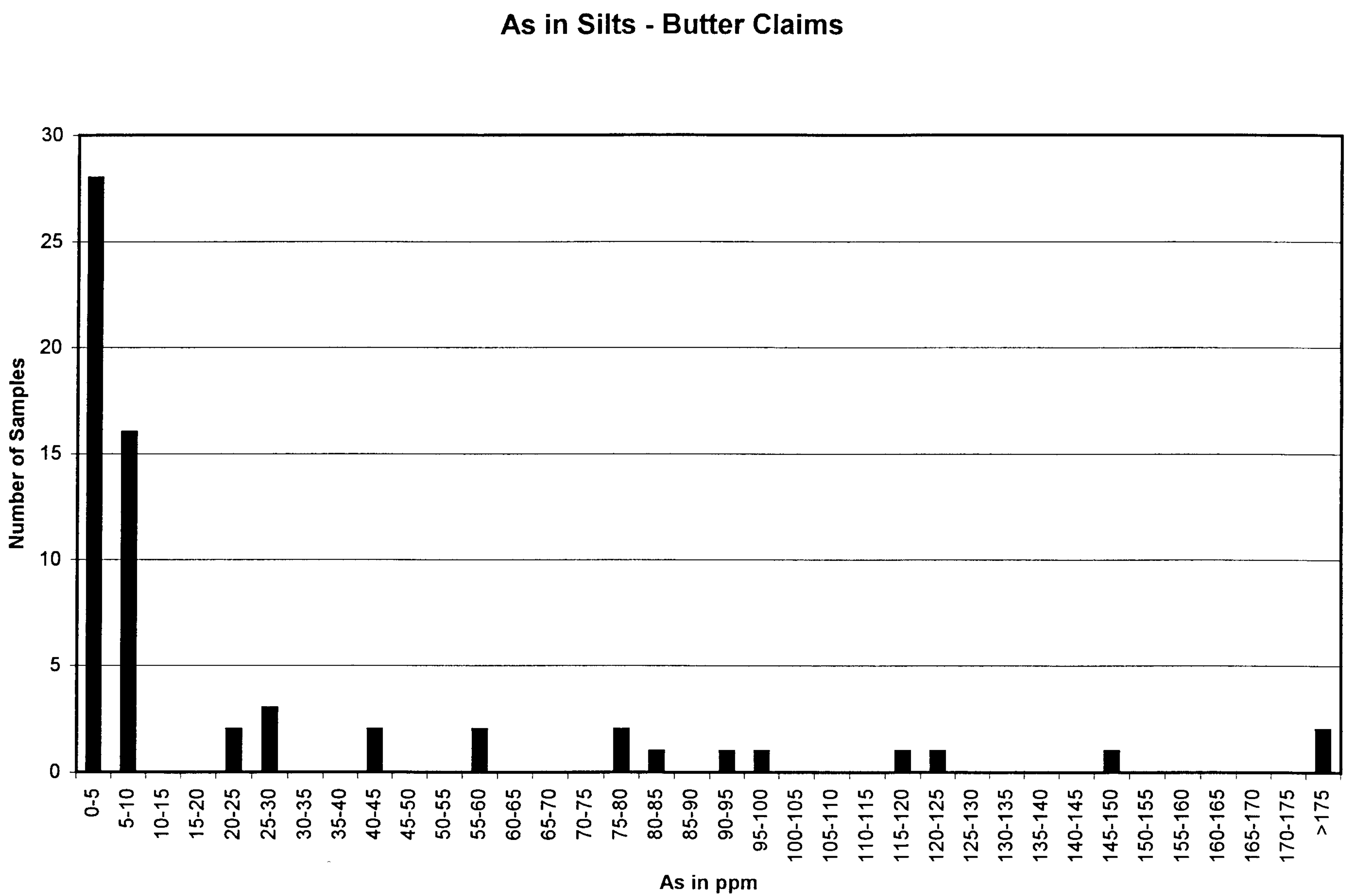
Ag in Silts - Butter Claims



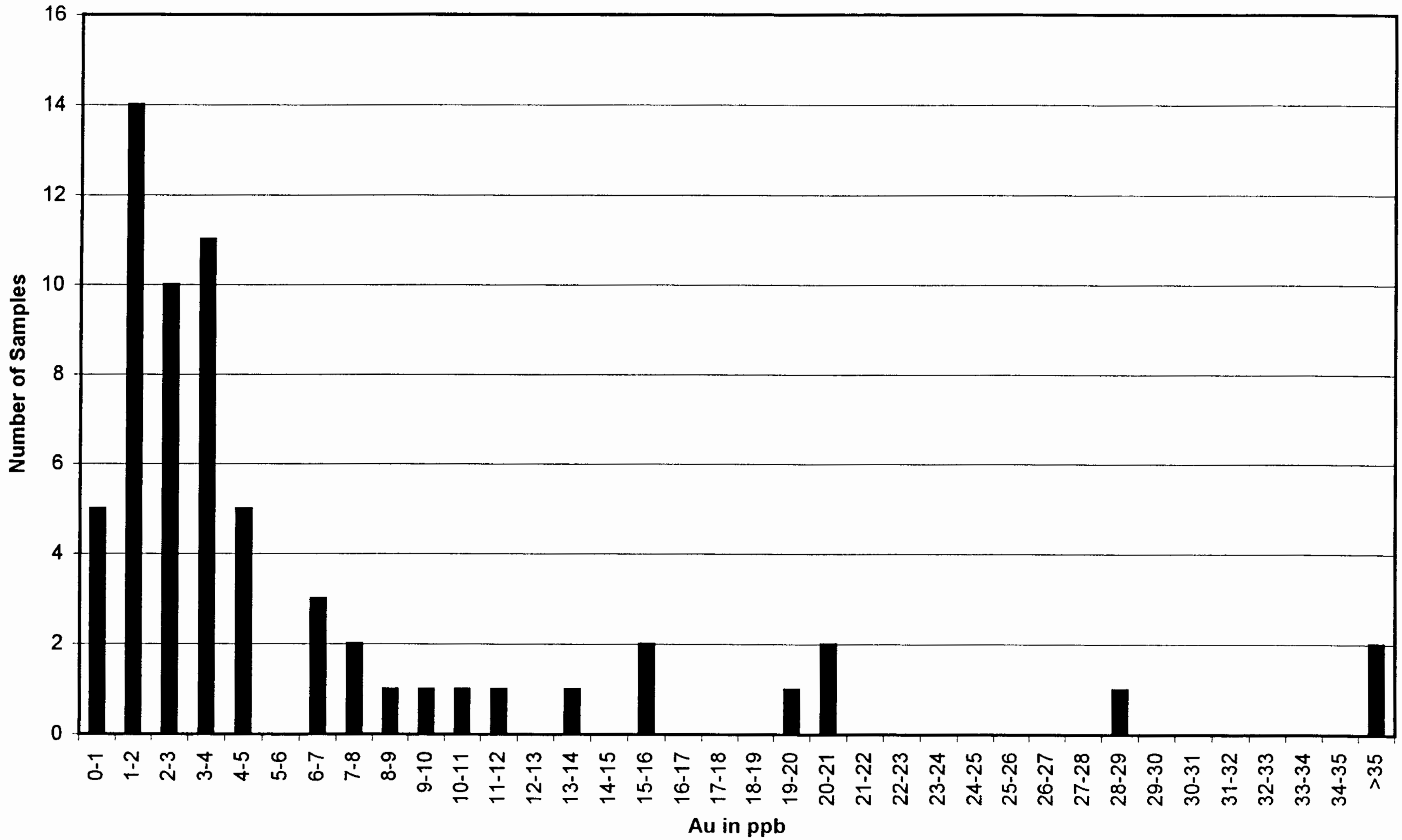
Ni in Silts - Butter Claims

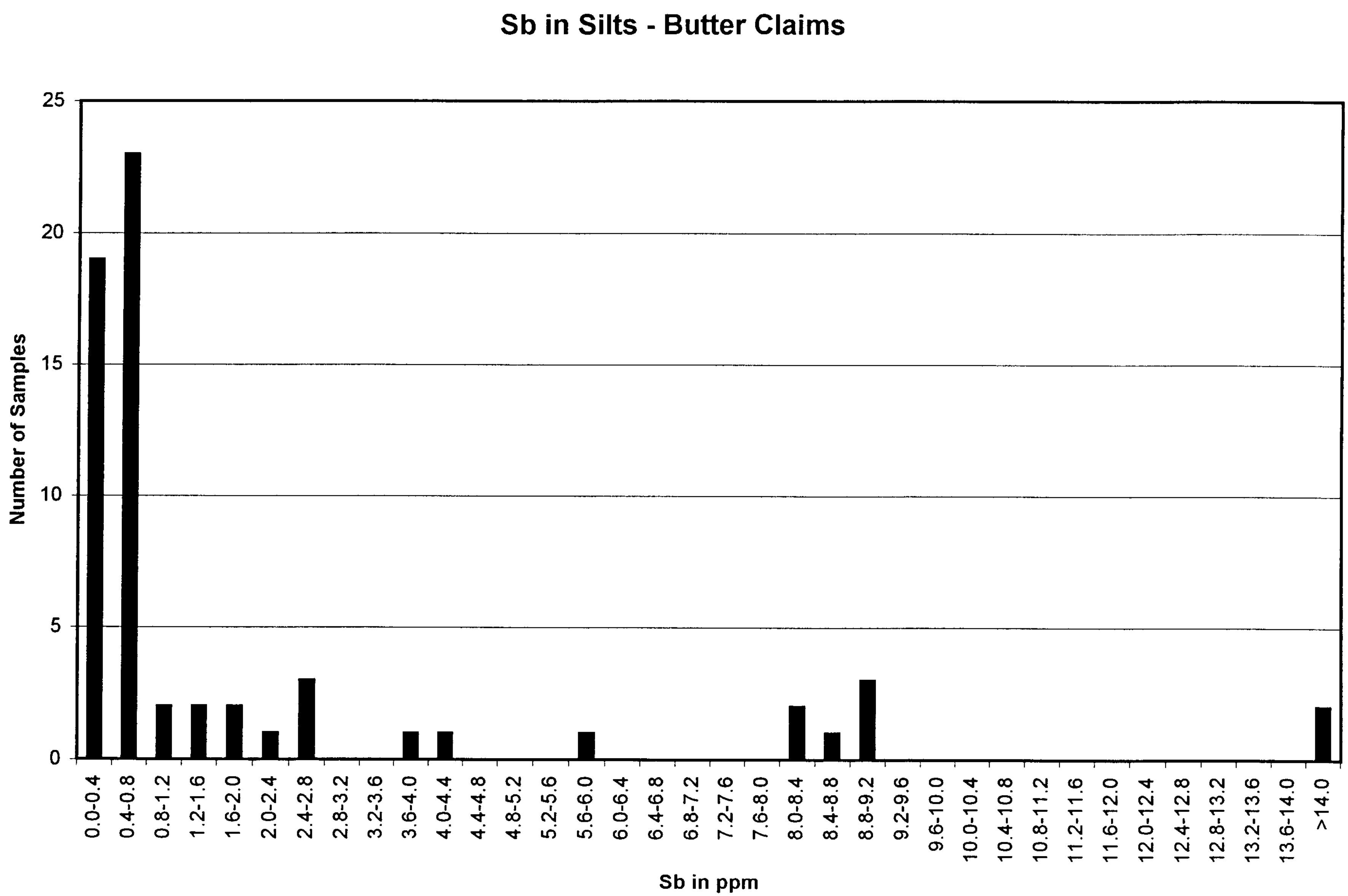



Co in Silts - Butter Claims
Number of Samples
0
2
4
6
8
10
12
14
16
0-2
2-4
4-6
6-8
8-10
10-12
12-14
14-16
16-18
18-20
20-22
22-24
24-26
26-28
28-30
30-32
32-34
34-36
36-38
38-40
40-42
42-44
44-46
46-48
48-50
50-52
52-54
54-56
56-58
58-60
60-62
62-64
64-66
66-68
68-70
>70
Co in ppm

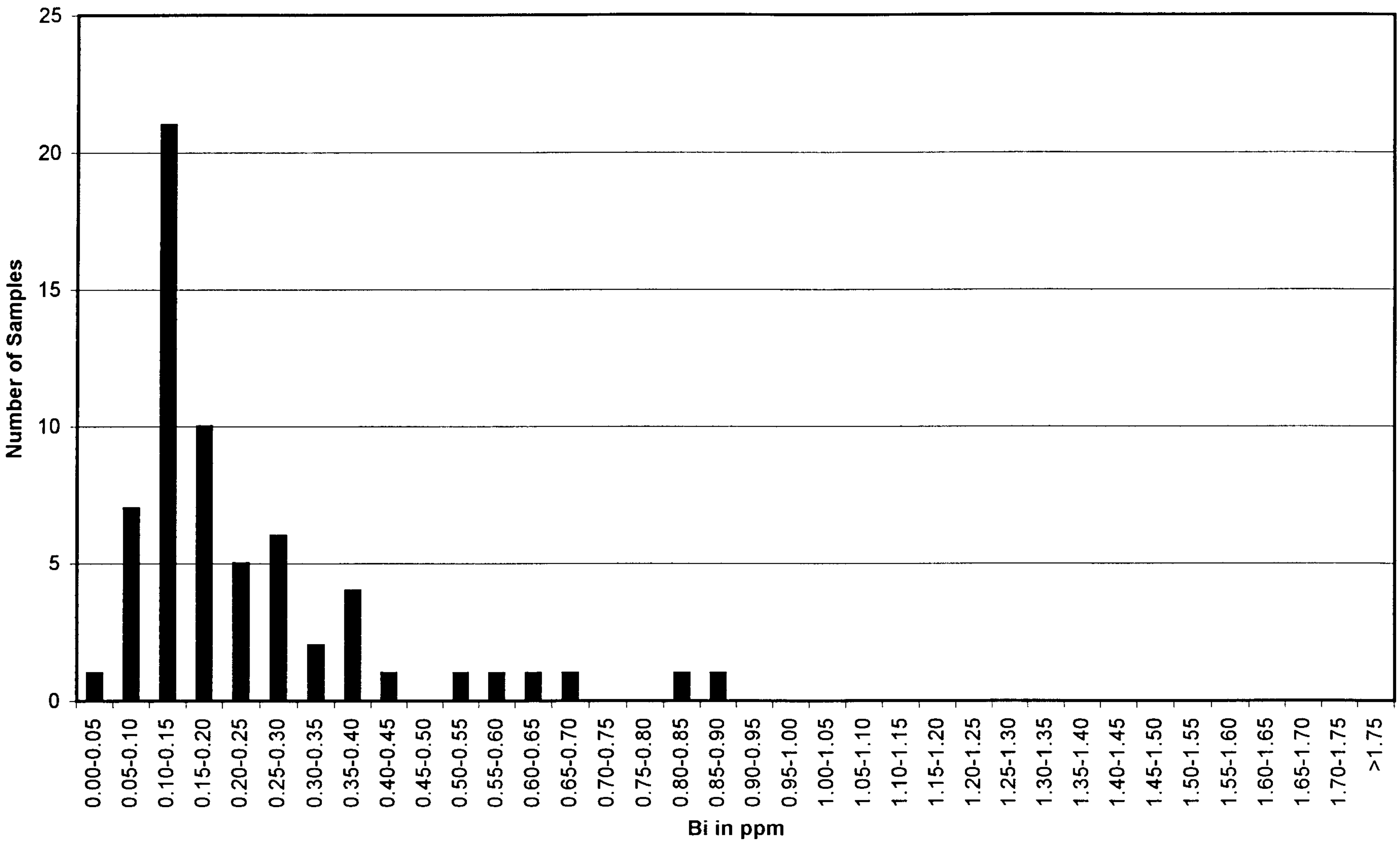

As in Silts - Butter Claims
Number of Samples
30
25
20
15
10
5
0
0-5
5-10
10-15
15-20
20-25
25-30
30-35
35-40
40-45
45-50
50-55
55-60
60-65
65-70
70-75
75-80
80-85
85-90
90-95
95-100
100-105
105-110
110-115
115-120
120-125
125-130
130-135
135-140
140-145
145-150
150-155
155-160
160-165
165-170
170-175
>175
As in ppm

Au in Silts - Butter Claims

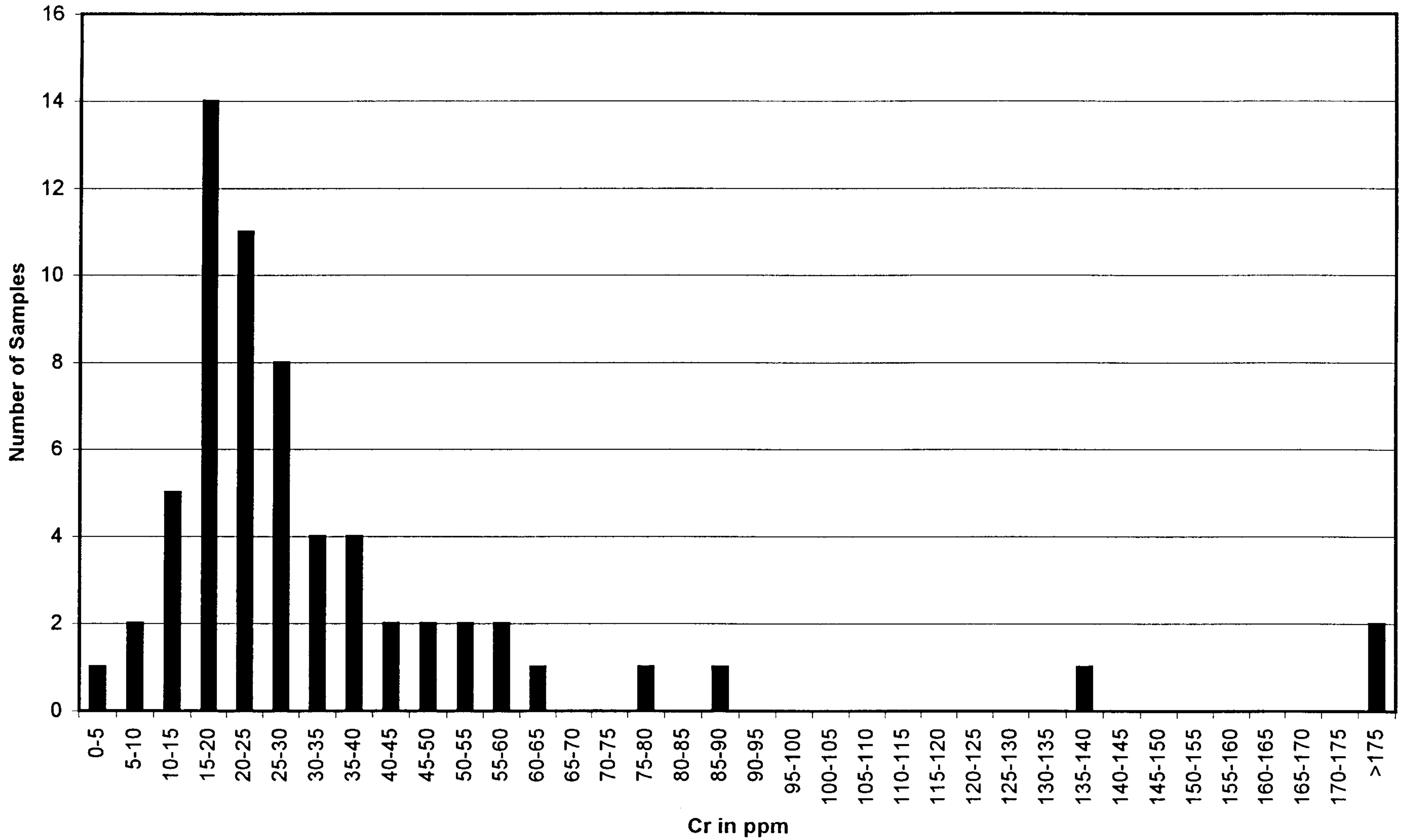


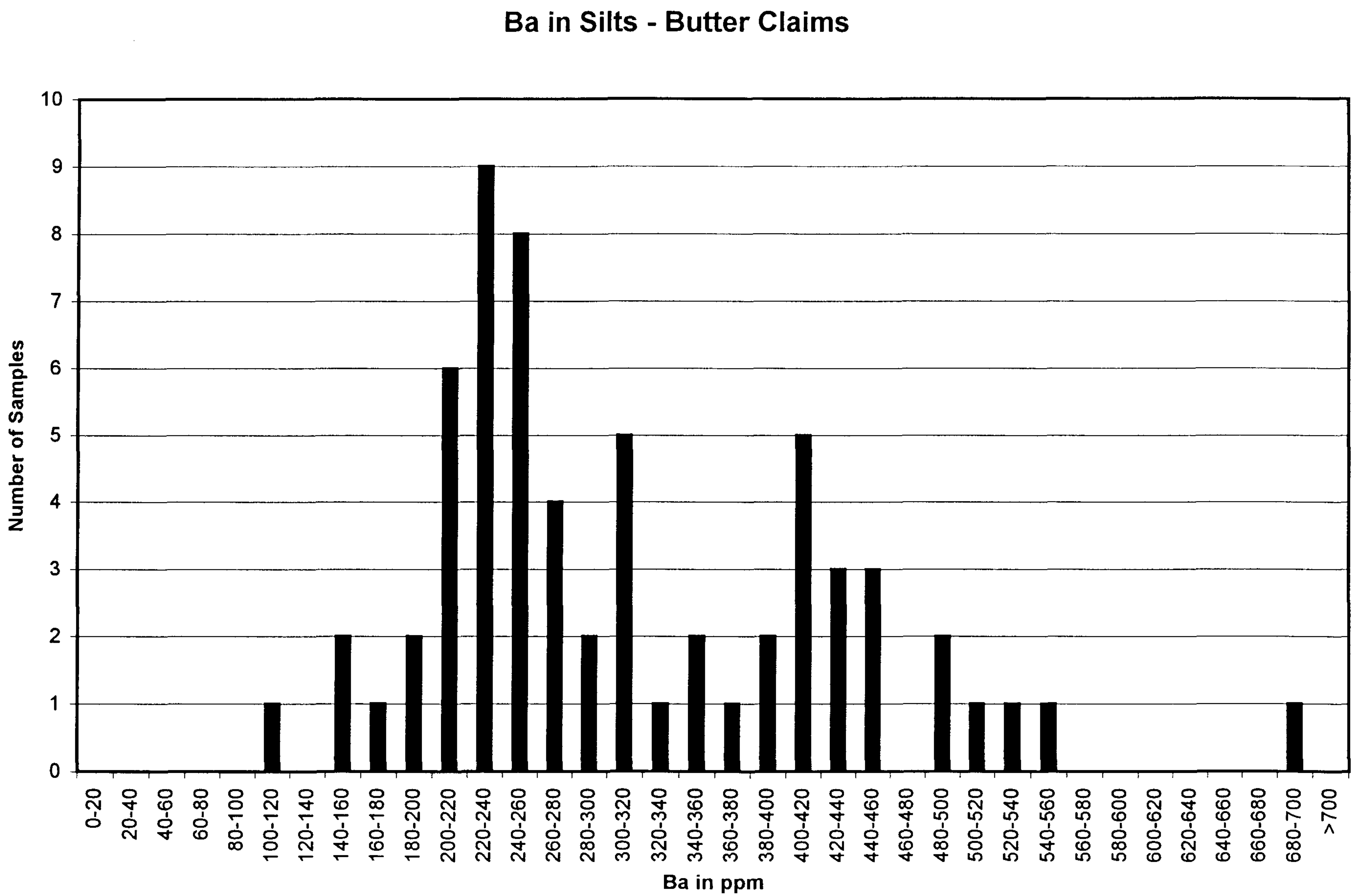

Sb in Silts - Butter Claims
Number of Samples
0
5
10
15
20
25
0.0-0.4
0.4-0.8
0.8-1.2
1.2-1.6
1.6-2.0
2.0-2.4
2.4-2.8
2.8-3.2
3.2-3.6
3.6-4.0
4.0-4.4
4.4-4.8
4.8-5.2
5.2-5.6
5.6-6.0
6.0-6.4
6.4-6.8
6.8-7.2
7.2-7.6
7.6-8.0
8.0-8.4
8.4-8.8
8.8-9.2
9.2-9.6
9.6-10.0
10.0-10.4
10.4-10.8
10.8-11.2
11.2-11.6
11.6-12.0
12.0-12.4
12.4-12.8
12.8-13.2
13.2-13.6
13.6-14.0
>14.0
Sb in ppm

Bi in Silts, Butter Claims

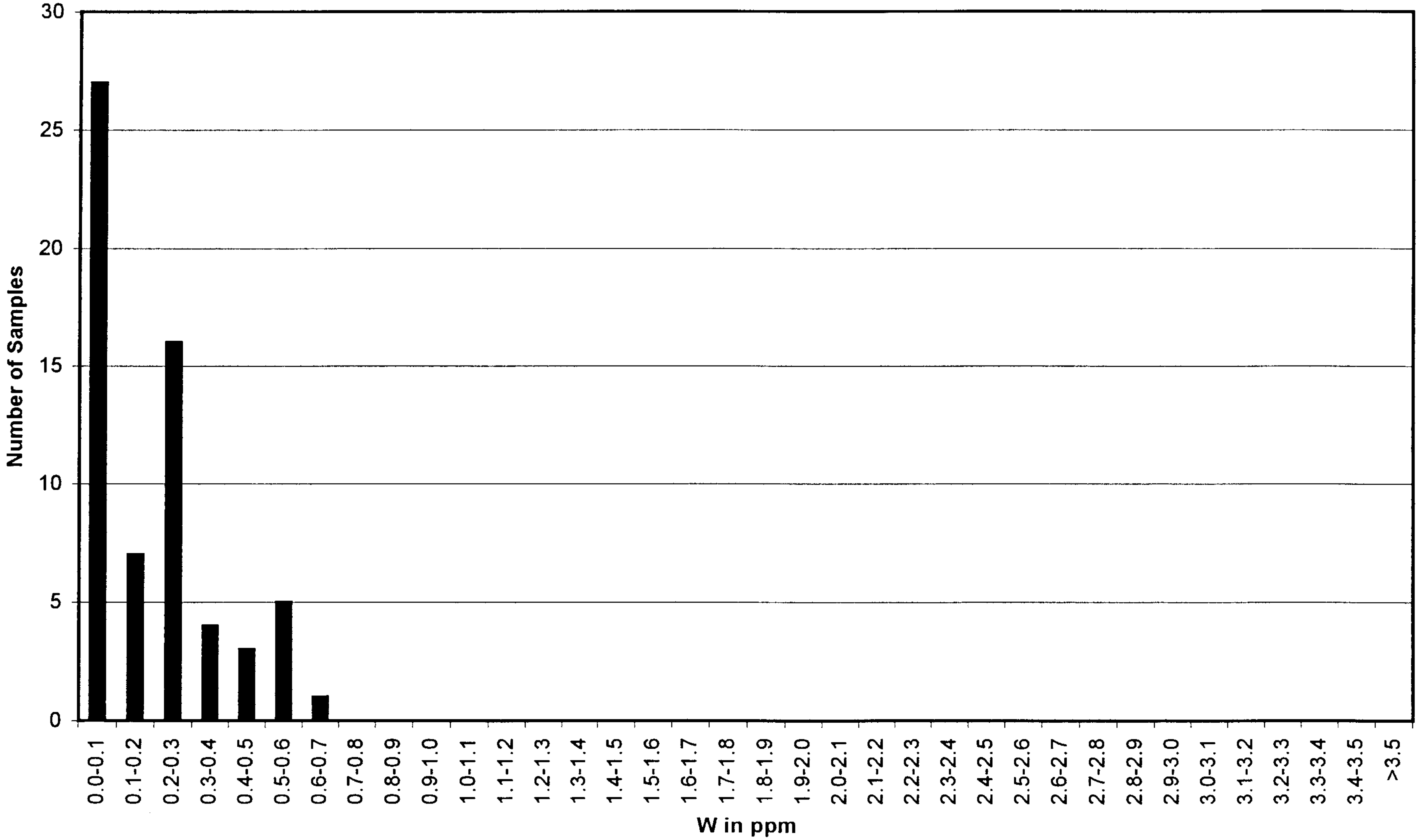


Cr in silts - Butter Claims

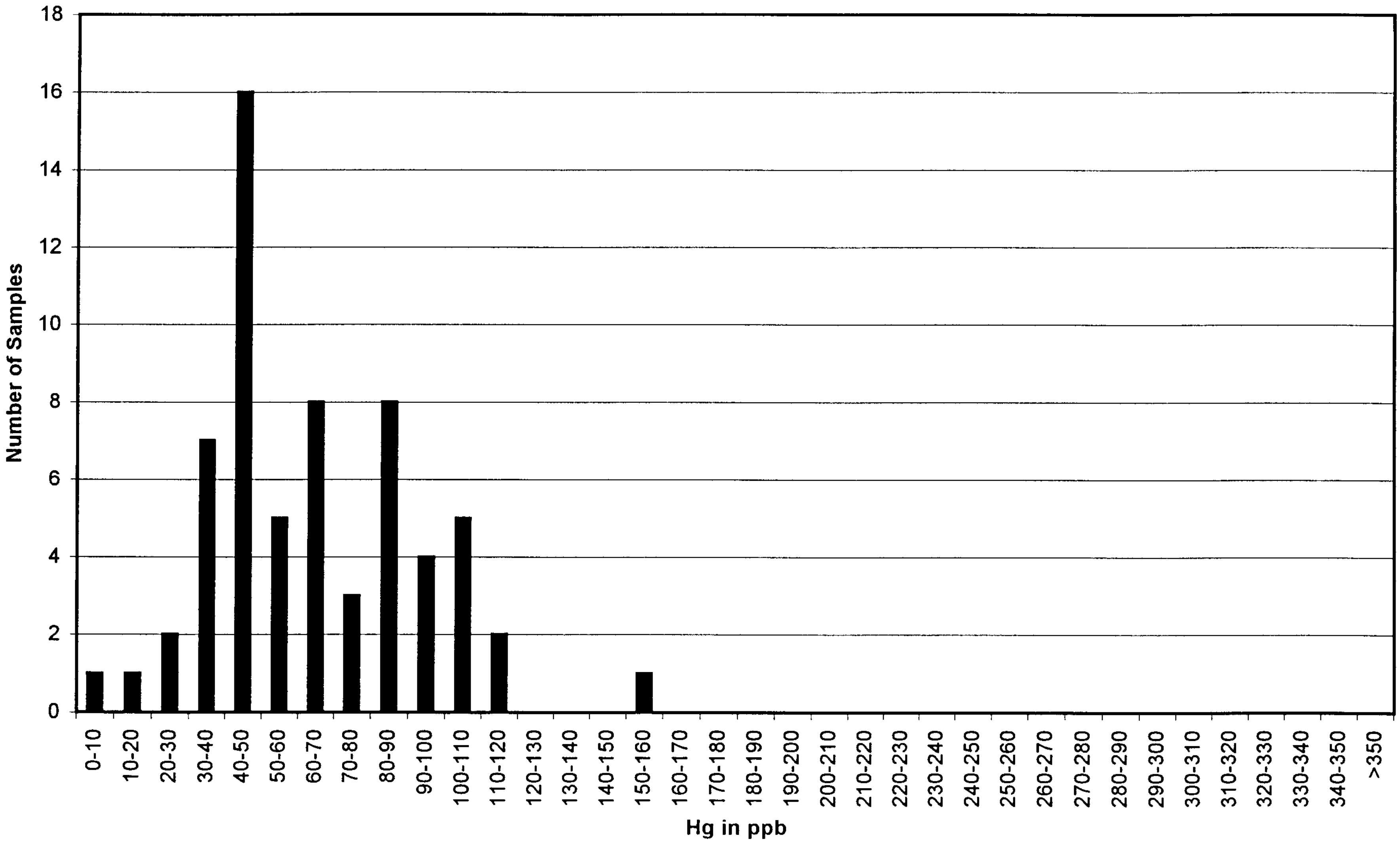


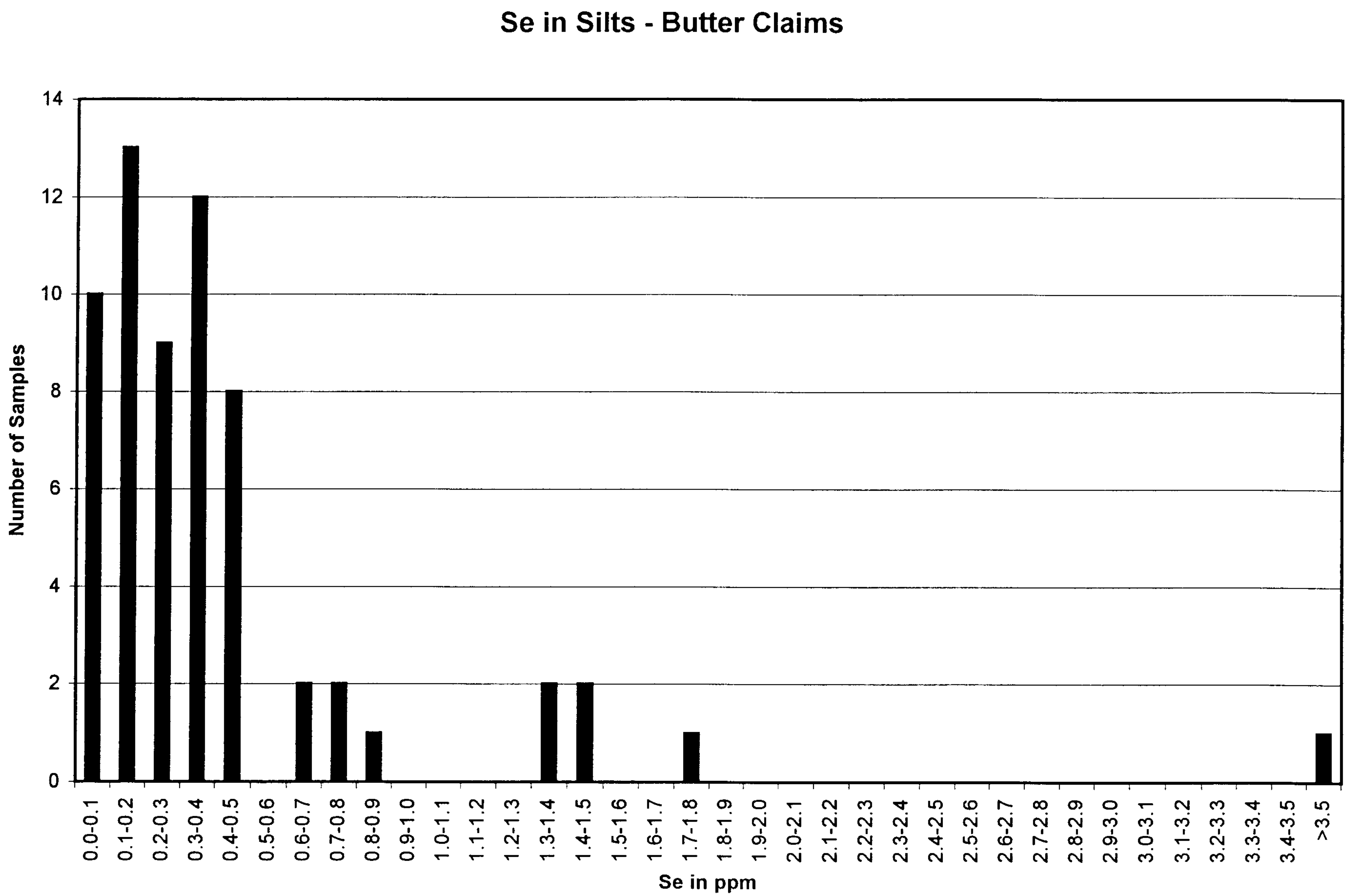

Ba in Silts - Butter Claims
Number of Samples
0
1
2
3
4
5
6
7
8
9
10
0-20
20-40
40-60
60-80
80-100
100-120
120-140
140-160
160-180
180-200
200-220
220-240
240-260
260-280
280-300
300-320
320-340
340-360
360-380
380-400
400-420
420-440
440-460
460-480
480-500
500-520
520-540
540-560
560-580
580-600
600-620
620-640
640-660
660-680
680-700
>700
Ba in ppm

W in Silts - Butter Claims

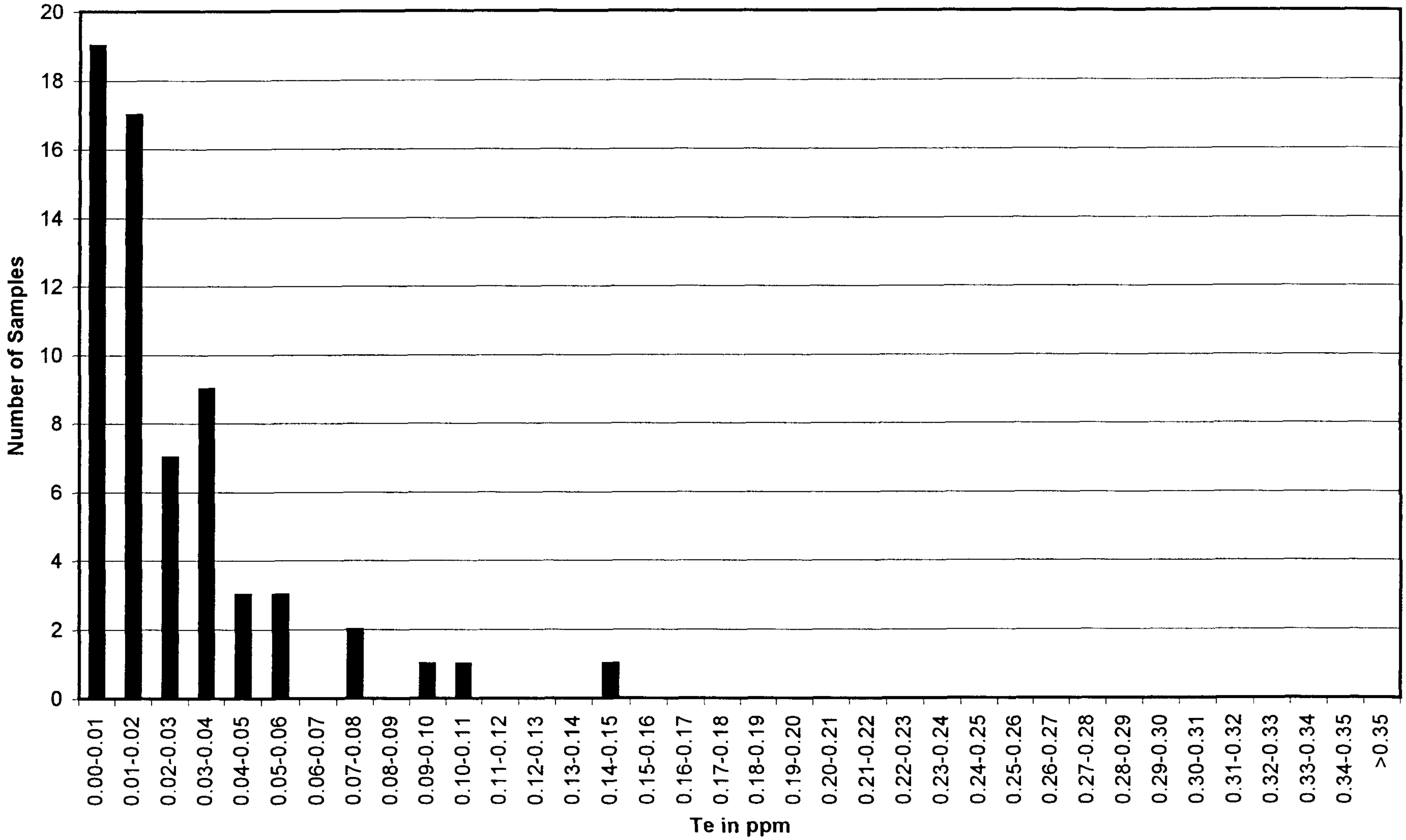


Hg in Silts - Butter Claims

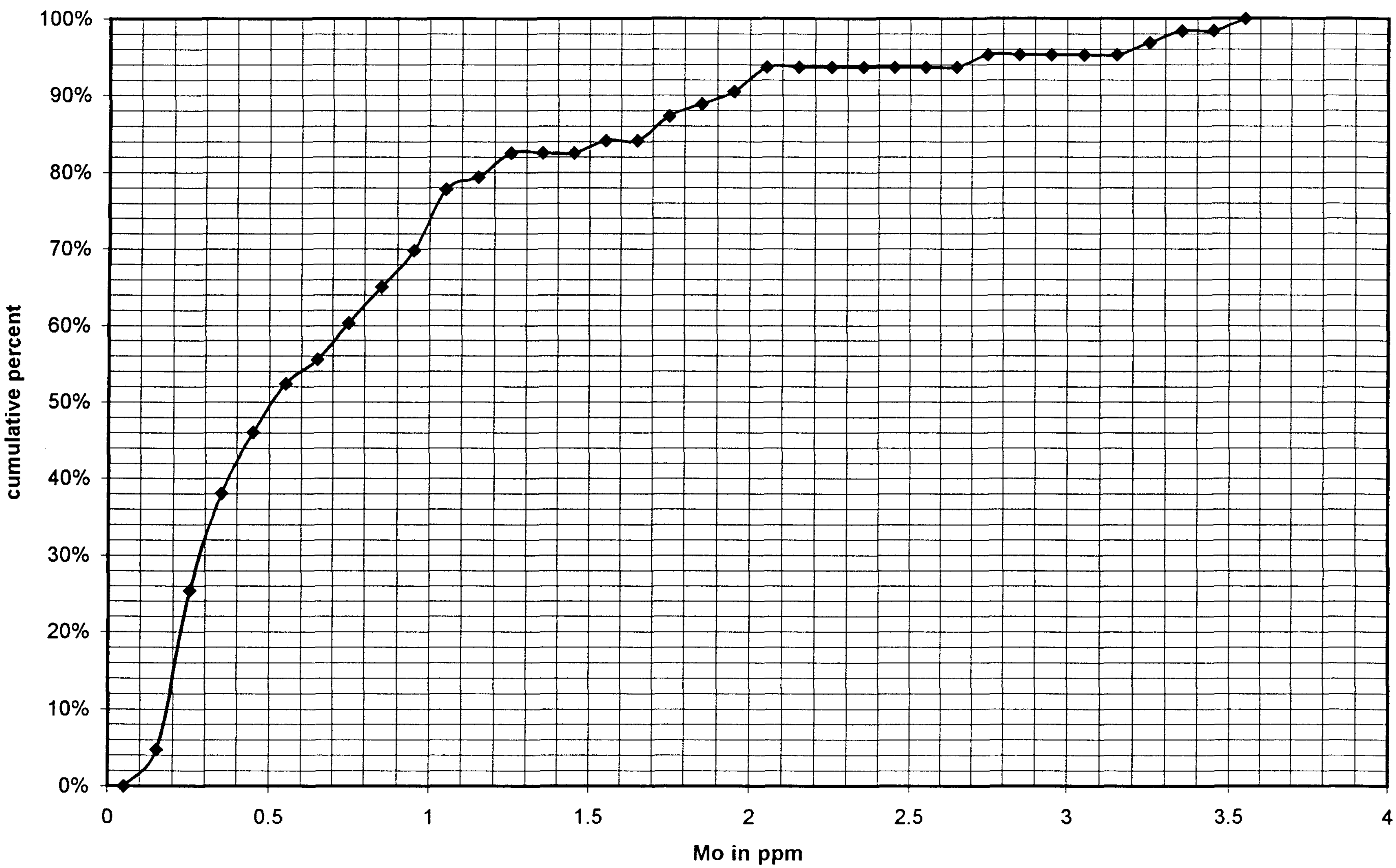


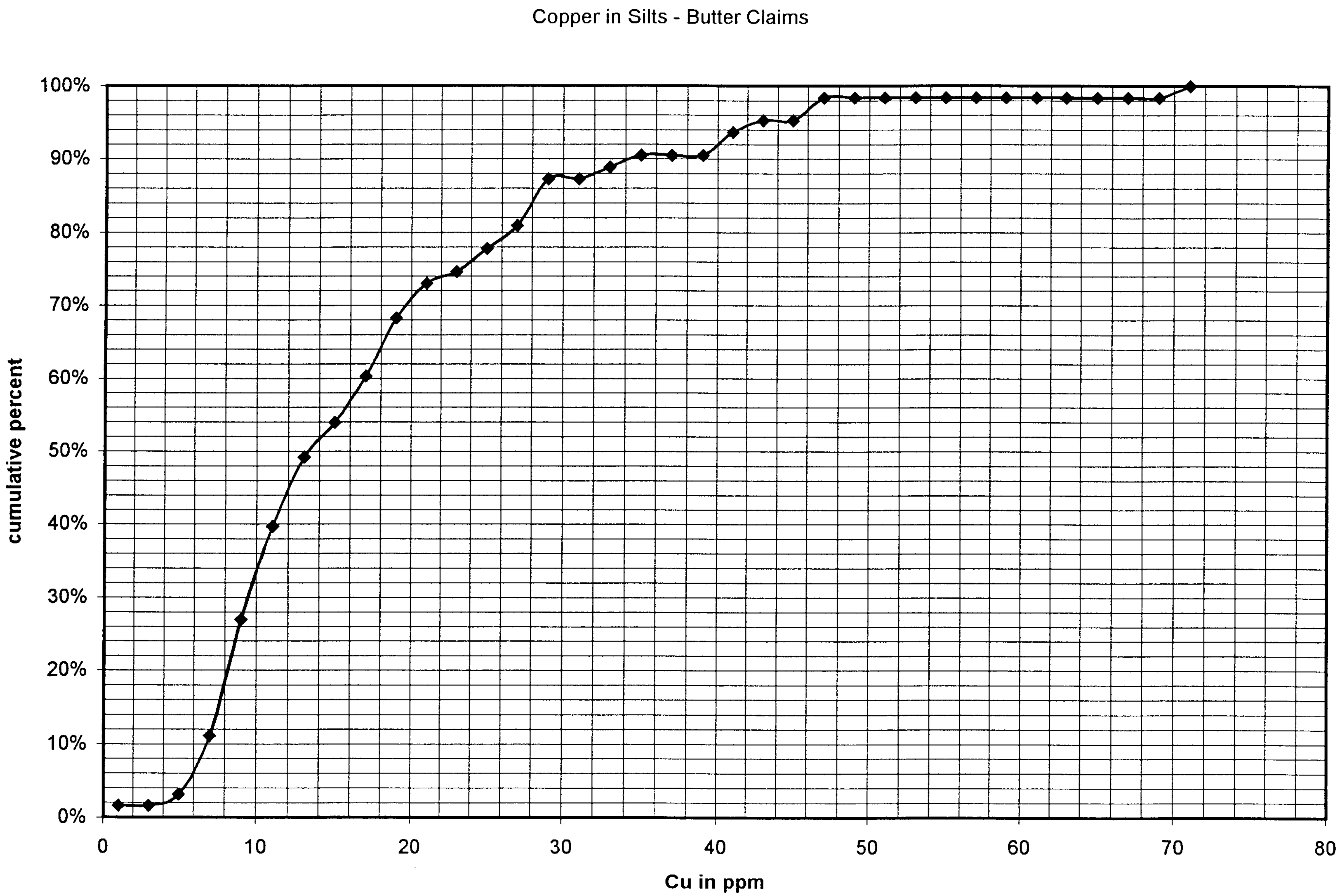

Se in Silts - Butter Claims
Number of Samples
0
2
4
6
8
10
12
14
0.0-0.1
0.1-0.2
0.2-0.3
0.3-0.4
0.4-0.5
0.5-0.6
0.6-0.7
0.7-0.8
0.8-0.9
0.9-1.0
1.0-1.1
1.1-1.2
1.2-1.3
1.3-1.4
1.4-1.5
1.5-1.6
1.6-1.7
1.7-1.8
1.8-1.9
1.9-2.0
2.0-2.1
2.1-2.2
2.2-2.3
2.3-2.4
2.4-2.5
2.5-2.6
2.6-2.7
2.7-2.8
2.8-2.9
2.9-3.0
3.0-3.1
3.1-3.2
3.2-3.3
3.3-3.4
3.4-3.5
>3.5
Se in ppm

Te in Silts - Butter Claims

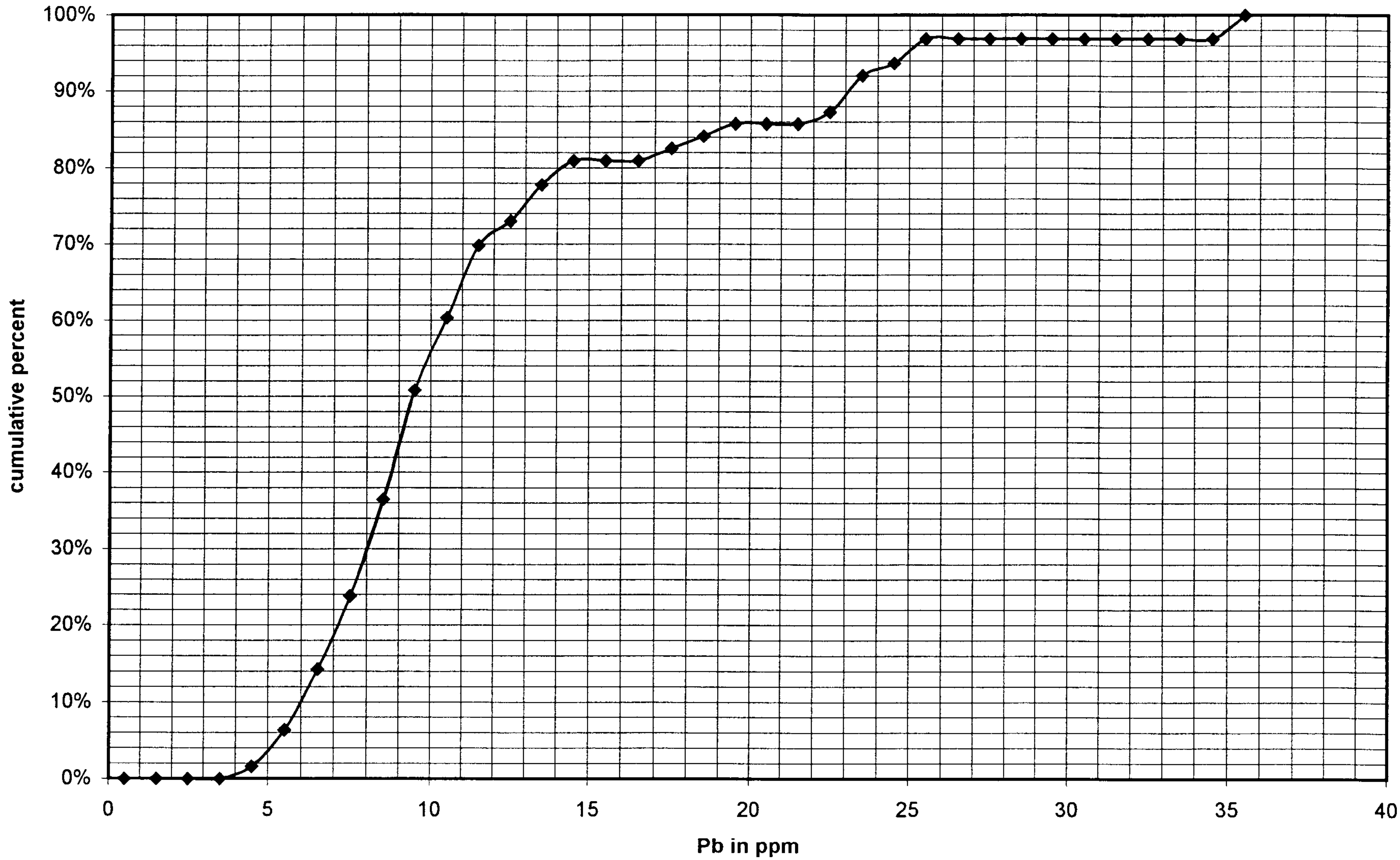


Molybdenum in silts - Butter Claims

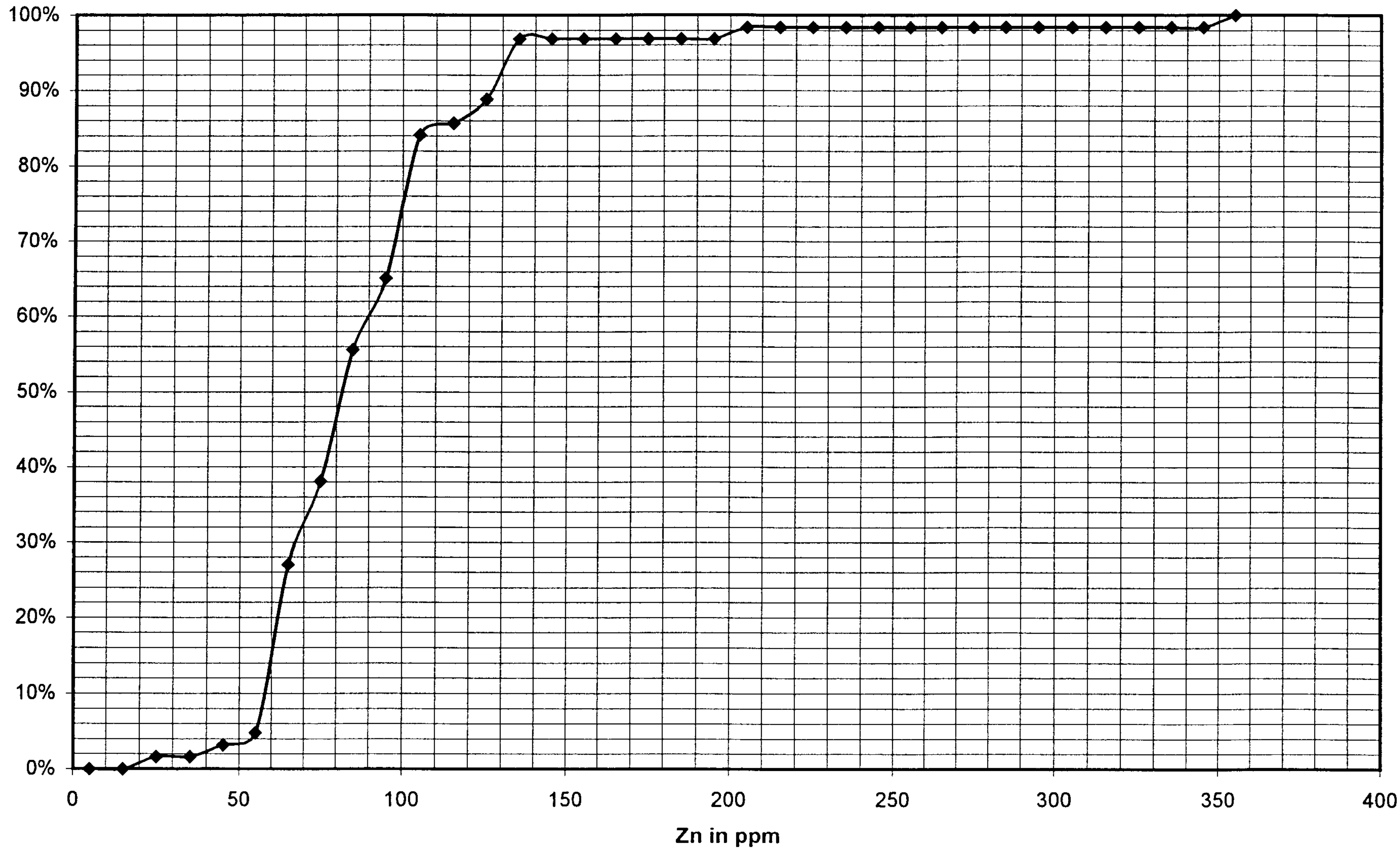



Copper in Silts - Butter Claims
cumulative percent
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
10
20
30
40
50
60
70
80
Cu in ppm

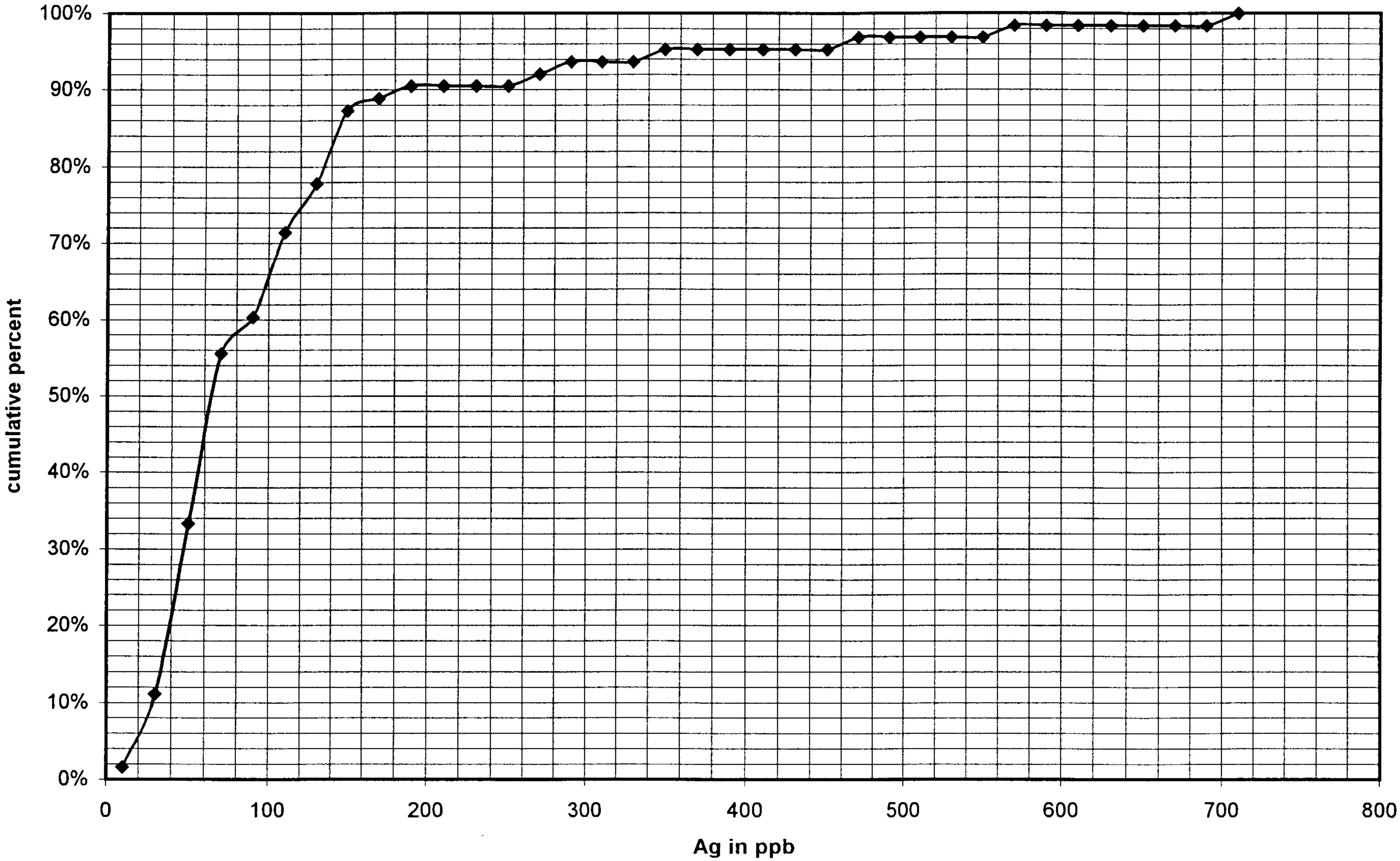
Lead in Silts - Butter Claims

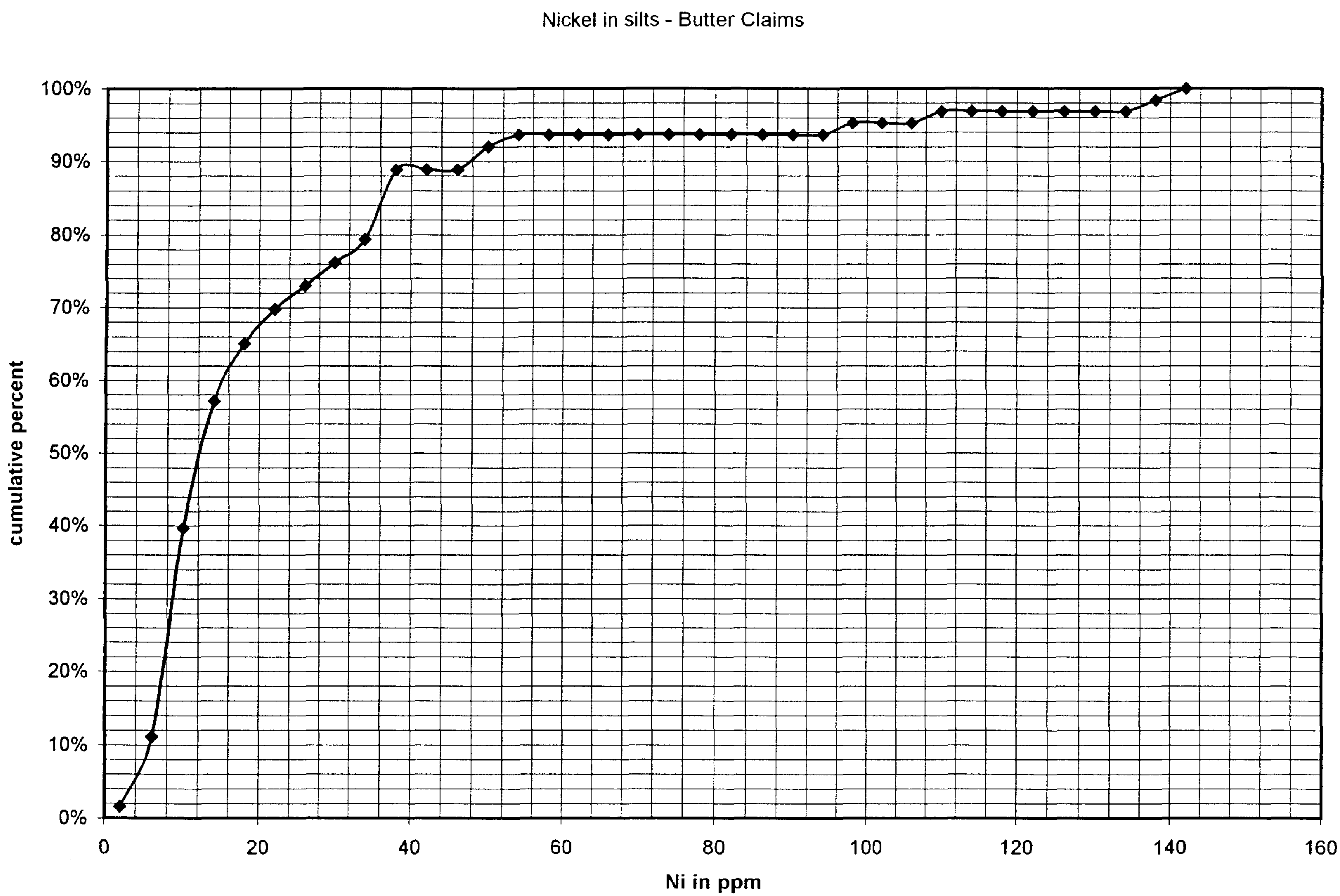


Zinc in Silts - Butter Claims

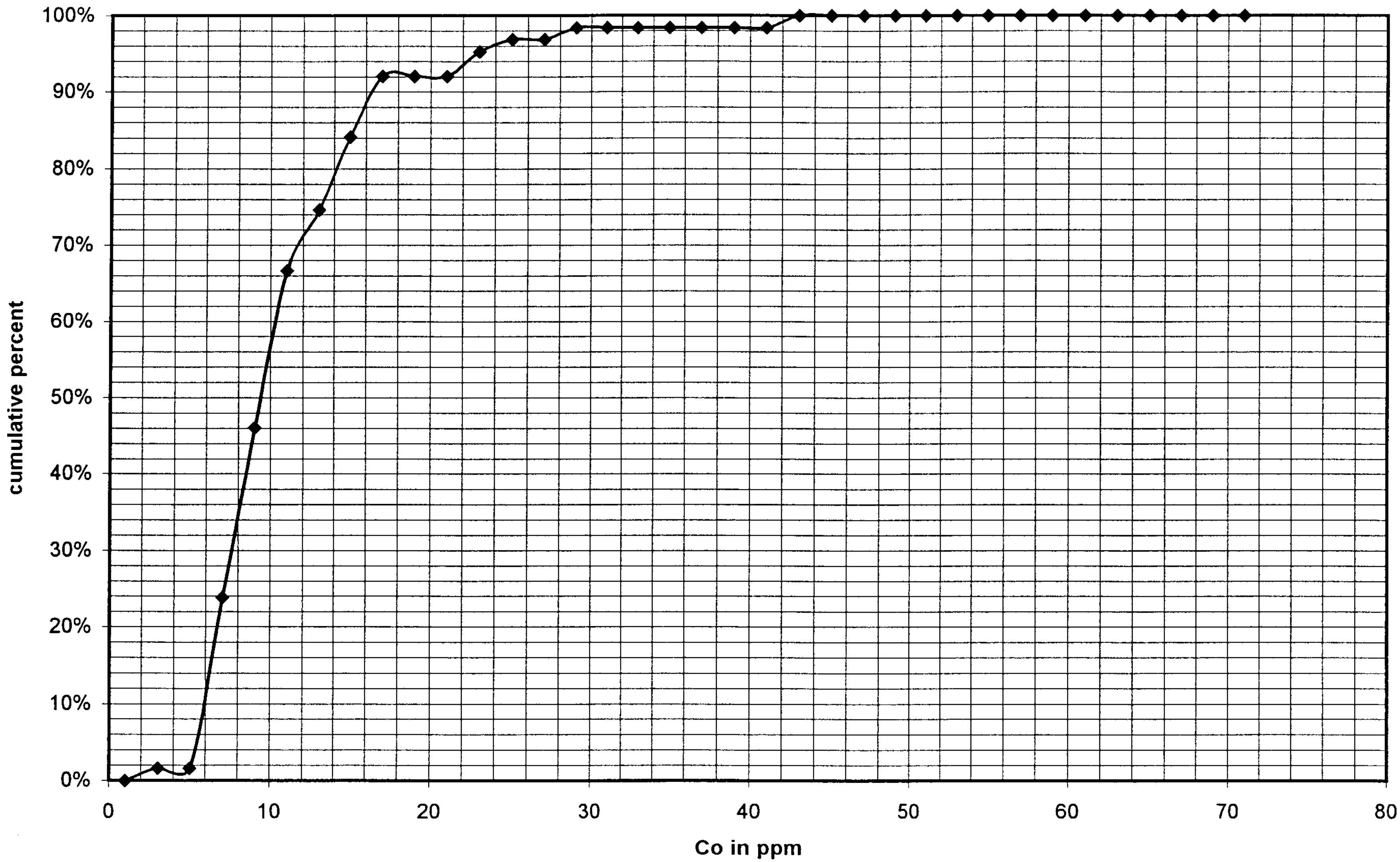


Silver in Silts - Butter Claims

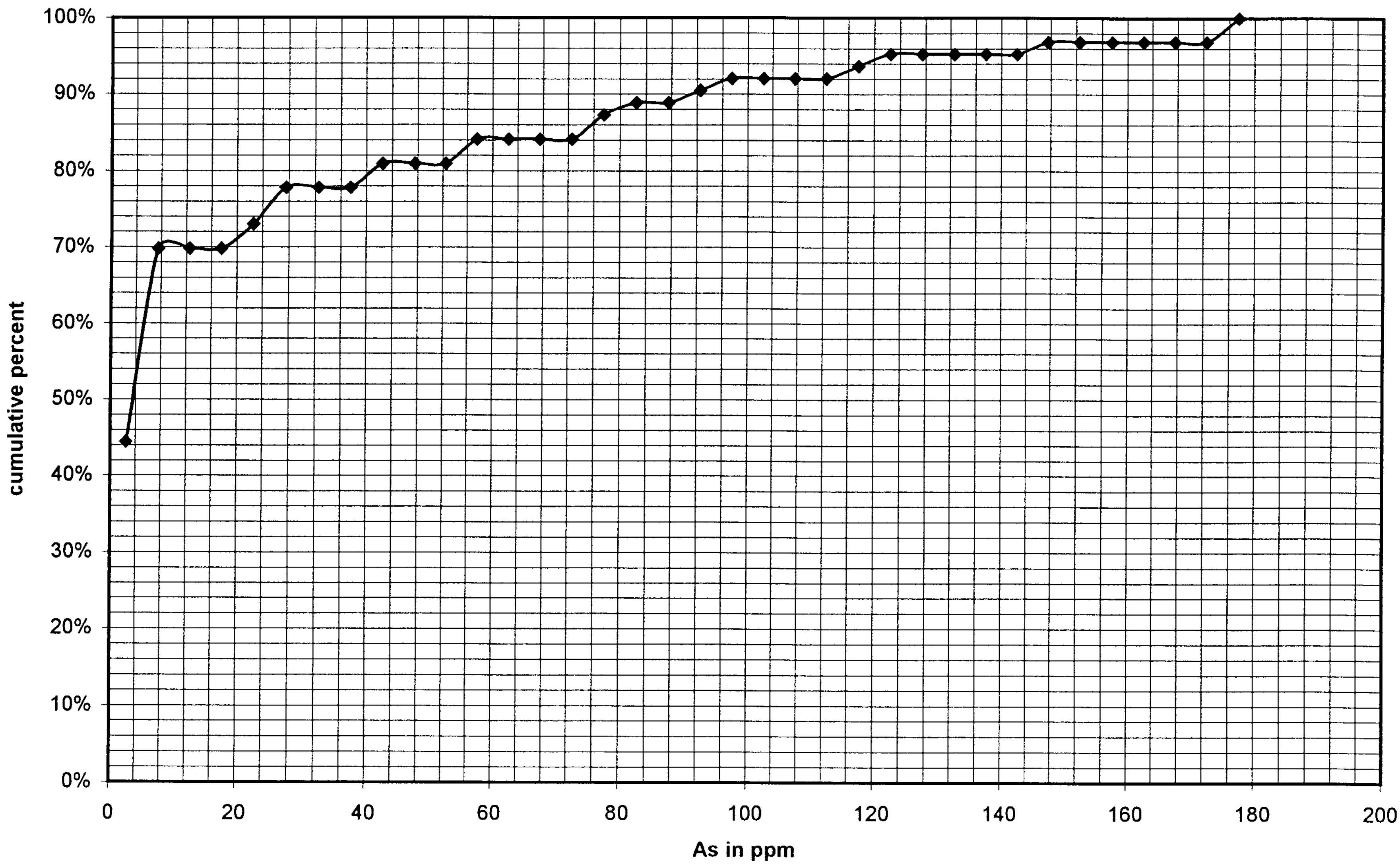



Nickel in silts - Butter Claims
cumulative percent
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
20
40
60
80
100
120
140
160
Ni in ppm

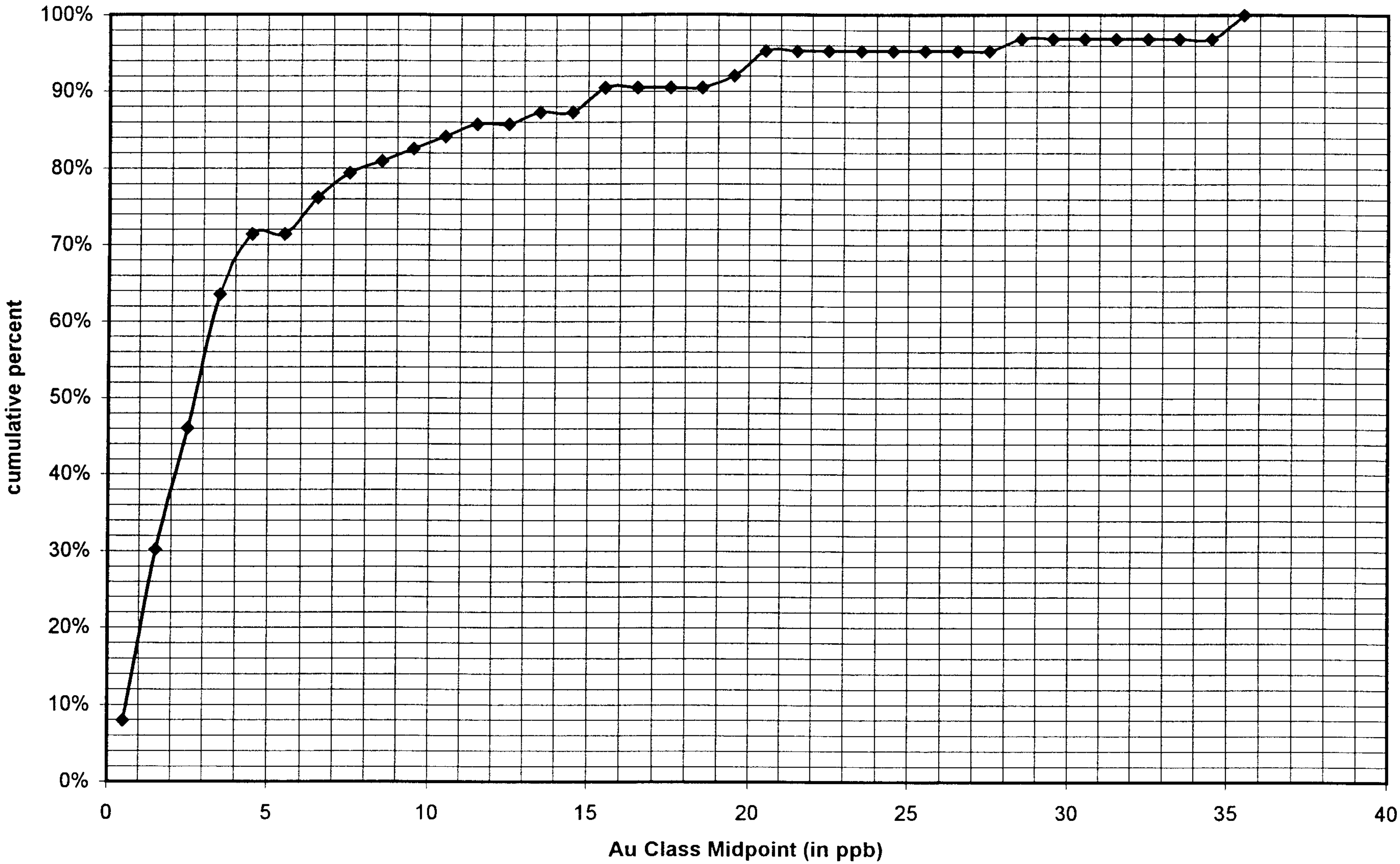
Cobalt in Silts - Butter Claims



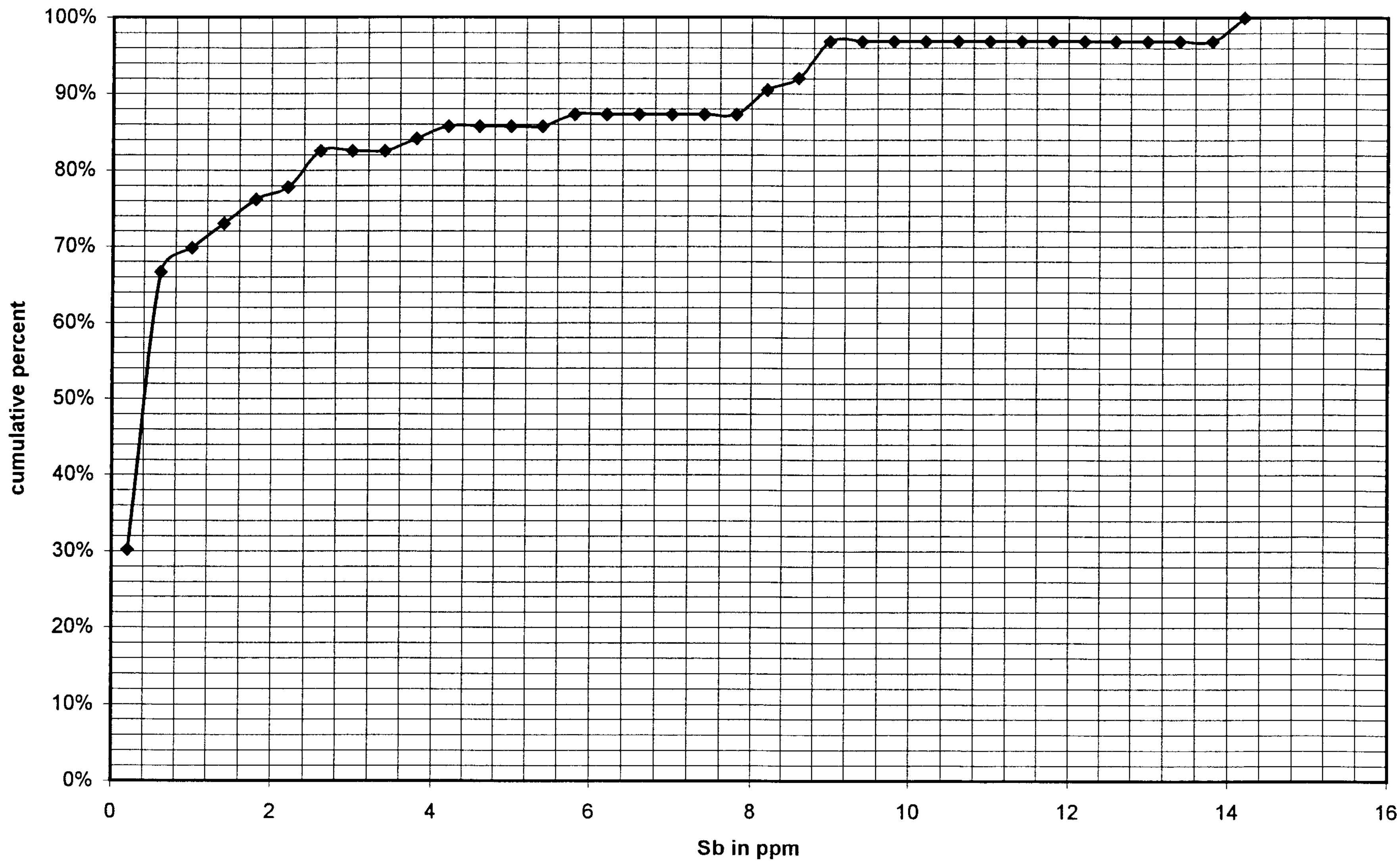
Arsenic in Silts - Butter Claims

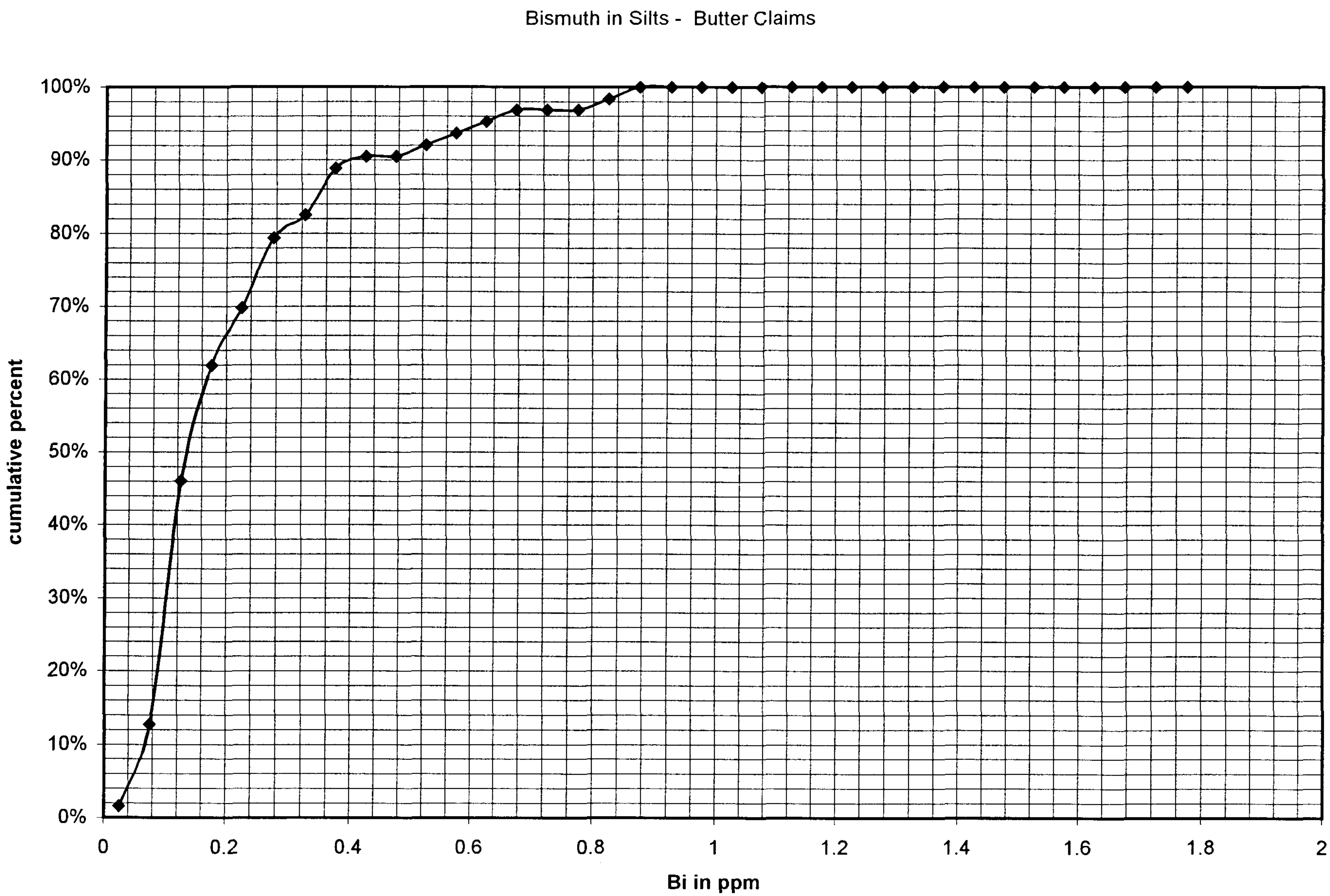


Gold in Silts - Butter Claims

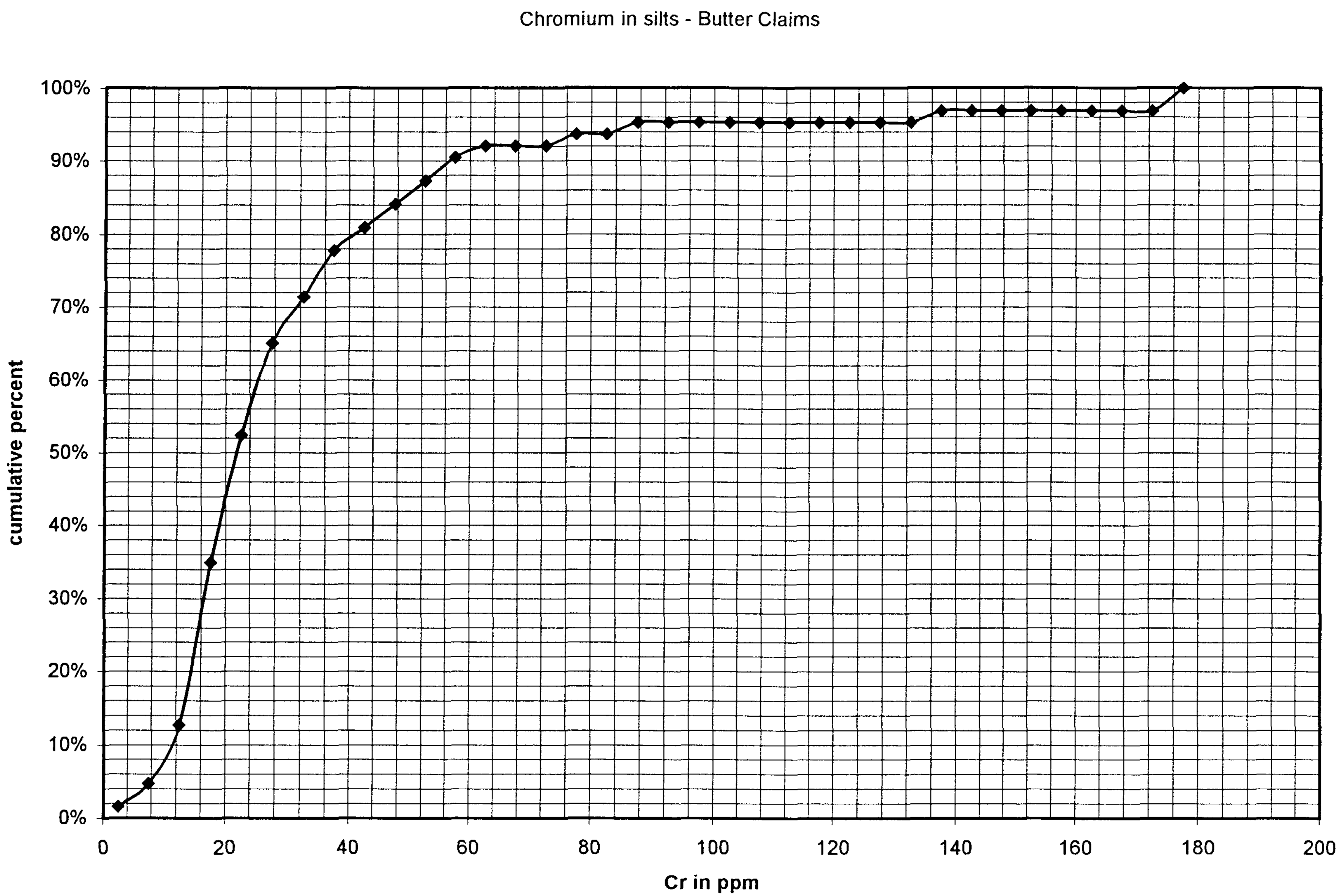


Antimony in Silts - Butter Claims

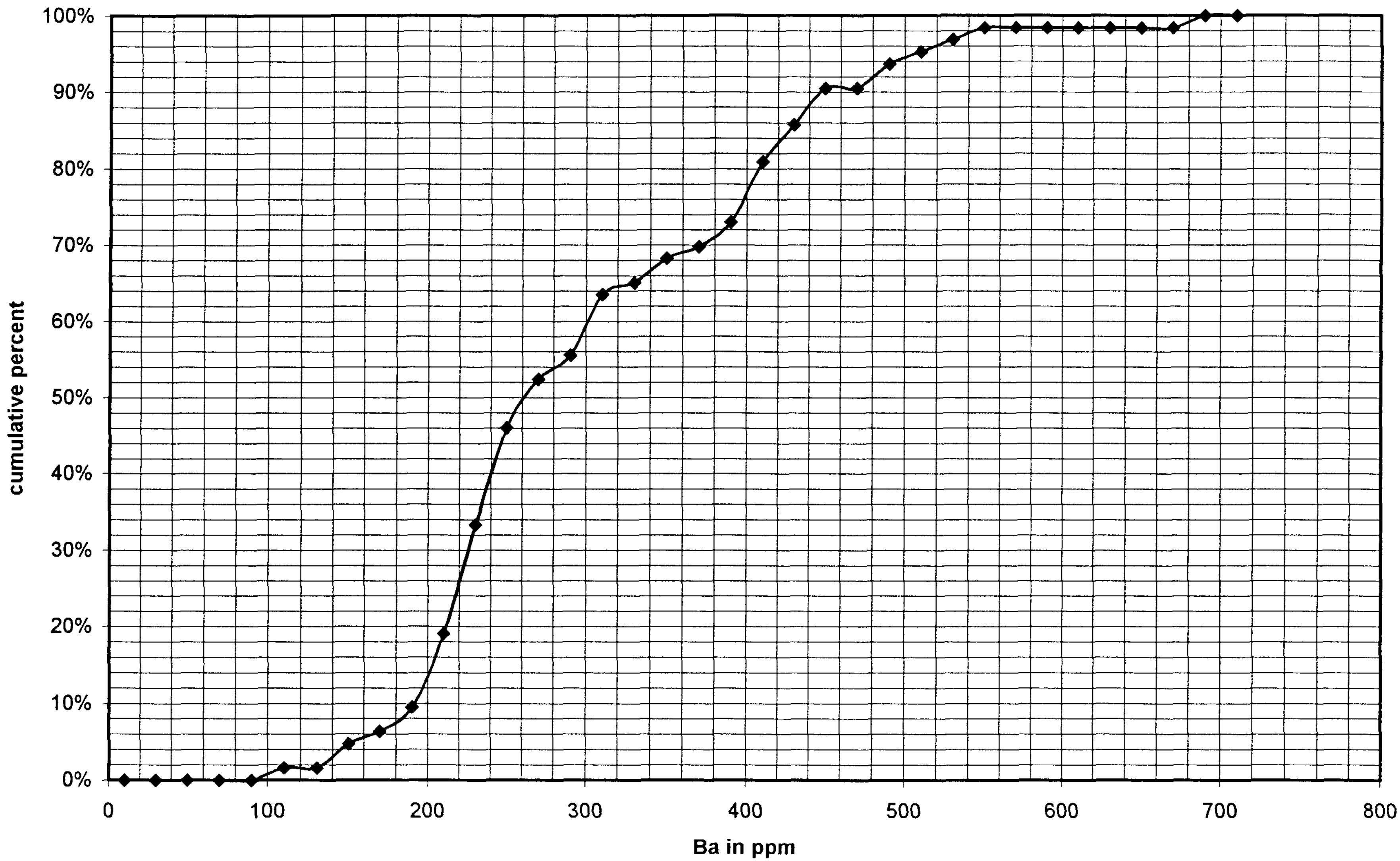


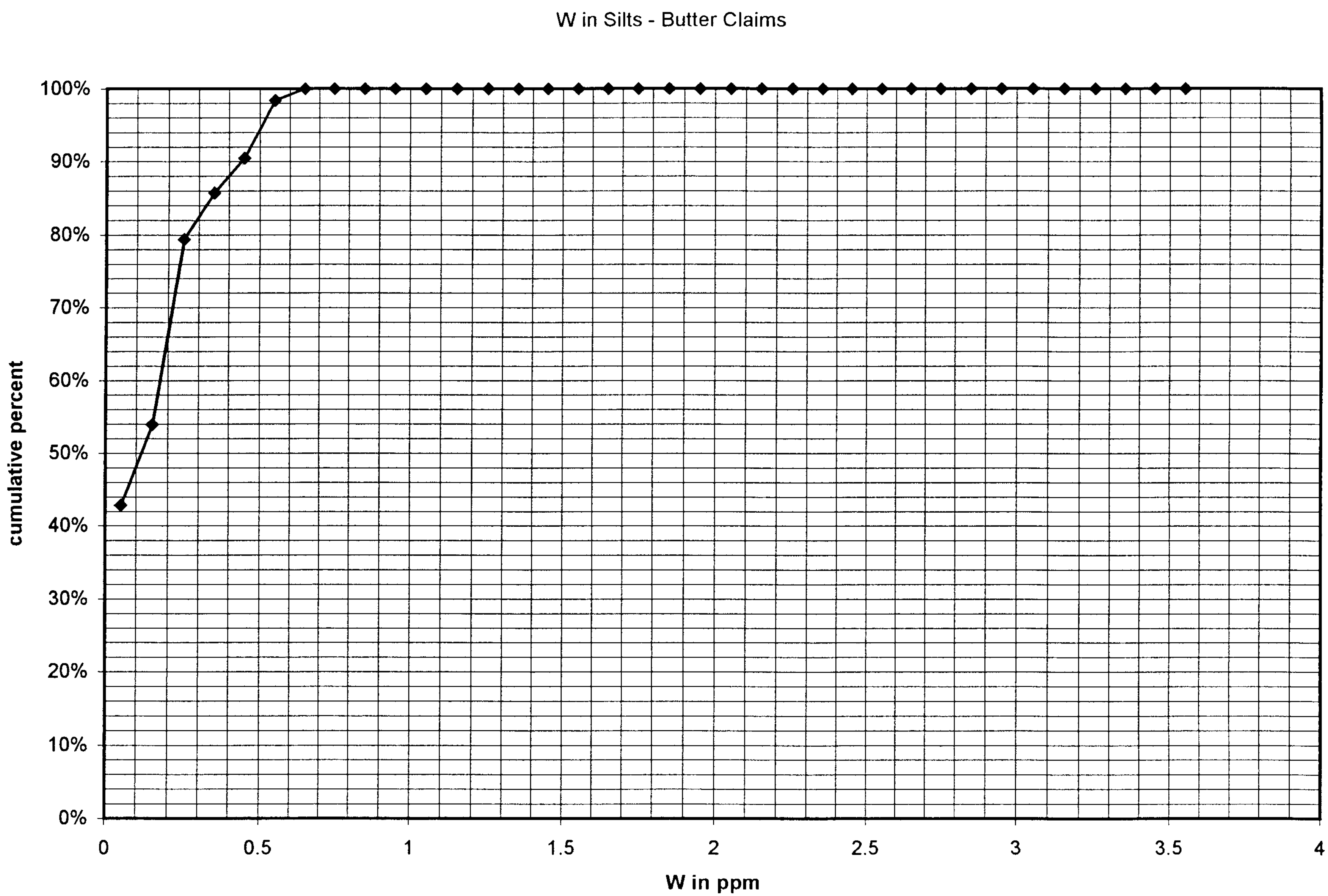


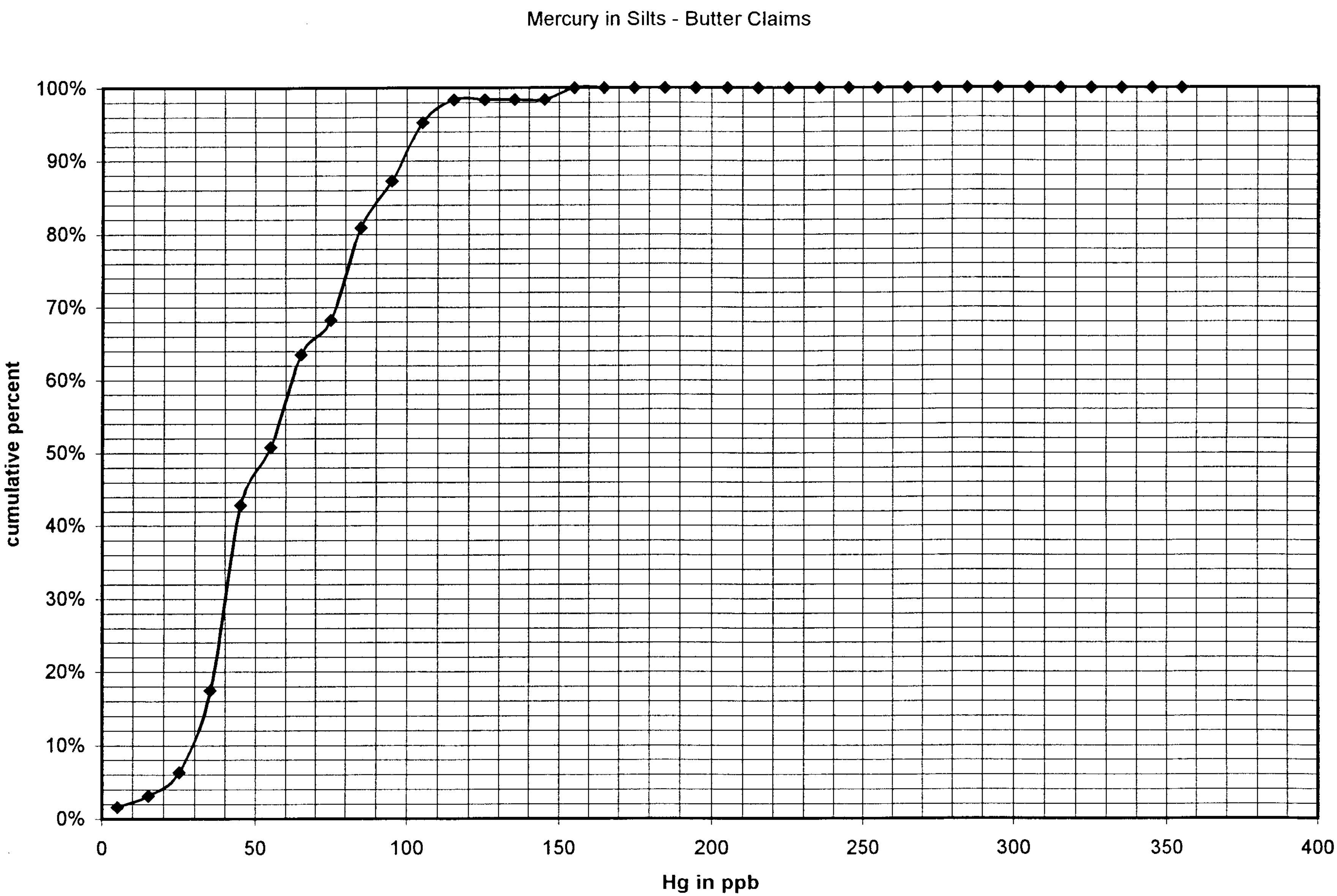
Bismuth in Silts - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Bi in ppm


Chromium in silts - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
20
40
60
80
100
120
140
160
180
200
Cr in ppm

Barium in Silts - Butter Claims

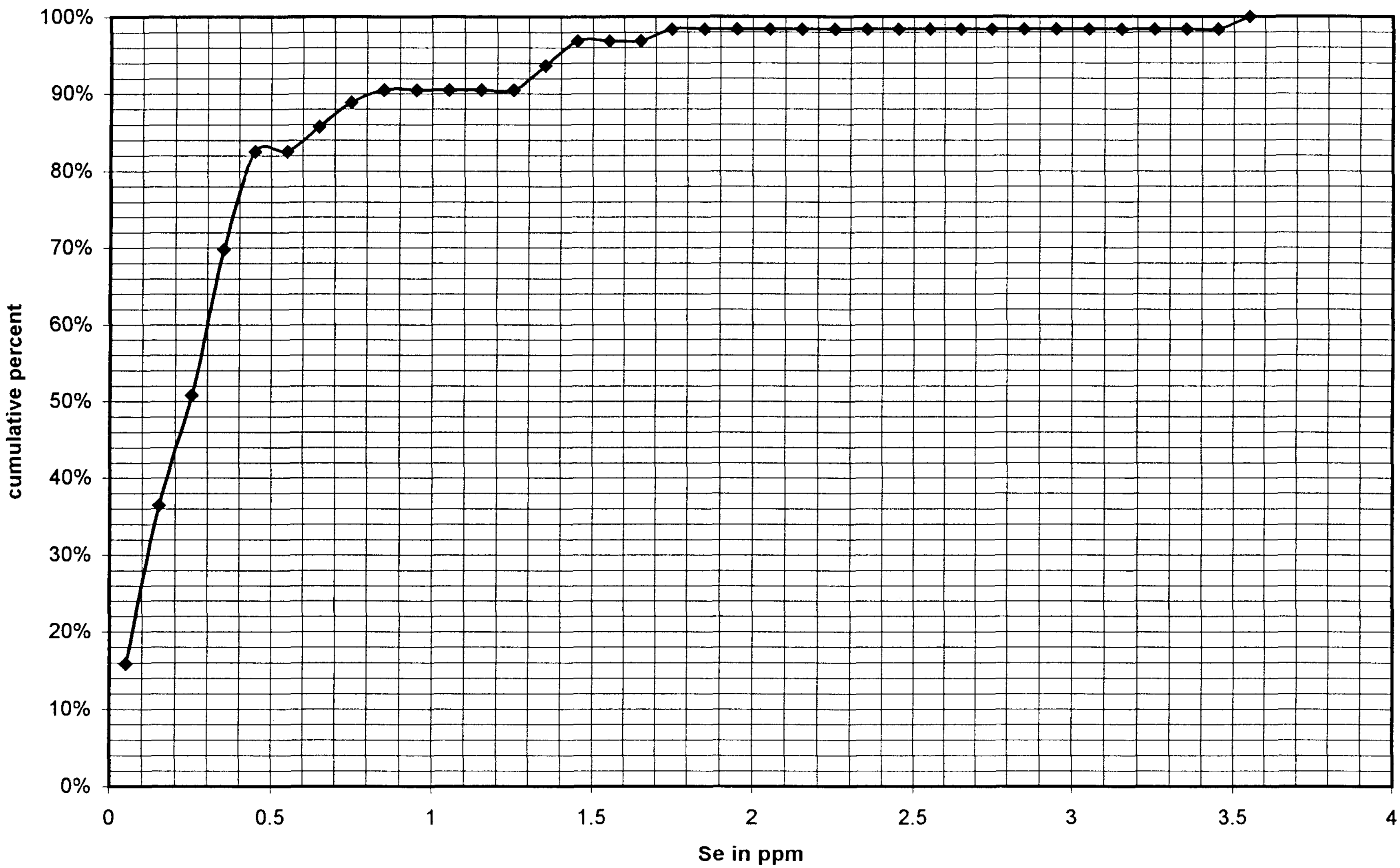



W in Silts - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
0.5
1
1.5
2
2.5
3
3.5
4
W in ppm

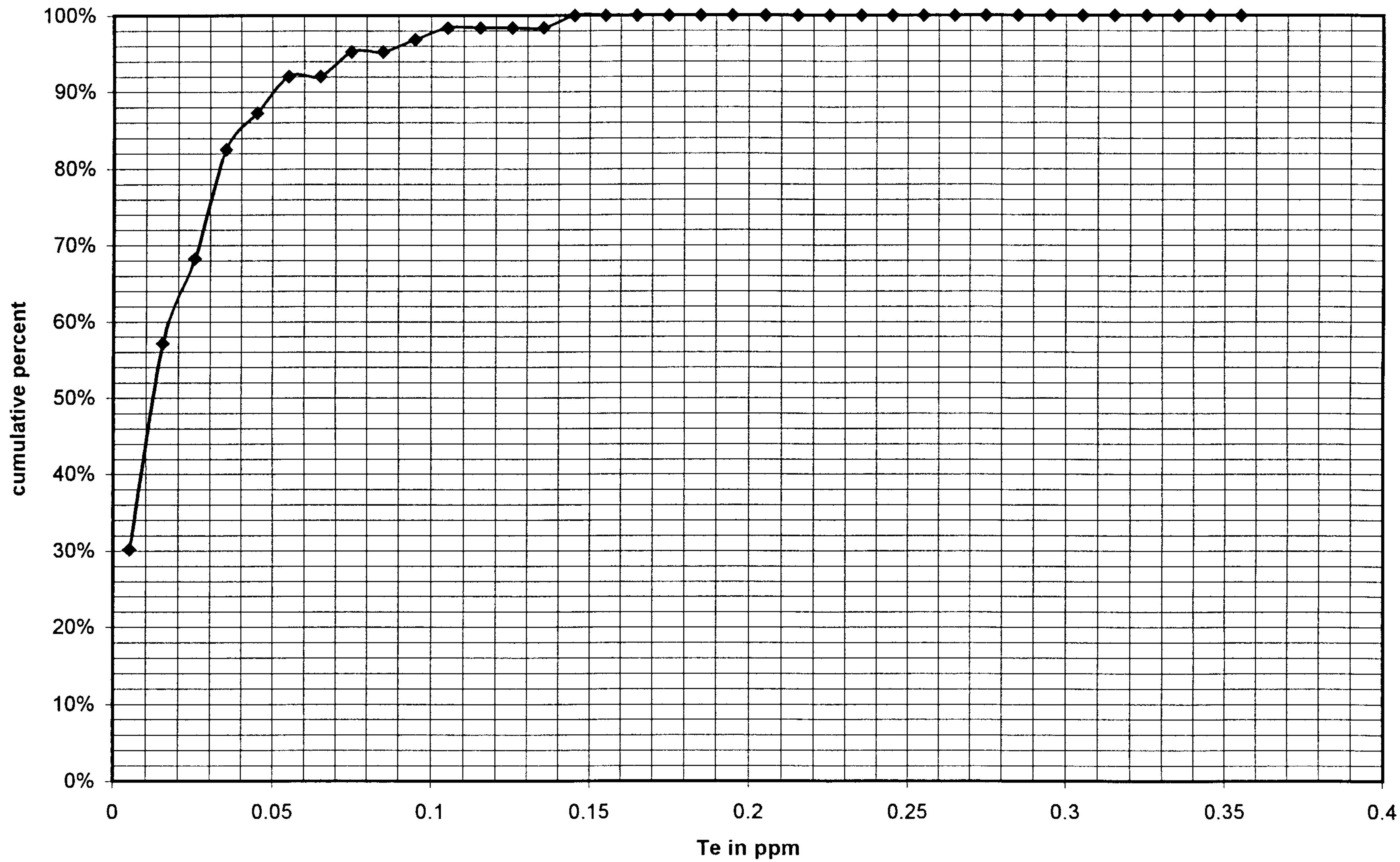


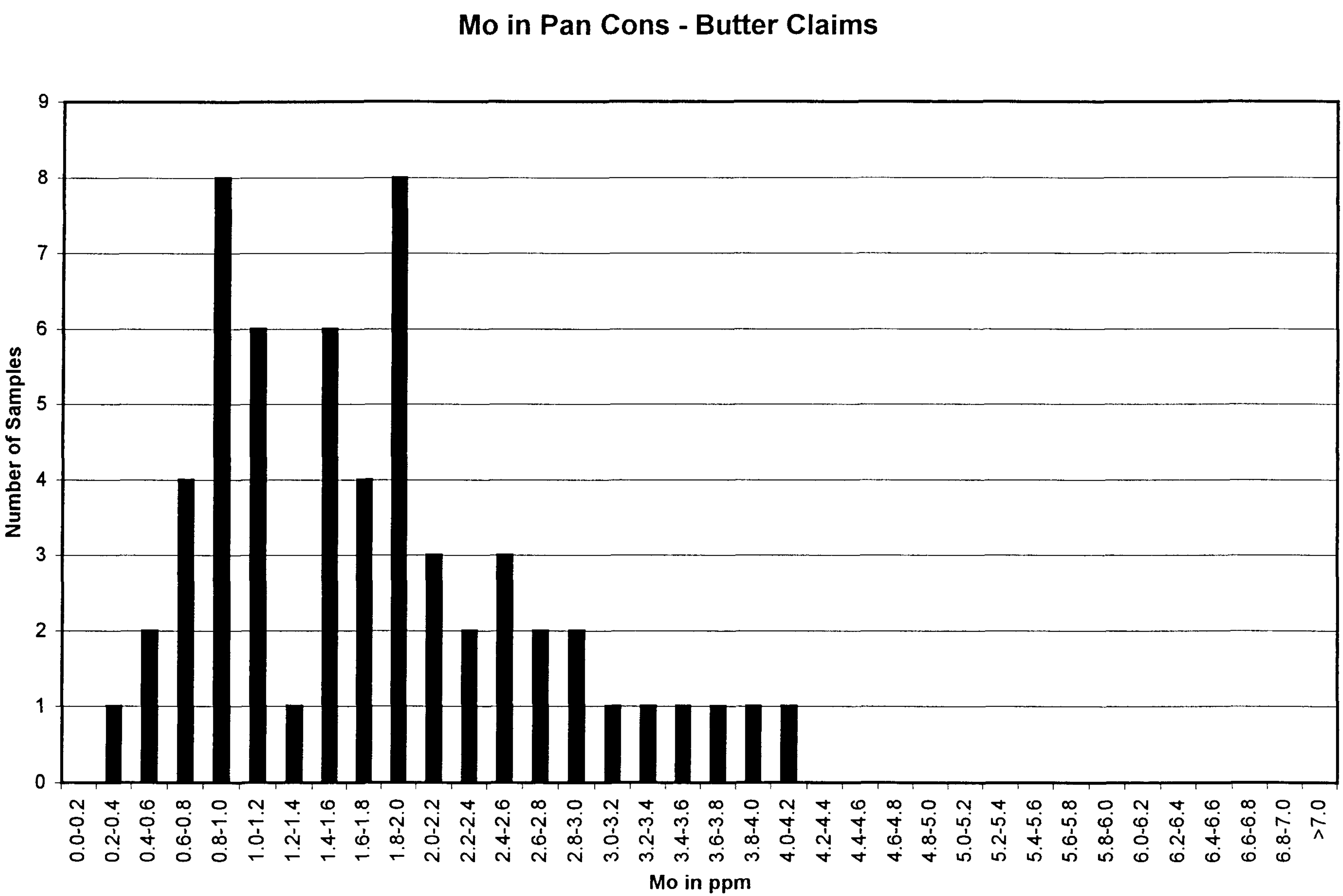
Mercury in Silts - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
50
100
150
200
250
300
350
400
Hg in ppb

Selenium in Silts - Butter Claims

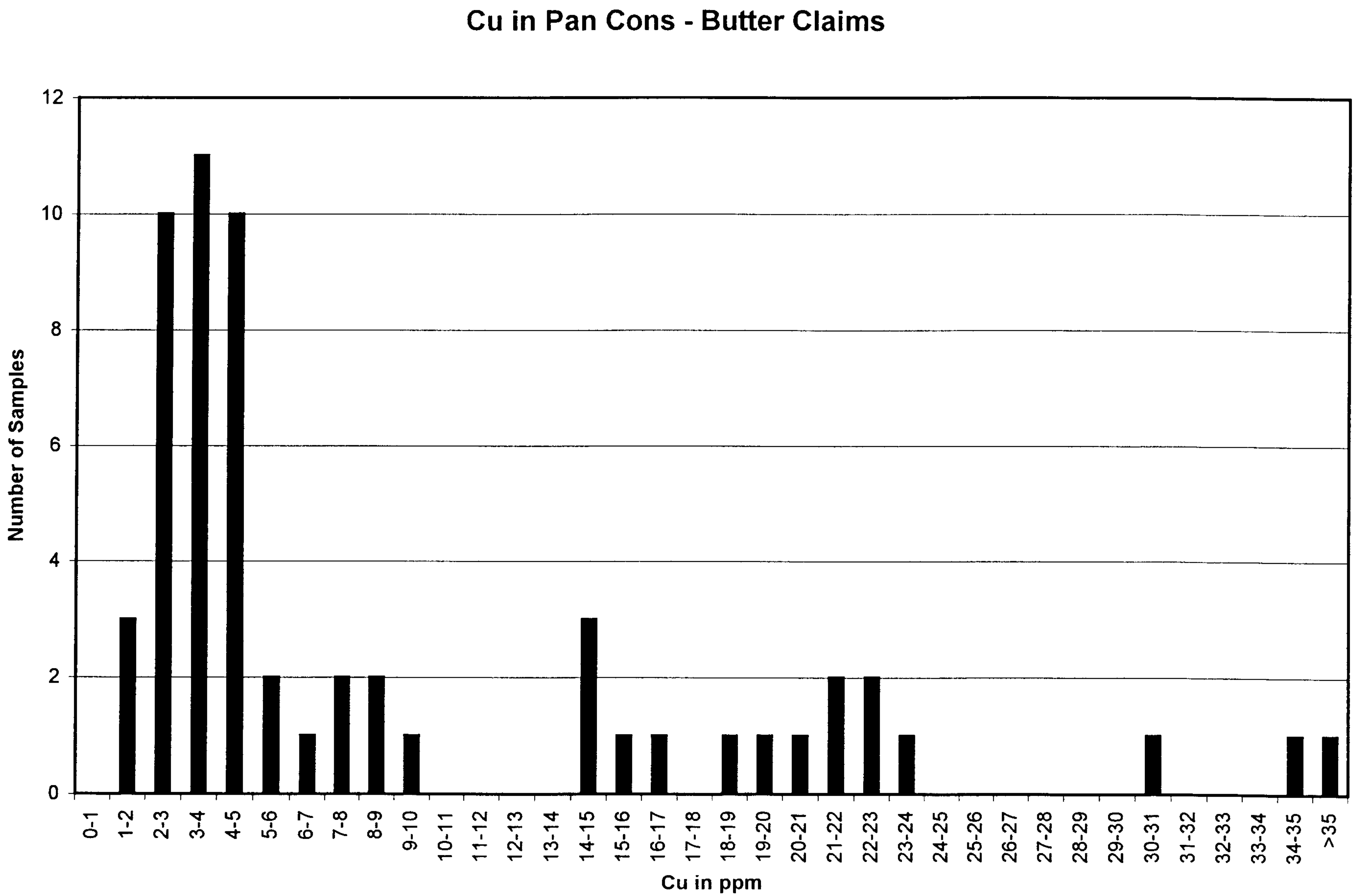


Tellurium in Silts - Butter Claims

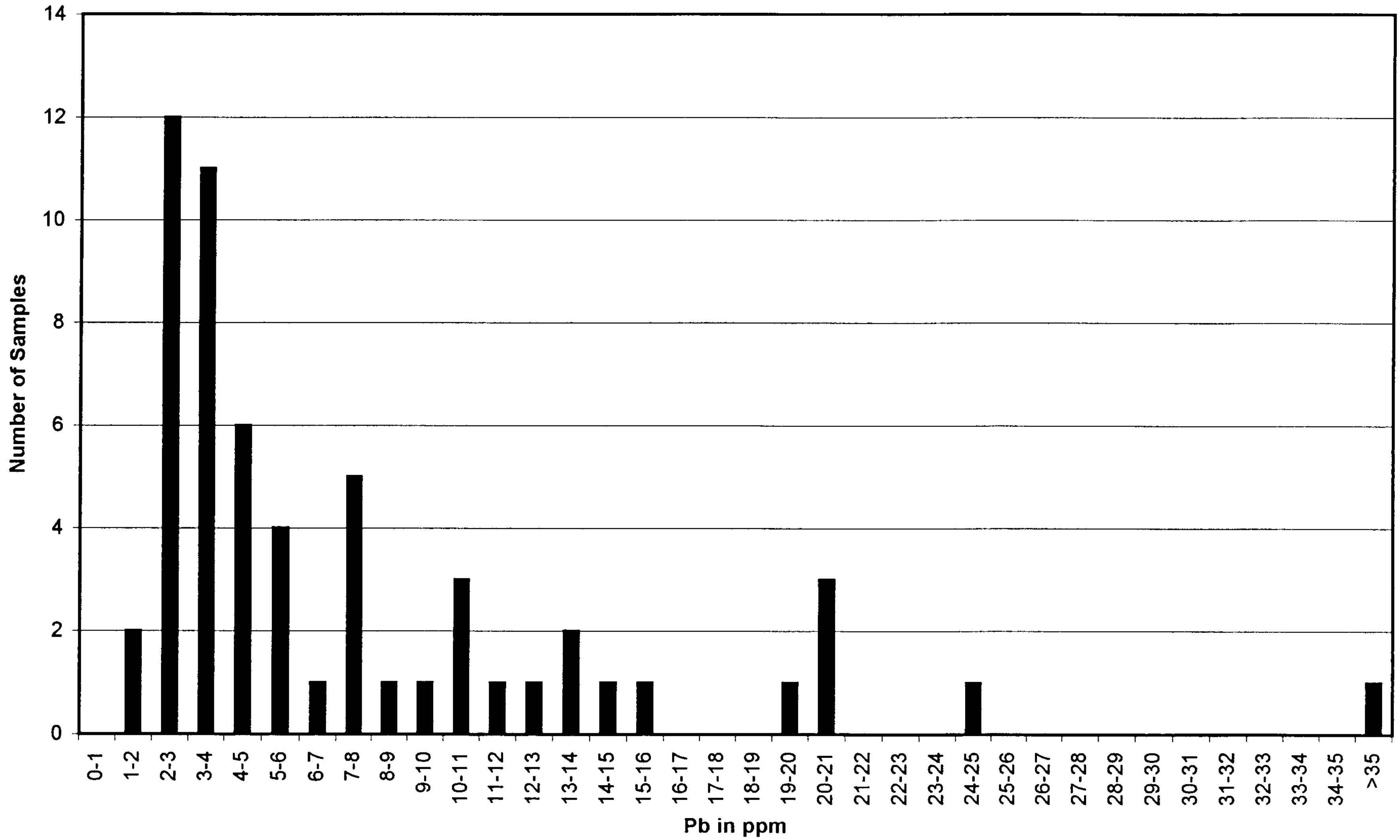


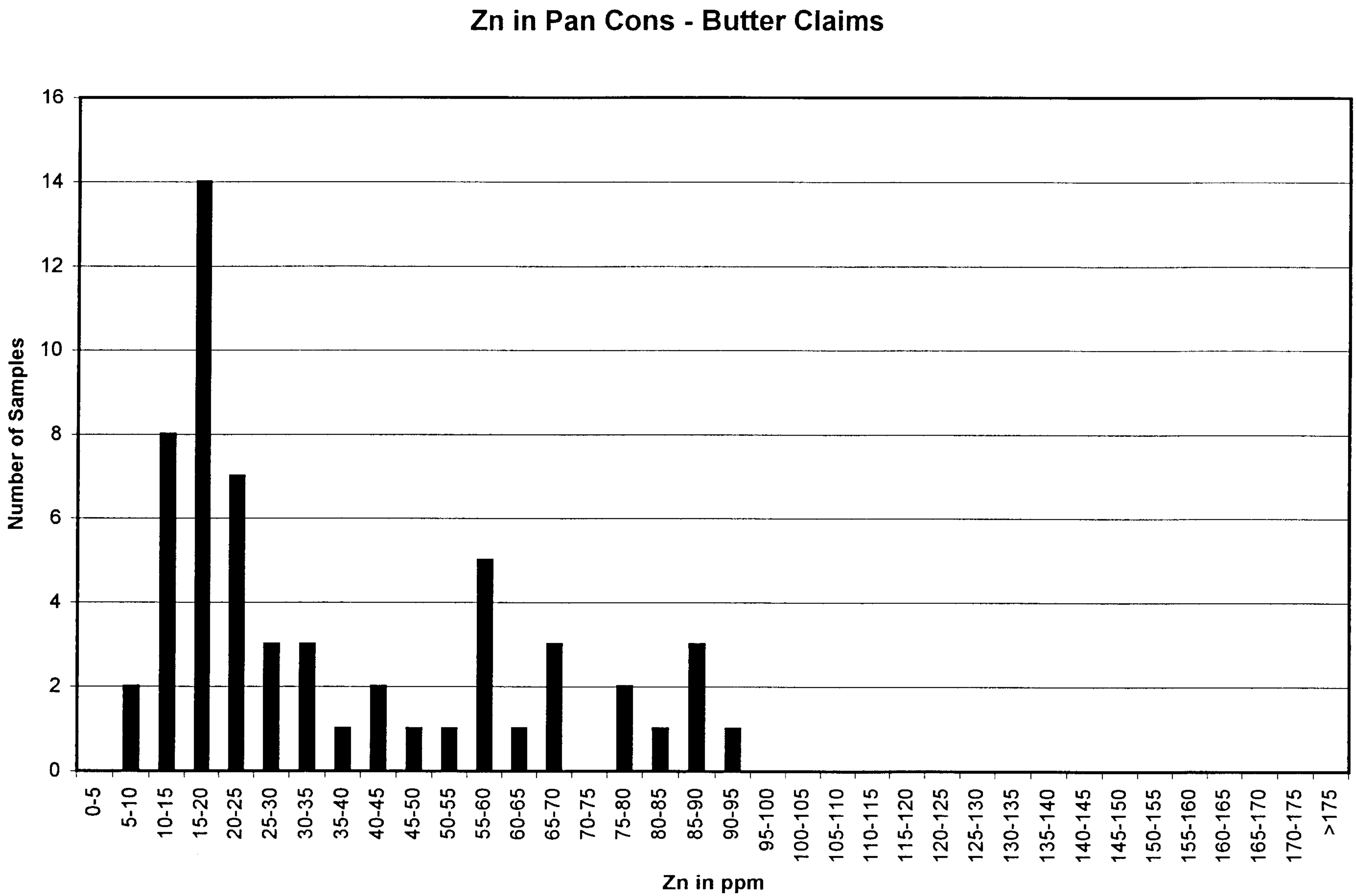


Mo in Pan Cons - Butter Claims
Number of Samples
9
8
7
6
5
4
3
2
1
0
0.0-0.2
0.2-0.4
0.4-0.6
0.6-0.8
0.8-1.0
1.0-1.2
1.2-1.4
1.4-1.6
1.6-1.8
1.8-2.0
2.0-2.2
2.2-2.4
2.4-2.6
2.6-2.8
2.8-3.0
3.0-3.2
3.2-3.4
3.4-3.6
3.6-3.8
3.8-4.0
4.0-4.2
4.2-4.4
4.4-4.6
4.6-4.8
4.8-5.0
5.0-5.2
5.2-5.4
5.4-5.6
5.6-5.8
5.8-6.0
6.0-6.2
6.2-6.4
6.4-6.6
6.6-6.8
6.8-7.0
>7.0
Mo in ppm

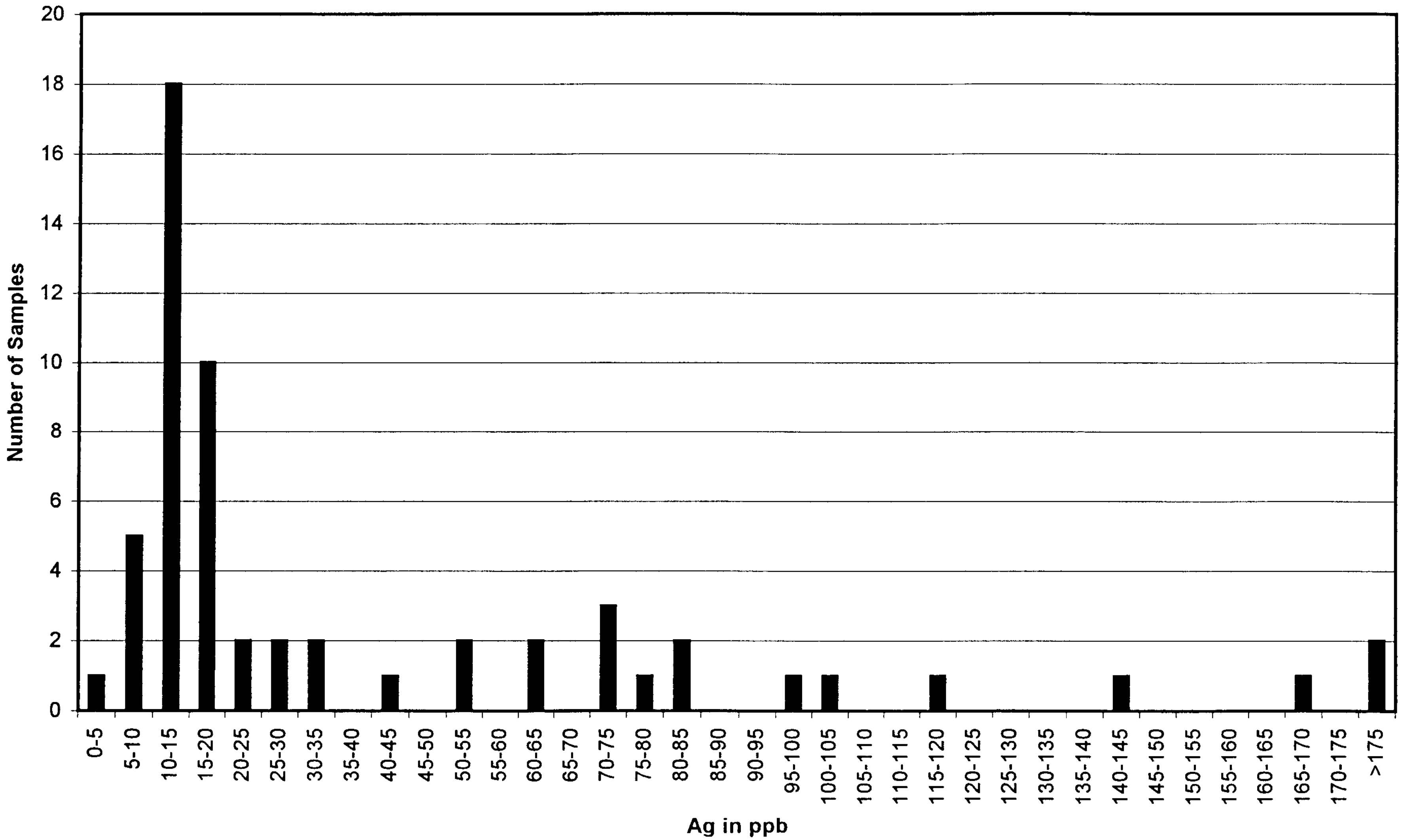

Cu in Pan Cons - Butter Claims
Number of Samples
0
2
4
6
8
10
12
0-1
1-2
2-3
3-4
4-5
5-6
6-7
7-8
8-9
9-10
10-11
11-12
12-13
13-14
14-15
15-16
16-17
17-18
18-19
19-20
20-21
21-22
22-23
23-24
24-25
25-26
26-27
27-28
28-29
29-30
30-31
31-32
32-33
33-34
34-35
>35
Cu in ppm

Pb in Pan Cons - Butter Claims

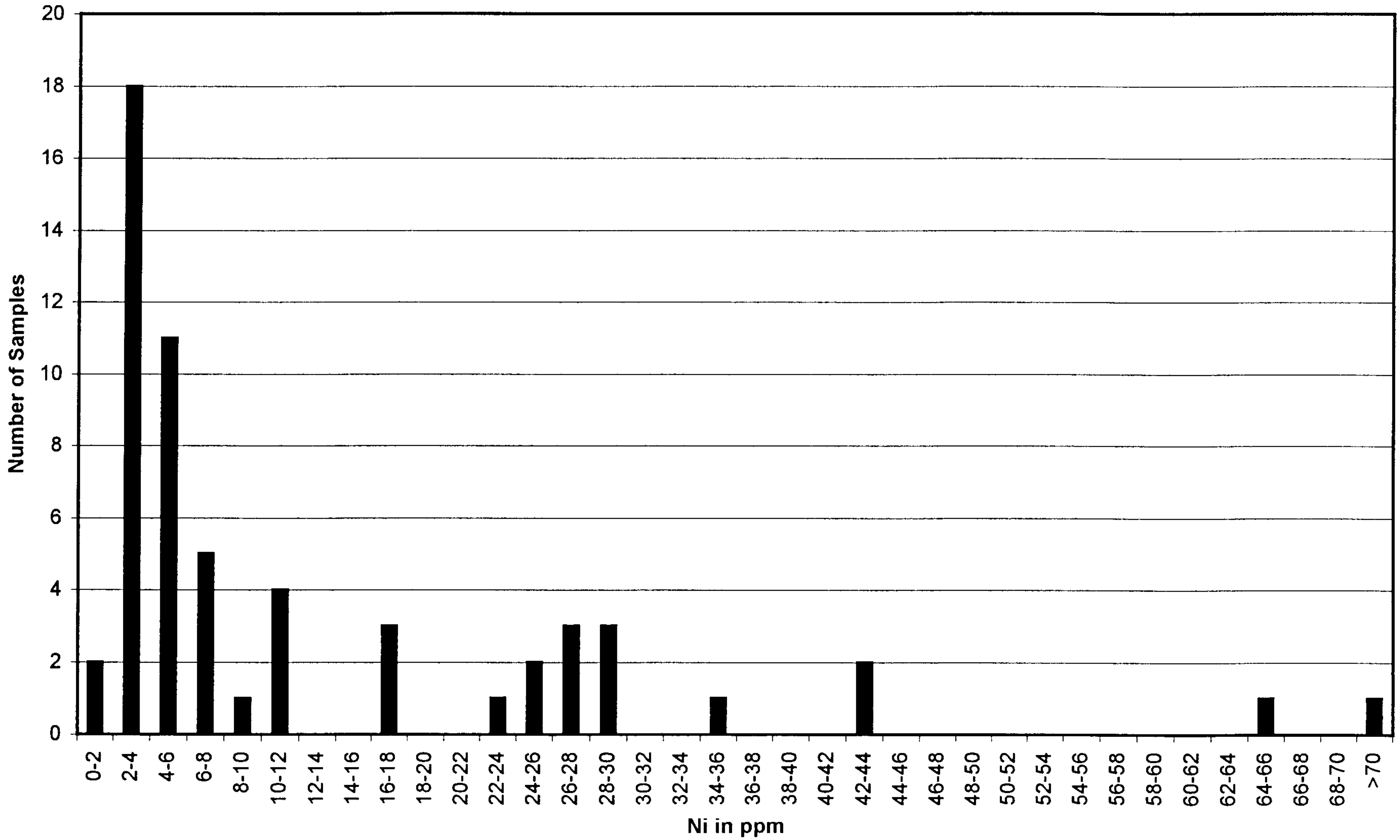


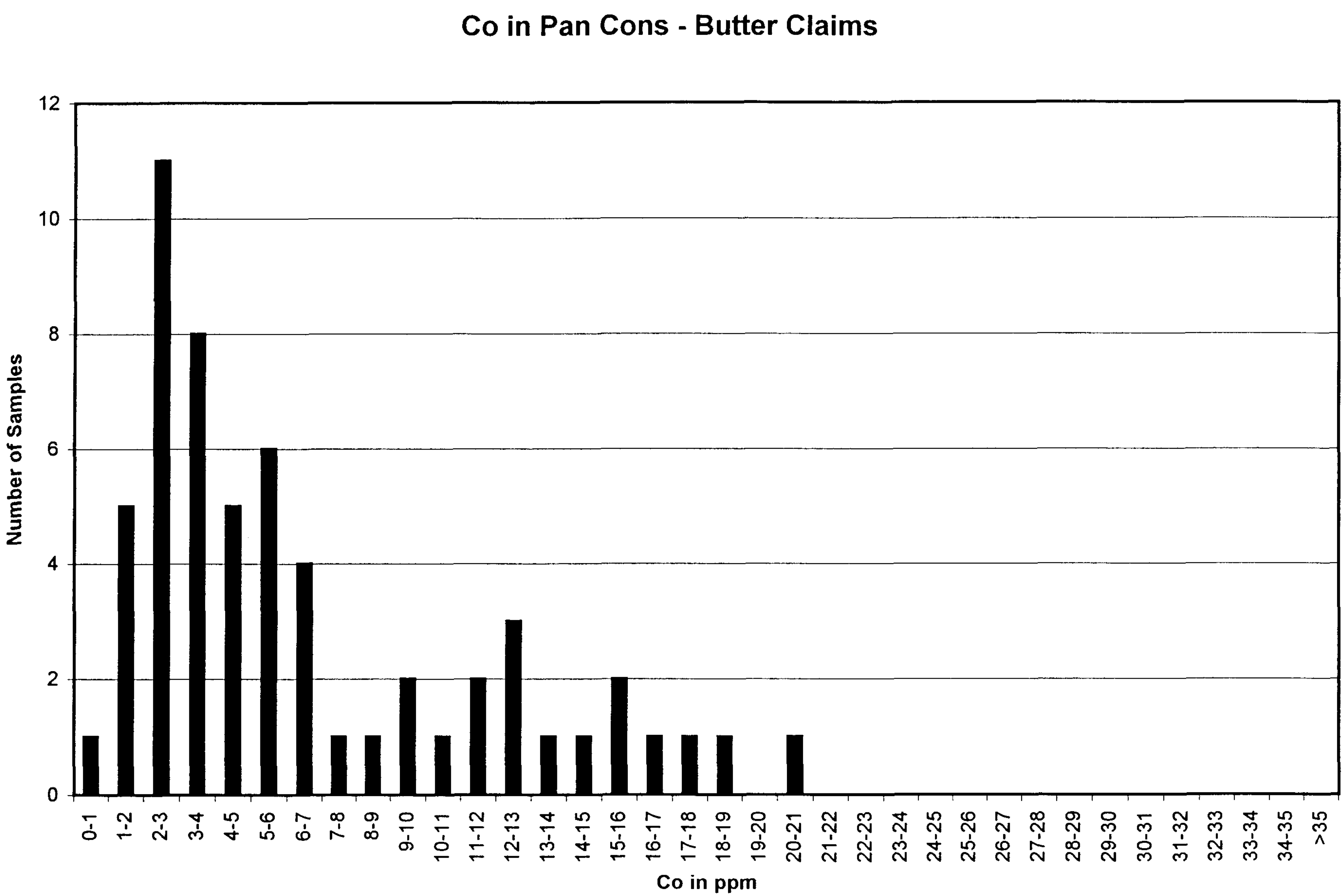

Zn in Pan Cons - Butter Claims
Number of Samples
0
2
4
6
8
10
12
14
16
0-5
5-10
10-15
15-20
20-25
25-30
30-35
35-40
40-45
45-50
50-55
55-60
60-65
65-70
70-75
75-80
80-85
85-90
90-95
95-100
100-105
105-110
110-115
115-120
120-125
125-130
130-135
135-140
140-145
145-150
150-155
155-160
160-165
165-170
170-175
>175
Zn in ppm

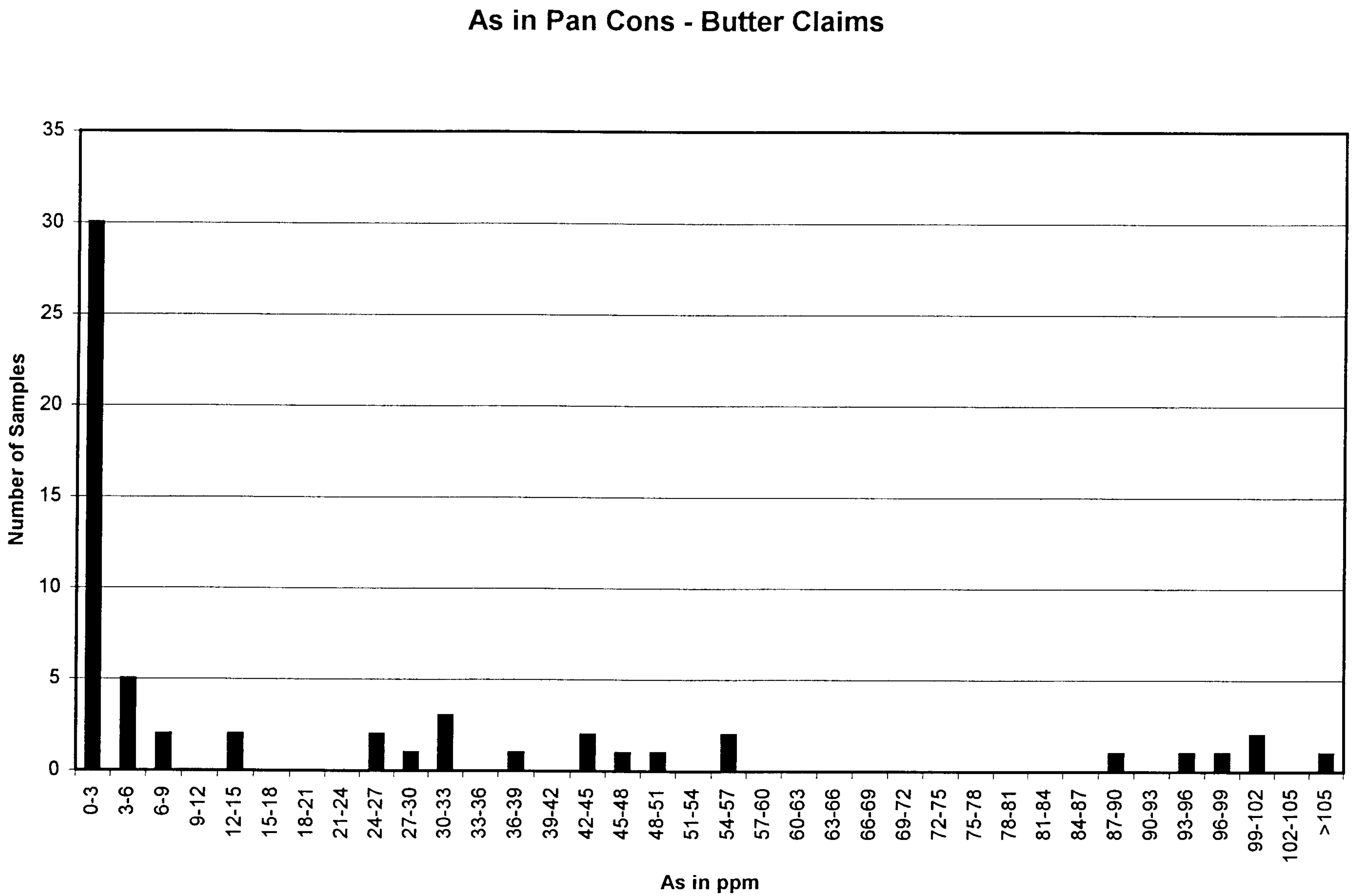
Ag in Pan Cons - Butter Claims



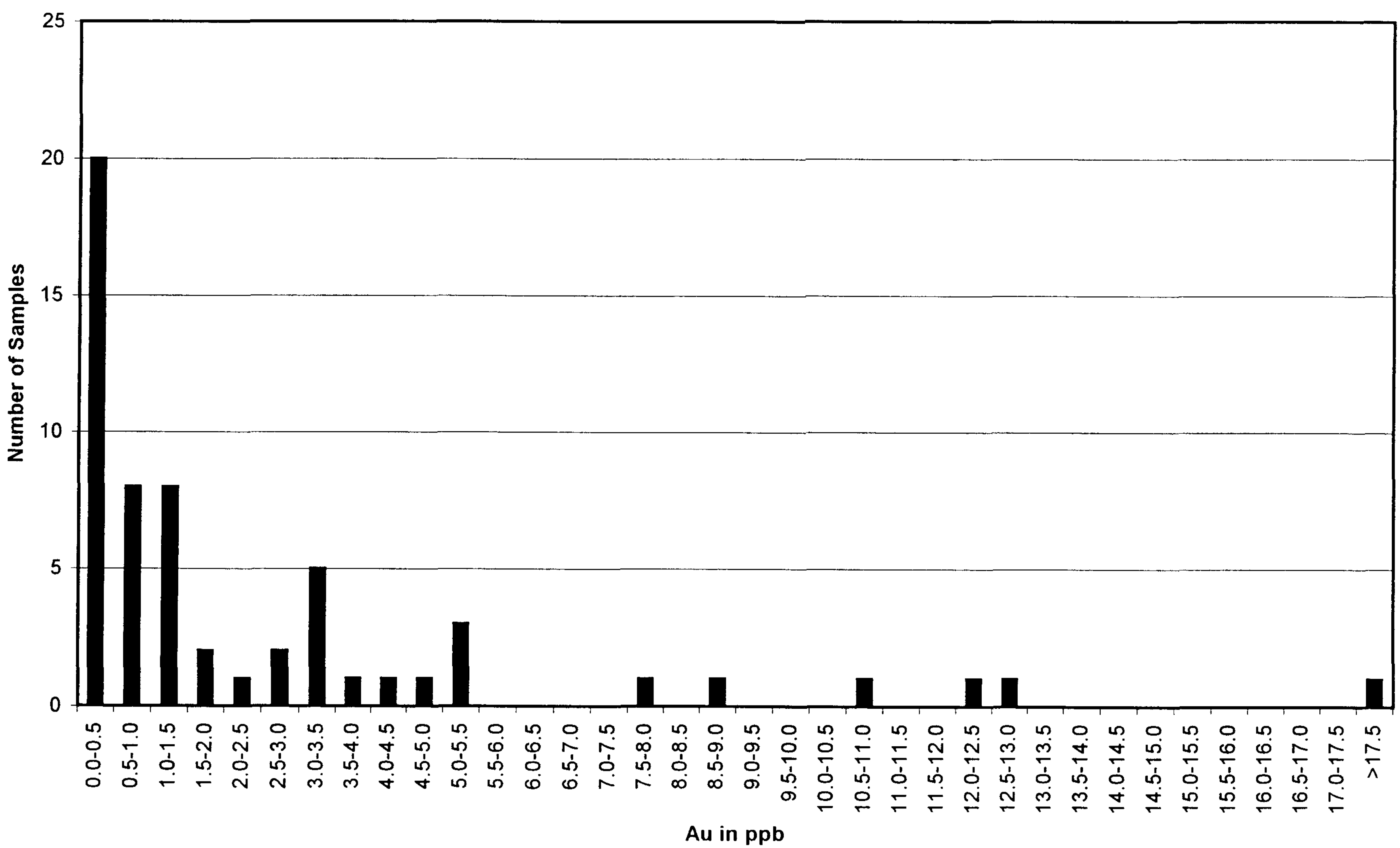
Ni in Pan Cons - Butter Claims



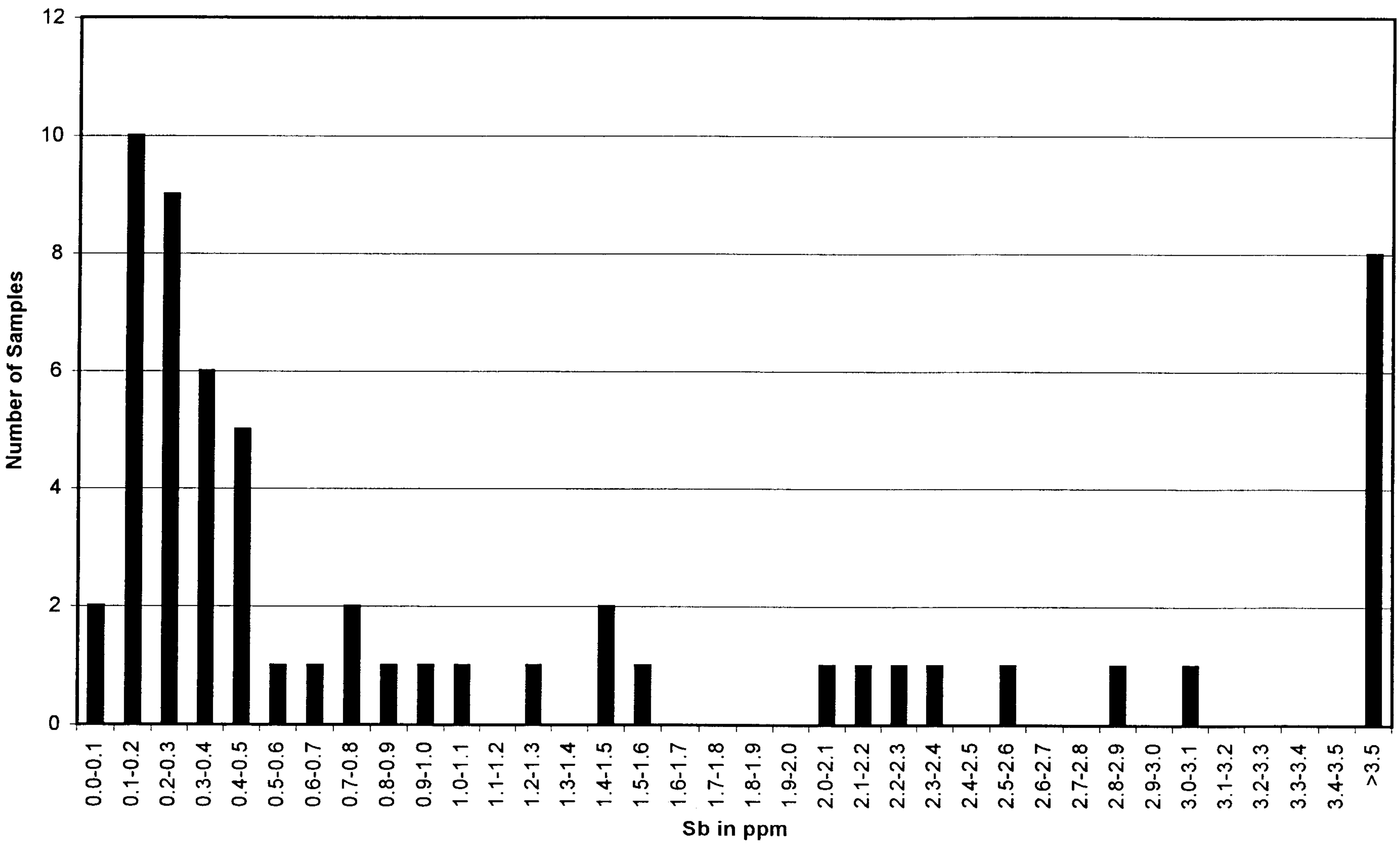

Co in Pan Cons - Butter Claims
Number of Samples
0
2
4
6
8
10
12
0-1
1-2
2-3
3-4
4-5
5-6
6-7
7-8
8-9
9-10
10-11
11-12
12-13
13-14
14-15
15-16
16-17
17-18
18-19
19-20
20-21
21-22
22-23
23-24
24-25
25-26
26-27
27-28
28-29
29-30
30-31
31-32
32-33
33-34
34-35
>35
Co in ppm

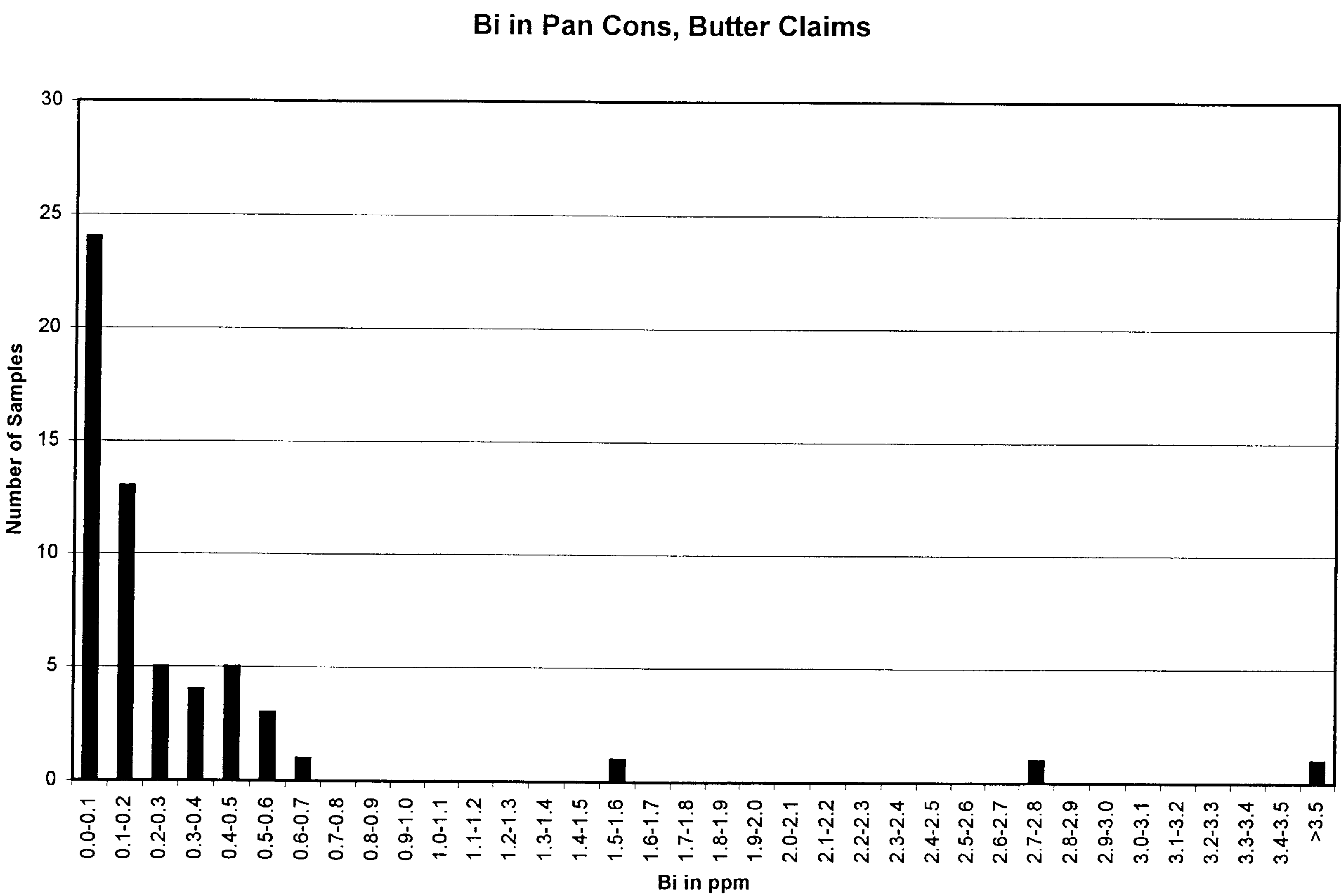

As in Pan Cons - Butter Claims
Number of Samples
35
30
25
20
15
10
5
0
0-3
3-6
6-9
9-12
12-15
15-18
18-21
21-24
24-27
27-30
30-33
33-36
36-39
39-42
42-45
45-48
48-51
51-54
54-57
57-60
60-63
63-66
66-69
69-72
72-75
75-78
78-81
81-84
84-87
87-90
90-93
93-96
96-99
99-102
102-105
>105
As in ppm

Au in Pan Cons - Butter Claims

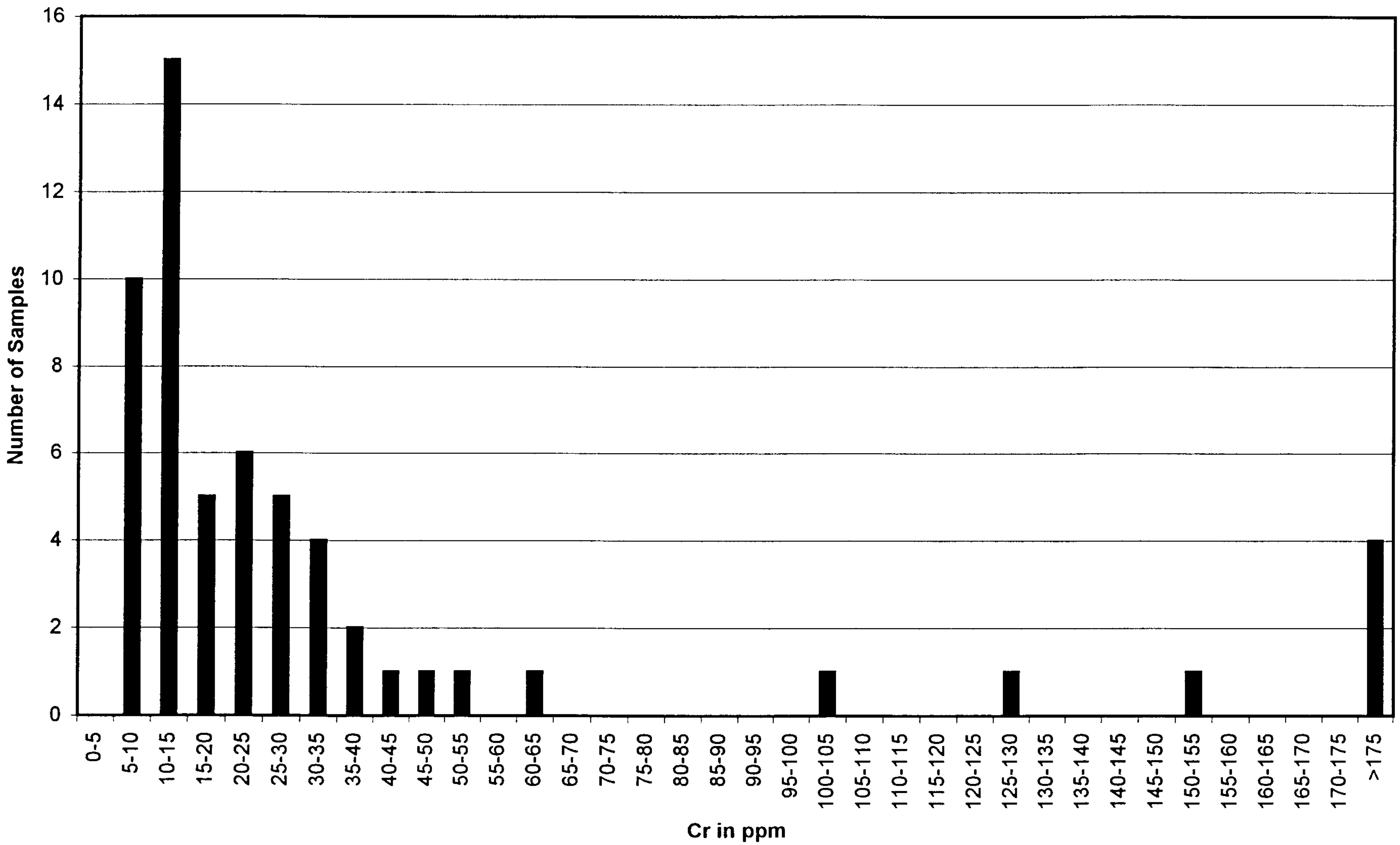


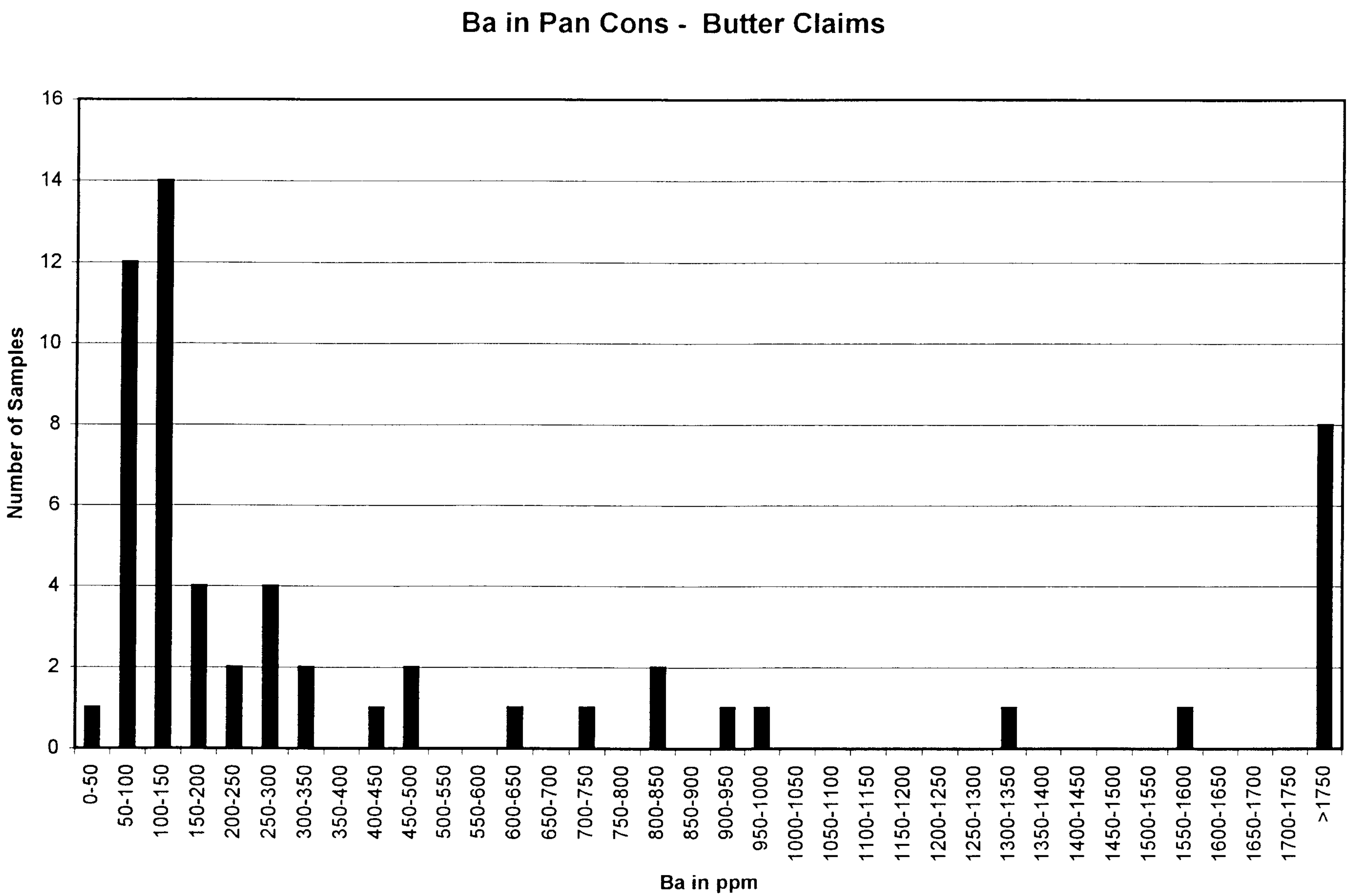
Sb in Pan Cons - Butter Claims




Bi in Pan Cons, Butter Claims
Number of Samples
30
25
20
15
10
5
0
0.0-0.1
0.1-0.2
0.2-0.3
0.3-0.4
0.4-0.5
0.5-0.6
0.6-0.7
0.7-0.8
0.8-0.9
0.9-1.0
1.0-1.1
1.1-1.2
1.2-1.3
1.3-1.4
1.4-1.5
1.5-1.6
1.6-1.7
1.7-1.8
1.8-1.9
1.9-2.0
2.0-2.1
2.1-2.2
2.2-2.3
2.3-2.4
2.4-2.5
2.5-2.6
2.6-2.7
2.7-2.8
2.8-2.9
2.9-3.0
3.0-3.1
3.1-3.2
3.2-3.3
3.3-3.4
3.4-3.5
>3.5
Bi in ppm

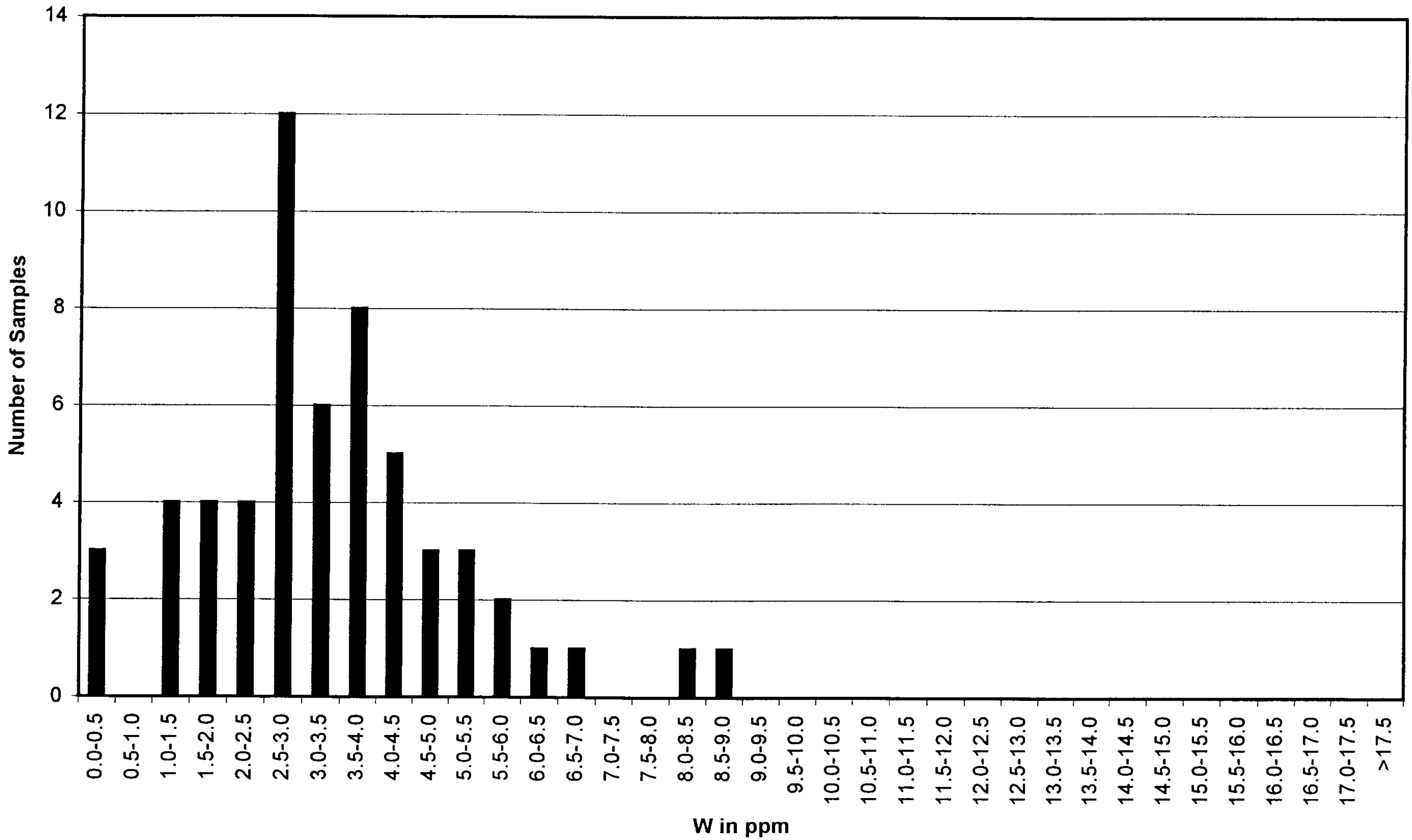
Cr in Pan Cons - Butter Claims



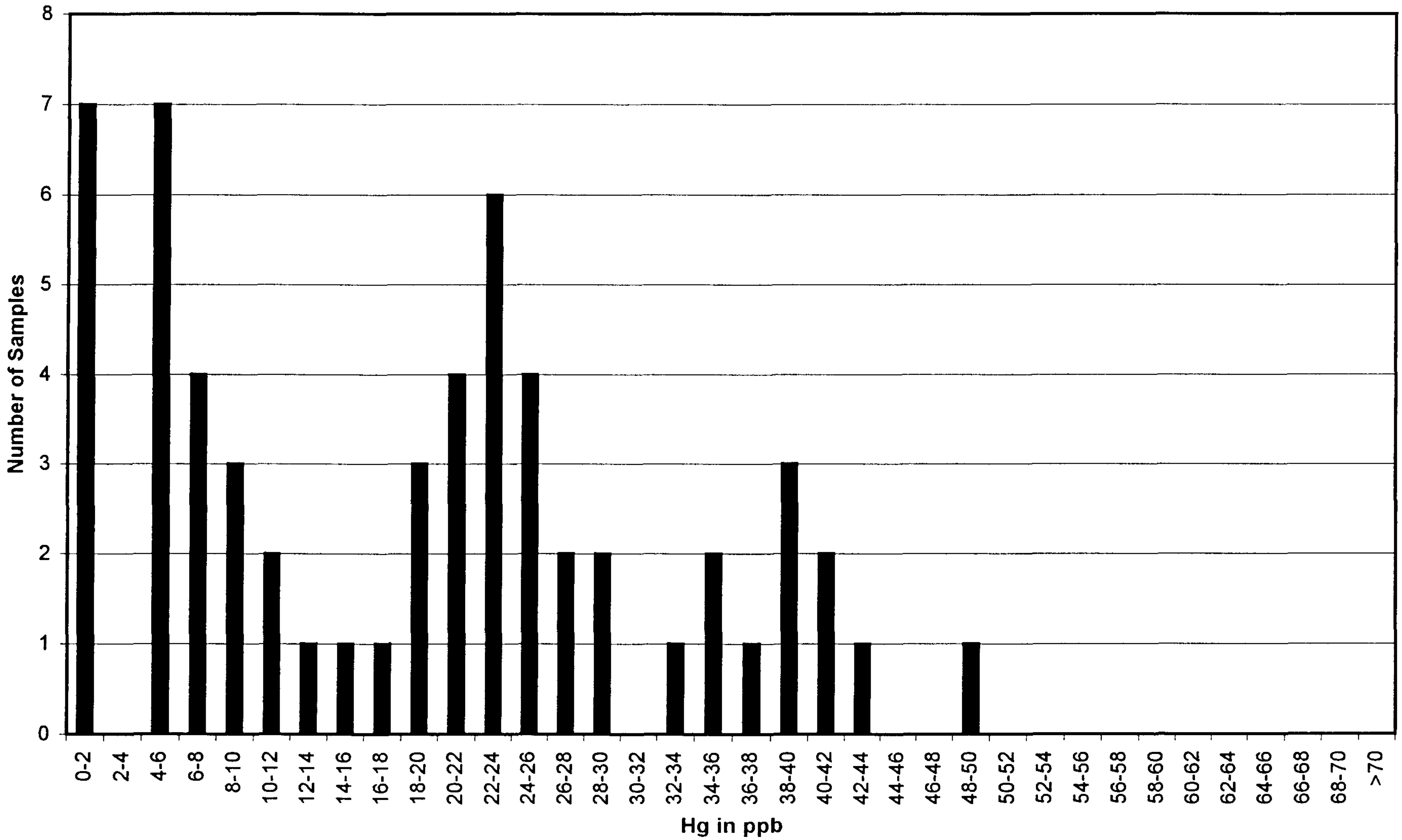


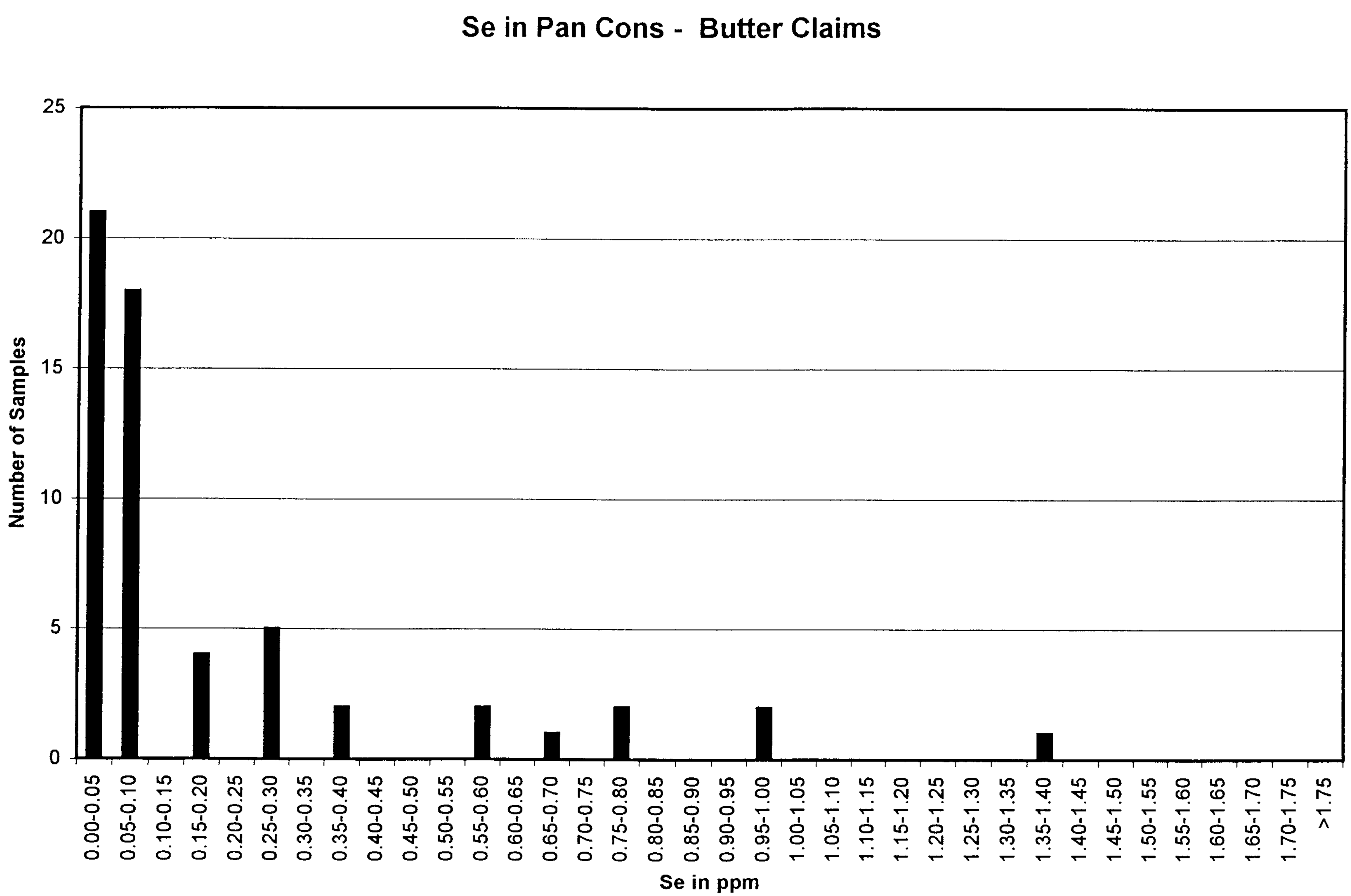
Ba in Pan Cons - Butter Claims
Number of Samples
0
2
4
6
8
10
12
14
16
0-50
50-100
100-150
150-200
200-250
250-300
300-350
350-400
400-450
450-500
500-550
550-600
600-650
650-700
700-750
750-800
800-850
850-900
900-950
950-1000
1000-1050
1050-1100
1100-1150
1150-1200
1200-1250
1250-1300
1300-1350
1350-1400
1400-1450
1450-1500
1500-1550
1550-1600
1600-1650
1650-1700
1700-1750
>1750
Ba in ppm

W in Pan Cons - Butter Claims

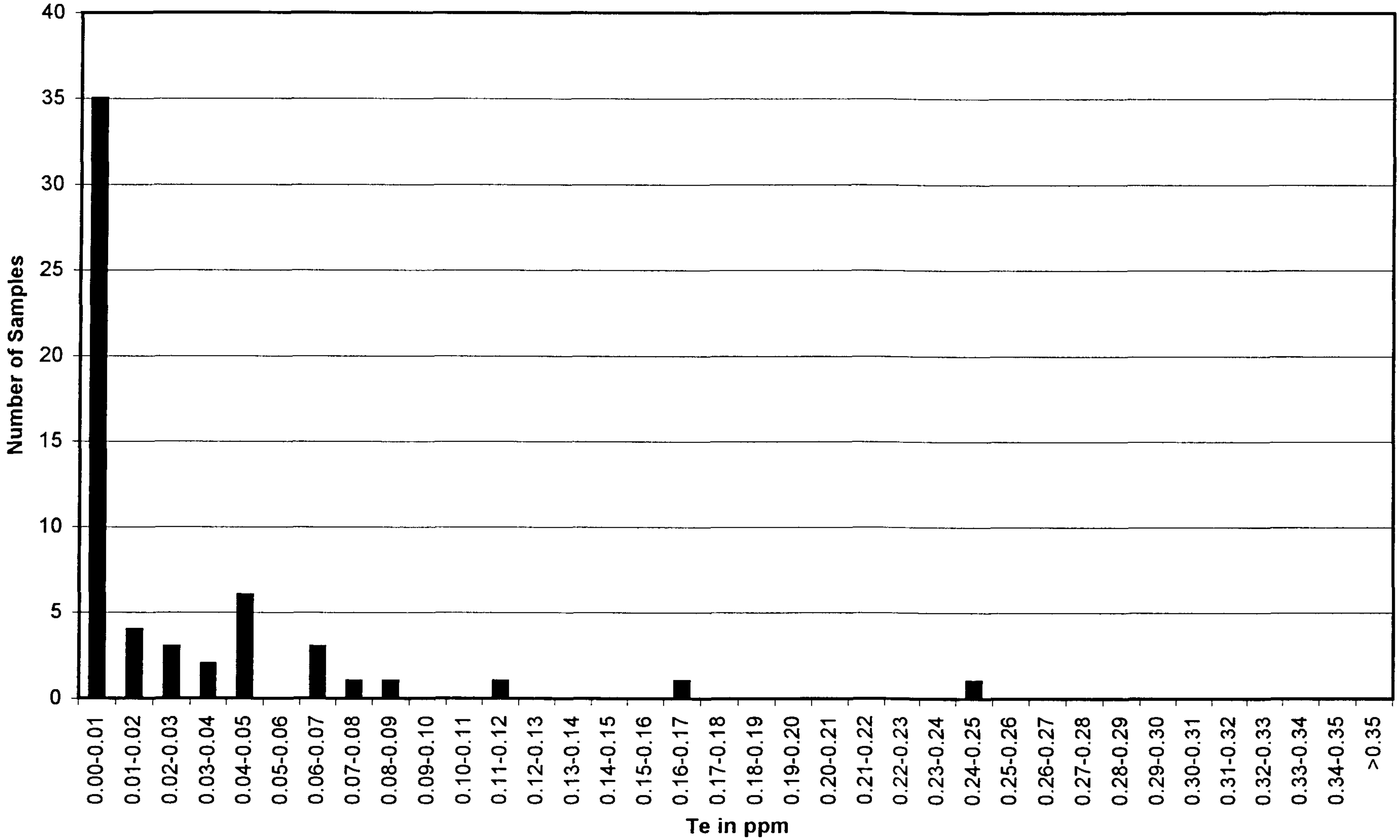


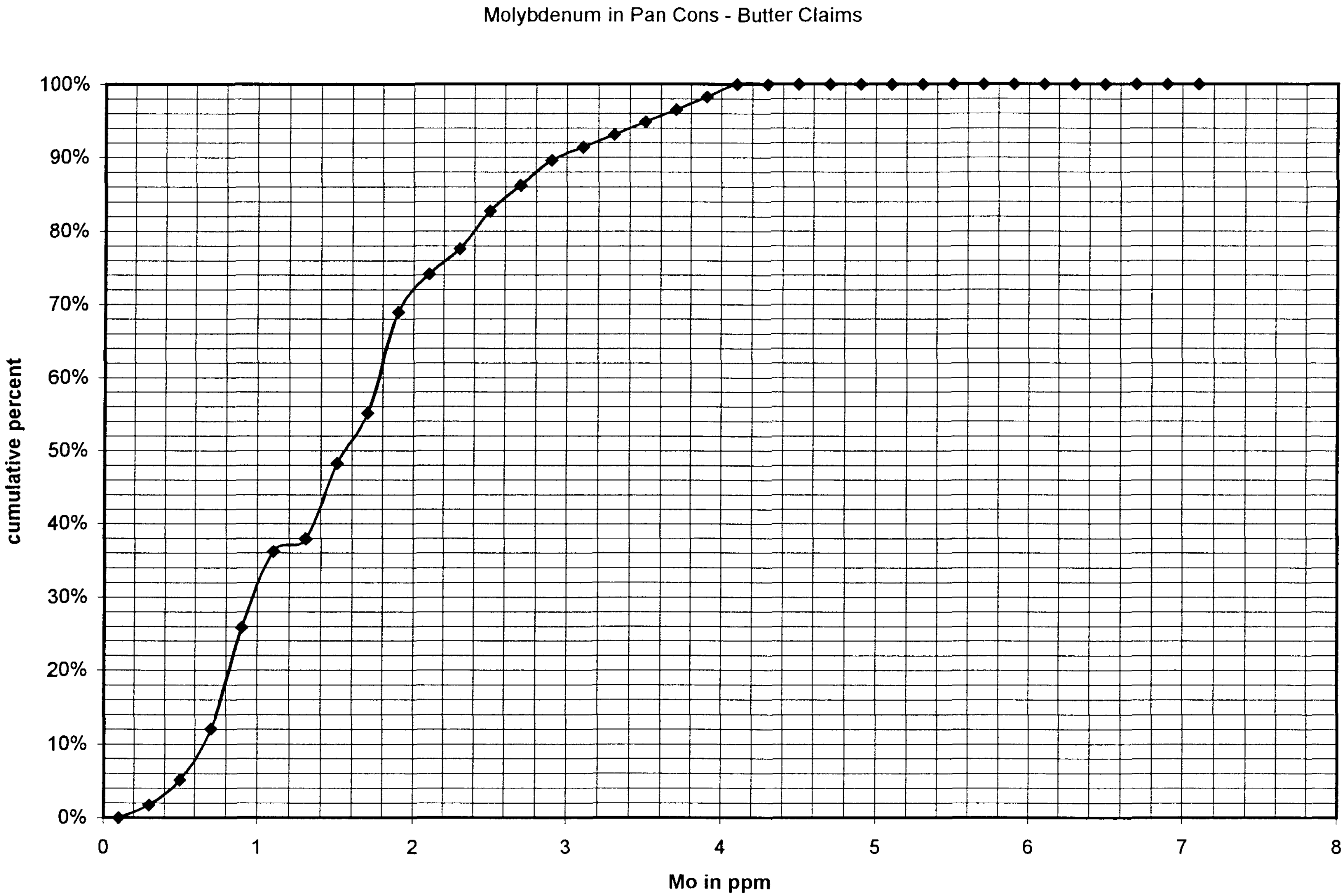
Hg in Pan Cons - Butter Claims



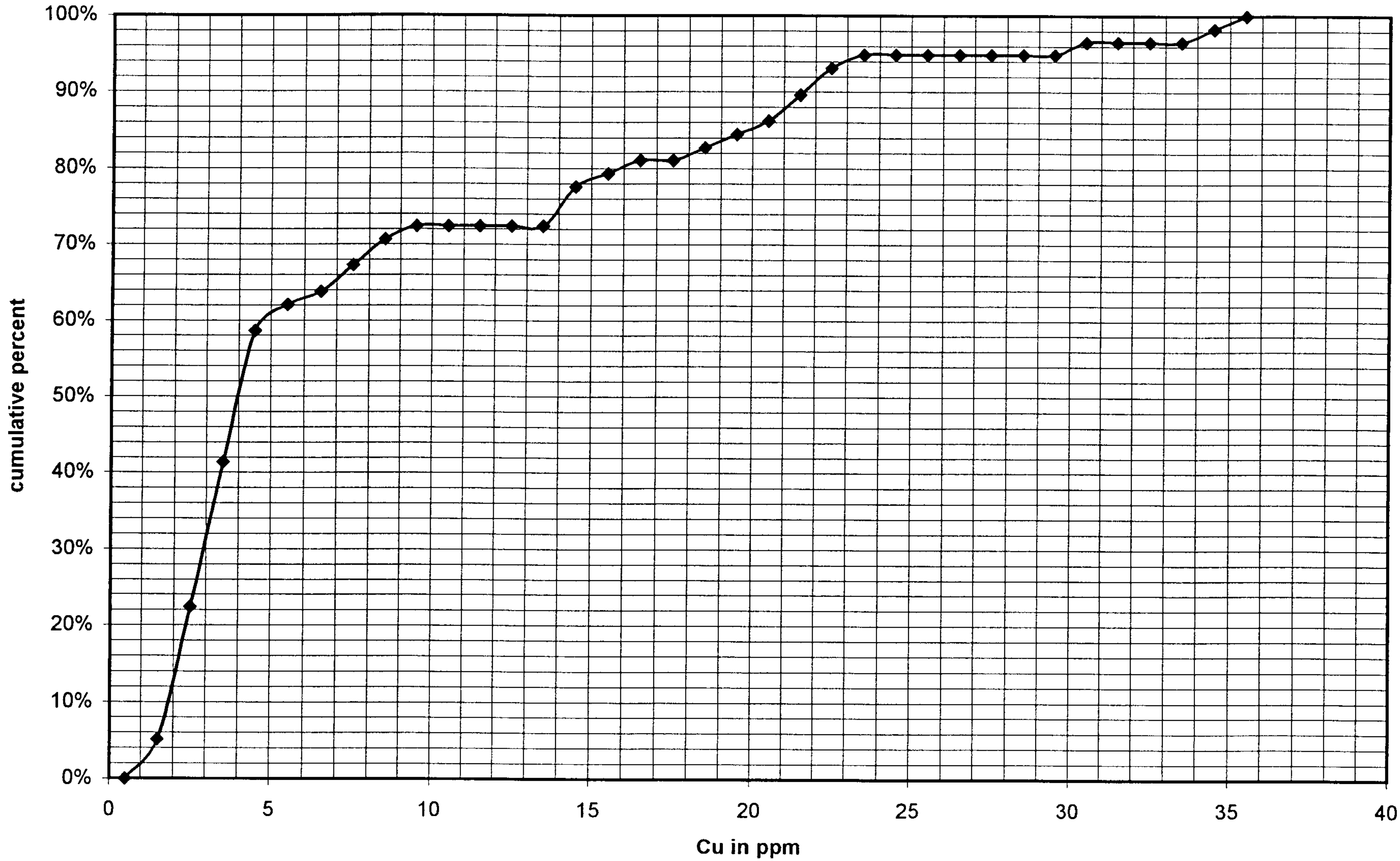

Se in Pan Cons - Butter Claims
Number of Samples
0
5
10
15
20
25
0.00-0.05
0.05-0.10
0.10-0.15
0.15-0.20
0.20-0.25
0.25-0.30
0.30-0.35
0.35-0.40
0.40-0.45
0.45-0.50
0.50-0.55
0.55-0.60
0.60-0.65
0.65-0.70
0.70-0.75
0.75-0.80
0.80-0.85
0.85-0.90
0.90-0.95
0.95-1.00
1.00-1.05
1.05-1.10
1.10-1.15
1.15-1.20
1.20-1.25
1.25-1.30
1.30-1.35
1.35-1.40
1.40-1.45
1.45-1.50
1.50-1.55
1.55-1.60
1.60-1.65
1.65-1.70
1.70-1.75
>1.75
Se in ppm

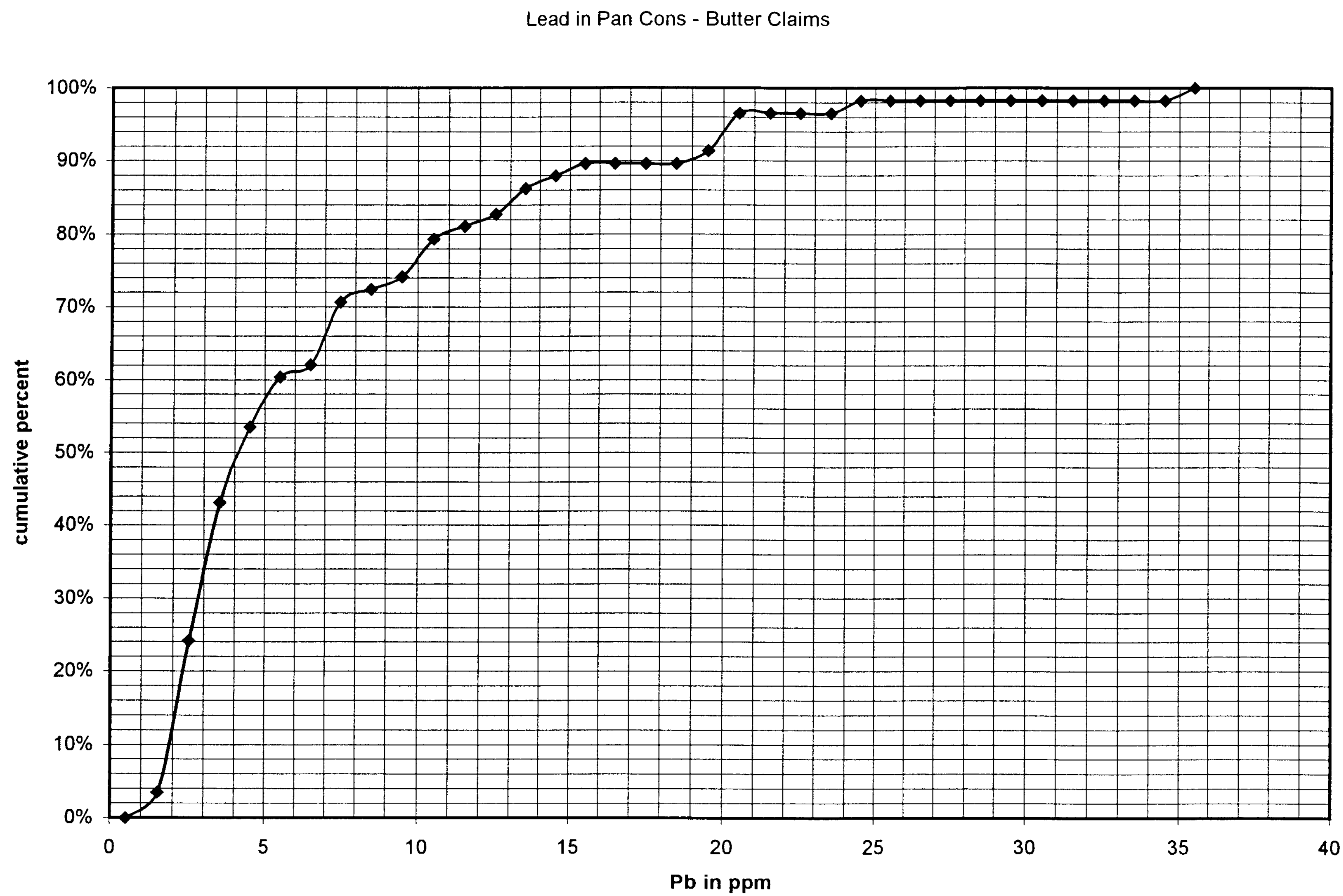
Te in Pan Cons - Butter Claims



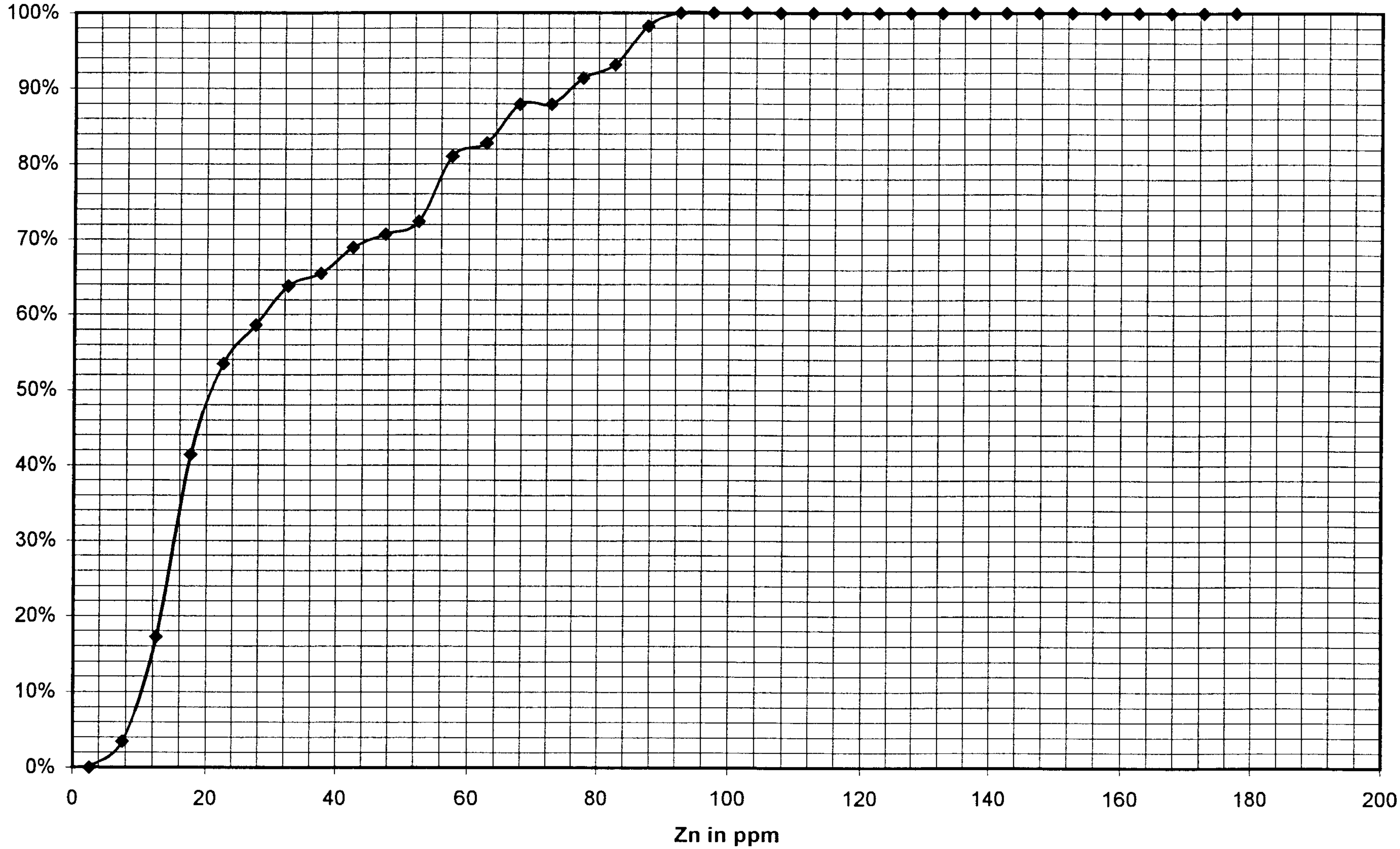

Molybdenum in Pan Cons - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
1
2
3
4
5
6
7
8
Mo in ppm

Copper in Pan Cons - Butter Claims

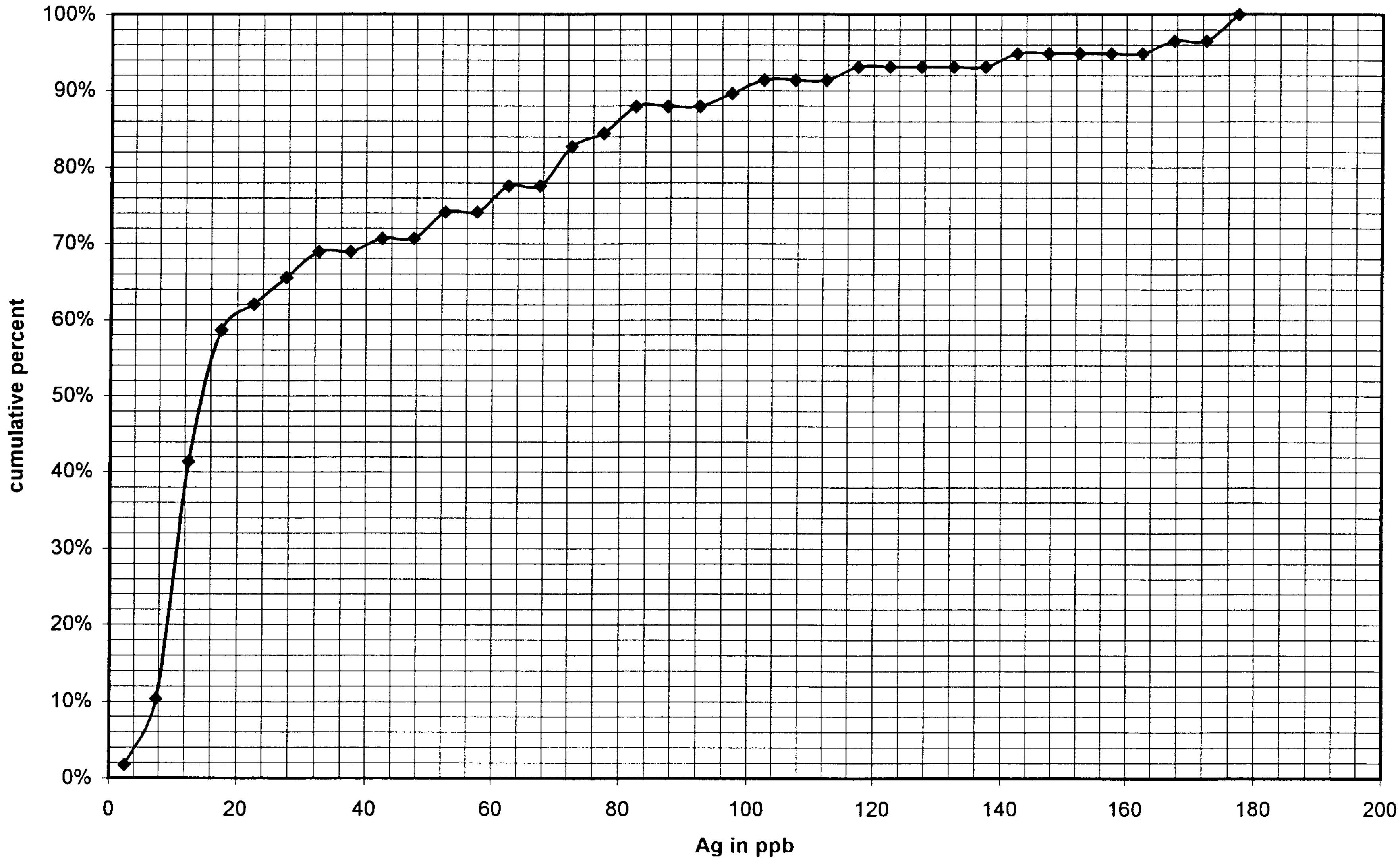


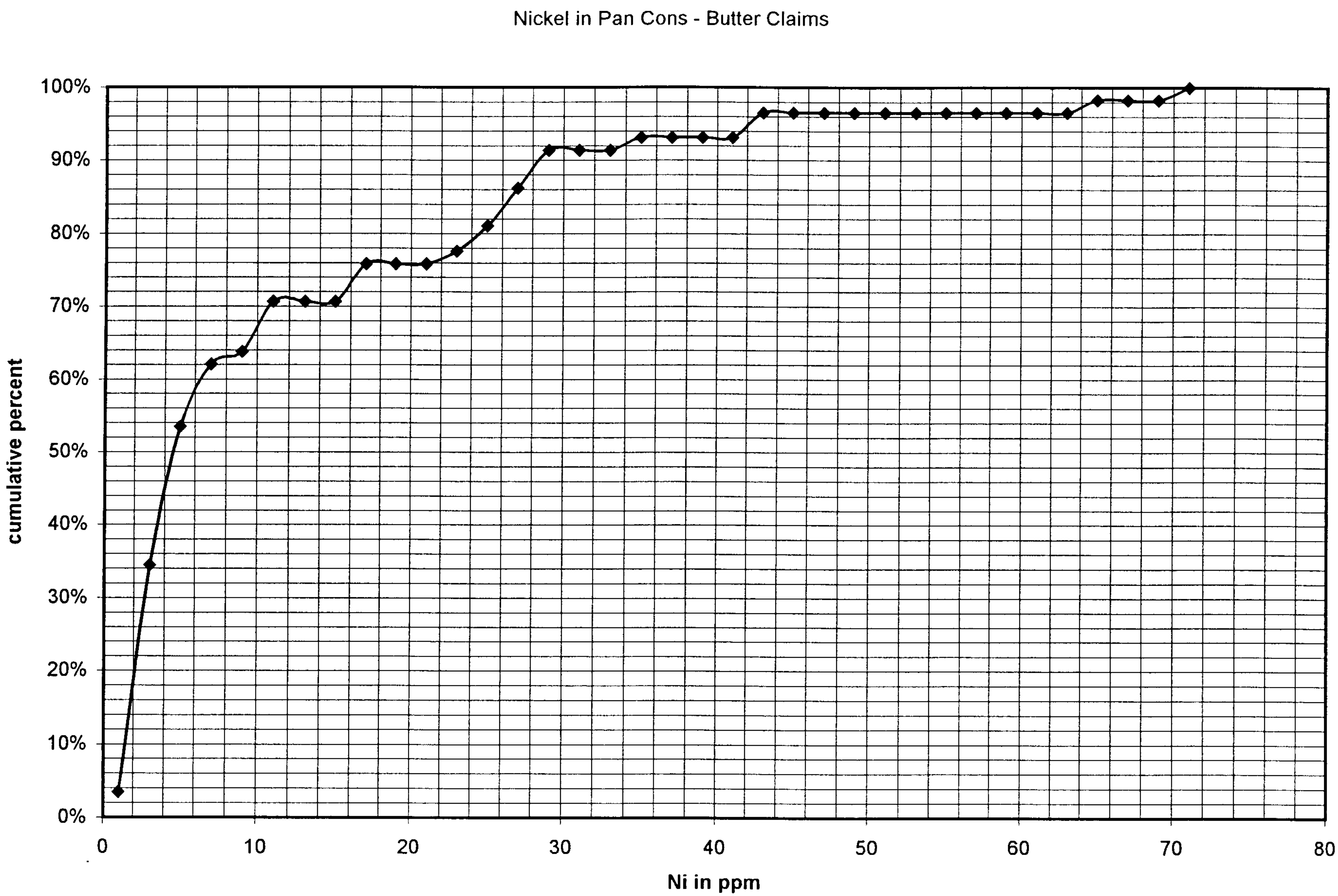

Lead in Pan Cons - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
5
10
15
20
25
30
35
40
Pb in ppm

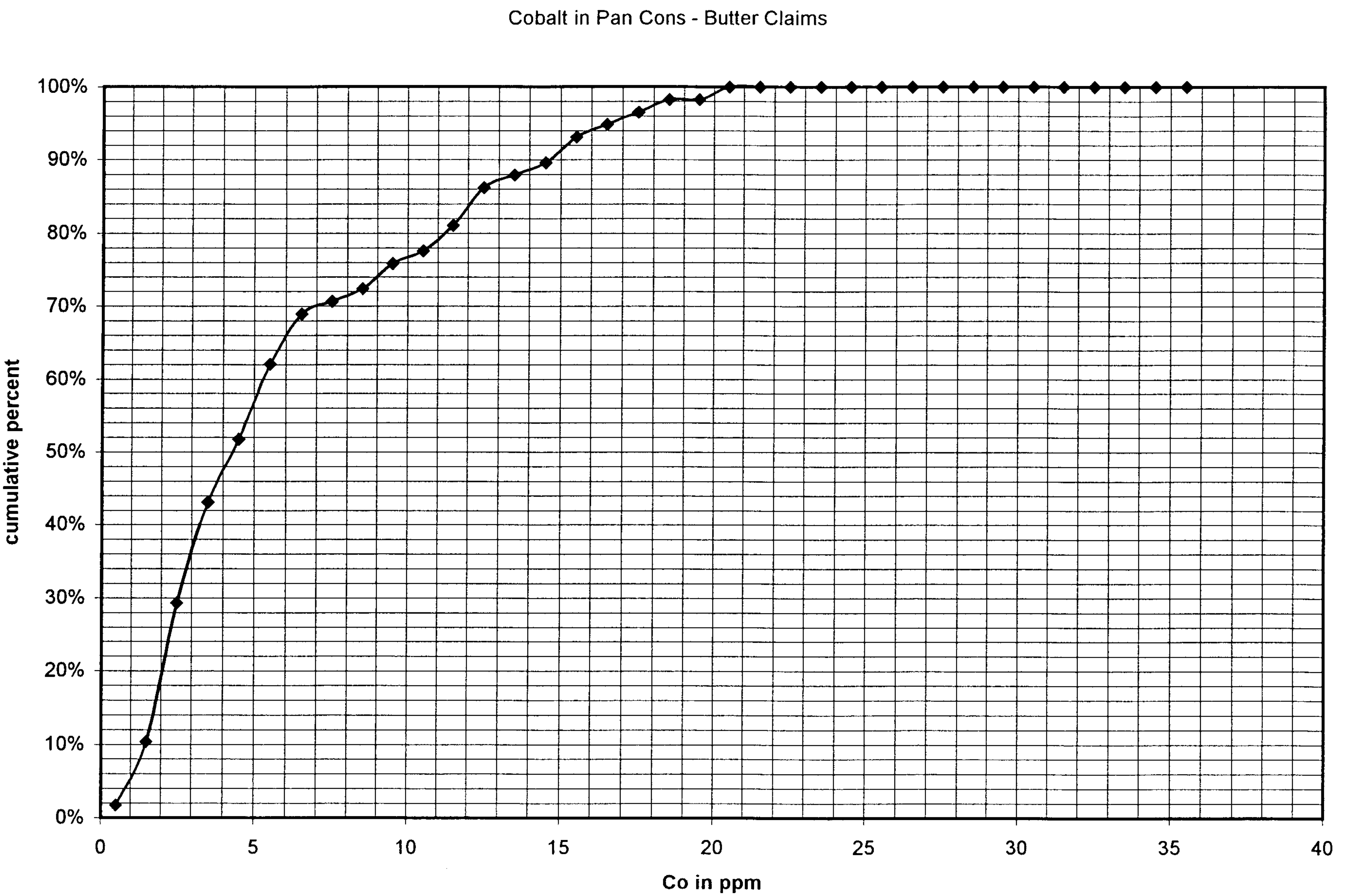
Zinc in Pan Cons - Butter Claims

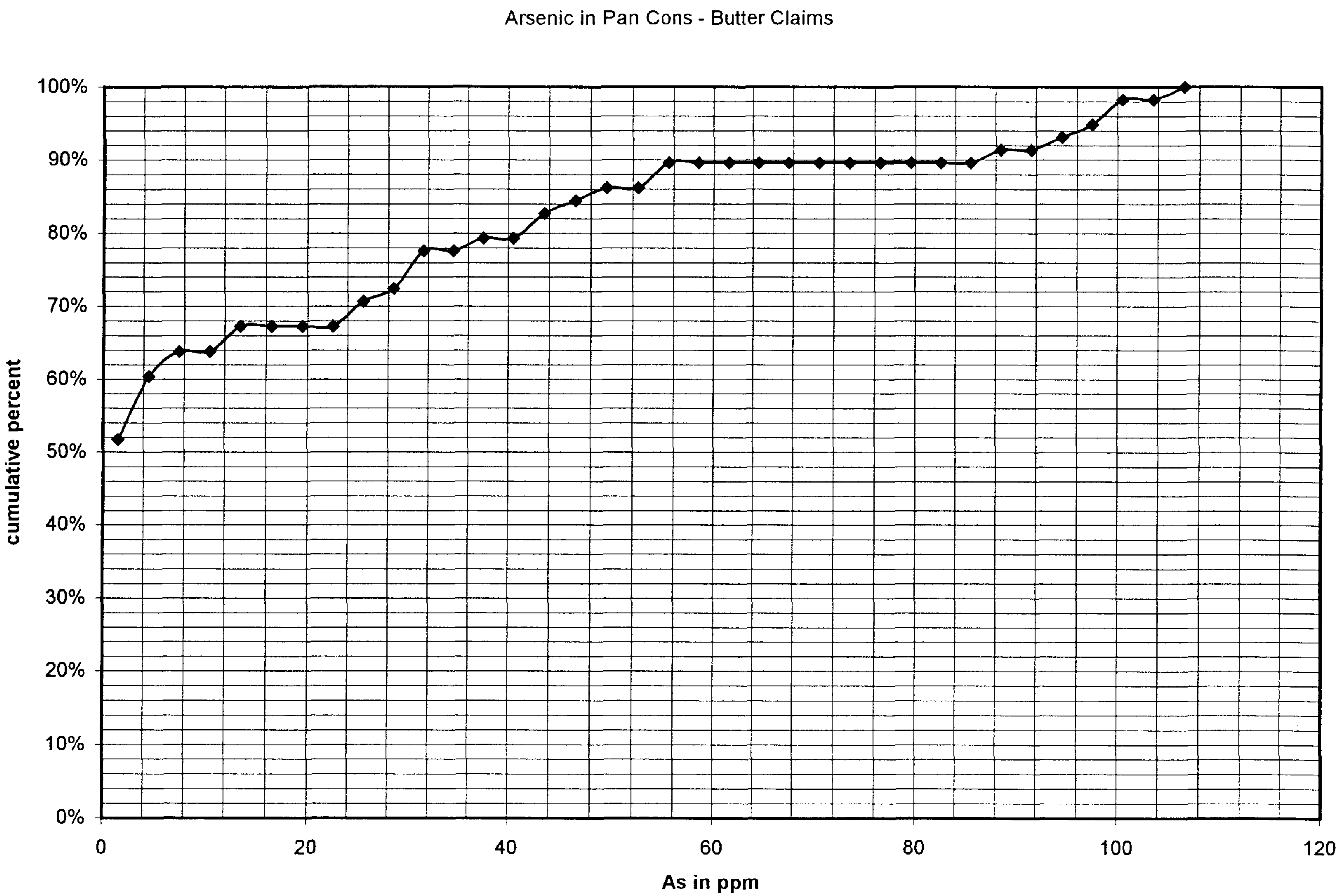


Silver in Pan Cons - Butter Claims

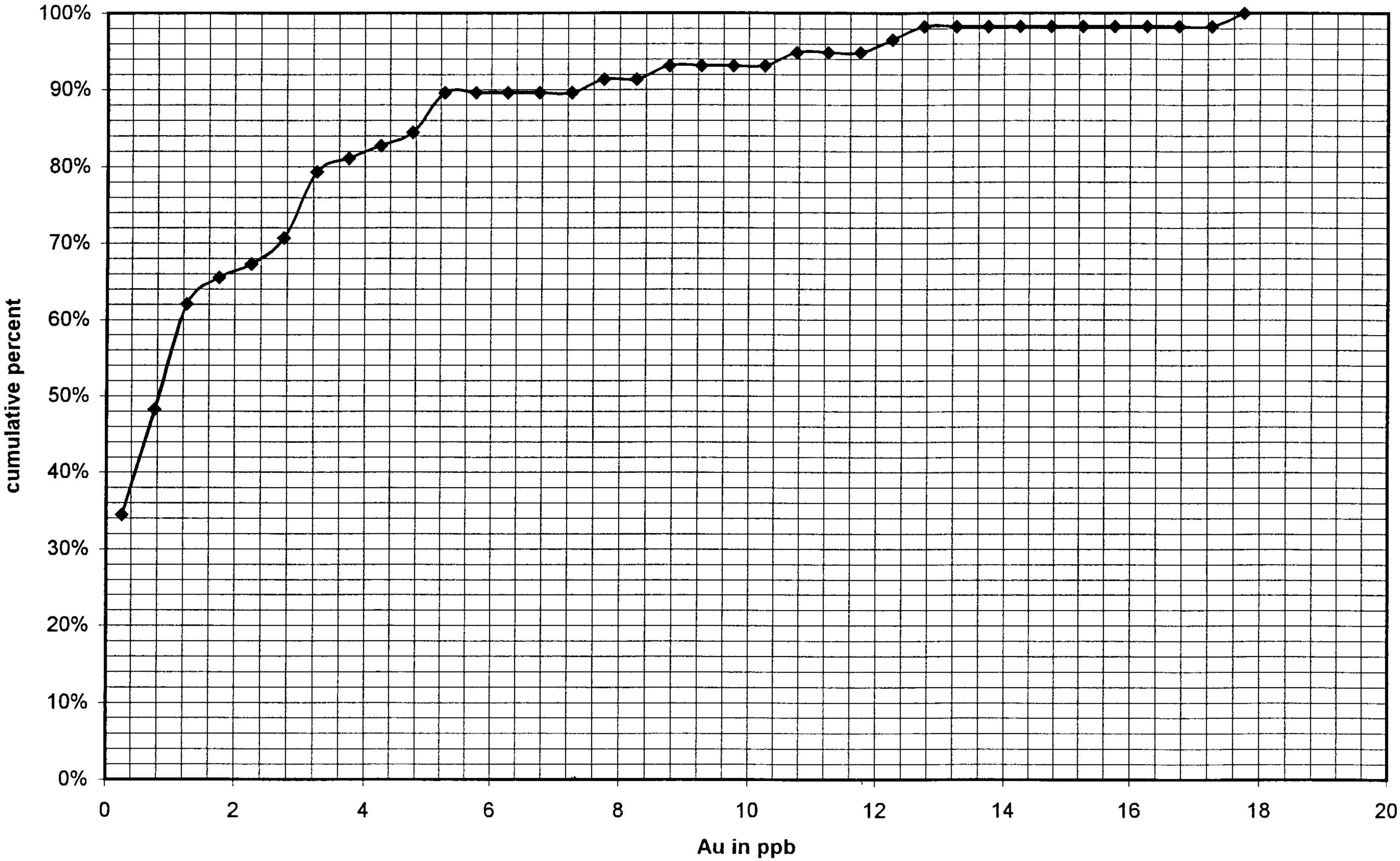



Nickel in Pan Cons - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
10
20
30
40
50
60
70
80
Ni in ppm

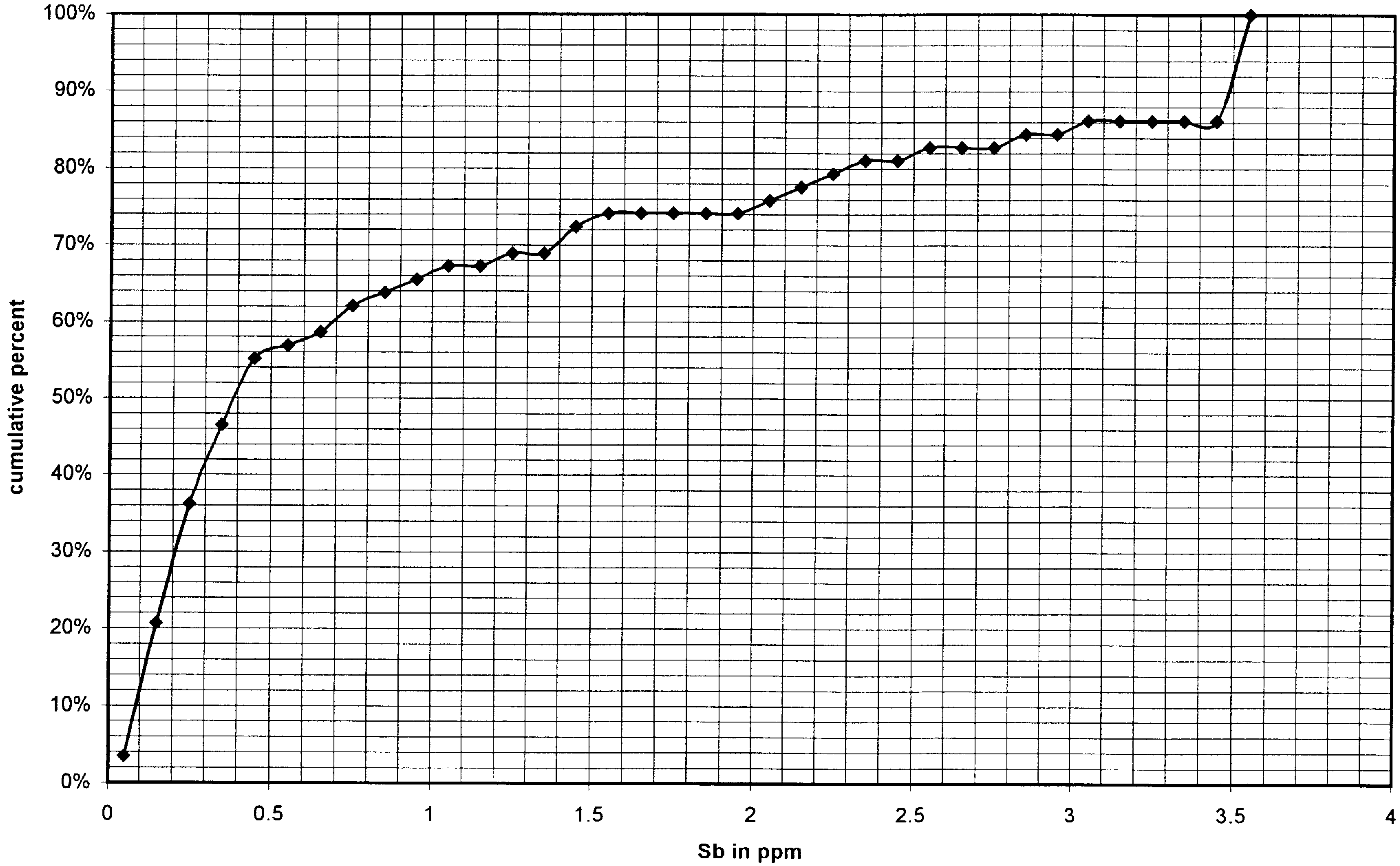

Cobalt in Pan Cons - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
5
10
15
20
25
30
35
40
Co in ppm


Arsenic in Pan Cons - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
20
40
60
80
100
120
As in ppm

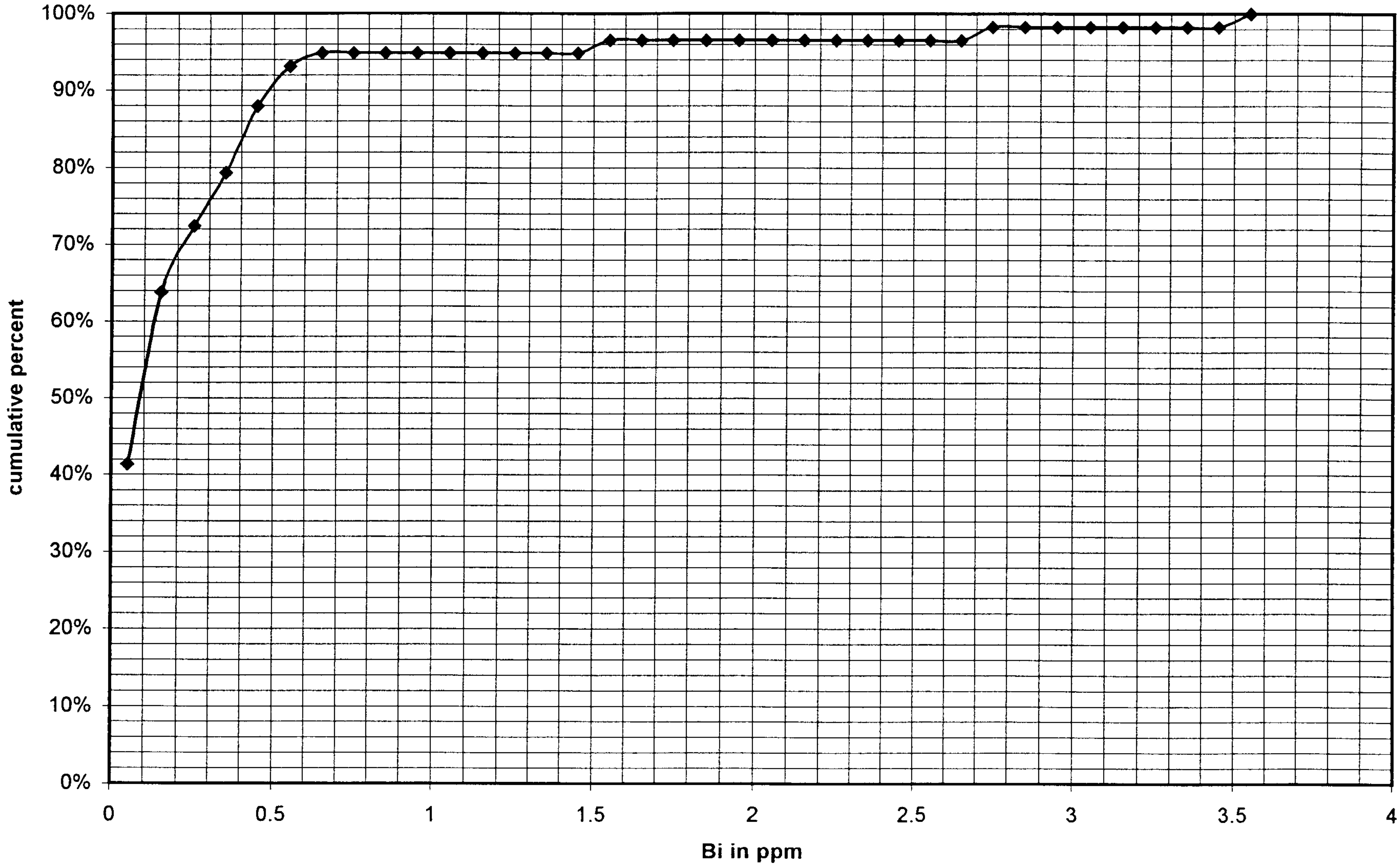
Gold in Pan Cons - Butter Claims



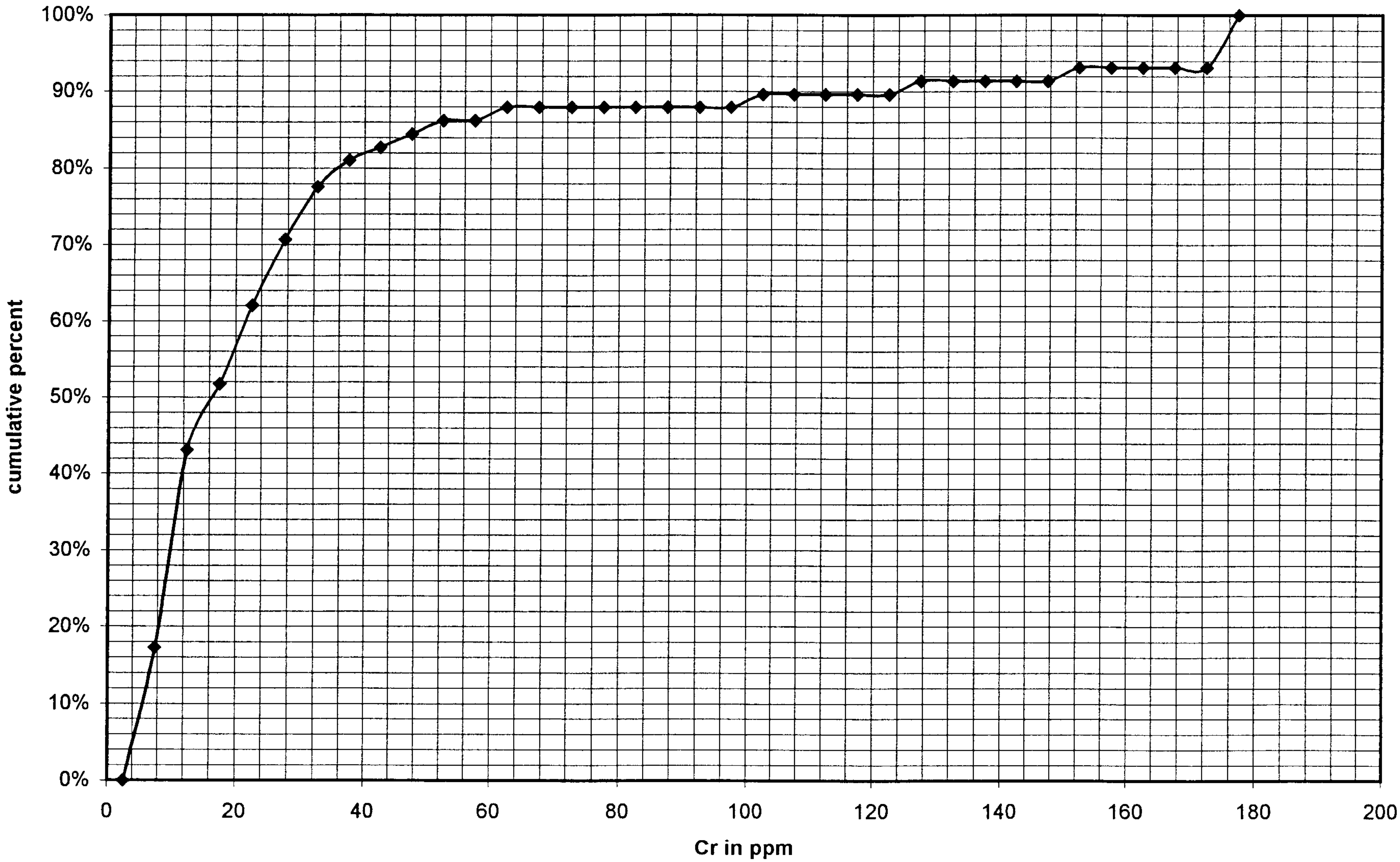
Antimony in Pan Cons - Butter Claims



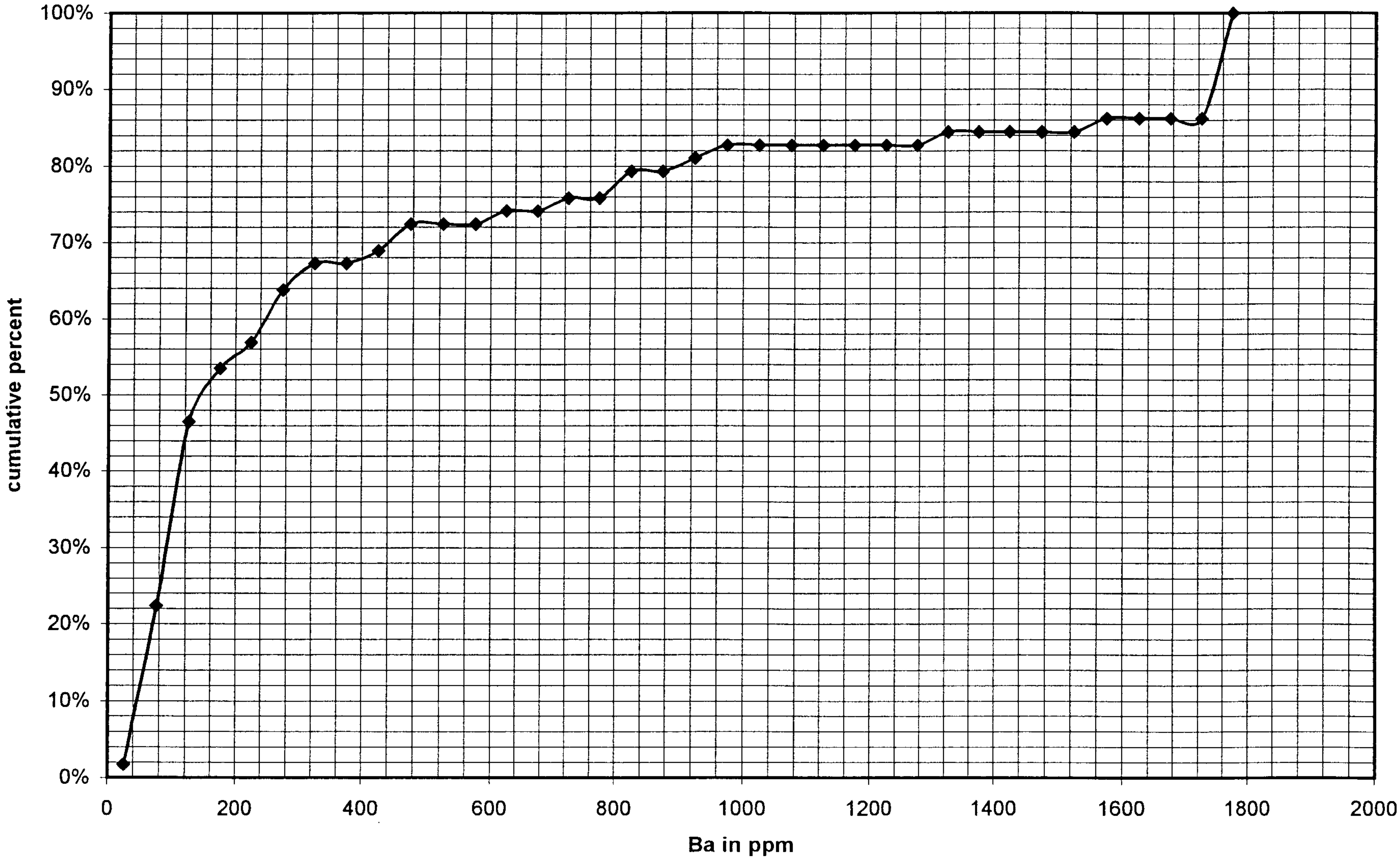
Bismuth in Pan Cons - Butter Claims

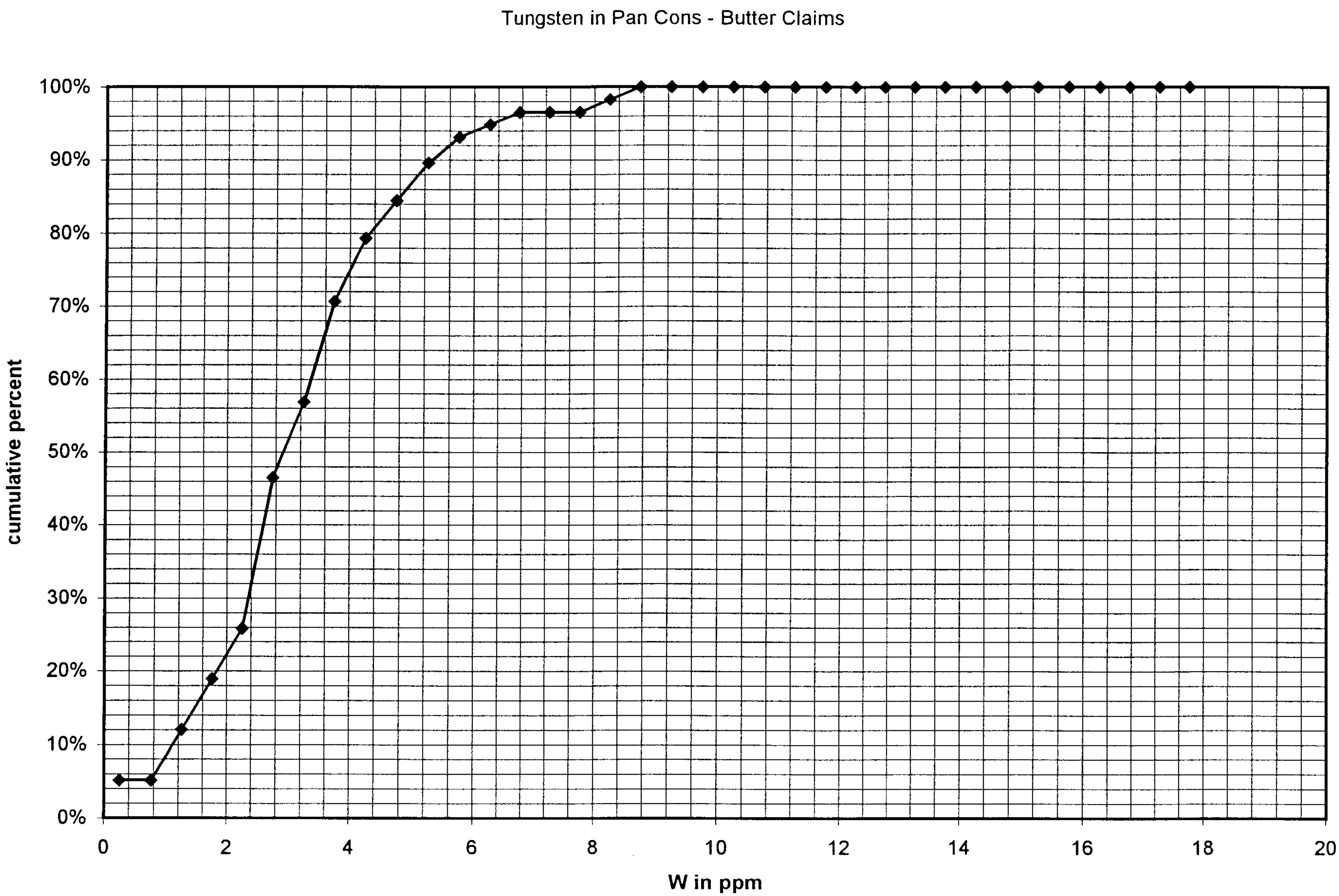


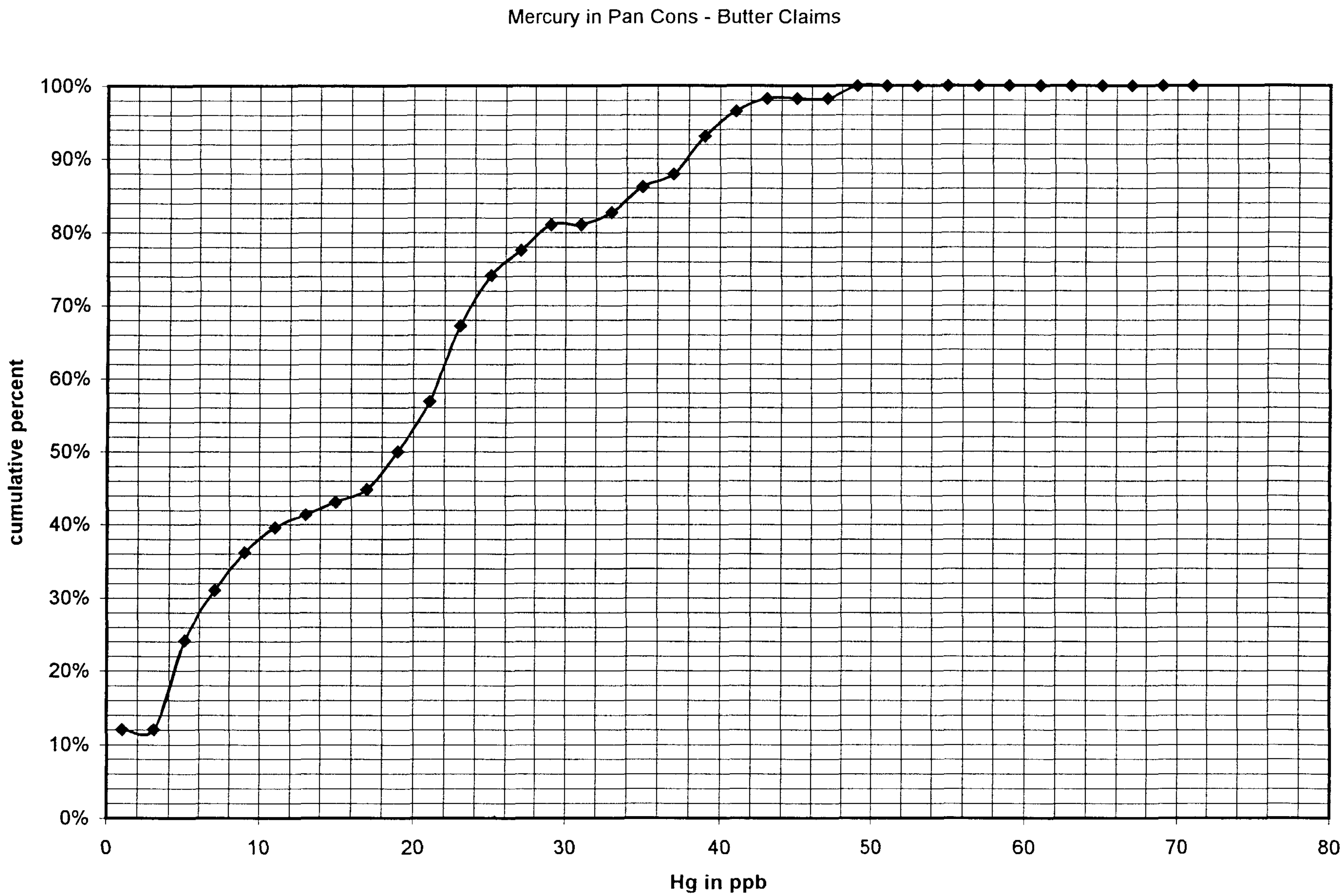
Chromium in Pan Cons - Butter Claims



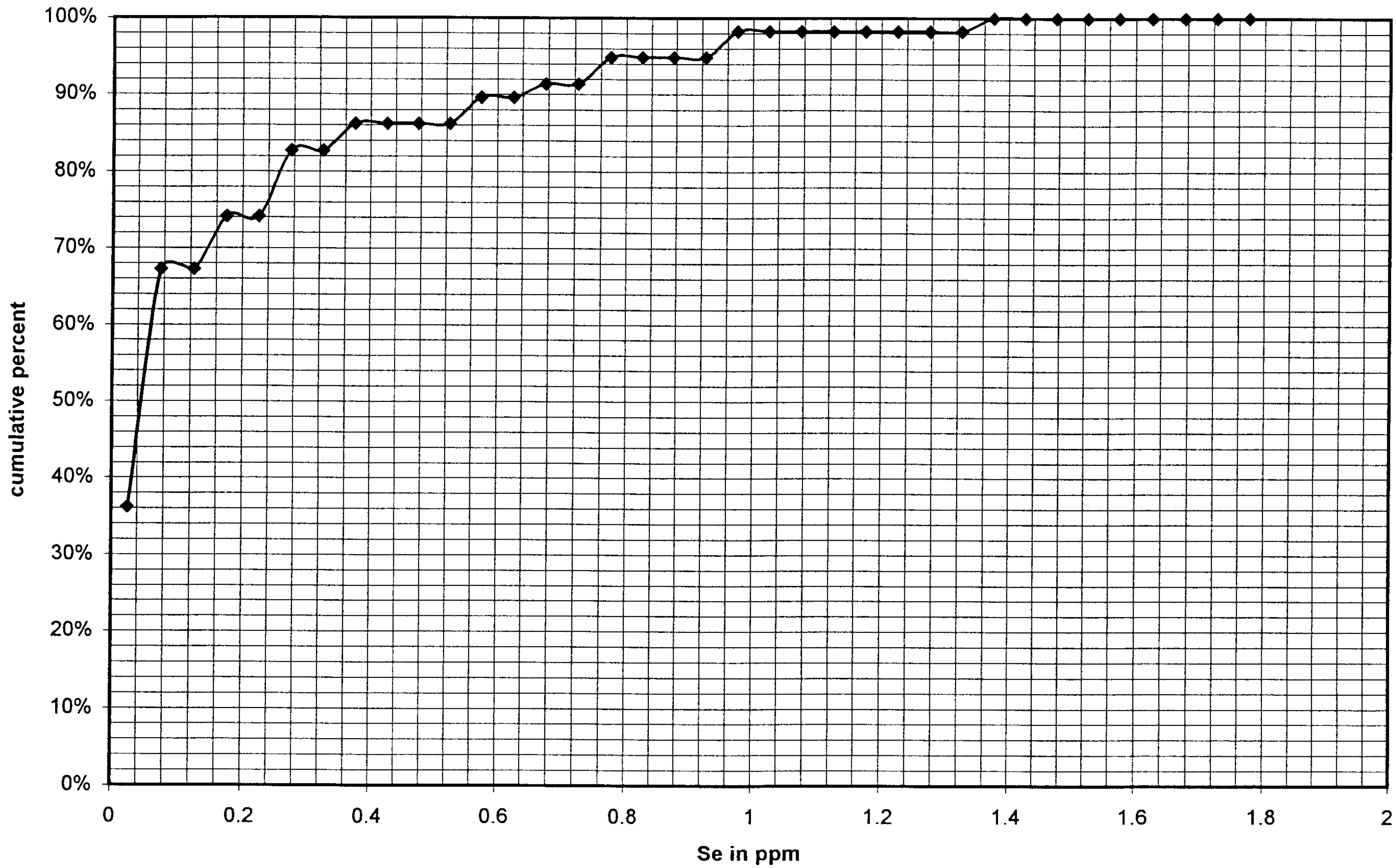
Barium in Pan Cons - Butter Claims



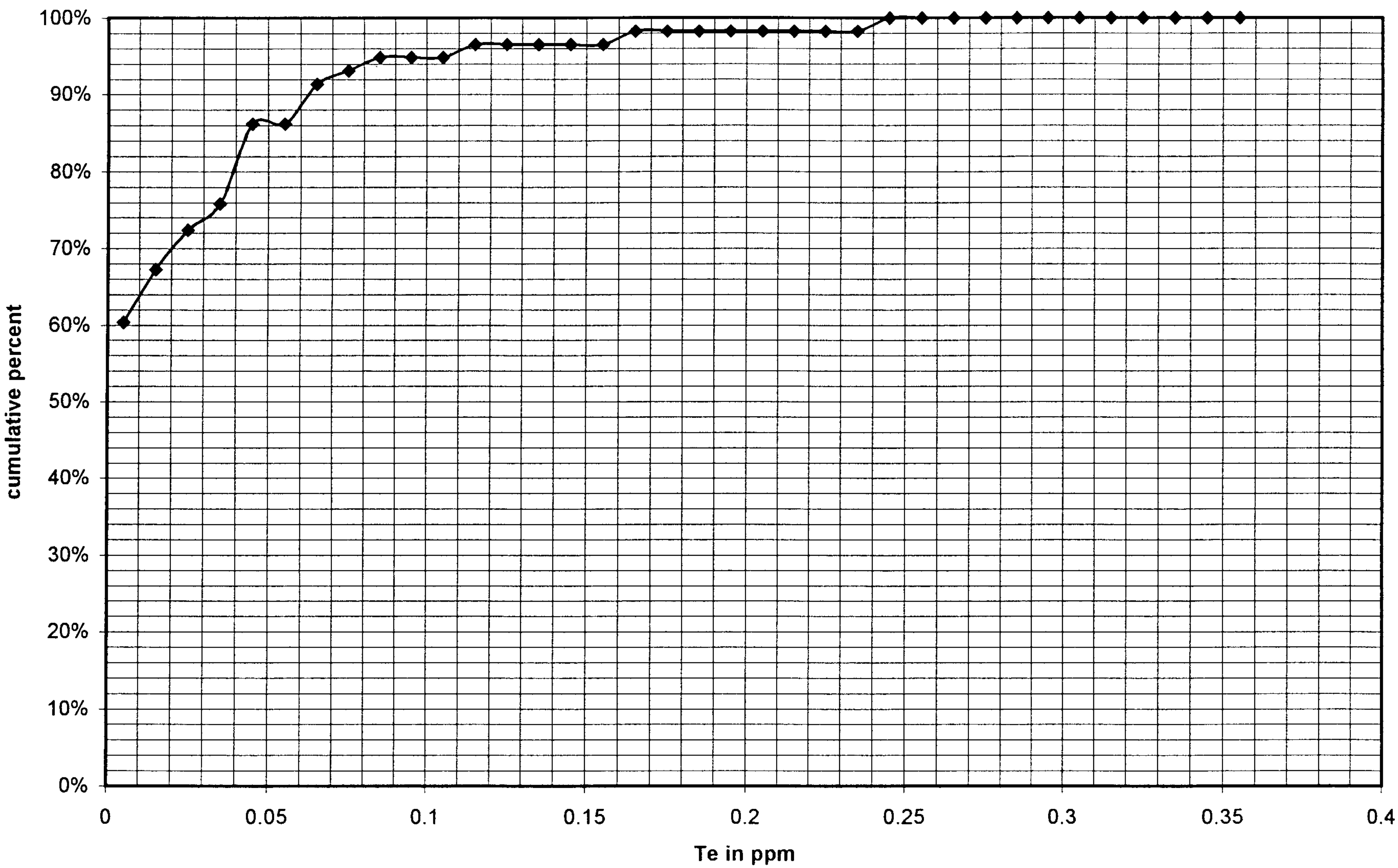

Tungsten in Pan Cons - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
2
4
6
8
10
12
14
16
18
20
W in ppm


Mercury in Pan Cons - Butter Claims
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
cumulative percent
0
10
20
30
40
50
60
70
80
Hg in ppb

Selenium in Pan Cons - Butter Claims



Tellurium in Pan Cons - Butter Claims



Appendix C

Certified Geochemical Results

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902750

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
1023	1.08	25.86	8.97	106.3	105	26.5	10.9	561	2.51	18.4	1.6	1.4	8.7	38.0	.34	1.40	.19	61	.49	.073	21.2	31.0	.64	331.9	.068	1	1.22	.014	.15	.2	.13	50	.6	.04	4.6	.06
1039	1.21	13.84	9.50	77.3	266	14.3	13.1	1173	3.32	4.6	2.2	2.2	20.0	15.9	.15	.42	.17	84	.28	.059	17.8	59.7	.81	165.6	.167	1	1.70	.019	.22	3.8	.28	37	.1	<.02	6.6	.01
1040	1.09	13.78	17.33	79.9	457	12.5	6.9	1581	2.54	5.0	2.3	1.9	23.8	18.1	.44	.48	.18	52	.34	.038	30.3	48.1	.54	1223.1	.048	1	1.76	.015	.16	3.6	.24	79	<.1	<.02	6.8	.01
1041	1.09	22.97	11.91	68.4	190	24.4	13.5	687	3.35	10.5	1.4	2.2	12.1	23.3	.17	.67	.22	81	.26	.044	19.1	56.5	.74	277.9	.107	1	2.62	.021	.09	1.1	.13	54	.2	.02	6.8	.01
1042	1.17	21.73	10.91	68.6	138	22.9	12.0	775	3.21	8.1	1.9	1.5	8.8	23.0	.13	.58	.19	82	.27	.033	16.3	57.8	.70	223.0	.121	1	2.20	.016	.11	1.4	.17	53	.3	.02	7.0	<.01
1043	1.62	15.81	22.60	80.4	241	9.5	12.3	1269	3.18	3.6	3.9	.6	19.0	15.7	.08	1.05	2.23	62	.31	.043	35.9	22.5	.37	212.7	.050	<1	1.22	.012	.15	2.1	.19	87	<.1	.02	4.8	<.01
1044	.50	9.65	17.31	96.7	245	13.8	16.4	1131	4.05	4.6	3.1	.3	26.9	19.8	.09	20.82	.41	66	.43	.067	29.8	25.1	.56	242.0	.032	1	1.88	.023	.21	4.7	.24	63	<.1	.02	6.4	<.01
1045	.49	16.16	10.77	129.3	253	5.7	16.9	1665	5.80	4.1	3.1	.8	31.8	15.9	.09	.29	.18	154	.60	.135	29.9	24.4	1.52	358.0	.352	<1	2.80	.036	1.28	2.6	.82	47	<.1	<.02	13.7	<.01
3051	4.40	112.66	25.90	276.4	409	67.6	24.6	1660	4.81	279.7	2.3	5.2	6.2	37.3	1.41	12.84	.40	75	.66	.109	11.7	31.2	.69	436.4	.024	2	1.39	.014	.12	.6	.25	61	2.0	.17	3.9	.07
3080	3.51	27.99	31.27	128.3	445	14.9	15.6	3344	5.15	9.0	7.8	3.0	23.5	23.5	.21	.67	.86	52	.37	.053	45.4	55.0	.44	412.1	.036	<1	1.78	.012	.19	1.8	.25	88	<.1	.06	5.7	<.01
3081	1.14	8.18	21.20	54.0	321	6.9	5.8	1061	1.81	3.1	2.7	.9	30.0	15.1	.16	.40	.18	30	.16	.025	38.9	47.0	.29	206.8	.046	1	1.07	.012	.12	9.4	.17	65	<.1	.02	3.7	<.01
RE 3081	1.14	8.61	21.59	56.3	190	8.3	6.3	1110	1.87	2.9	2.8	.6	31.3	16.5	.15	.40	.17	32	.17	.026	48.1	44.8	.31	208.9	.055	<1	1.12	.024	.13	10.7	.20	72	<.1	<.02	3.7	<.01
3082	1.83	19.19	12.26	91.2	3848	15.9	14.6	504	2.83	5.3	7.6	16.7	28.9	17.9	.15	.56	.17	72	.26	.049	31.7	96.8	.56	195.5	.128	1	1.70	.019	.14	14.4	.24	219	.1	.02	6.3	<.01
3083	1.59	16.76	13.94	69.0	94	17.8	10.1	600	3.23	9.4	2.2	1.5	13.8	20.6	.14	.60	.20	78	.21	.022	24.0	51.0	.57	190.8	.067	1	2.36	.021	.08	1.2	.16	53	.1	.03	7.4	<.01
3084	1.04	13.46	14.16	77.8	1209	15.4	9.8	993	2.94	7.7	3.1	.9	24.4	20.6	.07	.55	.16	67	.37	.041	31.0	48.1	.61	196.6	.103	1	1.85	.009	.15	2.1	.25	63	.1	.02	6.3	<.01
3085	1.29	26.35	15.91	85.3	168	23.7	11.8	979	3.72	13.5	2.6	3.9	23.7	30.4	.07	.81	.23	87	.40	.045	41.2	55.3	.75	262.5	.094	1	2.65	.021	.11	.4	.19	100	.2	.04	7.8	.01
3086	1.21	18.25	15.93	78.1	341	21.4	13.1	993	3.64	8.7	1.9	2.2	19.3	19.0	.10	.66	.22	85	.28	.036	22.2	68.3	.88	172.7	.134	1	2.61	.014	.16	1.4	.26	55	.2	.03	8.7	<.01
3087	1.00	24.58	10.69	75.7	344	24.6	12.6	705	3.63	9.6	2.7	2.6	14.3	25.0	.09	.55	.18	93	.37	.063	22.3	56.8	.87	214.8	.153	1	2.41	.026	.13	.7	.20	43	.2	.03	7.3	<.01
3088	1.61	12.14	13.61	83.5	1315	10.9	9.9	1235	3.02	2.8	3.6	.4	41.1	12.7	.04	.50	.17	64	.24	.046	37.3	52.5	.73	174.1	.083	<1	1.62	.011	.21	3.5	.27	47	<.1	<.02	6.4	<.01
STANDARD	14.36	131.28	32.70	165.6	243	34.5	12.4	831	3.19	63.6	21.5	193.1	3.6	29.1	11.52	10.05	11.35	83	.55	.083	13.8	174.4	.61	137.5	.117	2	1.81	.036	.16	7.3	2.02	259	2.4	1.92	6.1	.02

Standard is STANDARD DS2.

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 6 1999 **DATE REPORT MAILED:** Aug 18/99 **SIGNED BY** C. L. ......D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902751

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
1018	.82	14.57	17.55	81.5	146	12.2	10.9	1623	2.70	6.6	2.4	2.2	12.6	37.2	.31	.65	.28	55	.49	.053	37.3	23.3	.46	512.2	.060	2	1.67	.016	.13	<.2	.10	104	.2	.03	6.1	.02
1022	1.07	12.30	8.67	70.8	61	14.9	11.1	776	2.34	6.9	1.3	1.7	9.9	28.0	.20	.45	.19	56	.38	.055	27.9	24.1	.50	284.0	.084	1	1.26	.018	.14	.2	.10	50	.1	.03	5.0	<.01
1025	1.92	28.27	14.62	97.1	179	35.7	16.5	678	3.10	79.3	1.8	13.5	11.9	36.1	.48	4.06	.61	57	.87	.085	19.6	56.3	.92	262.0	.071	1	1.36	.012	.20	.7	.15	62	.3	.05	4.9	.15
1027	.24	4.77	5.79	76.1	31	6.4	7.3	1001	1.83	1.7	2.6	1.6	8.7	44.4	.12	.18	.11	28	.60	.091	28.0	10.0	.37	412.7	.040	1	.99	.018	.09	<.2	.12	74	.2	<.02	3.7	.02
1028	.46	18.47	12.94	105.8	109	17.4	10.6	586	2.61	5.5	14.9	2.8	14.6	103.2	.30	.50	.20	59	.95	.093	34.9	26.5	.70	395.3	.112	2	1.65	.028	.17	<.2	.22	84	.3	.03	6.0	.04
1030	2.06	43.09	19.54	139.2	280	49.4	17.2	557	3.68	146.0	7.0	6.6	7.6	55.9	.57	8.02	.26	62	.72	.091	18.0	36.5	.73	452.9	.043	1	1.44	.020	.12	.3	.23	106	1.4	.06	4.7	.05
1046	1.29	11.29	10.44	57.8	71	8.2	6.4	626	2.60	5.9	11.1	1.3	21.5	41.2	.11	.61	.16	56	.66	.058	64.5	15.6	.40	284.7	.029	1	1.48	.013	.18	.4	.15	107	<.1	<.02	5.0	<.01
1048	.51	8.29	10.03	61.6	52	10.5	12.7	1173	2.54	5.1	1.8	4.5	11.2	22.3	.12	.44	.04	66	.35	.059	18.1	21.0	.50	153.3	.077	1	1.49	.018	.09	.3	.14	94	.2	.02	6.3	.01
3035	2.74	47.15	14.29	136.9	564	29.9	9.7	412	3.28	22.5	1.3	3.8	4.0	28.0	.92	2.12	.29	78	.30	.057	9.9	33.8	.43	684.7	.089	2	1.69	.016	.27	<.2	.24	42	1.4	.08	6.3	.05
3036	.73	20.04	12.35	81.1	153	24.7	11.9	511	2.55	28.5	1.5	11.5	8.2	35.5	.39	1.83	.31	57	1.10	.051	30.5	43.2	.95	305.0	.099	1	1.71	.020	.32	.3	.17	44	.2	.03	5.9	.03
3037	1.87	47.27	50.05	205.5	2192	188.5	22.5	349	3.17	186.5	2.7	65.2	10.6	43.8	2.28	27.98	.89	48	1.29	.042	26.5	286.0	1.75	252.8	.063	2	1.98	.024	.28	.3	.28	90	.4	.08	6.1	.06
3043	.28	9.47	7.43	68.5	54	11.9	7.9	386	2.07	5.2	7.9	3.7	10.9	50.3	.14	.50	.38	48	.60	.088	22.9	23.5	.53	231.3	.077	1	1.16	.021	.09	.6	.12	65	.4	<.02	4.2	<.01
3046	1.77	29.13	24.21	131.1	141	36.6	15.8	655	3.07	119.6	2.6	6.1	8.9	28.7	.53	8.93	.40	57	.56	.098	16.1	43.4	.92	401.5	.049	1	1.45	.011	.19	.3	.18	50	.7	.06	4.7	.06
3048	1.71	29.67	25.22	134.7	137	39.1	16.1	688	3.19	122.8	2.9	6.8	9.4	29.3	.59	9.19	.44	58	.60	.097	17.3	45.4	.96	412.0	.050	1	1.48	.011	.21	.3	.18	59	.7	.06	4.8	.07
3053	.95	18.70	25.50	101.6	135	38.1	14.3	537	2.89	57.2	1.9	61.2	10.0	27.8	.32	2.69	.58	44	.69	.096	21.0	54.1	1.06	229.8	.052	1	1.42	.013	.17	<.2	.17	36	.2	.04	5.0	.05
RE 3053	.95	19.10	23.87	104.0	109	37.6	15.2	561	2.97	58.9	2.0	20.2	9.8	27.6	.34	2.69	.52	45	.68	.092	21.4	57.5	1.12	227.0	.052	1	1.47	.006	.16	<.2	.17	37	.2	.04	4.7	.04
3061	.87	41.29	23.65	101.3	159	98.9	23.0	959	3.90	82.2	3.8	8.5	8.7	63.6	.25	5.81	.37	66	1.69	.072	30.4	176.7	1.49	345.8	.088	2	2.02	.018	.29	.3	.27	81	.5	.03	6.0	.05
3063	8.14	98.46	23.22	444.0	462	137.8	25.0	1105	4.97	78.3	10.1	4.3	6.8	63.4	2.09	52.78	.27	98	.37	.133	13.9	60.6	.67	443.5	.072	<1	1.48	.026	.42	<.2	.43	86	3.8	.15	5.3	.24
3065	1.05	26.86	22.98	114.6	294	36.4	15.0	471	3.33	97.3	2.3	28.7	10.1	36.8	.68	8.73	.82	61	.73	.108	17.7	78.8	1.01	175.3	.070	<1	1.28	.015	.17	.3	.15	43	.5	.10	5.1	.38
3071	1.08	28.65	9.23	106.0	144	35.2	12.5	372	2.57	22.3	1.8	2.4	4.2	125.7	.39	.97	.19	53	7.36	.113	11.9	35.9	.67	358.1	.067	2	1.03	.019	.12	<.2	.14	41	1.5	.04	3.4	.07
3073	1.28	34.15	7.05	93.6	140	31.2	13.7	459	2.48	9.6	2.9	1.8	4.3	34.3	.29	.87	.14	56	.77	.092	12.3	31.3	.71	402.2	.087	1	1.21	.015	.22	<.2	.18	68	1.5	.04	3.7	.06
3090	.63	7.12	8.03	64.9	42	6.8	10.4	2156	3.10	3.6	1.9	20.8	14.1	19.6	.12	.40	.14	83	.33	.060	15.6	17.8	.41	114.6	.083	1	1.21	.018	.08	.5	.11	93	.3	<.02	5.7	.01
5037	.93	16.08	11.83	83.9	73	23.5	11.6	653	2.81	29.0	5.1	3.5	11.1	46.2	.24	1.80	.26	60	.60	.089	23.7	46.7	.74	266.4	.072	1	1.20	.013	.16	.6	.13	154	.4	.05	4.6	.04
5039	1.02	40.63	11.74	104.5	199	39.5	16.9	578	2.76	26.4	2.3	3.8	5.2	231.2	.61	1.48	.18	49	10.21	.079	15.6	40.0	.81	438.9	.030	3	1.01	.017	.12	<.2	.15	87	1.8	.04	3.3	.16
5041	.64	20.86	13.45	122.2	84	52.8	17.7	660	2.98	44.2	1.2	7.3	6.0	31.4	.30	3.90	.30	60	.96	.062	15.2	87.3	1.19	257.9	.099	1	1.72	.021	.23	.2	.22	60	.4	.03	5.4	.02
5043	3.29	25.14	10.04	133.4	109	51.8	42.3	2504	5.52	221.6	1.1	2.1	3.9	27.4	.68	8.81	.21	88	.53	.097	12.2	52.3	.58	497.9	.069	1	1.21	.020	.16	.2	.17	112	.9	.05	4.5	<.01
5045	1.16	22.69	35.24	107.7	346	24.2	12.2	598	2.74	91.3	2.0	20.0	11.7	26.3	.59	8.17	.68	52	.51	.055	26.8	38.6	.73	233.6	.073	1	1.38	.010	.18	.3	.16	41	.3	.11	5.2	.03
5047	3.33	13.03	9.04	62.6	51	7.0	8.0	696	2.26	4.0	28.7	.7	16.2	62.0	.10	.50	.17	51	.83	.055	36.0	11.1	.57	182.8	.072	1	1.10	.015	.20	.3	.16	47	.1	.02	5.1	.03
5049	.59	11.89	9.64	64.7	34	15.0	8.2	509	2.27	4.8	4.3	2.7	14.2	40.0	.12	.45	.11	49	.59	.095	24.4	16.4	.44	303.8	.055	1	1.00	.025	.14	.3	.10	31	.1	<.02	3.9	.01
5051	2.01	17.03	11.25	79.8	93	10.3	8.6	749	2.83	5.3	28.0	1.6	23.7	67.4	.13	.68	.22	64	1.11	.065	60.5	18.9	.62	222.6	.073	2	1.65	.011	.21	.3	.18	116	.2	.02	6.4	.05
5053	.27	9.82	8.78	81.9	41	9.1	7.4	363	2.05	2.7	4.7	1.3	16.1	41.1	.10	.25	.08	45	.68	.126	32.7	14.0	.56	273.3	.079	1	1.25	.018	.17	<.2	.16	41	<.1	<.02	5.0	.01
5055	.36	7.25	9.95	100.2	37	7.7	9.6	792	3.19	2.9	4.0	.3	22.3	44.8	.11	.18	.09	57	.60	.112	46.4	9.6	.56	418.9	.072	<1	1.25	.016	.22	<.2	.23	50	<.1	<.02	5.7	.01
STANDARD	13.74	130.04	32.20	165.0	224	39.0	12.9	816	3.17	64.2	21.8	194.9	3.7	29.8	11.54	10.99	11.55	82	.55	.081	14.2	169.7	.60	148.6	.113	2	1.77	.044	.16	7.5	1.90	258	2.4	1.93	6.2	<.01

Standard is STANDARD DS2.
30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 6 1999 **DATE REPORT MAILED:** Aug 18/99 **SIGNED BY**.............D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902752

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
1031	1.62	19.11	3.56	28.4	60	31.7	12.0	348	2.47	84.9	1.1	1.4	6.7	58.4	.02	5.95	.32	22	2.08	.041	13.2	50.9	1.16	31.8	.015	2	1.28	.028	.21	5.9	.12	<5	<.1	.04	4.6	.23
1032	.16	4.35	6.47	4.4	2	<.1	1.5	208	.45	12.3	.5	.6	.5	1131.4	.03	.36	.02	<2	31.08	.028	3.1	3.3	.56	17.6	<.001	<1	.03	.004	.02	.6	<.02	<5	<.1	.10	.1	.06
1033	.99	11.21	6.60	20.9	22	6.8	4.7	368	.97	1.3	1.3	.5	13.3	75.2	.08	.14	.07	17	3.28	.025	23.2	24.3	.48	59.8	.040	<1	.55	.052	.21	4.7	.06	<5	<.1	<.02	2.7	.02
1034	1.79	12.26	1.82	21.0	<2	2.4	10.7	428	2.89	4.1	2.6	.4	19.4	38.8	.01	.31	.03	43	.71	.111	28.1	14.8	.71	328.8	.179	<1	1.25	.092	.71	5.9	.16	<5	<.1	<.02	5.8	.05
1035	2.20	33.24	6.51	60.7	56	30.4	12.6	258	1.77	2.3	1.4	<.2	7.0	95.8	.04	1.22	.24	18	3.26	.056	13.4	41.0	.65	81.9	.145	2	.95	.019	.18	7.6	.15	<5	.2	.02	2.8	.25
1036	.67	6.93	8.56	11.7	17	6.1	3.7	253	.81	12.4	.6	.3	.9	399.9	.07	.58	.04	7	25.33	.022	3.6	11.4	1.82	35.3	.005	<1	.18	.005	.06	1.0	.06	12	.1	.05	.7	.13
1037	1.42	18.65	3.90	58.7	19	58.8	17.3	442	3.41	23.8	1.0	.5	6.5	38.8	.02	2.67	.28	68	1.90	.060	10.7	91.9	1.67	129.8	.196	<1	1.92	.048	.99	3.3	.23	<5	.1	.07	8.2	.14
1038	.08	38.94	.63	8.5	12	955.2	116.1	531	4.19	9.1	.5	<.2	.5	11.4	<.01	.37	.38	16	.43	.006	.8	1941.9	11.67	16.2	.005	14	.14	.003	.01	.4	.05	<5	<.1	<.02	.8	<.01
3038	.76	12.10	4.97	26.5	48	31.7	12.7	328	2.17	42.4	1.0	1.0	6.6	358.6	.05	3.46	.15	24	13.99	.043	10.1	67.1	1.11	39.9	.016	<1	1.17	.011	.27	1.6	.15	6	.1	.06	4.2	.20
RE 3038	.76	11.82	4.57	27.7	39	31.9	12.2	329	2.16	40.4	.9	2.0	6.1	340.7	.03	3.37	.14	23	14.01	.043	9.5	61.7	1.03	37.2	.015	1	1.09	.010	.27	1.5	.14	<5	.1	.07	4.0	.20
3039	.76	22.13	4.05	74.3	22	36.8	20.5	557	3.96	135.7	1.1	.2	6.6	135.3	.03	5.38	.08	54	6.88	.047	12.5	61.2	2.21	77.5	.095	1	2.50	.020	1.06	1.8	.42	6	.1	.03	9.1	.01
3040	1.00	40.28	4.70	53.7	26	31.1	18.1	379	3.37	158.8	1.3	<.2	10.2	173.4	.02	8.72	.07	48	7.20	.034	20.1	63.5	1.40	61.0	.068	1	1.75	.018	.62	1.7	.34	5	<.1	.05	8.3	.09
3075	1.05	52.64	1.76	20.5	63	21.1	13.6	240	1.82	4.4	.2	5.9	1.1	15.0	.03	.25	.04	31	.77	.040	2.4	48.4	.90	55.9	.064	<1	.90	.074	.09	4.0	.02	<5	.3	.03	3.2	.30
3076	.30	2.81	3.66	14.2	12	3.1	.8	120	.22	1.8	.8	<.2	.4	64.1	.15	.04	.02	8	6.66	.019	1.4	9.5	.50	10.4	.070	1	.05	.009	.02	1.0	<.02	<5	<.1	<.02	.2	.02
STANDARD DS2	13.73	135.44	32.11	174.2	212	39.0	13.8	814	3.32	67.1	22.6	217.3	3.8	31.7	12.39	10.63	11.75	85	.57	.086	13.9	185.7	.66	155.9	.123	2	1.74	.033	.17	8.0	2.08	258	2.2	1.98	6.7	<.01

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 6 1999 **DATE REPORT MAILED:** Aug 18/99 **SIGNED BY**.......... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902753

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
1016	.63	1.83	1.30	8.8	11	1.9	1.3	116	.93	1.2	.5	.2	2.6	11.6	<.01	.09	.14	8	.13	.026	7.5	5.2	.04	111.1	.004	1	.28	.034	.08	2.5	.04	16	<.1	<.02	.9	.01
1017	.72	2.43	3.34	15.5	20	3.2	2.6	235	1.09	2.4	1.6	.3	6.4	24.9	.06	.16	.14	13	.16	.030	13.2	8.4	.09	141.3	.013	1	.39	.039	.09	3.5	.06	38	<.1	<.02	1.3	<.01
1019	1.50	3.68	5.59	22.0	18	3.3	2.9	410	1.33	3.2	1.0	1.5	14.8	12.5	.09	.32	.11	23	.13	.018	37.9	13.2	.10	261.7	.021	1	.55	.041	.12	3.0	.04	27	<.1	<.02	1.9	<.01
1020	1.56	4.55	4.57	23.8	18	5.7	4.2	421	1.73	4.5	1.8	1.0	14.9	17.5	.12	.47	.10	38	.18	.031	29.9	16.3	.15	251.0	.033	1	.49	.050	.13	6.9	.06	20	<.1	<.02	2.1	<.01
1021	1.04	4.19	3.92	19.3	20	5.4	2.9	218	1.04	3.4	.5	.5	6.5	10.5	.10	.22	.08	19	.12	.018	17.6	12.7	.15	165.2	.026	<1	.49	.034	.11	3.1	.04	18	.1	<.02	1.9	<.01
1024	1.82	14.70	7.06	59.0	71	17.0	7.3	462	1.81	14.2	.9	1.3	9.4	22.1	.23	.98	.10	40	.23	.038	22.1	25.6	.43	612.7	.053	1	.81	.018	.17	2.6	.07	25	.4	.02	3.1	.01
1026	2.09	22.60	13.55	56.8	169	24.2	12.4	502	2.29	108.2	1.0	12.5	8.5	26.2	.47	3.04	.65	30	.48	.035	14.0	51.4	.59	705.3	.037	<1	.92	.020	.20	3.5	.10	40	.3	.04	3.4	.16
1029	1.94	21.01	11.92	81.7	71	28.3	12.9	574	2.28	99.1	1.9	5.3	6.6	32.2	.38	5.58	.43	33	.23	.042	11.9	26.1	.49	2244.7	.018	1	.98	.016	.15	2.8	.14	40	1.0	.05	3.0	.05
1047	1.75	3.38	7.28	24.1	11	3.0	5.8	647	2.10	3.9	2.0	.8	23.2	10.7	.04	.50	.11	44	.13	.022	31.4	9.2	.13	99.3	.024	1	.50	.029	.14	2.3	.09	42	<.1	<.02	2.5	<.01
1049	1.00	3.04	2.49	11.9	19	3.8	4.1	456	1.82	2.4	1.1	.3	18.1	8.1	.03	.31	.13	42	.11	.021	27.6	13.8	.09	62.5	.032	1	.42	.038	.08	4.6	.04	13	<.1	<.02	2.0	<.01
3034	1.82	7.35	7.81	31.5	32	6.6	5.2	465	1.62	7.6	.9	.8	9.8	11.6	.11	.68	.12	26	.16	.023	25.8	15.8	.14	302.9	.029	2	.67	.040	.16	2.9	.06	28	.2	.02	2.5	<.01
3042	1.01	5.91	5.43	28.9	85	6.6	6.4	385	2.58	8.8	2.0	1.5	25.4	18.1	.11	1.10	.57	64	.20	.041	47.0	16.5	.18	482.4	.038	1	.46	.023	.09	3.7	.05	23	<.1	.17	2.4	.01
3045	2.09	21.39	15.78	78.8	80	25.4	11.7	524	2.17	87.3	1.4	5.3	7.3	26.6	.40	6.07	.57	33	.26	.045	12.4	33.5	.59	1962.7	.024	2	1.11	.015	.24	3.0	.17	40	.6	.05	3.3	.05
3047	1.82	22.13	20.02	86.6	97	26.9	13.6	539	2.40	97.8	1.6	4.2	8.0	26.4	.49	7.35	.48	35	.27	.050	13.4	30.1	.60	1593.8	.026	2	1.04	.010	.21	2.7	.14	43	.8	.09	3.3	.11
3052	1.95	16.08	20.13	60.7	73	27.9	17.2	505	2.75	56.1	1.6	3.2	9.1	30.0	.26	2.21	1.52	33	.43	.054	17.7	63.7	.70	952.0	.055	2	1.17	.025	.26	2.7	.14	29	.3	.05	4.0	.22
3054	1.20	7.56	19.66	68.3	25	10.9	9.1	410	1.95	42.4	1.0	1.9	8.8	33.5	.27	2.02	.55	23	.28	.050	21.1	21.8	.54	2318.1	.018	3	1.03	.017	.28	2.3	.15	35	<.1	.08	3.2	.06
RE 3054	1.24	8.02	20.36	68.3	26	11.1	9.5	407	1.93	44.2	1.1	2.0	9.0	34.5	.28	2.31	.48	22	.28	.050	22.0	25.4	.56	2347.1	.019	3	1.05	.017	.28	2.7	.15	35	.1	.07	3.3	.06
3055	3.29	6.39	13.97	48.2	26	10.0	8.2	426	1.67	32.5	1.2	1.4	8.4	22.2	.18	1.57	.35	18	.20	.029	13.8	27.4	.44	949.3	.012	3	.94	.023	.29	4.2	.12	23	.1	.03	2.8	.02
3060	1.46	19.62	12.83	51.8	53	65.2	20.6	590	2.98	50.7	1.1	3.4	9.5	34.1	.16	3.84	.27	38	.54	.046	22.2	264.4	.97	479.8	.064	2	1.17	.027	.28	1.9	.15	23	.3	.03	4.0	.03
3062	2.56	20.80	7.75	90.4	103	23.4	6.2	369	2.18	25.8	2.7	1.5	16.4	24.7	.49	9.14	.11	52	.17	.046	31.8	26.7	.19	843.9	.036	2	.67	.040	.19	5.3	.12	25	1.0	.04	2.8	.05
3064	3.71	34.01	49.35	77.0	472	97.7	18.6	526	4.50	95.5	1.7	10.9	16.6	37.3	.79	11.40	7.66	67	.91	.053	28.5	864.5	.81	430.8	.058	1	.93	.052	.17	8.7	.10	25	.3	.25	3.7	.32
3070	2.43	30.46	10.25	89.1	143	34.3	12.5	557	3.11	30.3	1.5	3.1	5.6	47.8	.31	1.44	.45	56	.59	.081	13.1	40.2	.42	2651.8	.067	1	.94	.024	.14	4.3	.09	34	1.4	.07	3.1	.02
3072	2.56	23.32	4.85	59.6	65	27.3	11.2	574	2.07	14.1	1.0	25.3	4.1	28.2	.19	.77	.12	43	.43	.047	9.0	32.8	.35	1837.0	.046	1	.84	.041	.11	3.8	.08	24	.8	.03	2.5	.01
3089	4.01	3.18	3.45	13.1	23	2.8	3.3	395	3.10	2.4	1.4	2.8	21.4	9.2	.03	.37	.17	79	.18	.021	34.9	23.9	.08	63.6	.103	1	.45	.071	.11	5.9	.05	25	<.1	<.02	2.9	<.01
3091	.91	2.65	2.46	15.3	8	3.1	2.6	318	.99	1.1	.8	.6	8.0	9.4	.04	.25	.04	18	.12	.017	12.8	11.7	.08	86.1	.016	1	.45	.055	.10	3.5	.05	23	.1	<.02	1.5	<.01
3092	4.00	2.94	4.77	28.7	11	3.6	5.3	532	2.89	2.9	1.4	.7	21.2	14.1	.07	.71	.09	77	.21	.036	36.9	24.0	.14	98.7	.032	2	.65	.069	.16	4.3	.08	24	<.1	<.02	3.1	<.01
5036	2.79	14.71	10.28	41.4	82	29.0	14.3	504	5.24	27.6	2.4	3.4	29.5	32.9	.19	2.15	2.72	124	.43	.053	55.2	207.9	.41	1305.7	.066	1	.76	.049	.16	8.3	.07	22	.1	.12	4.1	.07
5038	2.09	36.09	8.26	86.0	119	42.5	16.9	644	3.67	30.5	1.4	3.5	6.4	58.0	.26	1.30	.23	51	1.15	.061	12.6	46.7	.73	1812.1	.027	2	1.01	.022	.14	3.9	.09	42	.7	.05	3.2	.09
5040	2.25	15.88	9.12	43.4	45	42.7	15.5	605	2.29	36.4	.8	2.1	6.4	21.1	.13	2.59	.31	31	.41	.034	11.9	150.4	.79	166.6	.040	2	1.15	.029	.23	3.8	.12	30	.1	.02	3.5	.01
5042	2.68	14.60	24.23	56.4	188	17.4	10.4	472	2.12	101.5	1.4	12.9	18.7	14.6	.42	8.71	.43	29	.24	.029	30.9	39.4	.41	225.2	.035	2	.86	.047	.20	6.0	.11	20	<.1	.05	3.2	.04
5044	1.89	9.29	2.19	33.1	53	17.6	5.2	229	1.69	55.7	.4	1.5	2.5	10.2	.05	2.82	.25	31	.16	.045	6.2	31.9	.22	331.0	.028	1	.58	.013	.14	5.1	.06	21	.3	.07	2.0	<.01
5046	2.40	5.48	6.06	21.0	16	4.1	6.2	491	4.22	2.4	2.6	1.2	34.9	17.0	.02	.89	.29	110	.15	.029	49.4	20.9	.14	185.5	.030	1	.54	.056	.14	4.5	.07	20	<.1	<.02	3.6	<.01
5048	1.97	2.69	2.39	10.6	12	2.7	1.7	88	.91	1.6	1.3	.2	4.1	15.0	<.01	.13	.03	15	.11	.022	9.2	16.1	.06	229.0	.005	1	.44	.059	.15	4.6	.07	12	<.1	<.02	1.3	<.01
5050	1.67	4.91	4.41	20.9	13	4.8	5.4	552	3.24	1.7	2.1	.3	17.5	13.1	.02	.43	.33	84	.15	.024	19.2	21.0	.18	103.0	.039	1	.57	.071	.15	5.2	.08	21	<.1	<.02	3.6	<.01
STANDARD DS2	13.63	136.56	31.92	173.9	249	38.7	13.9	856	3.33	65.2	23.2	201.3	3.9	32.7	12.65	10.29	11.88	86	.58	.086	13.4	180.3	.65	152.8	.121	2	1.89	.042	.17	7.7	2.00	268	2.4	2.01	6.8	<.01

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: PAN CONC. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 6 1999 **DATE REPORT MAILED:** Aug 18/99 **SIGNED BY**.......D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902621

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
1008	.52	11.50	8.86	92.4	40	9.3	14.7	1287	3.70	3.8	3.6	1.3	17.0	37.8	.12	.38	.15	83	.80	.042	21.9	15.3	1.02	256.5	.224	2	2.04	.018	.66	<.2	.42	24	.4	.02	9.1	.03
1009	.41	14.45	8.54	81.6	101	10.4	9.9	804	2.77	4.1	5.9	1.4	14.5	48.1	.22	.44	.14	58	.98	.076	47.8	17.3	.67	266.0	.083	1	1.67	.017	.27	<.2	.22	64	.4	.02	6.4	.06
1010	.35	12.51	8.24	82.0	72	8.4	9.3	577	3.16	3.7	24.0	1.2	16.3	84.3	.18	.50	.13	68	.88	.084	53.4	16.7	.63	193.9	.088	2	1.47	.018	.26	<.2	.22	62	.5	<.02	5.9	.05
1011	.39	11.58	7.73	90.0	69	11.2	9.7	936	2.64	4.1	3.9	1.3	15.3	43.4	.25	.43	.14	53	.74	.077	36.1	20.5	.47	209.0	.075	1	1.49	.016	.15	.2	.15	79	.4	.02	5.3	.06
1012	.29	16.33	11.18	107.9	109	15.6	11.6	1231	2.82	5.3	14.5	3.3	13.6	119.7	.31	.42	.17	52	.93	.090	40.7	23.9	.61	424.0	.095	1	1.59	.025	.14	<.2	.19	82	.4	.04	5.6	.07
1013	.75	7.95	6.85	101.3	50	8.3	10.1	1658	3.26	4.9	2.3	1.4	7.8	60.7	.13	.29	.09	33	.86	.089	24.2	12.7	.33	372.4	.045	1	1.07	.017	.10	<.2	.12	75	.8	.02	3.5	.09
1014	.35	9.90	10.32	92.9	73	8.3	9.9	875	4.06	5.8	5.9	.3	17.4	85.1	.17	.27	.38	42	.95	.094	63.7	10.6	.40	544.4	.044	1	1.39	.014	.16	.2	.21	96	.5	.04	4.4	.08
1015	.45	20.07	13.25	109.2	148	16.5	11.5	781	2.97	6.0	18.7	2.3	14.4	157.8	.34	.48	.22	53	1.15	.102	49.0	25.7	.64	432.0	.090	2	1.71	.027	.16	<.2	.21	106	.5	.04	5.7	.10
3010	.35	17.35	11.16	97.2	87	15.5	12.5	850	3.27	6.7	12.5	2.7	9.4	89.8	.37	.48	.15	50	.94	.093	33.1	21.2	.54	381.3	.080	1	1.59	.034	.10	<.2	.12	68	.8	.02	4.9	.06
3013	.26	9.66	6.90	61.7	46	11.4	8.0	534	2.13	3.9	6.6	9.6	8.1	63.3	.11	.33	.11	43	.70	.083	21.1	19.2	.47	208.8	.074	1	1.20	.027	.08	.3	.08	43	.2	.02	4.1	.04
3015	.20	9.79	7.39	69.2	62	12.6	8.0	450	2.33	4.3	7.9	15.2	9.5	66.2	.11	.34	.35	45	.78	.090	24.9	21.6	.45	239.8	.071	1	1.27	.028	.08	.6	.10	41	.3	.04	4.0	.02
3017	.73	15.47	10.88	82.8	130	11.2	10.5	919	3.18	7.1	7.1	3.2	14.2	50.4	.23	1.33	.23	62	1.01	.065	45.7	17.2	.54	302.4	.086	1	2.26	.013	.29	<.2	.21	106	.4	.03	7.9	.06
3021	1.03	8.72	7.27	100.4	45	9.3	15.3	2078	6.17	7.1	2.5	1.0	9.6	52.8	.16	.41	.12	54	.91	.081	24.3	16.4	.39	319.9	.048	1	1.28	.015	.11	<.2	.12	92	.5	.02	4.5	.06
3023	.39	12.93	9.19	75.0	61	19.1	9.6	550	2.75	6.0	11.9	2.6	10.8	72.1	.14	.42	.13	48	.72	.080	23.1	29.5	.58	221.3	.082	1	1.34	.022	.11	.2	.11	54	.3	.02	4.7	.05
3025	.17	18.87	9.17	73.1	64	14.2	7.0	259	1.89	2.5	4.7	2.8	9.5	41.8	.20	.56	.14	51	.60	.065	26.9	27.2	.54	257.4	.084	1	1.65	.024	.06	<.2	.10	57	.4	.02	5.4	.05
RE 3015	.24	10.12	7.14	68.5	57	12.3	8.6	449	2.35	4.3	7.8	3.7	9.5	66.9	.11	.36	.11	46	.78	.092	27.1	19.6	.46	244.8	.072	1	1.29	.029	.08	.5	.08	37	.3	.02	4.1	.02
3027	.41	24.19	9.64	68.7	118	15.7	7.4	388	1.83	2.6	3.6	3.1	7.8	57.9	.34	.48	.17	54	.85	.068	17.0	26.5	.57	499.2	.127	2	1.63	.024	.13	<.2	.15	89	.5	.02	6.6	.08
3029	.25	6.92	6.48	49.7	29	15.9	6.6	252	1.65	2.8	6.0	4.3	12.0	39.1	.09	.32	.07	34	.49	.090	23.3	31.7	.48	152.8	.076	1	1.01	.017	.07	.3	.08	20	<.1	<.02	3.5	<.01
3031	.26	11.56	8.64	60.9	63	17.4	7.1	266	1.82	3.2	12.3	3.3	12.5	54.1	.12	.45	.12	38	.57	.081	25.4	29.5	.52	250.2	.089	1	1.29	.021	.09	.3	.09	44	.2	<.02	4.3	.01
3032	.81	32.86	5.54	86.9	41	111.8	28.2	723	4.48	5.8	1.3	1.8	4.5	55.2	.06	.23	.06	114	.93	.120	14.4	136.4	2.63	207.0	.206	1	1.81	.026	.07	.2	.06	29	.4	<.02	6.7	.01
5001	.58	12.41	11.06	80.5	65	11.4	9.9	682	2.89	4.7	5.9	3.7	16.5	33.5	.14	.80	.14	59	.60	.072	28.3	19.4	.57	201.9	.088	1	1.43	.019	.16	<.2	.15	40	.2	.02	5.5	.02
5003	.26	6.67	5.43	60.4	35	7.6	7.3	612	2.68	3.4	6.3	7.5	14.2	52.3	.07	.35	.09	61	.59	.102	29.9	14.9	.39	209.2	.074	1	1.03	.018	.11	.6	.12	34	.1	<.02	4.0	.01
5005	.25	8.46	6.56	65.2	50	10.5	8.3	409	2.68	3.5	6.7	10.3	13.2	62.3	.10	.52	.11	57	.65	.088	30.2	16.6	.46	235.2	.082	1	1.29	.024	.11	.4	.11	42	.2	<.02	4.5	.01
5007	.34	8.75	8.11	71.9	43	14.4	8.7	735	2.64	4.4	10.1	1.6	13.1	47.5	.13	.38	.12	53	.58	.075	26.1	23.2	.50	204.4	.080	1	1.22	.019	.13	.3	.11	38	.1	<.02	4.5	.02
5009	.32	11.52	9.15	76.2	49	17.0	11.0	650	2.40	4.3	17.9	4.9	11.2	59.0	.22	.37	.12	46	.60	.080	26.7	28.5	.56	240.2	.091	1	1.36	.024	.10	.3	.11	49	.2	<.02	4.8	.04
5022	.20	26.67	13.72	95.8	115	20.1	10.2	303	2.42	4.5	10.9	3.8	12.6	59.9	.34	.69	.23	66	.70	.077	32.9	34.3	.64	455.1	.098	2	2.04	.029	.10	<.2	.15	62	.5	.02	6.3	.02
5025	.29	12.98	10.74	81.6	65	8.0	7.2	439	2.66	3.3	5.2	1.5	16.5	45.2	.20	.40	.11	46	.67	.089	46.6	15.7	.40	305.6	.039	1	1.41	.015	.12	<.2	.12	63	.3	<.02	4.7	.04
5027	.41	10.50	9.67	65.9	73	12.0	9.7	1157	2.66	4.5	17.7	15.8	15.2	80.5	.17	.34	.15	56	.80	.101	37.6	21.5	.47	328.6	.080	1	1.33	.023	.12	.6	.14	88	.3	<.02	4.6	.04
5029	.26	8.97	6.63	65.8	55	9.6	7.7	481	3.38	3.6	8.6	4.7	16.1	56.4	.11	.39	.20	80	.59	.095	30.2	20.4	.42	229.8	.074	1	1.14	.019	.13	.4	.13	43	.1	<.02	4.6	.02
STANDARD DS2	13.98	131.67	32.02	164.3	261	36.6	13.0	838	3.37	61.8	19.0	200.9	3.4	30.5	11.71	10.06	11.05	76	.59	.089	14.5	165.3	.57	140.9	.112	3	1.81	.039	.16	7.7	1.91	255	2.6	1.94	6.3	.03

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 3 1999 **DATE REPORT MAILED:** Aug 13/99 **SIGNED BY**............D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902622

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
3011	.38	1.93	2.28	19.0	20	2.2	2.5	167	1.21	1.9	1.1	8.9	6.0	14.8	.02	.15	.16	17	.18	.043	14.8	7.2	.14	96.3	.012	2	.36	.023	.06	1.1	.04	8	.1	<.02	1.4	.03
3012	.47	2.33	2.81	16.8	12	2.3	2.8	299	1.90	2.2	1.9	5.5	11.3	17.7	.05	.24	.09	43	.17	.039	25.4	10.0	.10	117.6	.017	1	.32	.028	.07	2.0	.04	6	.1	<.02	1.4	<.01
3014	.98	3.24	3.33	18.6	12	4.0	3.8	461	1.52	1.9	1.2	4.9	11.0	17.1	.07	.32	.08	30	.17	.035	22.8	10.9	.12	128.5	.019	2	.37	.035	.09	3.8	.05	7	.2	<.02	1.6	.02
3016	.73	4.39	5.42	31.9	14	2.9	5.4	446	2.14	2.9	1.2	.8	10.7	9.7	.05	.56	.12	51	.20	.028	13.2	8.6	.29	102.0	.090	<1	.70	.035	.24	2.3	.13	5	<.1	<.02	3.3	<.01
3020	.46	1.43	1.19	7.9	5	1.2	1.0	100	.52	.3	.4	.2	2.1	6.5	.01	.10	.03	9	.09	.020	4.9	5.3	.06	46.2	.008	1	.24	.026	.06	1.7	.03	10	<.1	<.02	.9	<.01
3022	.91	3.31	3.12	11.9	12	4.4	2.4	210	1.33	2.4	2.0	<.2	9.6	19.0	.03	.25	.06	24	.15	.028	18.6	14.0	.11	99.9	.017	1	.34	.045	.09	4.0	.04	<5	.1	<.02	1.4	.03
3024	1.03	2.84	2.33	17.0	12	3.0	1.7	122	1.00	1.3	.6	<.2	6.2	15.7	.02	.13	.19	12	.16	.031	14.8	12.4	.13	118.7	.010	<1	.43	.047	.09	5.0	.06	<5	.1	<.02	1.5	<.01
3026	.95	2.74	2.67	12.2	10	4.3	2.5	349	.90	1.8	1.4	<.2	6.0	17.3	.03	.17	.06	14	.15	.033	12.1	10.5	.10	86.2	.011	1	.32	.040	.07	2.8	.04	5	.1	<.02	1.2	.01
3028	.92	4.03	3.24	15.4	13	10.8	3.0	148	1.47	1.9	1.7	2.7	15.7	16.8	.04	.29	.06	35	.22	.042	28.4	35.2	.24	69.2	.032	<1	.33	.038	.07	3.4	.04	<5	<.1	<.02	1.5	.01
3030	1.16	2.74	2.83	15.7	11	5.1	1.9	105	.81	1.3	1.8	.2	7.5	15.2	.03	.20	.06	14	.16	.037	14.1	12.4	.12	70.7	.014	<1	.33	.022	.06	1.3	.04	7	.1	<.02	1.3	.01
3033	.76	3.15	7.16	37.5	12	2.4	4.3	1286	2.43	.8	2.1	<.2	32.1	50.7	.02	.20	.05	42	.23	.060	45.2	8.8	.33	283.0	.028	1	.69	.026	.16	1.7	.11	5	<.1	<.02	3.4	.01
5000	2.83	4.10	3.35	18.6	14	5.8	3.6	490	1.28	1.9	1.0	.7	6.8	17.8	.04	.25	.36	21	.16	.030	14.0	13.7	.12	143.8	.016	1	.42	.048	.11	2.8	.09	<5	.1	<.02	1.6	<.01
5002	1.01	3.23	2.89	17.0	9	3.1	3.0	385	1.24	1.8	1.2	.3	7.1	20.2	.04	.20	.07	22	.15	.025	12.9	10.8	.12	126.9	.021	1	.40	.043	.11	4.5	.06	9	.2	.02	1.6	<.01
5004	1.41	2.57	3.15	18.8	10	3.3	3.5	441	1.31	1.9	1.1	<.2	8.1	14.5	.05	.43	.07	26	.13	.026	16.3	7.1	.13	94.1	.020	<1	.33	.019	.08	1.4	.05	5	.1	<.02	1.5	<.01
RE 5004	1.56	2.74	3.32	19.2	9	3.7	3.7	450	1.33	1.7	1.2	<.2	8.0	14.5	.05	.35	.06	26	.14	.026	16.0	7.4	.14	99.1	.021	1	.34	.020	.09	1.4	.05	9	.1	<.02	1.6	<.01
5006	.82	3.01	3.33	21.6	11	4.4	3.7	448	1.39	2.1	1.7	<.2	8.5	16.4	.05	.21	.06	27	.16	.030	14.8	10.5	.16	103.4	.024	1	.41	.032	.10	3.0	.06	6	.2	<.02	1.9	<.01
5008	3.46	4.47	2.95	12.6	13	7.0	3.2	566	1.00	2.3	1.6	<.2	5.3	18.7	.05	.22	.04	15	.13	.023	9.9	16.3	.08	119.8	.010	1	.33	.051	.11	3.8	.04	5	.1	<.02	1.2	<.01
5023	.82	3.15	2.16	14.5	16	2.8	1.7	85	.86	1.5	.8	3.7	5.6	17.5	.03	.15	.03	12	.17	.039	15.6	10.3	.10	132.2	.011	1	.37	.040	.08	3.6	.05	<5	.1	<.02	1.3	<.01
5024	3.03	3.59	4.37	12.4	12	5.1	2.3	202	1.46	1.8	1.1	.8	5.0	11.5	.01	.26	.04	21	.11	.024	10.1	12.7	.04	184.7	.003	1	.27	.040	.11	2.8	.05	<5	.1	<.02	1.0	.01
5026	1.42	4.64	4.29	22.0	19	5.3	4.1	372	3.40	3.1	2.2	.3	23.8	26.9	.07	.43	.09	90	.25	.045	39.3	22.9	.14	139.9	.051	1	.50	.055	.13	6.2	.07	7	<.1	<.02	2.8	.01
5028	2.91	4.73	3.64	18.2	13	6.7	3.4	323	2.36	2.2	1.5	<.2	15.7	18.9	.05	.32	.09	55	.17	.032	23.4	15.0	.12	132.7	.028	1	.40	.041	.11	2.6	.05	<5	<.1	<.02	2.2	.01
STANDARD DS2	14.72	136.04	31.10	174.1	251	39.2	12.8	870	3.43	67.5	22.2	203.7	3.6	37.9	11.57	9.82	11.10	87	.58	.086	14.4	189.0	.67	159.4	.117	2	2.00	.041	.17	7.5	1.89	231	2.7	1.96	6.4	.02

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: PAN CONC. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 3 1999 DATE REPORT MAILED: Aug 13/99 SIGNED BY C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902623

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
1000	.85	9.50	10.88	62.8	48	16.6	11.0	822	2.99	6.5	.8	.5	7.9	22.8	.10	.72	.22	71	.38	.018	9.5	26.7	.50	234.4	.104	1	1.64	.014	.24	<.2	.11	15	.2	.03	5.4	.02
1001	.58	21.10	20.11	93.4	53	22.5	11.8	832	3.80	8.4	3.7	3.6	25.5	19.2	.10	1.12	.31	84	.36	.023	36.7	25.6	.68	131.0	.111	1	1.89	.012	.40	<.2	.25	38	<.1	<.02	7.3	.01
1002	.24	16.65	14.94	103.5	38	3.9	12.0	1074	3.97	2.1	3.4	2.0	33.4	11.5	.06	1.22	.16	72	.34	.048	52.8	5.5	.73	105.0	.050	<1	1.43	.008	.37	<.2	.24	45	<.1	<.02	7.1	<.01
1003	.52	7.94	11.82	78.1	16	8.8	9.9	438	3.11	4.1	2.5	<.2	15.3	25.7	.04	.63	.15	72	.27	.036	20.0	13.7	.55	145.4	.076	<1	1.57	.011	.23	<.2	.19	14	<.1	<.02	5.6	<.01
1004	.42	12.04	13.92	122.3	33	7.0	14.3	941	4.62	3.6	7.1	<.2	41.0	30.2	.04	.65	.18	120	.43	.088	45.0	12.7	.94	186.9	.152	<1	2.33	.011	.67	<.2	.50	19	.1	<.02	9.4	<.01
1005	.30	9.20	13.08	125.8	14	2.6	8.5	476	4.18	1.8	7.8	<.2	33.8	26.4	.04	.60	.13	77	.31	.058	39.0	6.2	.51	116.4	.042	<1	1.63	.012	.27	<.2	.21	11	.1	<.02	5.7	<.01
1006	1.49	15.12	14.61	110.2	103	22.5	12.8	630	4.49	10.5	.8	.3	11.7	16.2	.31	.90	.24	121	.16	.040	6.5	28.2	.88	203.8	.143	<1	3.16	.011	.16	<.2	.19	31	.3	.03	14.1	.02
1007	.84	13.45	15.16	95.5	38	14.3	13.3	844	4.19	8.6	1.4	<.2	25.8	14.7	.11	.54	.20	103	.22	.050	8.0	16.2	.93	169.0	.049	<1	3.21	.011	.21	<.2	.20	25	.1	.02	11.6	.02
5010	2.60	10.37	12.04	85.0	559	5.8	15.5	1591	3.20	1.9	3.6	<.2	21.7	16.1	.10	1.00	.24	48	.42	.071	25.5	135.2	.50	241.6	.030	<1	1.15	.025	.21	33.8	.14	28	<.1	.02	4.2	<.01
5011	.93	9.76	14.98	89.4	693	5.5	11.2	1468	3.35	1.8	6.2	.6	31.9	12.6	.08	.76	.13	51	.39	.078	22.3	17.5	.36	319.0	.030	1	1.10	.015	.31	3.9	.25	64	<.1	<.02	4.8	<.01
5012	.73	7.92	18.91	91.0	394	2.7	11.0	1245	3.30	1.9	4.8	1.3	27.2	16.3	.11	1.09	.10	48	.39	.057	35.2	18.8	.33	180.4	.014	1	1.11	.013	.25	3.8	.20	48	<.1	<.02	4.2	.04
5013	1.57	12.10	10.30	97.5	349	6.5	14.9	1373	3.73	1.6	2.2	<.2	35.6	13.0	.07	.25	.12	92	.42	.104	27.5	63.5	.94	324.2	.186	<1	1.55	.028	.60	28.8	.43	12	.1	.02	7.6	.03
5014	1.59	10.24	8.72	89.8	356	6.8	14.9	887	3.72	2.0	2.6	1.1	23.2	17.9	.09	.47	.14	85	.40	.081	27.2	72.8	.85	249.4	.131	1	1.67	.029	.45	20.4	.35	21	.1	<.02	7.6	.01
5015	4.24	17.48	11.80	93.2	503	37.8	20.8	1341	3.85	3.7	3.3	1.2	18.2	18.3	.27	1.84	.41	64	.42	.098	30.7	219.8	.58	266.2	.020	1	1.06	.020	.15	32.5	.14	133	.1	<.02	3.4	<.01
5016	2.25	19.15	11.08	87.4	380	16.7	14.2	739	3.31	6.0	7.8	2.7	15.4	35.0	.24	.58	.22	79	.53	.074	28.6	111.8	.77	275.2	.139	1	1.61	.028	.28	21.6	.23	24	.2	.03	6.3	.04
5017	2.24	25.42	9.53	72.8	459	20.8	15.6	593	2.69	7.5	3.7	5.8	10.4	49.8	.28	.67	.17	61	.70	.073	20.0	82.8	.59	274.6	.095	2	1.49	.032	.10	31.7	.11	25	.5	.03	4.7	.03
5018	.44	4.48	16.92	86.9	794	3.2	12.4	1710	3.06	.8	1.5	1.0	33.4	21.7	.05	.27	.20	66	.34	.070	35.6	15.8	.46	407.9	.100	1	.81	.017	.36	6.4	.32	7	<.1	<.02	4.6	<.01
RE 5021	.44	5.74	12.10	66.8	857	4.0	8.5	928	2.20	.9	1.1	.4	38.1	12.6	.08	.24	.20	35	.31	.073	39.2	14.0	.48	269.4	.079	<1	1.12	.017	.22	25.7	.32	<5	<.1	<.02	5.7	.03
5019	.34	5.27	21.82	67.0	703	4.0	6.1	970	2.14	1.1	1.6	.4	28.2	17.2	.06	.72	.24	23	.31	.087	37.9	13.2	.49	218.2	.005	1	1.09	.009	.16	3.3	.09	5	<.1	<.02	4.1	.01
5020	.89	18.87	118.53	107.4	576	3.5	10.9	1652	2.64	3.7	9.1	.6	39.7	22.8	1.27	1.23	.73	16	.36	.093	51.8	15.1	.08	1311.4	.001	1	.62	.010	.20	9.3	.09	<5	<.1	<.02	1.2	.04
5021	.41	6.26	12.98	66.3	1196	4.6	8.9	924	2.20	1.2	1.2	<.2	39.7	13.1	.09	.25	.23	35	.31	.075	40.8	14.6	.50	277.1	.078	1	1.18	.019	.23	26.3	.33	<5	<.1	<.02	5.9	.03
5030	1.92	6.23	18.41	56.2	945	4.4	12.7	875	1.72	2.7	1.6	<.2	28.3	14.5	.07	.58	.26	18	.29	.069	35.2	111.3	.27	305.0	.009	1	.92	.027	.15	66.8	.13	<5	<.1	<.02	3.0	<.01
5031	3.31	10.89	21.72	60.9	637	18.0	15.2	929	3.22	8.6	3.0	2.1	40.0	26.9	.09	.71	.35	43	.38	.067	29.3	157.1	.77	292.5	.037	1	1.45	.042	.15	38.0	.11	33	.2	.05	6.6	.02
5032	1.08	84.38	6.83	101.8	162	142.0	36.4	853	5.83	6.3	.8	1.2	4.1	79.8	.11	.26	.11	130	1.08	.213	19.0	49.3	3.22	191.1	.208	2	2.65	.048	.34	1.0	.16	14	.2	.02	6.9	.03
5033	1.56	38.23	12.16	97.8	439	19.8	13.5	996	3.32	13.6	1.1	2.4	18.0	42.3	.21	.95	.09	57	.75	.200	33.8	73.8	.59	237.9	.023	2	1.27	.027	.21	23.7	.05	43	<.1	<.02	4.7	.04
5034	.81	37.01	6.76	81.7	427	147.7	29.9	607	3.89	6.8	2.4	2.1	6.4	48.9	.08	.34	.08	97	.80	.144	20.6	188.6	2.77	200.9	.212	2	1.75	.029	.18	7.8	.12	19	.3	.02	5.7	.02
5035	2.16	12.36	10.39	85.0	252	11.0	17.4	877	3.10	9.2	3.2	.7	20.8	84.5	.11	.66	.17	63	.66	.099	25.3	120.8	.72	496.7	.182	1	1.74	.028	.20	46.3	.23	5	.2	.05	7.0	.01
STANDARD	14.37	131.92	30.85	167.2	245	37.4	12.5	833	3.23	63.5	24.2	205.7	3.8	32.5	11.38	9.88	11.06	84	.56	.085	14.0	176.2	.62	148.0	.120	3	1.81	.040	.16	7.7	1.95	255	2.5	1.91	5.8	.01

Standard is STANDARD DS2.

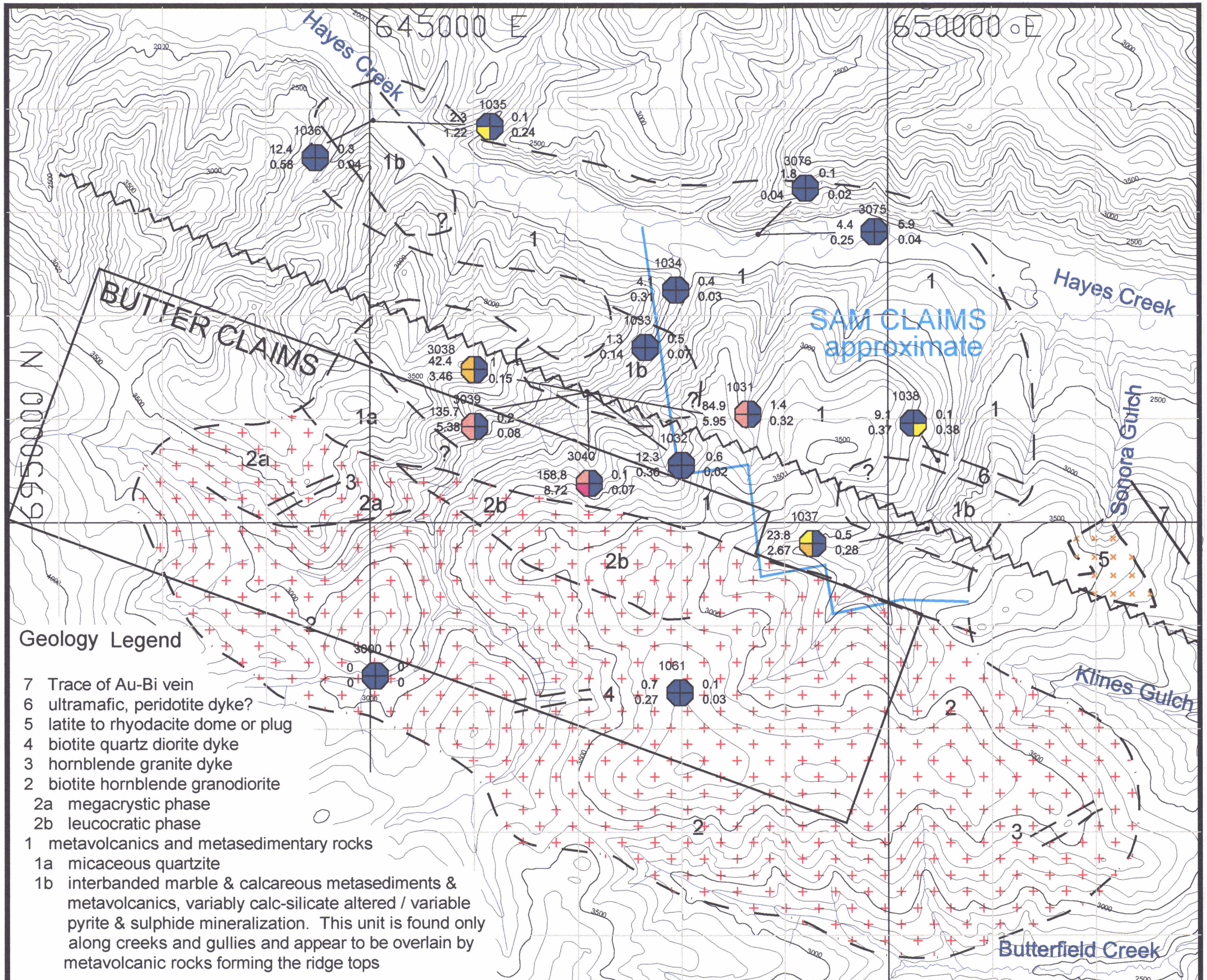
30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 3 1999 **DATE REPORT MAILED:** Aug 13/99 **SIGNED BY** .... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___

Appendix D

Plates 1 – 14



Deltango Gold Limited
Butter Claims
YUKON

Geology and Lithology Samples

1091 - Sample ID

As / Sb / Au / Bi

	Au ppb	Bi ppm	As ppm	Sb ppm
	12.5	0.35	20	1
	25			
	50	0.70	40	2
	100		80	4
	200	1.4	160	8
	400			
	>400	>1.4	>160	>8

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

Limit of Mapping

Geological Contact

Contour Interval 100 feet

Geology in the Sonora Gulch area from Payne et. al (1987)

N

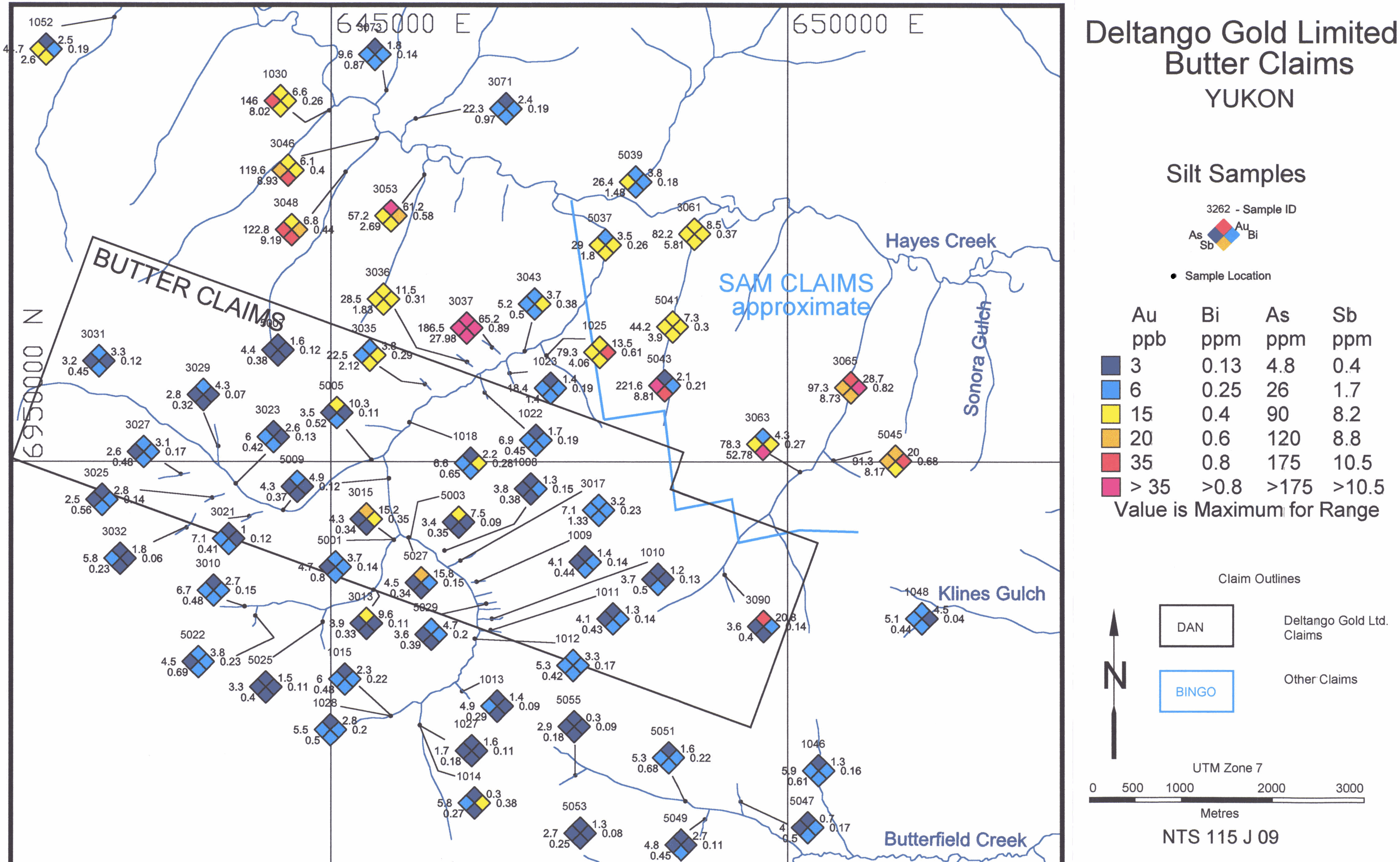
UTM Zone 7

0 500 1000 2000 3000

Metres

NTS 115 J 09

Plate 1



Deltango Gold Limited
Butter Claims
YUKON
Silt Samples
3262 - Sample ID
As Sb Au Bi
Sample Location
Au ppb | Bi ppm | As ppm | Sb ppm
3 | 0.13 | 4.8 | 0.4
6 | 0.25 | 26 | 1.7
15 | 0.4 | 90 | 8.2
20 | 0.6 | 120 | 8.8
35 | 0.8 | 175 | 10.5
> 35 | >0.8 | >175 | >10.5
Value is Maximum for Range
Claim Outlines
DAN
Deltango Gold Ltd. Claims
BINGO
Other Claims
N
UTM Zone 7
0 500 1000 2000 3000
Metres
NTS 115 J 09
645000 E
650000 E
6950000 N
BUTTER CLAIMS
SAM CLAIMS approximate
Hayes Creek
Sonora Gulch
Klines Gulch
Butterfield Creek

Plate 2

Deltango Gold Limited
Butter Claims
YUKON

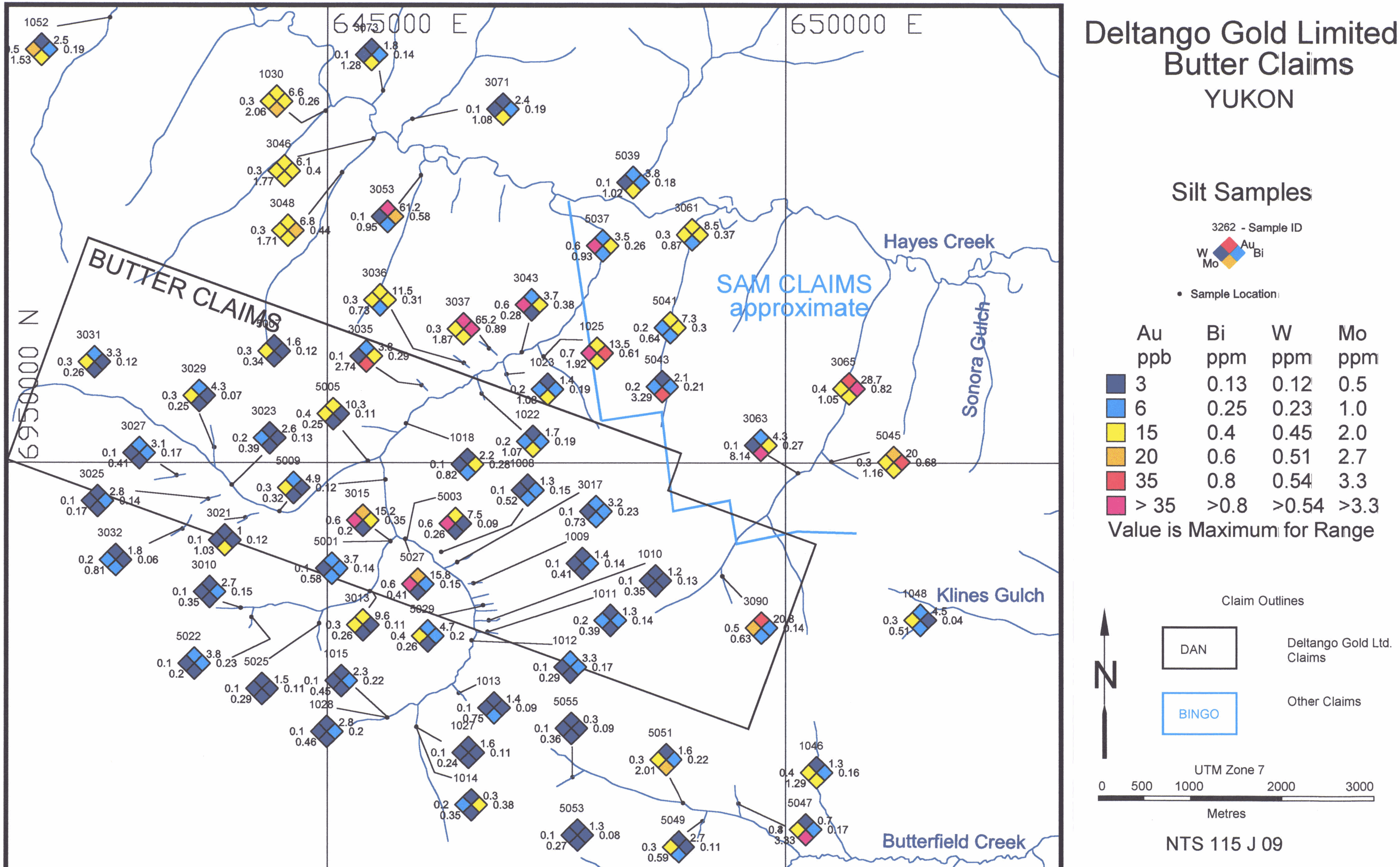
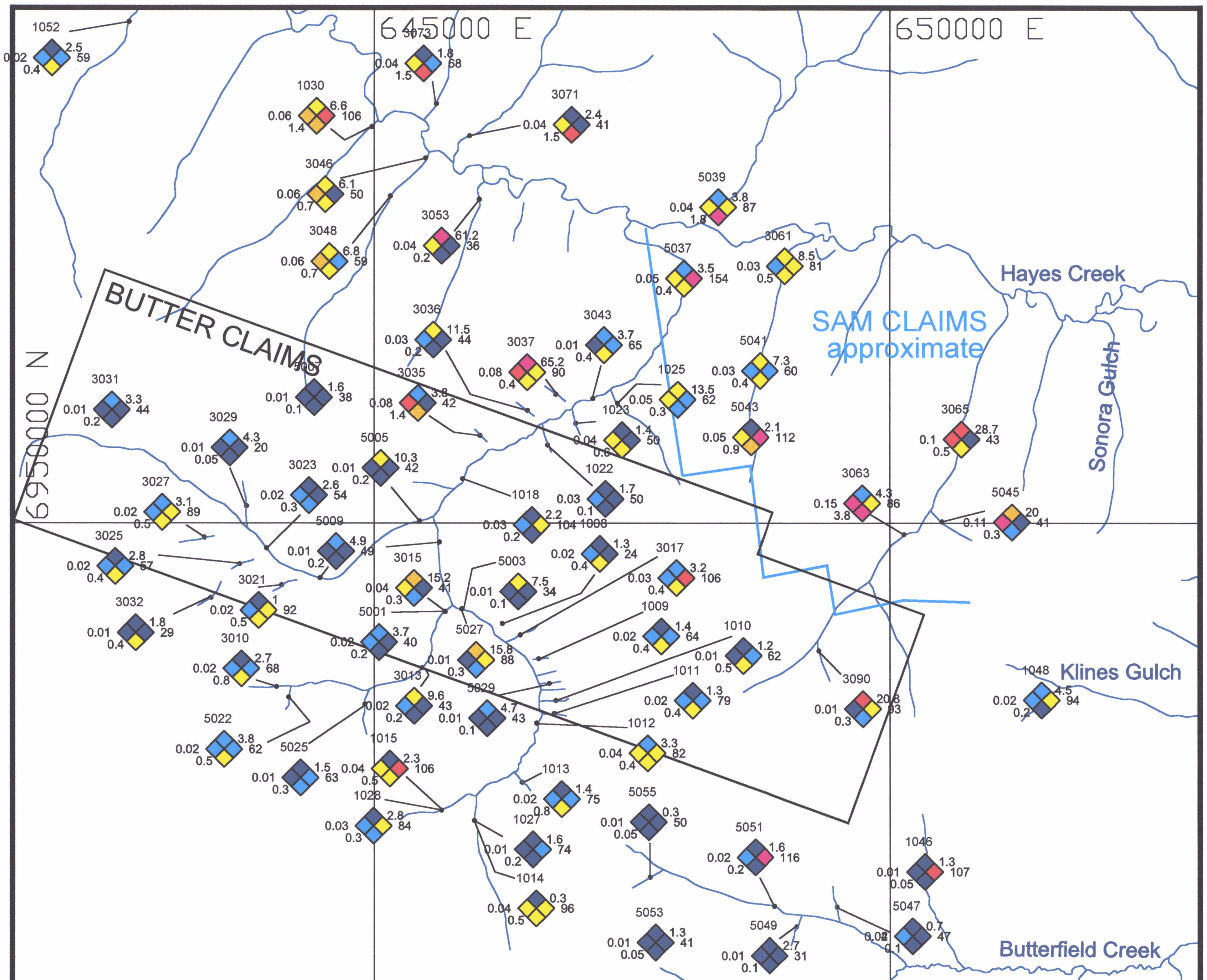


Plate 3



Deltango Gold Limited
Butter Claims
YUKON

Silt Samples

3262 - Sample ID

Te Se Au Hg

• Sample Location

	Au ppb	Hg ppb	Te ppm	Se ppm
(dark blue)	3	55	.012	.24
(blue)	6	80	.03	.38
(yellow)	15	98	.05	.80
(orange)	20	105	.072	1.4
(red)	35	110	0.1	1.7
(pink)	> 35	>110	>0.1	>1.7

Value is Maximum for Range

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

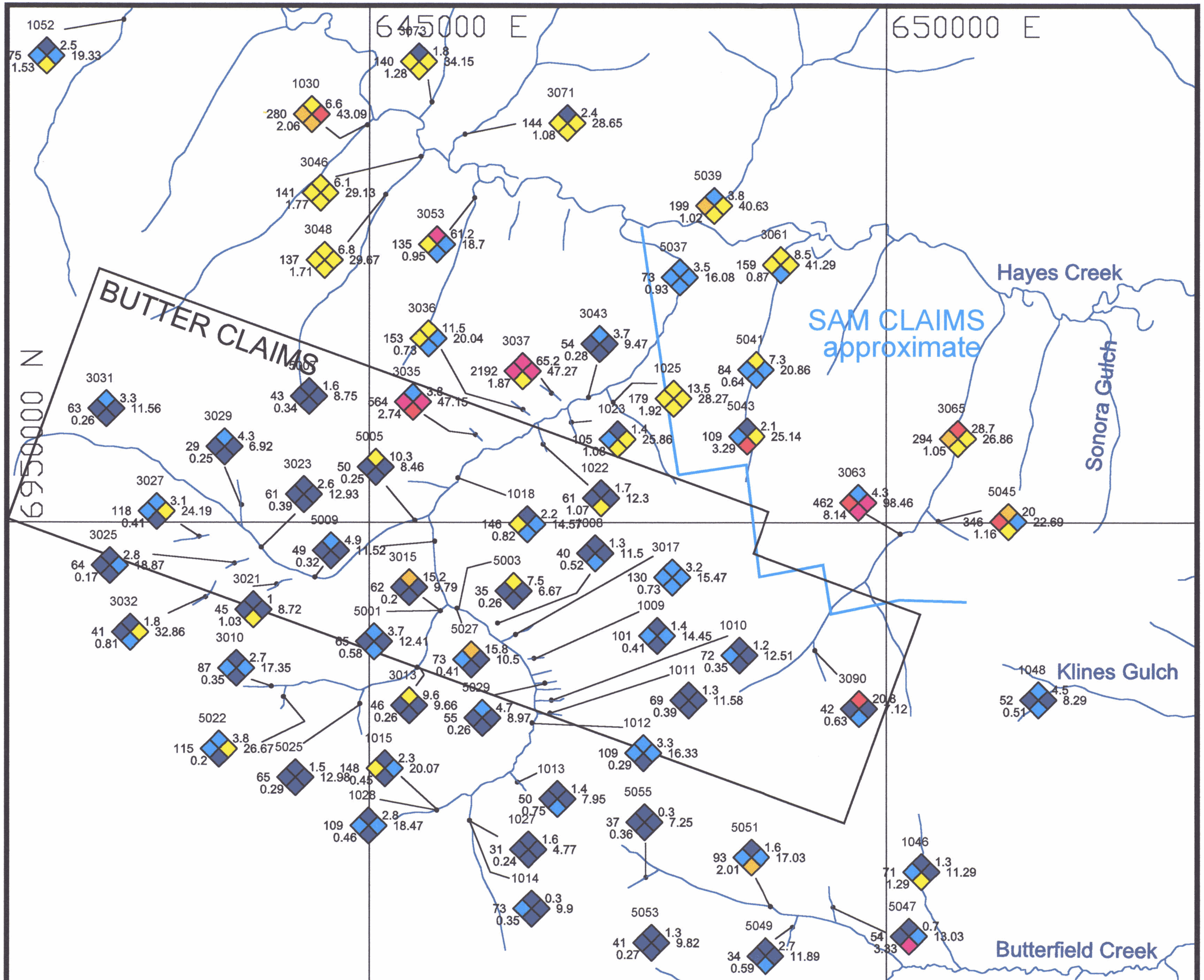
UTM Zone 7

0 500 1000 2000 3000

Metres

NTS 115 J 09

Plate 4



Deltango Gold Limited
Butter Claims
YUKON

Silt Samples

3262 - Sample ID

Ag Au Cu Mo

• Sample Location

Au ppb	Cu ppm	Ag ppm	Mo ppm
3	13	70	0.5
6	23	130	1.0
15	34	195	2.0
20	42	345	2.7
35	46	560	3.3
> 35	> 46	>560	>3.3

Value is Maximum for Range

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

UTM Zone 7

0 500 1000 2000 3000

Metres

NTS 115 J 09

Plate 5

Deltango Gold Limited
Butter Claims
YUKON

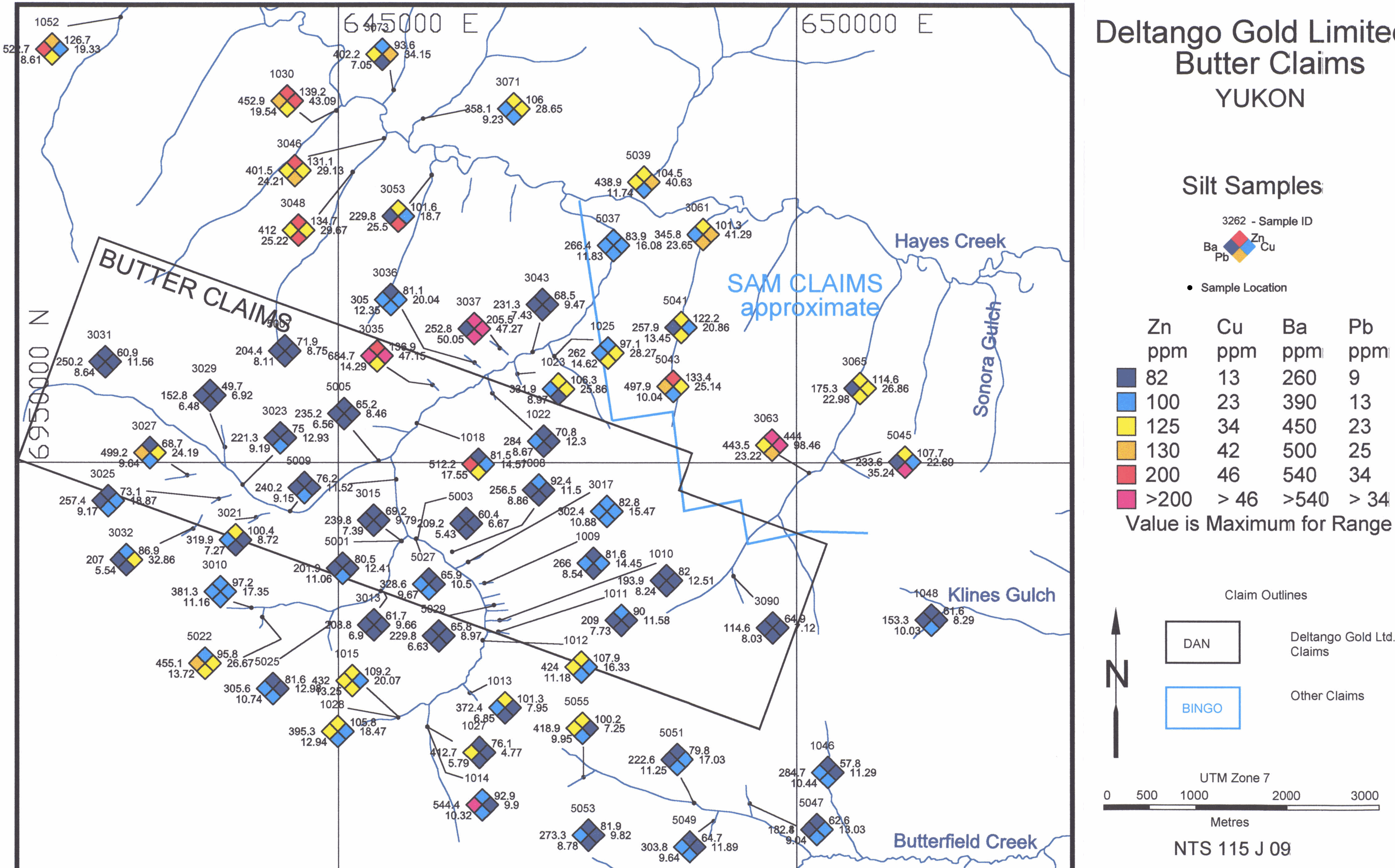
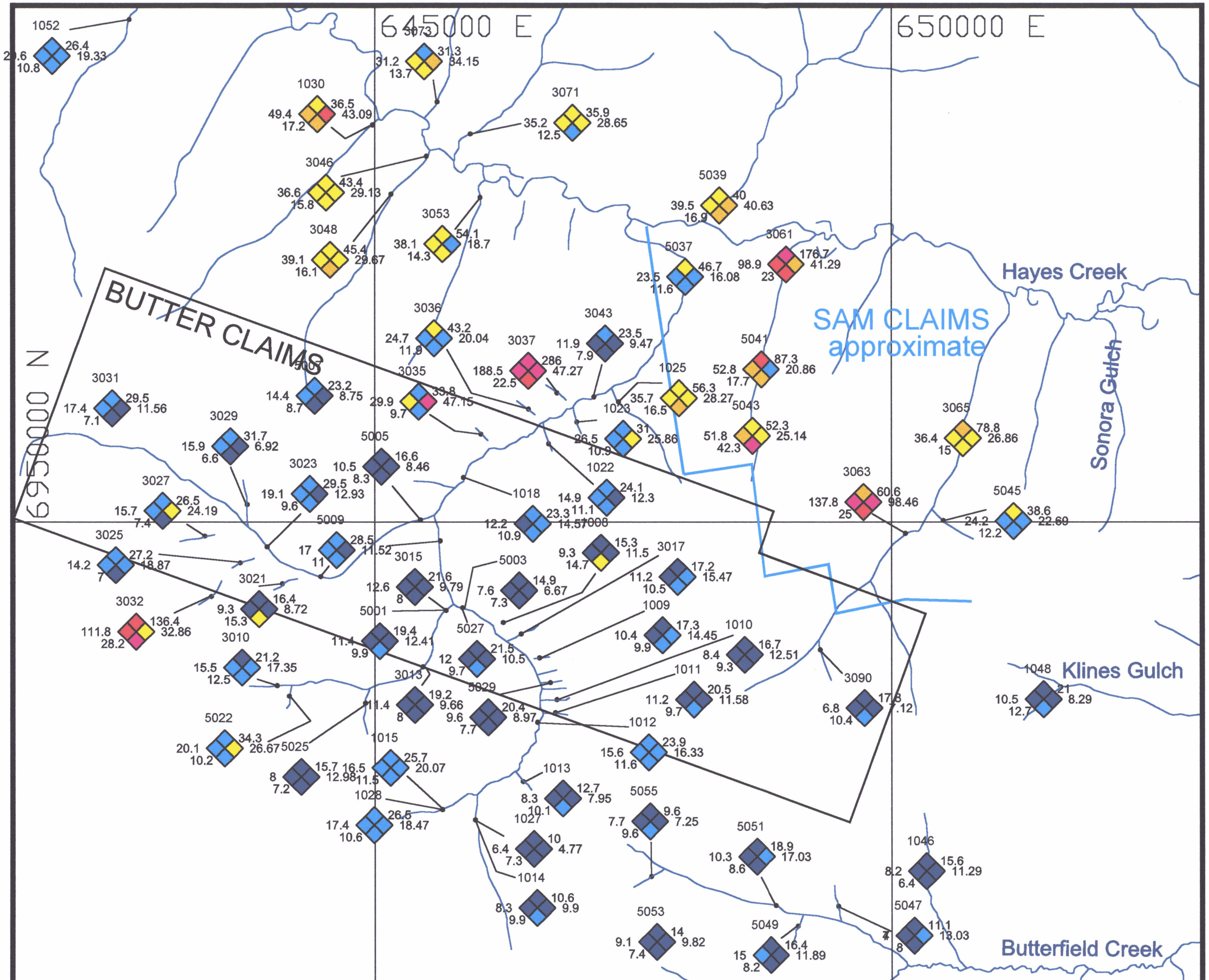


Plate 6

Deltango Gold Limited
Butter Claims
YUKON



Silt Samples

3262 - Sample ID

Ni, Cr, Cu, Co

• Sample Location

Cr ppm	Cu ppm	Ni ppm	Co ppm
22	13	14	9.5
35	23	29	13
57	34	48	16
86	42	98	22
174	46	136	28
>174	> 46	>136	> 28

Value is Maximum for Range

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

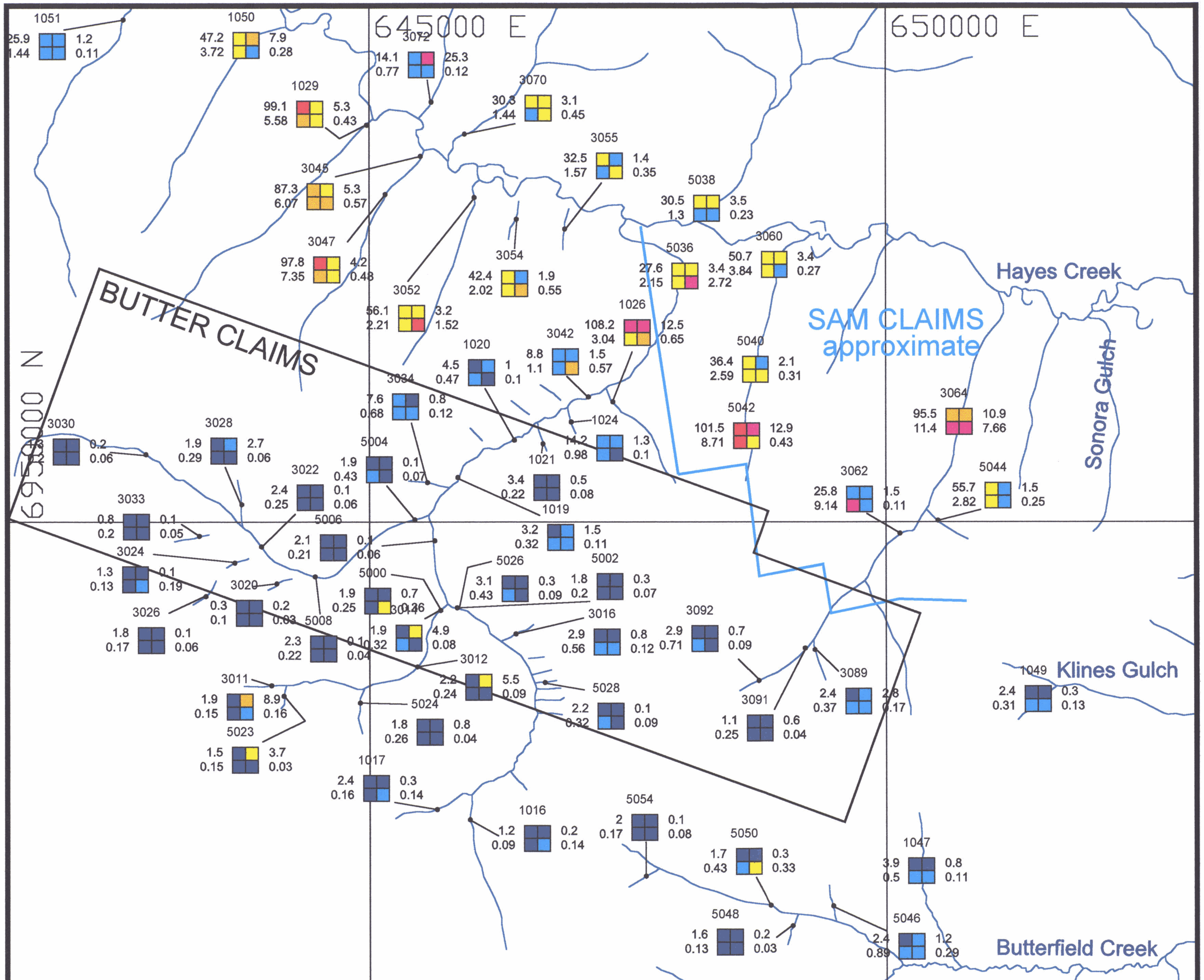
UTM Zone 7

0 500 1000 2000 3000

Metres

NTS 115 J 09

Plate 7



Deltango Gold Limited Butter Claims
YUKON

Pan Samples

5148 - Sample ID
As Au
Sb Bi

• Sample Location

Au ppb	Bi ppm	As ppm	Sb ppm
0.8	0.1	5	0.3
3.0	0.3	27	1.8
7.3	0.53	84	5.4
11.8	1.4	96	8.6
12.4	1.75	102	9.1
>12.4	>1.75	>102	>9.1

Value is Maximum for Range

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

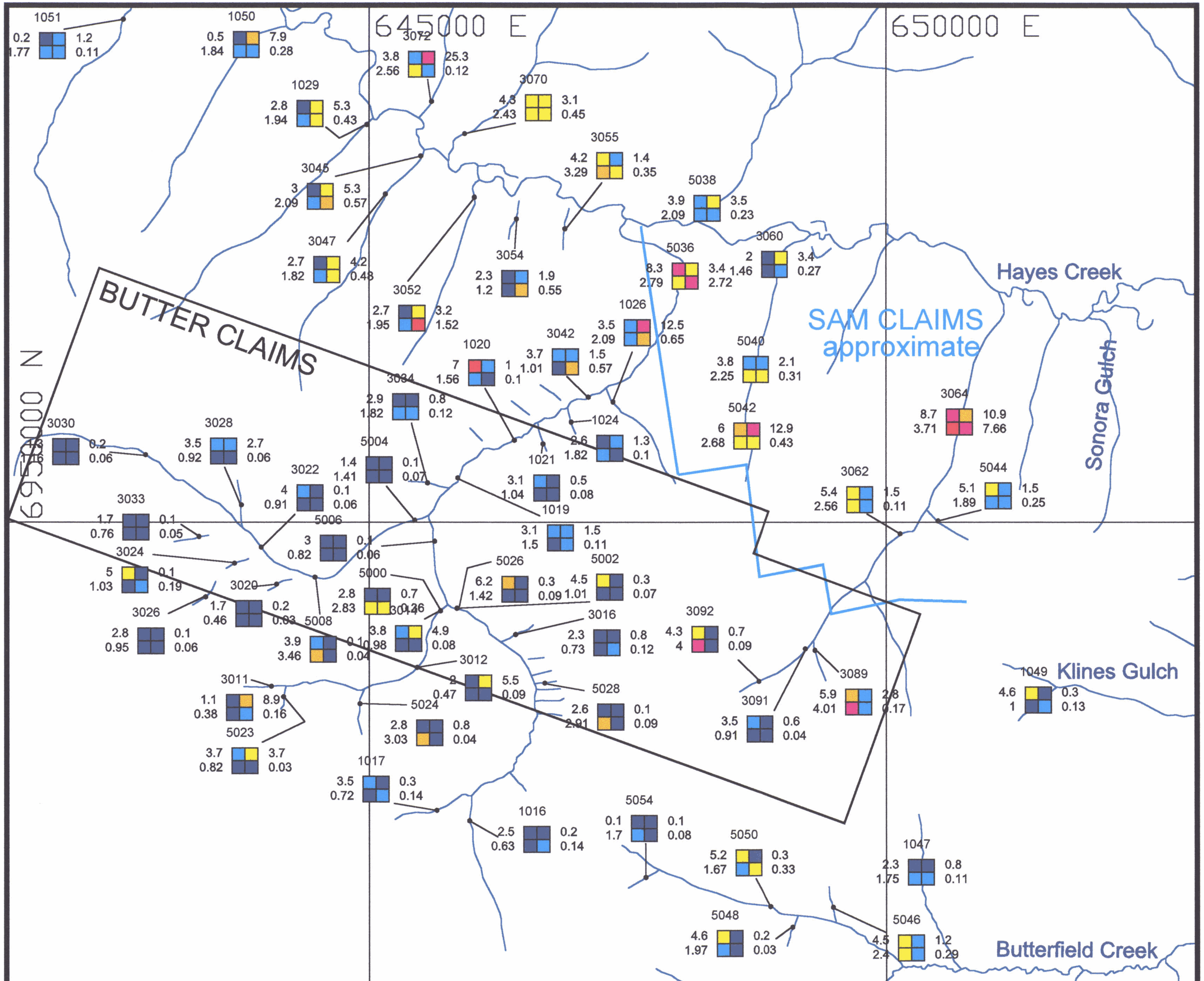
UTM Zone 7

0 500 1000 2000 3000

Metres

NTS 115 J 09

Plate 8



Deltango Gold Limited
Butter Claims
YUKON

Pan Samples

W / Mo — 5148 - Sample ID; Au; Bi

• Sample Location

Au ppb	Bi ppm	W ppm	Mo ppm
0.8	0.1	3	1.5
3.0	0.3	4	2.1
7.3	0.53	5.4	2.9
11.8	1.4	6.2	3.5
12.4	1.75	8	3.8
>12.4	>1.75	> 8	>3.8

Value is Maximum for Range

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

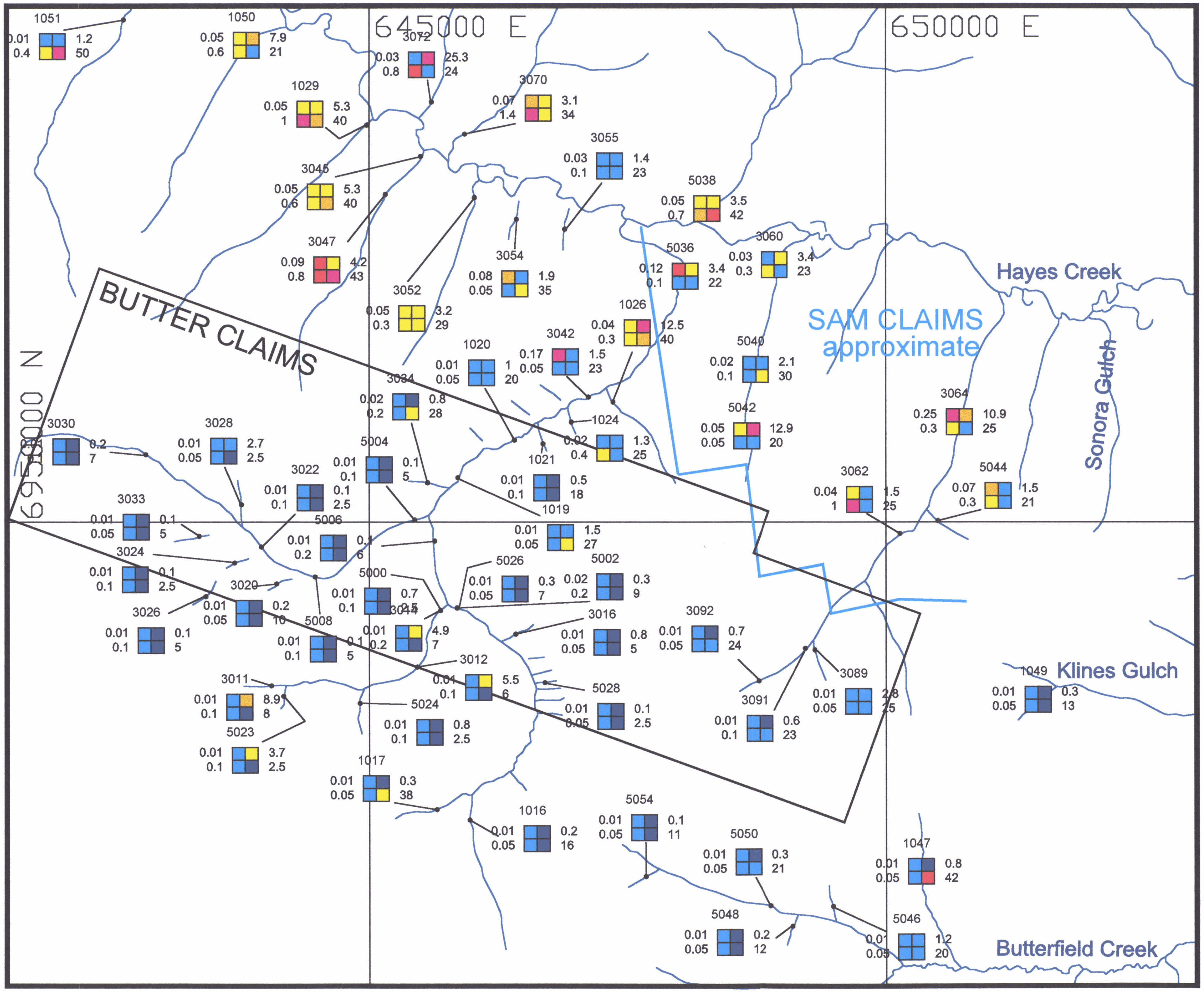
UTM Zone 7

0 500 1000 2000 3000

Metres

NTS 115 J 09

Plate 9



Deltango Gold Limited
Butter Claims
YUKON

Pan Samples

5148 - Sample ID
Te Au
Se Hg

• Sample Location

	Au ppb	Hg ppb	Te ppm	Se ppm
dark blue	0.8	19	.005	.045
blue	3.0	25.5	.032	.23
yellow	7.3	38	.062	.64
orange	11.8	40	.085	.75
red	12.4	42	.16	.96
pink	>12.4	> 42	>.16	>.16

Value is Maximum for Range

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

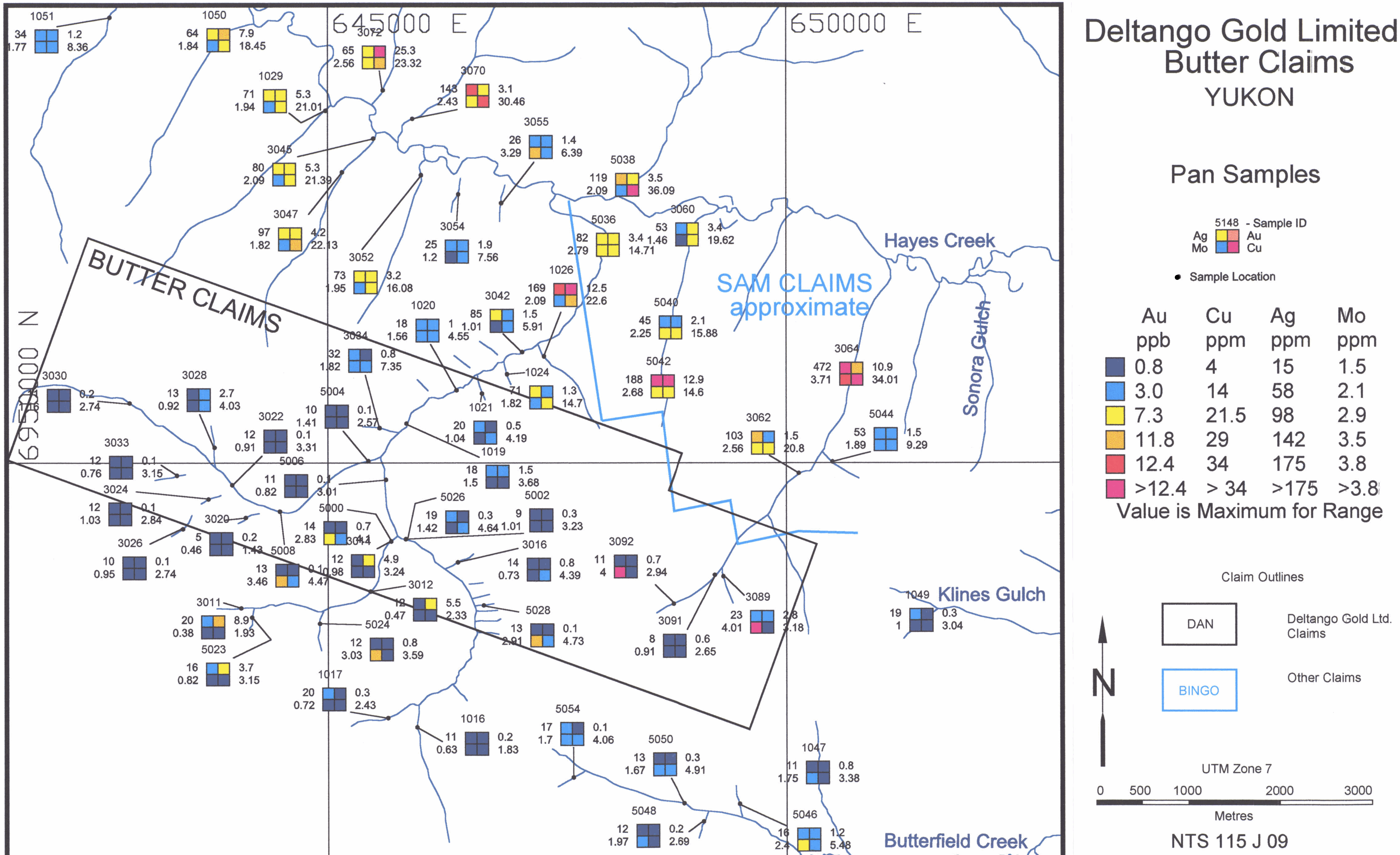
UTM Zone 7

0 500 1000 2000 3000

Metres

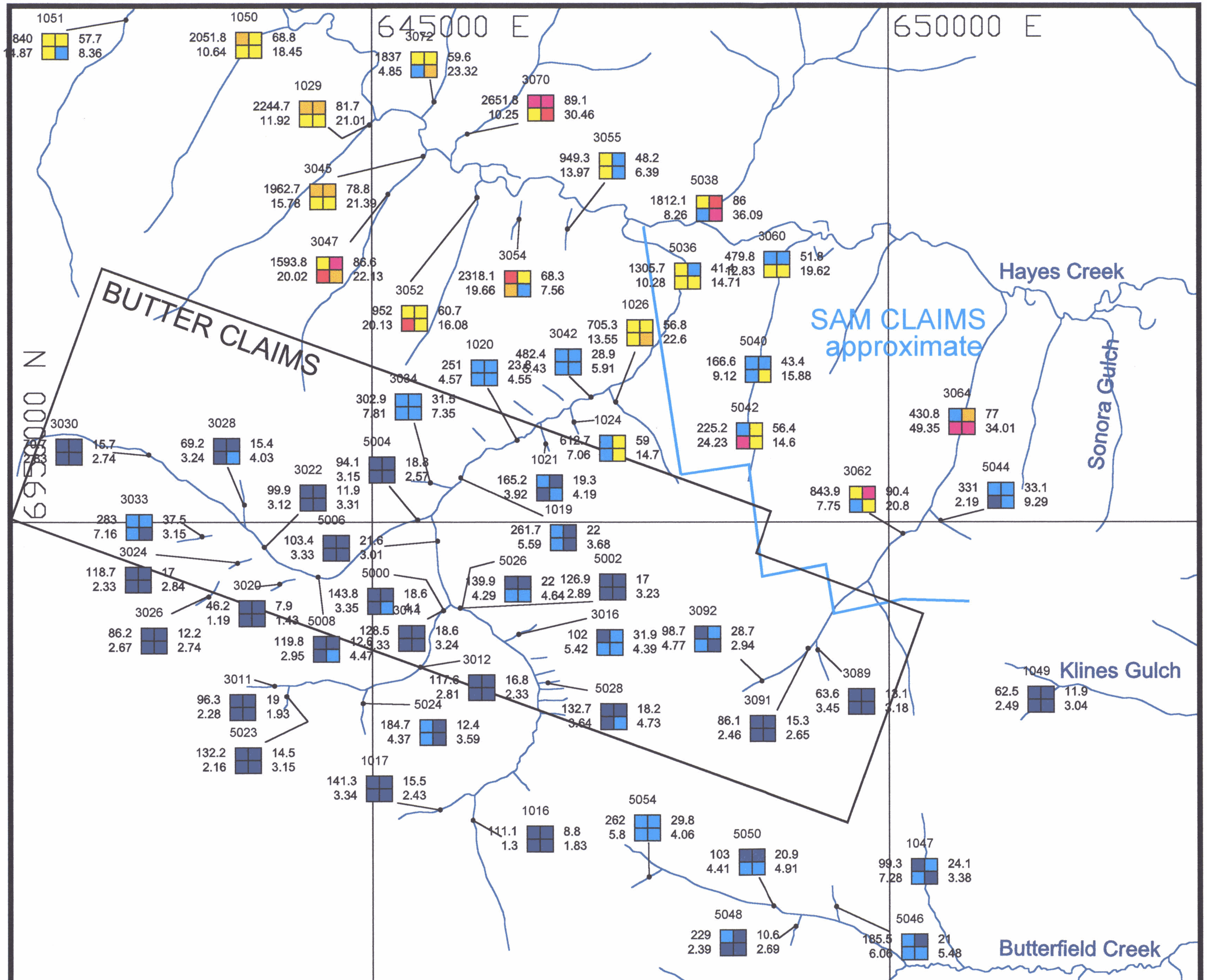
NTS 115 J 09

Plate 10



Deltango Gold Limited
Butter Claims
YUKON
Pan Samples
5148 - Sample ID
Ag Au
Mo Cu
Sample Location
Au ppb | Cu ppm | Ag ppm | Mo ppm
0.8 | 4 | 15 | 1.5
3.0 | 14 | 58 | 2.1
7.3 | 21.5 | 98 | 2.9
11.8 | 29 | 142 | 3.5
12.4 | 34 | 175 | 3.8
>12.4 | > 34 | >175 | >3.8
Value is Maximum for Range
Claim Outlines
DAN
Deltango Gold Ltd. Claims
BINGO
Other Claims
N
UTM Zone 7
0 500 1000 2000 3000
Metres
NTS 115 J 09
645000 E
650000 E
6950000 N
BUTTER CLAIMS
SAM CLAIMS approximate
Hayes Creek
Sonora Gulch
Klines Gulch
Butterfield Creek

Plate 11



Deltango Gold Limited
Butter Claims
YUKON

Pan Samples

5148 - Sample ID
Ba Zn
Pb Cu

● Sample Location

	Zn ppm	Cu ppm	Ba ppm	Pb ppm
(dark blue)	22	4	150	4
(blue)	54	14	700	9.5
(yellow)	76	21.5	1850	19
(orange)	84	29	2250	20
(red)	86	34	2350	24
(pink)	>86	> 34	>2350	>24

Value is Maximum for Range

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

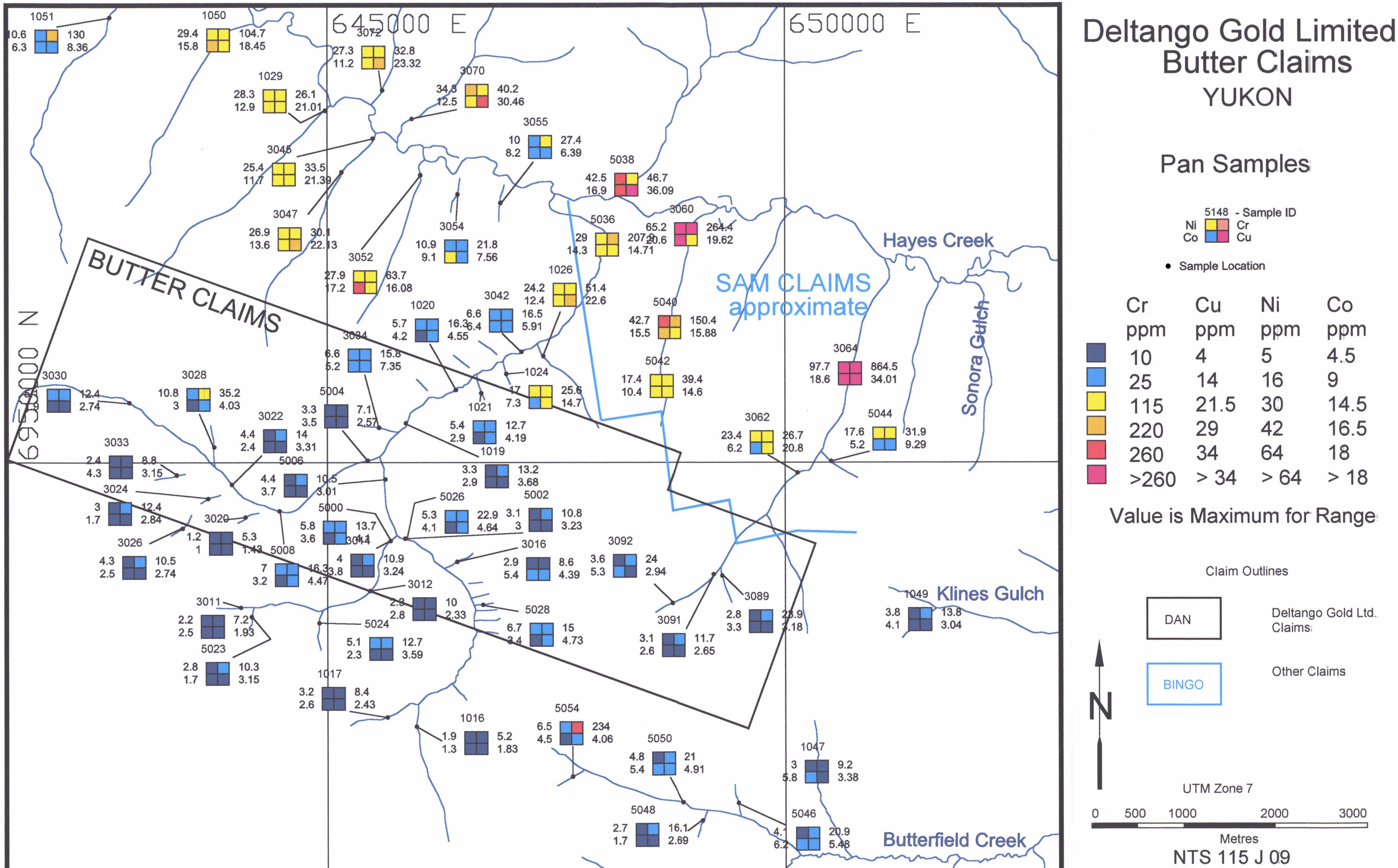
UTM Zone 7

0 500 1000 2000 3000

Metres

NTS 115 J 09

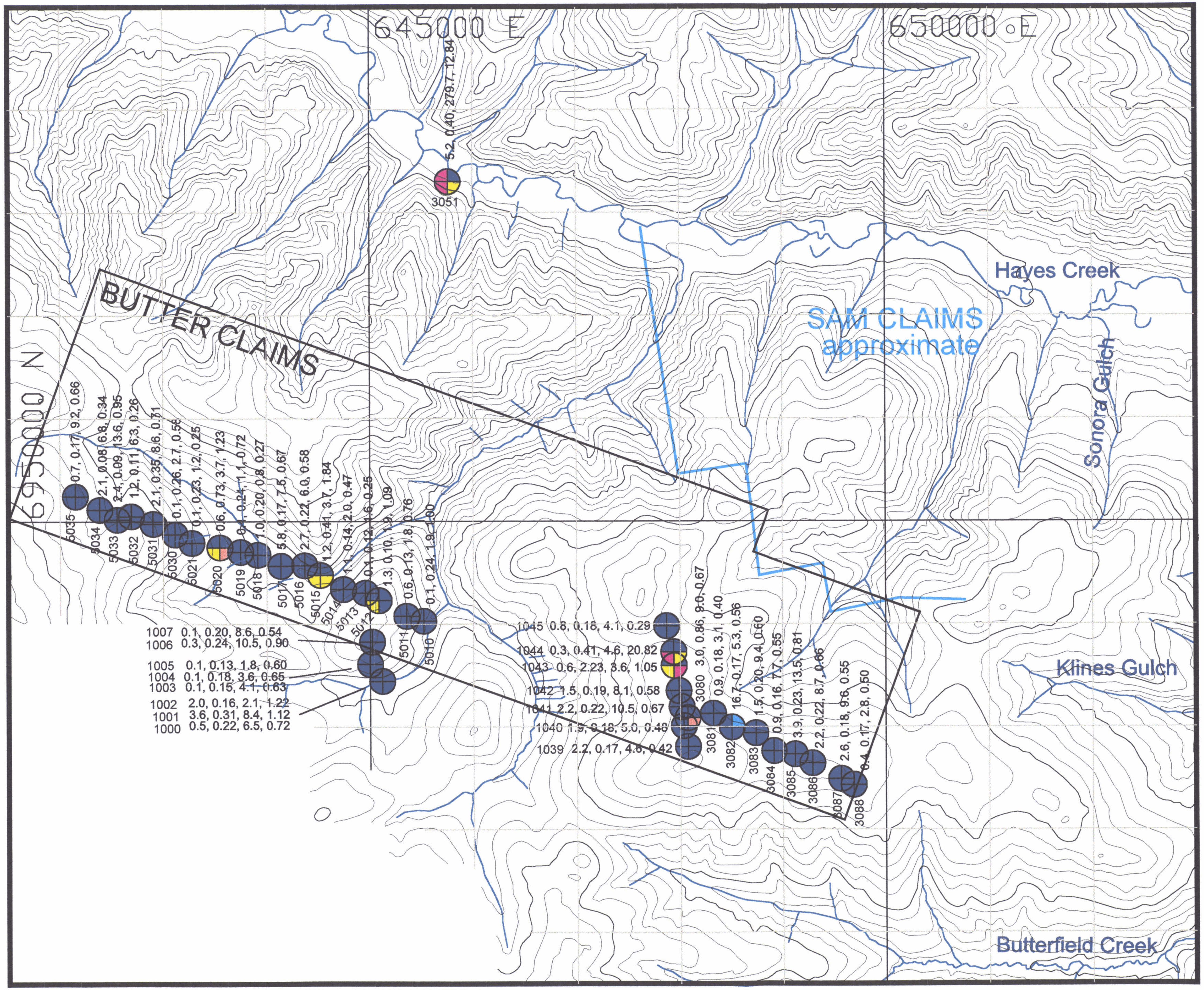
Plate 12



Deltango Gold Limited
Butter Claims
YUKON
Pan Samples
5148 - Sample ID
Ni Cr
Co Cu
Sample Location
Cr ppm: 10, 25, 115, 220, 260, >260
Cu ppm: 4, 14, 21.5, 29, 34, > 34
Ni ppm: 5, 16, 30, 42, 64, > 64
Co ppm: 4.5, 9, 14.5, 16.5, 18, > 18
Value is Maximum for Range
Claim Outlines
DAN
Deltango Gold Ltd. Claims
BINGO
Other Claims
N
UTM Zone 7
0 500 1000 2000 3000
Metres
NTS 115 J 09
645000 E
650000 E
6955000 N
BUTTER CLAIMS
SAM CLAIMS approximate
Hayes Creek
Sonora Gulch
Klines Gulch
Butterfield Creek

Plate 13

Deltango Gold Ltd.
Butter Claims
YUKON
Soil Samples



As / Au
Sb / Bi

Sample ID	Au,	Bi,	As,	Sb
3173	17.8,	0.21,	21.1,	0.78

	Au ppb	Bi ppm	As ppm	Sb ppm
■	12.5	0.35	20	1
■	25			
■	50	0.70	40	2
■	100		80	4
■	200	1.4	160	8
■	400			
■	>400	>1.4	>160	>8

Claim Outlines

DAN — Deltango Gold Ltd. Claims

BINGO — Other Claims

N

NTS 115 J 09

Contour Interval 100 feet

UTM Zone 7

0 500 1000 2000 3000

Metres

Plate 14

Appendix E

Statement of Qualifications

Statement of Qualifications

I, Gregg Jilson, of 38 Dawson Road, Whitehorse, Yukon Y1A 5T6 hereby certify:

1. I designed and supervised the work programme described in this report;
2. I visited the Butter claims between 25 and 29 July, 1999;
3. I am a graduate of the University of California at Davis and was granted a degree of Bachelor of Science with a major in Geology in 1972;
4. I have been engaged in exploration in Yukon since 1969 and have managed exploration programmes in Yukon since 1975;
5. I am an officer of Deltango Gold Limited and am authorized by that company to submit this report on its behalf.

Dated this third day of December in the year 2000 at Whitehorse Yukon

Gregg Jilson