



Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 4648	Intern Journal nr 2137/00	Internt arkiv nr	Rapport lokalisering	Gradering Fortrolig
Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra Crew Development Corporation	Fortrolig pga Muting	Fortrolig fra dato:
Tittel Røros field: Analyzes of base metals compared.				
Forfatter Schlatter, Denis		Dato År 2000	Bedrift (Oppdragsgiver og/eller oppdragstaker) Crew Development Corporation	
Kommune Røros Haltdalen Tydal Meråker	Fylke Sør-Trøndelag	Bergdistrikt	1: 50 000 kartblad 17201 17202 17203 17204 17211 17212 17213 17214	1: 250 000 kartblad Røros Trondheim
Fagområde Geokjemi	Dokument type		Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Kongens Lergruvbakken Klinkenberg Svenskmenna Rørosmenna Gressli Anna (in Meråker)	
Råstoffgruppe Malm/metall	Råstofftype Cu Zn			
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse				

Røros field: analyzes of base metals compared

Smpl number	399735	399733	399740	399689	400056	399773	399777	399874	399915
District	Røros N	Røros N	Røros N	Røros E	Røros E	Kjøli	Kjøli	Tydal	Meråker
Prospect	Kongens C	Kongens C	Lergr bk	Klinkenb.	Klinkenb.	Svenskm	Rørosm	Gressli	Anna
Prospect #	1	1	2	32	32	62	63	75	93
UTM-E	617724	617724	619682	635861	635941	628531	629032	624407	637563
UTM-N	6950896	6950896	6948740	6958691	6958551	6968978	6969607	6993665	7023843
Zn ppm (ICAY50 done by XRAL)	68600	43200	202000	141000	105000	35400	114000	300	129000
Zn ppm (ICP done by STL)	68000	44000	198100	128000	107300	36000	115000	181	121800
Cu ppm (ICAY50 done by XRAL)	82260	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Cu ppm (ICP90 done by XRAL)	>30000	14130	15050	11620	24380	8360	7780	168	8770
Cu ppm (ICP done by STL)	82000	17000	16000	16000	26000	8965	8817	114	9070
Pb ppm (ICP90 done by XRAL)	1390	1850	6340	4450	3920	289	1660	42080	2250
Pb ppm (ICP done by STL)	1283	1753	5239	3752	2877	314	1713	37400	1738
As ppm (AAH70 done by XRAL)	130	1.2	49.9	123	261	503	38.9	126	62.5
As ppm (ICP done by STL)	108	< 5	49	95	191	221	123	82	91
Sb ppm (ICP90 done by XRAL)	469	310	448	429	556	519	390	136	486
Sb ppm (ICP done by STL)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	13	< 5
Fe % (ICP90 done by XRAL)	28	26.7	21.6	26.6	32.5	34.7	19.7	2.71	22.5
Fe % (ICP done by STL)	> 10.00	> 10.00	27.5	> 10.00	> 10.00	> 10.00	26	2.34	> 10.00
Mn ppm (ICP90 done by XRAL)	326	535	1270	177	203	125	515	3900	790
Mn ppm (ICP done by STL)	249	542	1098	147	162	70	401	2821	692

n.a. = not analyzed

XRAL= XRAL Laboratories, SGS Group, Don Mills, Ontario

STL= Severn Trent Laboratories Ltd. Merseyside, UK

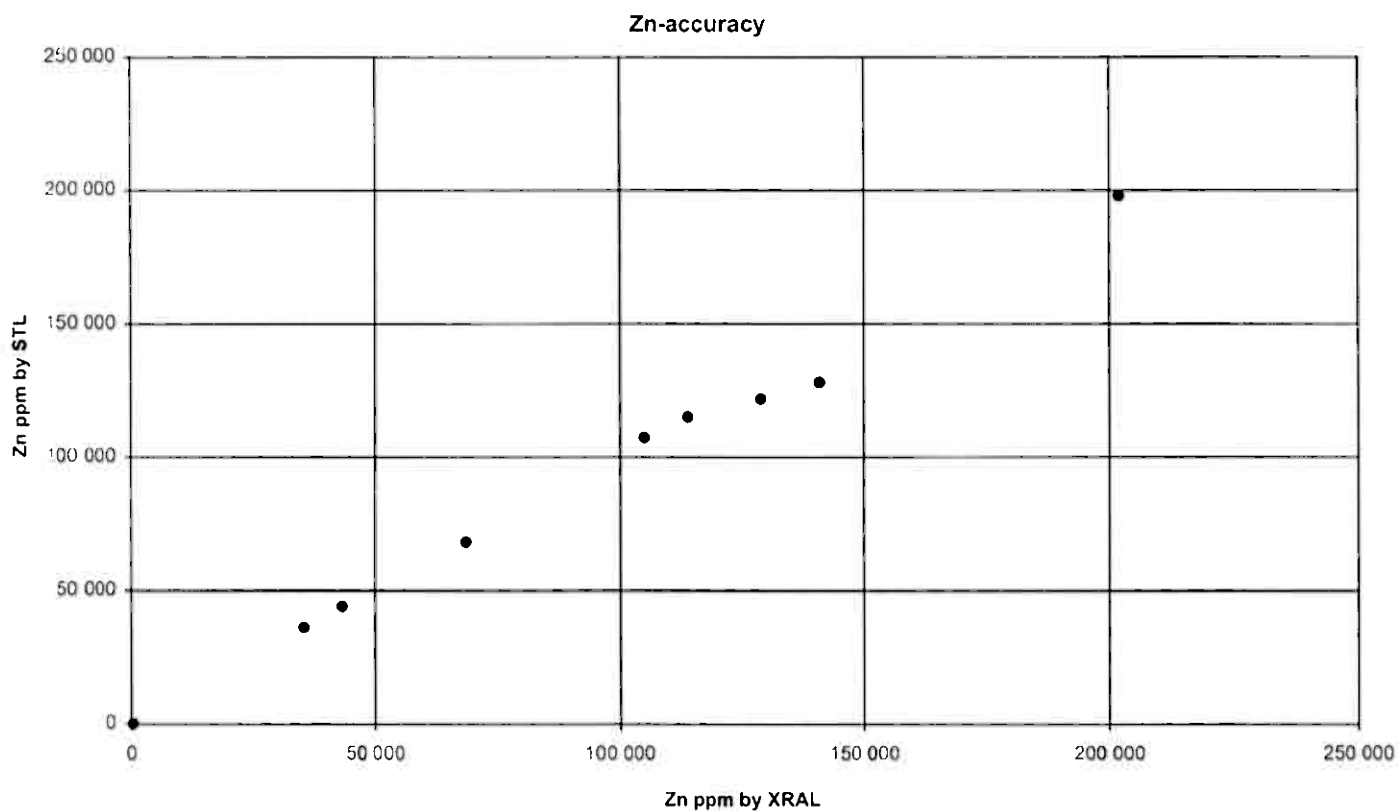


Figure 1: Zn is done by a ICP by STL, XRAL used a more advanced assay technique

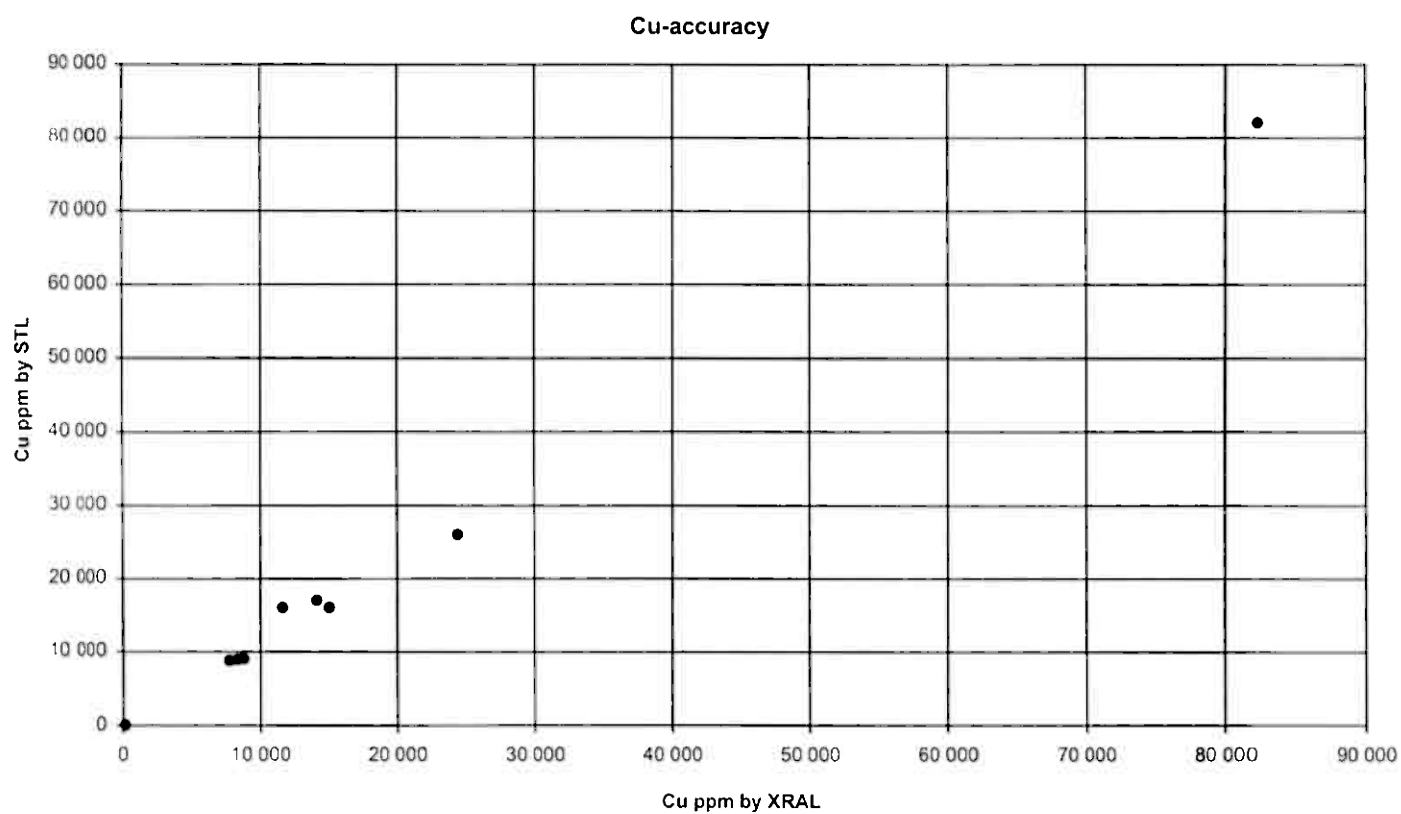


Figure 2: Cu is done by a ICP by STL, XRAL used a more advanced assay technique

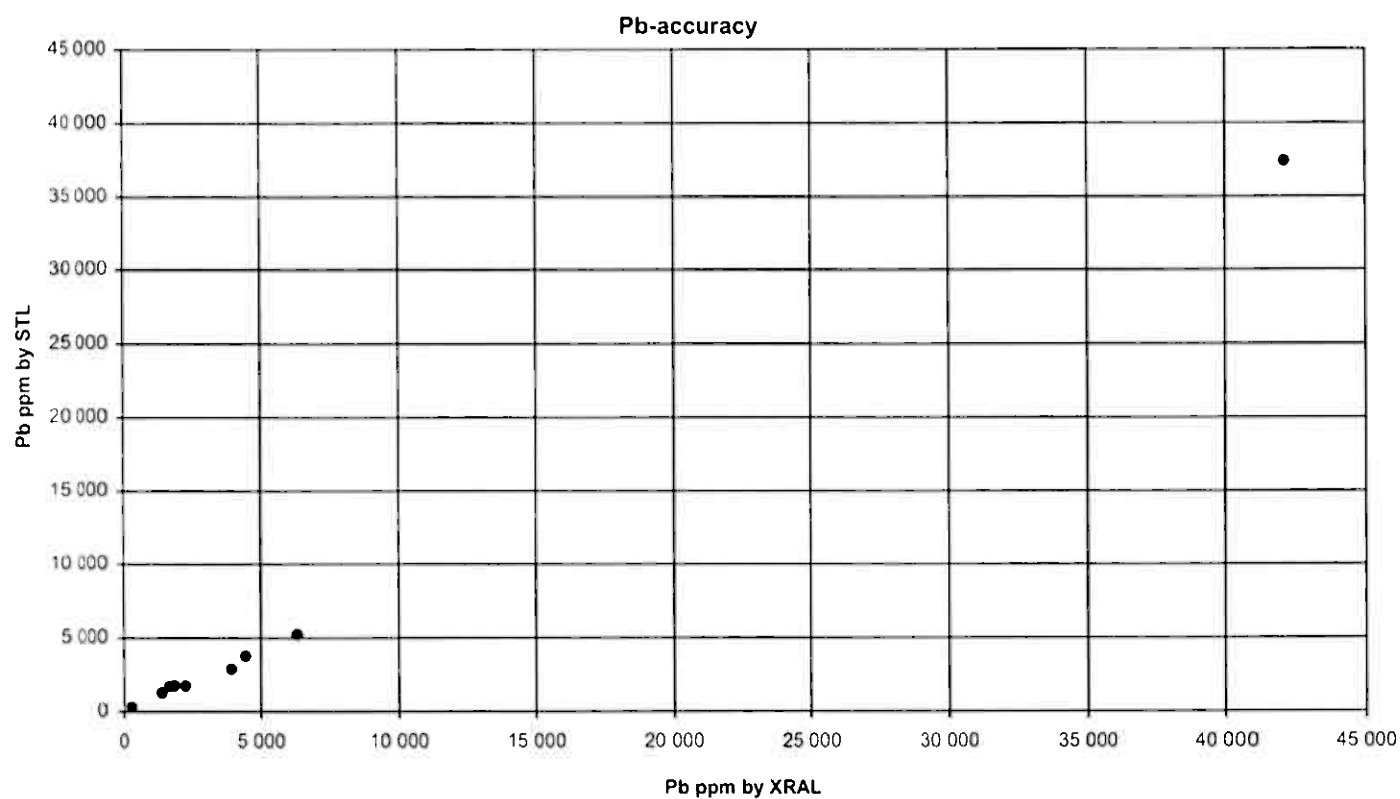


Figure 3: Pb is done by a ICP by STL, XRAL used a more efficient dissolution prior to ICP

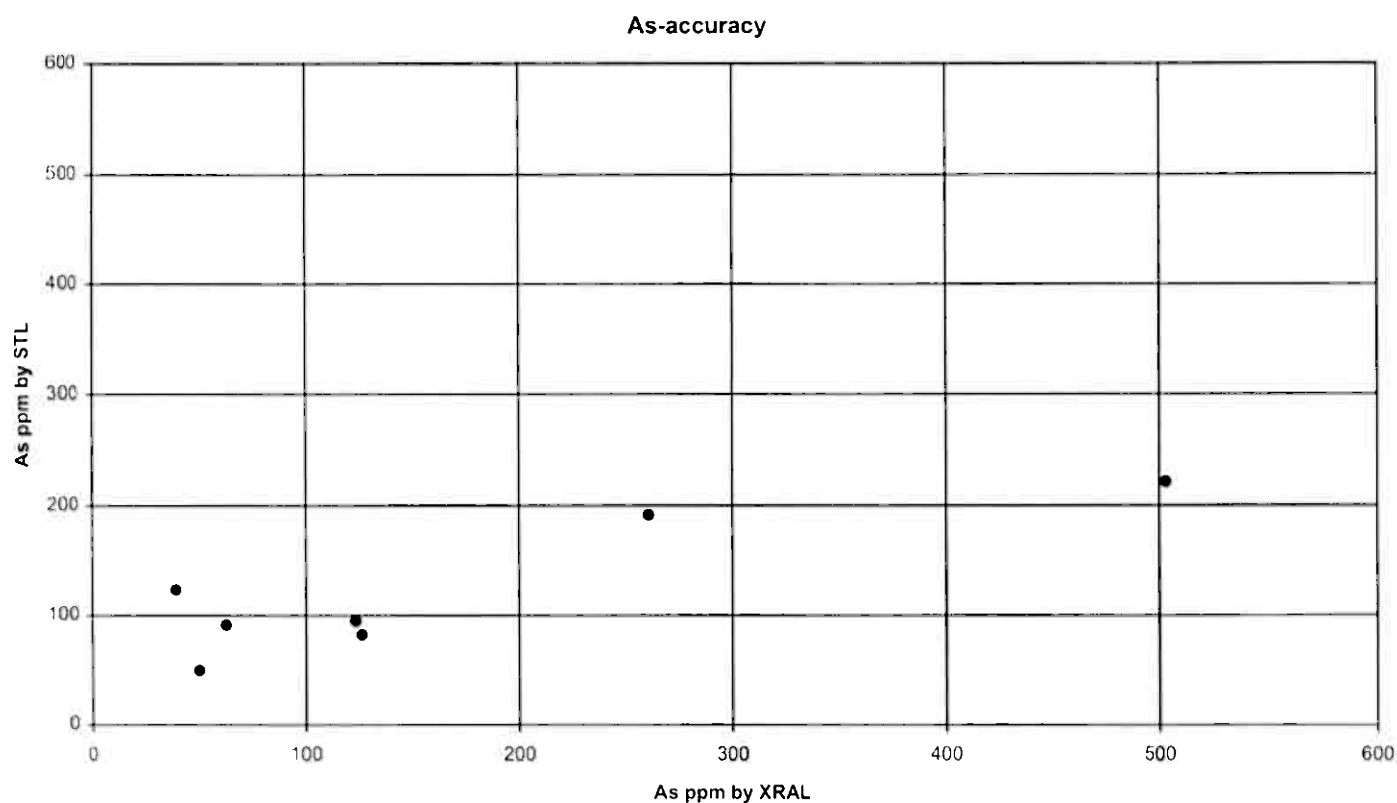


Figure 4: As is done by a ICP by STL, XRAL used a more efficient dissolution prior to ICP

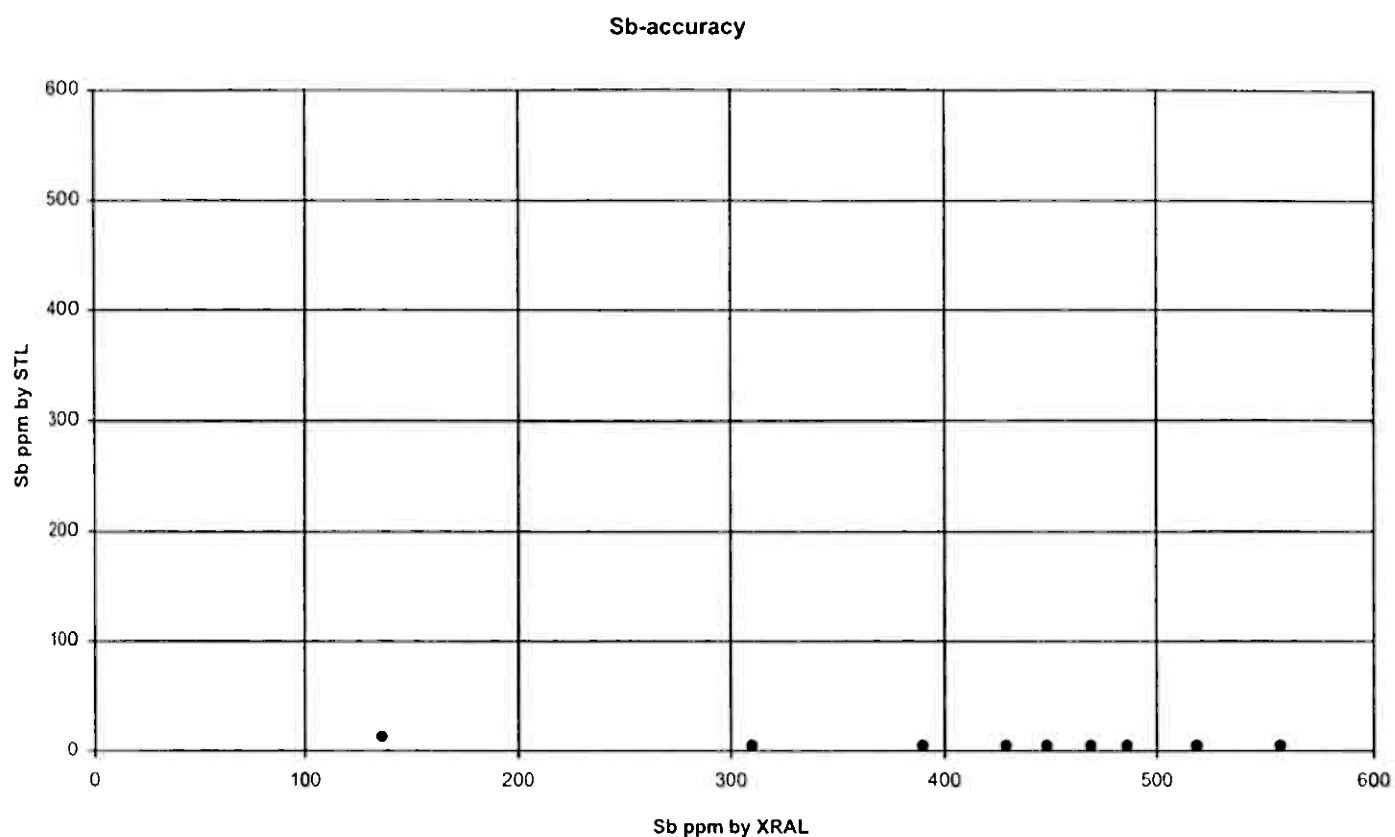


Figure 5: Sb is done by a ICP by STL and lower DL was 5 ppm, XRAL used a fusion digestion prior to ICP

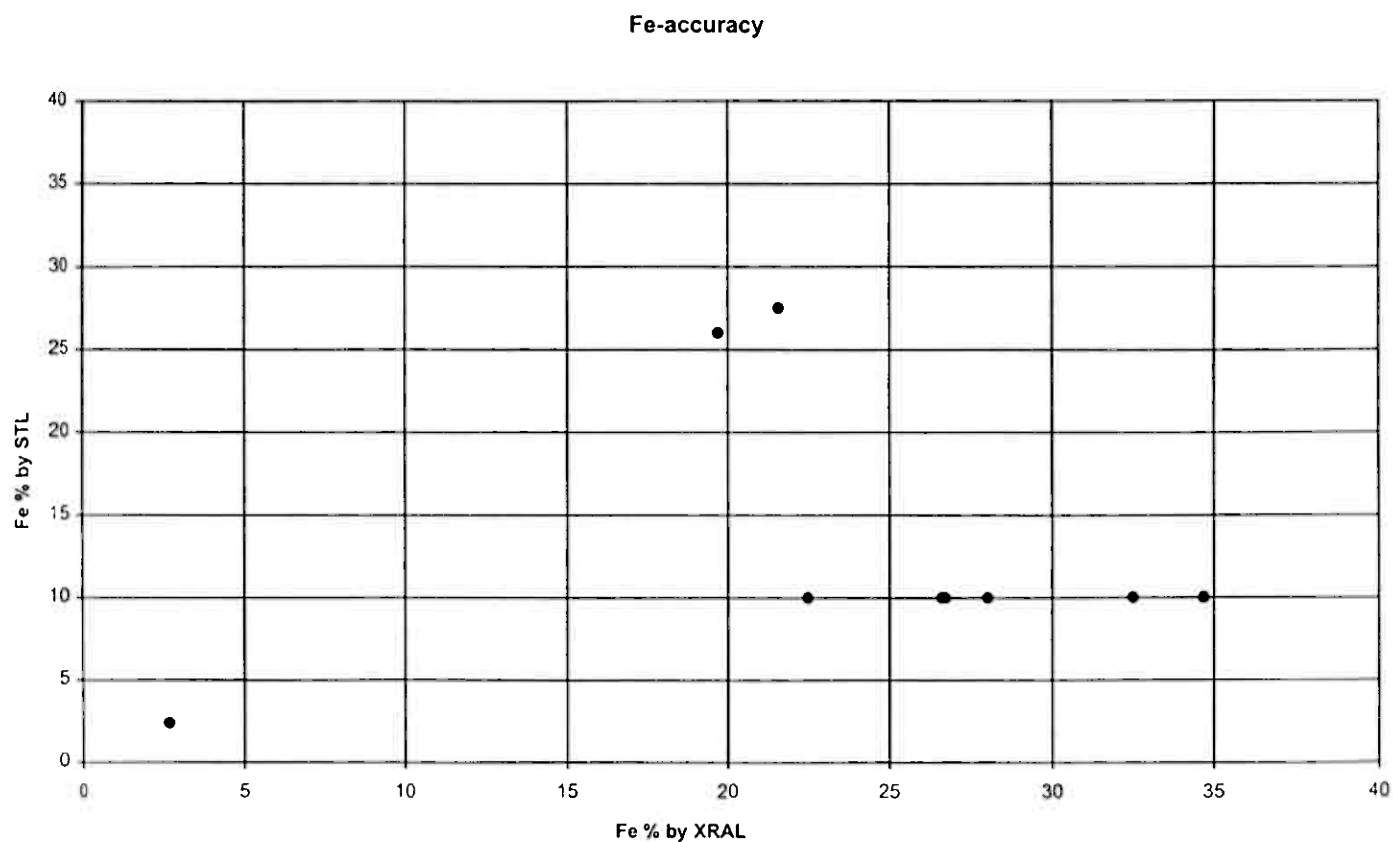


Figure 6: Fe is done by ICP by STL and 6 samples were reported as >10% Fe
XRAL used a fusion digestion prior to ICP

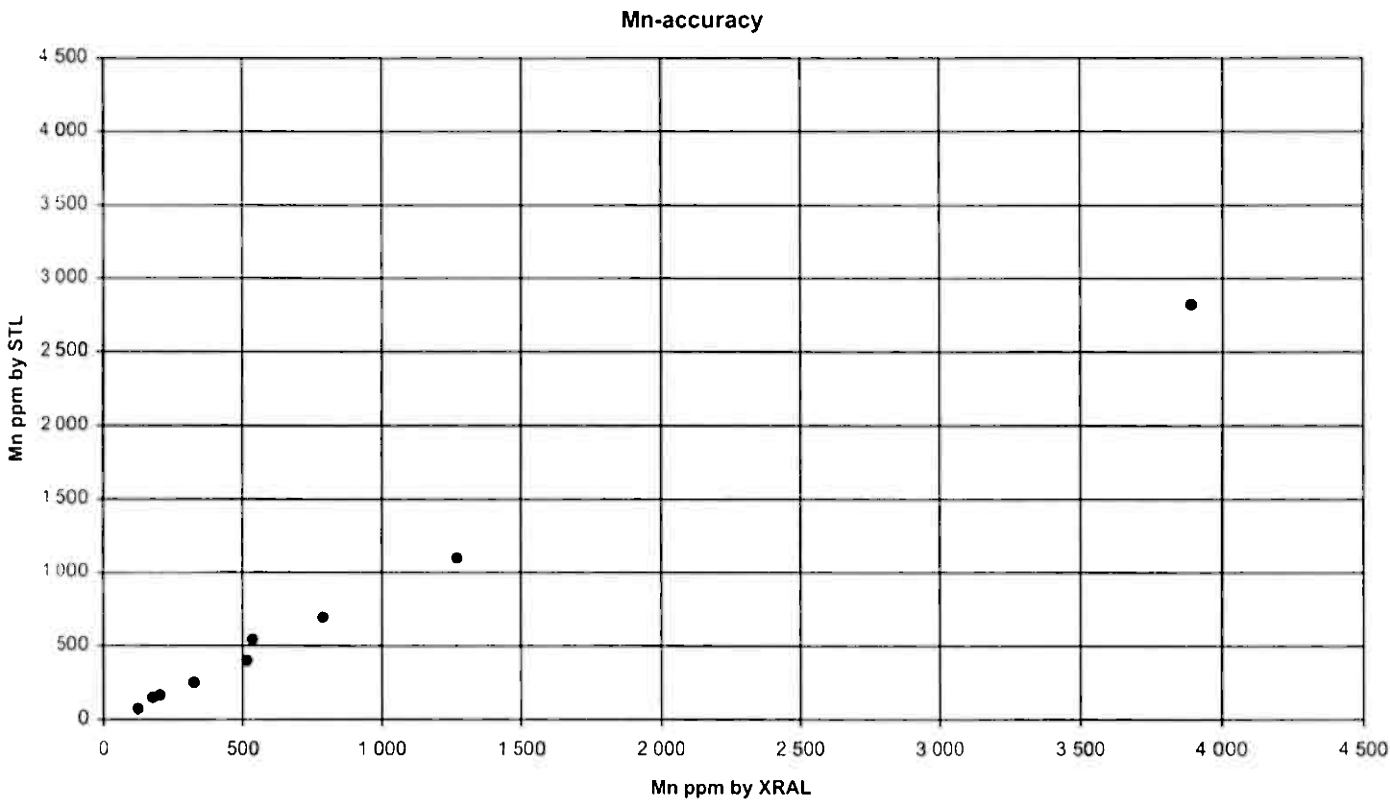


Figure 7: Mn is done by a ICP by STL , XRAL used a fusion digestion prior to ICP

Sample Ident	Al	Sb	Cd	Ca	Cr	Co	Cu	Sn	Fe	Pb	Mg	Mn	Mo	Ni	Si	V	C	S	Cl	F	In	Tl	Ge	Hg	As	Se	Te	Cu	Zn	
Scheme Code	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	ICP90	CHM119	CHM119	CHM113	CHM131	MS90	MS90	ICP92	ICP70	AAH70	AAH70	AAH70	ICAY50	ICAY50	
Analysis Unit	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
Detection Limit	0.01	50	10	0.01	10	10	10	50	0.01	20	0.01	10	10	10	10	0.01	10	0.01	0.01	100	20	0.5	0.1	10	1	0.1	0.1	0.1	0.01	0.01
399689	0.25	429	258	-0.01	302	93	11620	213	26.6	4450	0.21	177	-10	25	3.17	19	0.02	36.7	-100	88	21.7	0.1	-10	7	123	80.3	2.6	-3000	14.1	
399733	2.18	310	71	0.09	105	57	14130	-50	26.7	1850	1.75	535	-10	87	4.9	46	0.02	21.4	-100	299	8.8	0.6	-10	-1	1.2	81.4	3.9	-3000	4.32	
399735	0.86	469	268	0.05	212	287	>30000	-50	28	1390	0.55	326	23	48	2.73	34	0.05	32.8	-100	130	11	1.6	-10	2	130	106	1.9	8.23	6.86	
399740	1.15	448	301	0.11	232	148	15050	-50	21.6	6340	1.41	1270	-10	24	4.22	31	0.01	28.8	197	300	6	1.5	-10	3	49.9	61.8	4.2	-3000	20.2	
399773	0.31	519	52	0.02	587	236	8360	-50	34.7	289	0.05	125	-10	41	3.67	21	0.05	44.4	174	-20	8.1	0.3	-10	3	503	54.5	2.9	-3000	3.54	
399777	2.28	390	234	0.05	338	125	7780	-50	19.7	1660	1.25	515	-10	35	11.9	47	0.07	20.2	415	219	23.4	0.2	-10	-1	38.9	53.6	1.8	-3000	11.4	
399874	3.07	136	20	24.8	67	-10	168	-50	2.71	42080	1.64	3900	-10	43	6.79	109	7.78	0.78	100	268	1	5.5	-10	-1	126	10	153	-3000	0.03	
399915	2.1	486	202	0.24	561	179	8770	-50	22.5	2250	1.11	790	-10	46	9.47	56	0.03	29.6	291	207	5.9	0.2	-10	2	62.5	86.9	3.6	-3000	12.9	
400056	0.5	556	234	-0.01	393	146	24380	190	32.5	3920	0.27	203	14	50	2.45	33	0.06	41.1	-100	96	15	0.6	-10	12	261	121	4.3	-3000	10.5	
DUP-399689	0.27	409	243	-0.01	306	92	11580	185	26.4	4420	0.19	173	-10	22	3.13	22	0.02	36.5	-100	86	22.6	0.1	-10	7	129	79.9	2.5	-3000	14.2	

Røros samples: assay results (Q99-1925) by XRAL and ICP by STL

Smpl number	399735	399733	399740	399689	400056	399773	399777	399874	399915
District	Røros N	Røros N	Røros N	Røros E	Røros E	Kjøli	Kjøli	Tydal	Meråker
Prospect	Kongens C	Kongens C	Lørgr bk	Klinkenb.	Klinkenb.	Svenskm	Rørosm	Gressli	Anna
Prospect	1	1	2	32	32	62	63	75	93
UTM-E	617724	617724	619682	635861	635941	628531	629032	624407	637563
UTM-N	6950896	6950896	6948740	6958691	6958551	6968978	6969607	6993665	7023843
Au ppb (FA)	155	102	150	122	737	113	113	407	71
Ag ppm (ICP)	27	10.9	22.9	11.9	8.7	9.2	10.4	133.9	10.5
Zn ppm (ICP)	68000	44000	198100	128000	107300	36000	115000	181	121800
Zn % (ICP)	6.80	4.40	19.81	12.80	10.73	3.60	11.50	0.02	12.18
Cu ppm (ICP)	82000	17000	16000	16000	26000	8965	8817	114	9070
Cu % (ICP)	8.20	1.70	1.60	1.60	2.60	0.90	0.88	0.01	0.91
Pb ppm (ICP)	1283	1753	5239	3752	2877	314	1713	37400	1738
Pb % (ICP)	0.13	0.18	0.52	0.38	0.29	0.03	0.17	3.74	0.17
Mo ppm (ICP)	11	12	6	3	8	12	2	1	10
Ni ppm (ICP)	31	69	19	17	24	30	31	3	27
Co ppm (ICP)	251	44	126	70	109	214	119	8	145
Cd ppm (ICP)	132.2	78.7	315.8	236.1	173.6	54.4	307.2	11.2	193.6
Bi ppm (ICP)	35	44	85	93	72	60	72	169	28
As ppm (AAH70)	130	1.2	49.9	123	261	503	38.9	126	62.5
As ppm (ICP)	108	< 5	49	95	191	221	123	82	91
Sb ppm (ICP)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	13	< 5
Fe % (ICP)	> 10.00	> 10.00	27.5	> 10.00	> 10.00	> 10.00	26	2.34	> 10.00
Mn ppm (ICP)	249	542	1098	147	162	70	401	2821	692
Te ppm (AAH70)	1.9	3.9	4.2	2.6	4.3	2.9	1.8	153	3.6
Te ppm (ICP)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	100	< 10
Ba ppm (ICP)	3	3	2	< 1	7	< 1	7	9	8
Cr ppm (ICP)	126	87	148	140	45	138	154	37	151
V ppm (ICP)	5	21	11	< 1	10	< 1	25	63	22
Sn ppm (ICP)	28	< 20	< 20	21	72	< 20	< 20	< 20	< 20
W ppm (ICP)	82	46	329	179	< 20	41	220	< 20	< 20
La ppm (ICP)	2	7	2	< 1	4	< 1	4	2	3
Al % (ICP)	0.73	1.95	1.15	0.31	0.3	0.17	2.32	1.2	1.22
Mg % (ICP)	0.54	1.87	1.3	0.22	0.26	0.07	1.45	1.26	0.98
Ca % (ICP)	0.03	0.06	0.05	0.02	< 0.01	< 0.01	0.08	20.63	0.09
Na % (ICP)	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.01	0.03	0.04	0.02
K % (ICP)	0.12	0.08	0.19	0.03	0.05	0.08	0.23	0.06	0.13
Sr ppm (ICP)	3	6	2	2	< 1	3	4	101	2
Y ppm (ICP)	2	6	2	1	3	1	4	20	2
Ga ppm (ICP)	< 2	< 2	< 2	< 2	12	< 2	< 2	< 2	< 2
Li ppm (ICP)	3	9	5	2	2	< 1	5	9	2
Nb ppm (ICP)	11	7	6	5	< 1	6	6	7	< 1
Sc ppm (ICP)	< 5	5	< 5	< 5	< 5	< 5	< 5	17	< 5
Ta ppm (ICP)	13	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ti % (ICP)	0.02	0.02	0.03	< 0.01	< 0.01	< 0.01	0.02	0.15	0.06
Zr ppm (ICP)	3	5	3	1	< 1	1	2	< 1	3
C % (CHM119)	0.05	0.02	0.01	0.02	0.06	0.05	0.07	7.78	0.03
S % (CHM119)	32.8	21.4	28.8	36.7	41.1	44.4	20.2	0.78	29.6
Cl ppm (CHM113)	-100	-100	197	-100	-100	174	415	100	291
F ppm (CHM131)	130	299	300	88	96	-20	219	268	207
In ppm (MS90)	11	8.8	6	21.7	15	8.1	23.4	1	5.9
Tl ppm (MS90)	1.6	0.6	1.5	0.1	0.6	0.3	0.2	5.5	0.2
Ge ppm (ICP92)	-10	-10	-10	-10	-10	-10	-10	-10	-10
Hg ppm (ICP70)	2	-1	3	7	12	3	-1	-1	2
Se ppm (AAH70)	106	81.4	61.8	80.3	121	54.5	53.6	10	86.9