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Tittel Ølve Gold Reconnaissance Target Evaluation and Prioritization Part of the Norway Gold - 2000 series (Havika-Sundet Kvitebergsoynet Fernstein SvinlandSlagget Varaldsøy)				
Forfatter Bliss, I		Dato År 2000	Bedrift (Oppdragsgiver og/eller oppdragstaker) Crew Norway AS ICB Exploration Services	
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Fagområde Geologi Geokjemi		Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Havika-Sundet Slagget Varaldsøy Kvitebergsoynet Fernstein Svinland	
Råstoffgruppe Malm/metall		Råstofftype Au		
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse In general, the potential of significant gold mineralization in the areas visited is low this is confirmed by the sampling program. The result and observations from Slagget suggest that, in all likelihood, gold was never mined or milled at this location.				

Vedlegg.....av.....
Jnr. 0496/03

~~Ø~~OLVE GOLD RECONNAISSANCE, TARGET EVALUATION AND PRIORITIZATION

(part of the Norway Gold - 2000 series)

BV 4800

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by

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44 Farnham Cres,
Ottawa, Ontario,
Canada**

for

**Crew Development Corp.
O.H. Bangsvei 54-58
NO-1363, Hovik,
Norway**

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Table of Contents

Introduction	1
Regional Geology	1
Havika-Sundfjord Horizon	1
Old Gold Mill at Slagget	4
Varoldsoy	5
Sample Results	5
Havika-Sundfjord	5
Old Gold Mill - Kvitebergsoynet	6
Femstein and Svinland Mines	6
Varoldsoy	6
Summary	8

List of Figures

- Fig. 1. General Geology and Gold Anomalies of the Olve Region.
- Fig. 2. Shear hosted, pyritic quartz vein at Havika.
- Fig. 3. The “quartz-keratophyre” showing 5 km north-east of Havika.
- Fig. 4. The “portal” of the alleged gold mine at the head of Hyttevagen
- Fig. 5. The location of the former Femstein Mine

List of Appendices

- Appendix A Rock and sediment sample location maps
- Appendix B Rock sample descriptions with gold, basemetal and pathfinder element assays.
- Appendix C Stream sediment sample descriptions with gold, basemetal and pathfinder element assays.
- Appendix D Certificates of Analysis

Supplement: QA/QC report by Denis Schlatter, Crew Development Corp.

INTRODUCTION

The Olve area was visited primarily on reports of gold (up to 2.6 g/t) hosted in pyritic "Quartz-keratophyre" exposed in a road-cut "three kilometers north of Hyttevagen," and on reports of an old gold mill at Slagget on the shore of Hyttevagen.

REGIONAL GEOLOGY

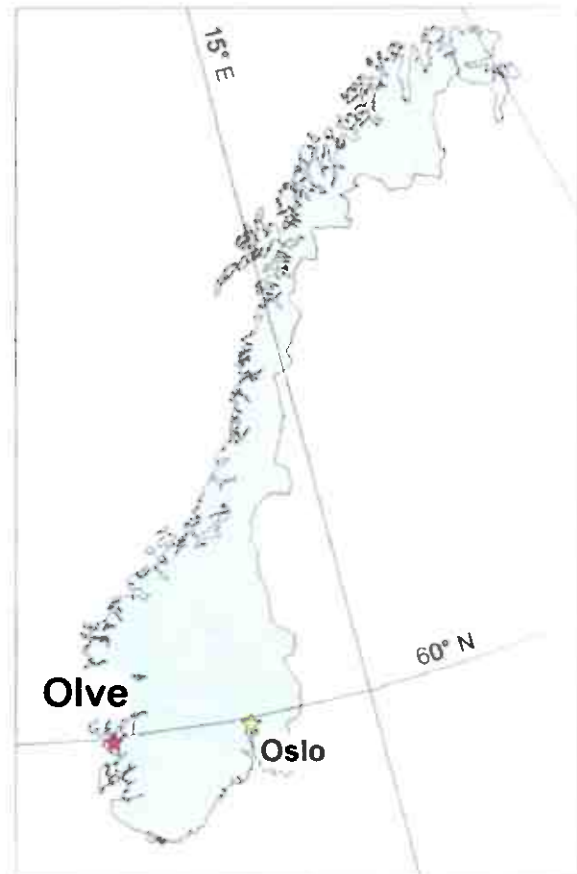
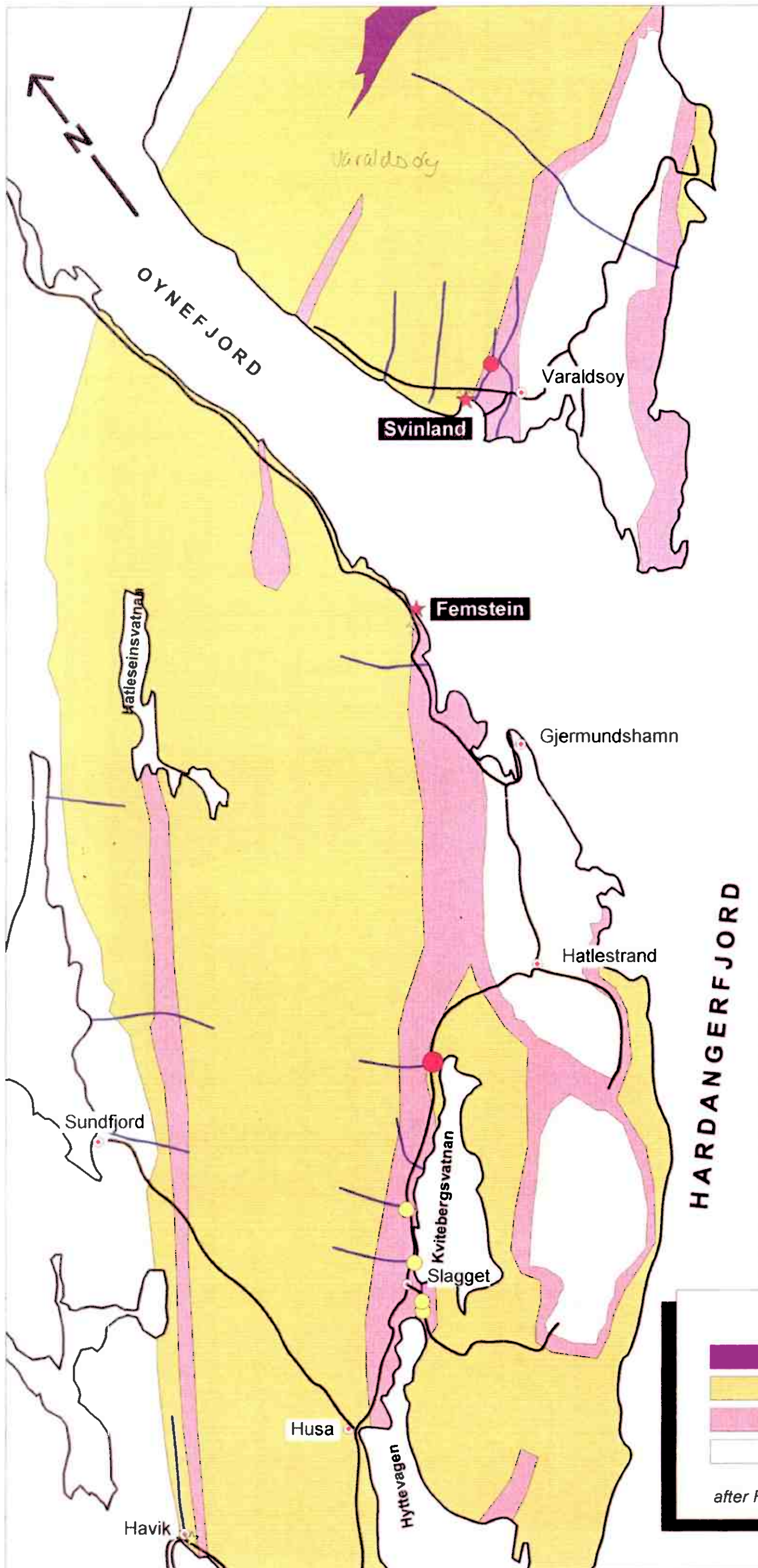
The regional geology (Fig. 1) is dominated by mafic volcanics that occupy the core of a north-eastward plunging syncline. The mafic flows and tuffs show pervasive, and presumably dueteric, chlorite-carbonate alteration. Bituminous phyllites are prominent in the outer limbs of the fold and are best exposed in rusty road cuts outside Gjermundsavn. "Quartz-keratophyre" form relatively thin but traceable units and appear to be spatially related to many of the known mineral occurrences in the Olve area. The units mapped as "quartz-keratophyre" by Foslie (1951) encompass a variety of rock types from relatively fresh felsic volcanics, quartz-sericite schist (presumably altered volcanics) and intrusive felsic porphyries. Chevron and isoclinal folding is common and in all cases the fold axis dip gently towards the SSW.

HAVIKA-SUNDEJORD HORIZON

The rock-type at Havika is a chlorite-Fe-carbonate schist with variable silicification and pyritization. The rock is exposed in two 30 meter long road cuts on the east side of Route 548. No outcrop of "quartz-keratophyre" as described by previous workers was located, though several boulders of felsic volcanics were seen in a stream nearby.

This rock unit is dominated by pervasive chlorite alteration which has imparted a strong fabric to the unit. Carbonate is more prominent in the northern most cutting especially in the upper part of the exposure. Two sets of quartz-carbonate veins are present: 1) foliation parallel which are carbonate rich and 2) discordant veins which are quartz rich. Euhedral pyrite (up to 10%) is present in the chlorite schist and is most abundant when associated with mm-scale bands of silicification. These pyrite-rich bands are foliation parallel and have been deformed by F1 chevron folds. There is very little pyrite within the quartz-carbonate veins themselves.

The chlorite-carbonate schist exhibits tight chevron folding with the fold axis plunging $10^{\circ} \Rightarrow 220^{\circ}$ and axial plane trending $040/24^{\circ}$ SE. At the northern end of the road cut a 0.7 m wide shear zone (Fig. 2) is observed and trends $030/55^{\circ}$ SE. It contains sheared quartz that contains 10-20% euhedral pyrite along chloritic laminations, inclusions and layers. The hanging wall contact is sharp while the footwall contact is gradational and silicified. The hangingwall and footwall both contain a few percent disseminated pyrite. This shear zone was traced several hundred meters to the north-east where it widens to about 4 m. But with the exception of one large boulder of quartz, only mm-scale quartz stringers and layers were seen. No pyrite mineralization was observed.



**Olve Project Area
2000**
I. Bliss

**General Geology
and
Gold Anomalies**

Scale 1:50,000

- Stream Sediment, Au > 100 ppb
- Stream Sediment, Au 25-100 ppb
- ★ Rock Sample, Au > 1000 ppb
- ★ Rock Sample, Au 100-1000 ppb

LEGEND

- Gabbro
- Chl-Carb Schist
- "Quartz-keratophyre"
- Phyllite

after Foslie, 1951



Fig. 2. Shear hosted, pyritic quartz vein at Havika. The quartz vein only assayed 23 ppb Au while a sample taken several meters to the right of the photo was more anomalous at 321 ppb Au.



Fig. 3. The "quartz-keratophyre" showing 5 km north-east of Havika

Outside of the shear zone the pervasive nature of the chlorite-carbonate alteration and the stratiform pyrite suggests that it is all the result of synvolcanic, sea-floor hydrothermal processes. Several hundred meters south of the above mentioned road cut there is a small exposure of a contact between mafic volcanics and intermediate tuffs. The contact is interlayered over about 10 meters and includes several thin (<0.4 m), well laminated, grey-green chert horizons suggesting a brief hiatus in volcanism.

There is a surprising lack of streams in the area. Only one stream exists in this area that drains the mineralized horizon, it runs sub-parallel to the "mineralized" horizon and was sampled (400451) several hundred meters up from the road.

The "quartz-keratophyre" horizon is well exposed at a road cut near Sundfjord about 5 km NE of Havika (Fig. 3). The "quartz-keratophyre" is described in a report by Gvein (1989) as being of dacitic composition. However, at this occurrence, at least, the rock is best described as a quartz-sericite-pyrite schist and appears to be the result of strong alteration of intermediate-mafic volcanics. The transition can be seen on the northern end of the outcrop where "unaltered" mafic volcanics gradually becomes more altered as one moves southward, first by weak silicification then by progressively more intense sericite alteration until the mafic protolith has been entirely bleached. There are layers composed almost entirely of sericite and euhedral pyrite (25%) and others of quartz and pyrite (50%).

The mineralized horizon has a true thickness of about 35 m and again the pyrite layers are seen to be deformed by an early generation of chevron folding. The showing is unlikely to host any significant gold mineralization itself; it is more typical of exhalative pyrite mineralization deposited on the sea floor, somewhat distally from the vent structure. However, it suggests, as does other evidence, that as one moves eastward from Haviki one is nearing a vent structure(s) and a potential mineralizing system.

"OLD GOLD MILL" AT SLAGGET

A report by the local mining inspector in 1888 (Holmsen) cites gold mineralization within 20 m of the bay at Hyttevagagens and along the coastline at Husavaagens. The "Old Gold Mill" at Slagget is believed to have been located on a small stream between Kvitebergsonet and the Hyttevaagens. The remains of a stone structure and discarded slag and waste rock was interpreted to be the site of the mill. Stream sediment samples were taken down stream and upstream from this site with the aim of determining whether the mill actually processed gold ore. If gold was processed here, a substantial stream sediment anomaly should exist.

Within 50 m of the mill site there is a portal into a chlorite schist escarpment (Fig. 4). The "drift" only measures 2x2x8 m and would thus produce less than 100 tons of "ore." However, the rock was observed to be a chlorite-sericite schist with no significant quartz, sulphides or even oxides and hence highly unlikely to contain gold. The description of the second location along the shores of Husavaagens was vague and a brief attempt was made to find the "mine" or any rock type that matched the description of the "ore." Based on what the

author had seen at the Slagget "mine-site" the search for the second site was abandoned after several hours.

Several stream sediment samples were taken along the north shore of Kvitebergsoynet which drain the "prospective", southern "quartz-keratophyre" horizon.

VAROLDSOY

One day was spent sampling and reconnoitering on Varoldsoy. The island exposes the greatest across-strike width of the plunging syncline and is host to numerous old Cu-sulphide deposits. Most of these deposits are clustered along the axial plane of the regional fold or along its southern limb and the horizons can be correlated with what is seen on the mainland to the west.

A north-south traverse was made along the west coast of Varoldsoy and 6 sediment samples were taken from streams draining various stratigraphic units. A seventh sample was taken from a large stream that crosses most of the geological units in the southern limb.

The most prospective looking geology is in a stream called Djupedalen where a shear hosted quartz vein is found at the contact between a chlorite-magnetite schist on the hangingwall and a sericite schist on the footwall. The selvages to the quartz veins consist of massive chlorite and contain a few percent euhedral pyrite. On the hanging wall side, pyrite is seen to replace magnetite. The quartz vein is generally around 25 cm thick but at one location blows-out to over 4 meters where it contains minor chlorite laminations and rafts of wall rock. Samples 400464-465 and 400165-167 test the area adequately.

A quick visit was made to the old Cu-sulphide mine at Svinland. Like the other "mines" in the area, this is small and appears to contain a high ratio of waste (barren massive pyrite) to ore. Minor amounts of sphalerite are seen within the massive sulphides. The ore-body is deformed by an open fold with a shallowly plunging fold axis. At the fringe of the mineralization, alteration (sericite) is more apparent in the hangingwall but nearer the interpreted center of mineralization, alteration becomes more prevalent in the footwall and is dominated by chlorite. This suggests that the mineralization may be proximal to a vent structure.

SAMPLE RESULTS

Havika: A 5 m composite sample (400151) diligently taken across the most altered and mineralized rock assayed 321 ppb Au with elevated As and Zn. This is somewhat lower than the previously reported value of 2.6 g/t Au; though this may have been a selective "high-grade sample. The shear zone at the end of the road-cut was only weakly anomalous at 23 ppb Au. While the gold values are low, they do reflect the rock seen in that alteration and mineralization is generally weak to moderate and sporadically distributed.

Sundfjord: As expected, this horizon is not gold bearing and only shows background-to-weakly elevated As and Cu concentrations and slightly depleted Zn values to which gold is otherwise associated.

Old Gold Mill - Kvitebergsoynet: The assay results from the Old Gold Mill area at Slagget confirm their barren appearance. A grab sample from the "mine-site" assayed only 5 ppb Au with no indications of other pathfinder elements. Two sediment samples taken along the mill stream did return anomalous gold values; 62 and 77 ppb. Copper, zinc and lead were also highly anomalous at 1948, 1032 and 670 ppm respectively which would be expected since copper ore was processed here. If gold was actually milled at this site much higher gold anomalies would be present, probably in the 1000 ppb range. Instead the source of the gold anomaly is likely the weakly auriferous copper ore.

However, at the north end of Kvitebergsoynet one sediment sample taken in a stream draining the southern "quartz-keratophyre" horizon is moderately anomalous at 165 ppb Au. It carries no other pathfinder elements with the exception of zinc which is only weakly anomalous at best.

Femstein Mine/Svinland Mine: Of some interests are two samples taken from the Femstein Mine and Svinlands Mine which assayed 1200 ppb Au, 1.9% Zn and 2% Cu and 1480 ppb Au, 2.1% Zn and 0.2 Cu respectively. The two mines occur at the same stratigraphic level but on the opposite sides of Oynelfjord. The Svinland Mine was interpreted to be proximal to a feeder source. The Femstein Mine has been infilled and only a thin sulphide zone is still exposed on the coast in front of a small cottage (Fig. 5). The Svinland Mine is better exposed with numerous trenches and pits. While the gold grades are low the results are of interest because of the previously unreported zinc values.

Varoldsoy: A stream sediment sample (400467) taken 0.5 km east along strike from the Svinland Mine assayed 132 ppb Au but, like the anomaly at Kvitebergsoynet, it does not carry any other pathfinder elements. The country rock at this location is a sericitized felsic volcanic but barren of any sulphides. Gold was below detection limits (2 ppb) in two other samples taken nearby. One of these sample sites was 100 m upstream from 400467 and also hosted in a sericite altered felsic volcanic.



Fig. 4 The "portal" of the alleged gold mine at the head of Hyttevagen.



Fig. 5 The location of the former Femstein Mine. The workings have been infilled and the area is now occupied by beach-front cottages. The Cu-Zn-Au horizon is seen just below the hammer.

SUMMARY

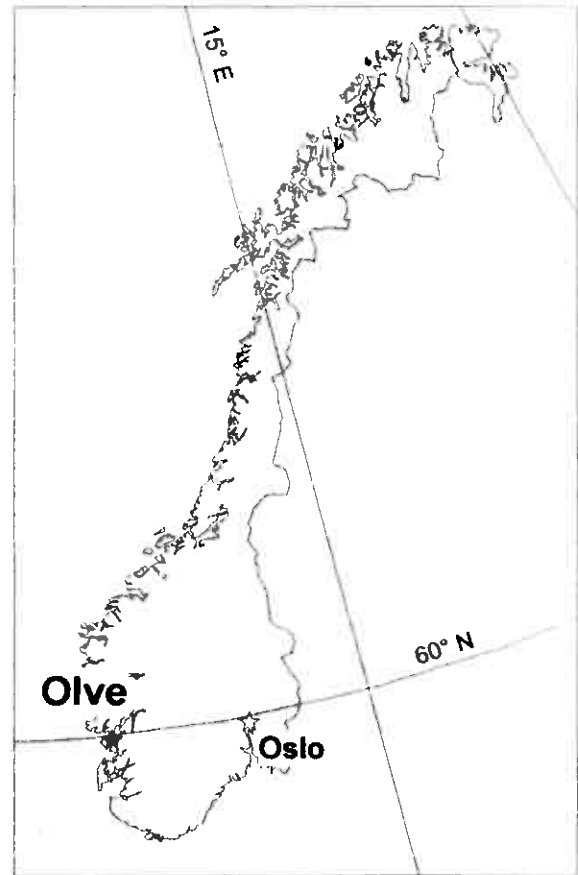
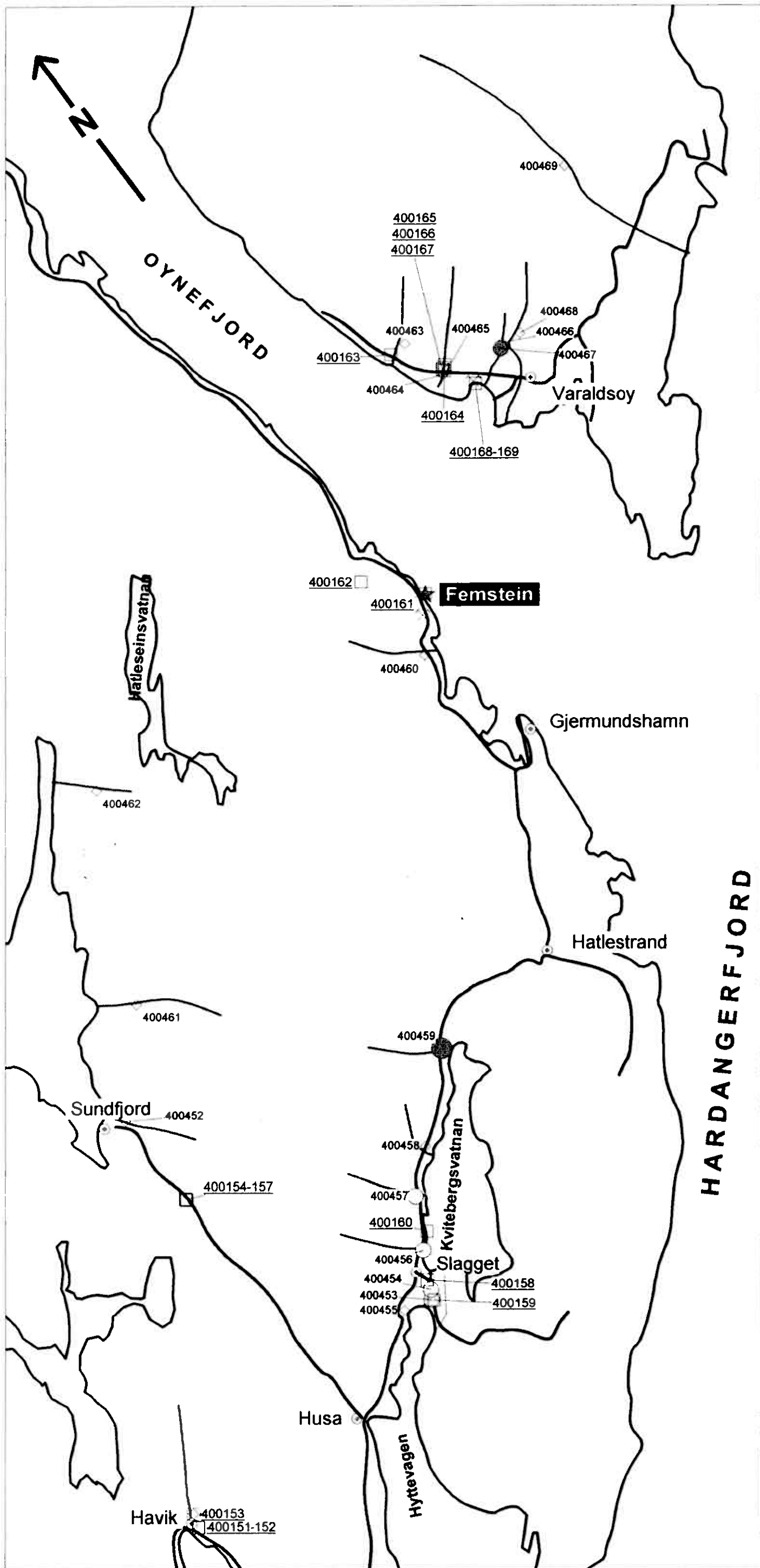
In general, the potential of significant gold mineralization in the areas visited is low and this is confirmed by the sampling program. Although there is pervasive deuteritic (?) chlorite-carbonate alteration the rocks are otherwise very "dry." With the exception of occasional, euhedral pyrite, there is a distinct lack of epigenetic sulphides and quartz veining. This could be explained by the absence of high level intrusives, such as gabbro, diabase or granite into the volcanic succession that might have evolved or driven any fluids. It was hoped that vent structures could be found by tracing the highly mineralized and altered units back to source and that these might be gold mineralized. It appears that the old copper mine at Svinland may be located on, or proximal to a vent. If this is the case then the highest gold values of 1200 ppb and 1480 are discouraging for further gold exploration in this area.

The results and observations from Slagget suggest that, in all likelihood, gold was never mined or milled at this location.

The two anomalous stream sediment sample are unexplained and are not likely related directly to nearby Cu-Zn-(Au) massive sulphides since they are not anomalous in these elements. In the case of the Varoldsoy anomaly, the source is likely nearby (<100 m) and if so, of low grade. If the source to the Kvitebergsoynet anomaly is also proximal exploration may be hindered by nearby cottage owners and a small nature reserve. While these targets are worthy of a small follow-up program, they are not of high priority.

Any future work in the Olve area should also include the Baldersheim area. This area was not part of the reconnaissance program but reports by Gvein (1989) shows the Laugervatn area to the NE of Baldersheim to be anomalous in gold. Three sediment samples taken to the north of the lake assayed 54, 228 and 1519 ppb Au. Limited prospecting in the area has not yet located the source for these anomalies.

Appendix A
Rock and Sediment Sample Location Map



Olve Project Area 2000

I. Bliss

Stream Sediment and Rock Sample Location Map

Scale 1:50,000

Appendix B
Rock Sample Results

Sample No.	Northing	Easting	Location	Int	Description	AU	AS	Ag	Cu
						PPB	PPM	ppm	ppm
						INNA	INNA	ICP	ICP
400151	6657081	319531	Haviki	5	Qtz veins and chl-carb schist, variably silicified and up to 10% Py	321	984	2.4	323
400152	6657085	319531	Haviki	0.7	Sheared qtz vein with 5-10% Py.	23	18.3	0.4	445
400153	6657252	319578	Haviki	5	Composite across shear zone with qtz stringers, no sulphides.	-2	1.9	-0.3	74
400154	6600380	321896	SundFjord	4	1st in profile; Moderately altered mafic volcanic => Qtz-Ser schist with 20% Py	5	28.8	-0.3	272
400155	6600380	321896	SundFjord	4	2nd in Profile. Qtz-Ser schist with 20% disseminated euhedral Py.	12	42.2	-0.3	19
400156	6600380	321896	SundFjord	4	3rd in Profile: least altered & mineralised; moderately sil'd and ser'd mafic volcanic.	5	18.7	0.6	216
400157	6600380	321896	SundFjord	4	4th in Profile; 40% Py in strongly sil'd Qtz-Py-Ser schist	16	43.9	-0.3	1159
400158	6657791	323595	Old Gold Mine	Grab	Chl-Carb alt'd mafic volc. Shear zone shows moderate sil'n & epidote, & small qtz veins, Tr Py & Hem.	-2	1.6	-0.3	15
400159	6657549	323510	Old Gold Mine	Grab	Chlorite Schist, NO sulphides, very little quartz, at old "Mine Adit".	5	4.7	-0.3	32
400160	6658266	323961	Road Cut	4	Graphitic schist with Tr Py.	-2	41.7	-0.3	34
400161	6664490	328775	Femstein Mine	Grab	Massive-semi-massive Py, Cpy, Sph	1200	123	32.3	21560
400162	6665090	328247	N of Femstein	Grab	Grab from small pyritic siliceous layers in sheared Chl-Ank schist.	32	8.3	-0.3	176
400163	6667064	330243	Varaldsoyna	Grab	Chl Schist & qtz vein with 1% Py, and Chl-Epi alt'd mafic with 1% Py and 5% Mag.	-2	4.3	-0.3	58
400164	6666507	330637	Varaldsoyna	Float	Chl-(qtz) schist with 20% euhedral Py pseudomorphing after Mag.	12	105	0.5	87
400165	6666562	330684	Varaldsoyna	0.4	0.2 m qtz vein & chl-carb alt'd mafic with Mag on Hw side.	8	7.1	-0.3	52
400166	6666548	330647	Varaldsoyna	0.5	Pyritic Chl Schist, Qtz vein and Mag-Chl Schist from HW, Selvage to vein is massive Chlorite.	42	67.9	1.4	167
400167	6666539	330625	Varaldsoyna	4	Blow-out in Qtz vein, several stacked Qtz veins, veins are weakly laminated with chl-rich wall rock, Tr Py in Chl selvages.	-2	7.2	0.6	40
400168	6666150	330840	Svinland Mine	Grab	Qtz float from mine site	10	9.2	0.3	18
400169	6666150	330840	Svinland Mine	Grab	Massive Py float from old mine site. Sph? Tr Cpy	1480	375	31.8	2294

Sample No.	Pb	Zn	Mo	Ni	CO	CR	SB	W	Au	Pt	Pd	AG	BA	BR	CA	CS	FE	HF	HG	IR	MO
	ppm	ppm	ppm	ppm	PPM	PPM	PPM	PPM	g/t	ppb	ppb	PPM	PPM	PPM	%	PPM	%	PPM	PPM	PPB	PPM
	ICP	ICP	ICP	ICP	INNA	INNA	INNA	INNA	FA	FA	FA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA
400151	101	3959	5	33	31	100	5.9	-1				-5	-50	-0.5	2	-1	6	1	-1	-5	-1
400152	15	245	-1	33	23	130	0.2	-1				-5	-50	1.3	1	-1	9.39	-1	-1	-5	-1
400153	-3	115	2	80	26	350	0.2	-1				-5	-50	-0.5	9	-1	4.59	-1	-1	-5	-1
400154	7	69	3	-1	7	10	0.5	-1				-5	410	1.2	-1	2	7.05	4	-1	-5	-1
400155	20	96	6	5	19	13	0.5	-1				-5	310	-0.5	-1	1	9.62	3	1	-5	6
400156	117	106	4	2	39	8	0.3	-1				-5	280	-0.5	-1	-1	8.15	3	-1	-5	4
400157	15	53	-1	3	16	16	0.4	-1				-5	240	0.7	-1	-1	11.2	3	-1	-5	-1
400158	21	61	1	-1	2	14	0.3	-1				-5	360	-0.5	-1	1	1.23	6	-1	-5	-1
400159	7	78	2	180	34	450	0.5	-1				-5	170	-0.5	7	-1	4.91	1	-1	-5	-1
400160	25	116	3	18	6	71	0.5	-1				-5	840	-0.5	-1	3	4.06	7	-1	-5	5
400161	1271	15580	34	12	130	18	1.2	-1				37	-50	2	-1	-1	27.3	-1	4	-5	46
400162	11	252	3	16	45	42	0.4	-1				-5	830	-0.5	7	-1	10.4	2	-1	-5	-1
400163	18	99	-1	29	31	62	0.2	-1				-5	-50	-0.5	13	-1	6.03	1	-1	-5	-1
400164	25	64	7	258	110	95	0.1	-1				-5	1400	-0.5	2	3	9.26	6	-1	-5	12
400165	19	112	-1	14	23	19	0.2	-1				-5	190	-0.5	2	1	6.23	2	-1	-5	-1
400166	18	32	26	124	19	80	0.2	-1				-5	710	-0.5	-1	2	6.1	3	-1	-5	25
400167	4	50	2	41	13	72	0.2	-1				-5	300	-0.5	-1	2	3.83	4	-1	-5	3
400168	54	25	3	13	2	21	0.4	-1				-5	-50	-0.5	-1	-1	1.16	-1	-1	-5	3
400169	5978	17750	36	25	12	20	13	-1				34	-50	-0.5	-1	-1	26.2	-1	4	-5	39

Sample No.	NA	NI	RB	SC	SE	SN	SR	TA	TH	U	ZN	LA	CE	ND	SM	EU	TB	YB	LU	Mass
	%	PPM	PPM	PPM	PPM	%	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	g
	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA
400151	2.01	-20	17	24.1	-3	-0.01	-0.05	-0.5	0.4	-0.5	4210	2.1	4	-5	1.3	0.4	-0.5	1.5	0.31	25.21
400152	0.74	-20	-15	32.8	-3	-0.01	-0.05	-0.5	0.3	-0.5	218	1.1	-3	-5	0.7	-0.2	-0.5	1.4	0.22	28.93
400153	1.16	70	-15	28.2	-3	-0.01	-0.05	-0.5	0.4	-0.5	82	0.8	-3	-5	0.3	-0.2	-0.5	0.6	0.12	25.17
400154	0.37	-20	34	13.1	6	-0.01	-0.05	-0.5	1.3	0.9	-50	4	11	-5	2.3	0.5	0.9	6.4	0.99	21.99
400155	0.24	-20	25	9.1	6	-0.01	-0.05	-0.5	0.5	0.9	71	2.7	9	-5	1.6	0.3	0.7	4.6	0.72	23.4
400156	0.22	-20	-15	10.5	5	-0.01	-0.05	-0.5	1.4	1	70	4.7	11	8	2.5	0.5	0.8	5.3	0.85	24.56
400157	0.25	-20	15	7.8	6	-0.01	-0.05	-0.5	1.1	-0.5	-50	1.8	5	-5	1.2	-0.2	-0.5	4.1	0.65	23.59
400158	4.06	-20	25	3.5	-3	-0.01	-0.05	1.7	27	6.5	61	74.4	110	36	6.2	1.3	-0.5	2.9	0.51	28.02
400159	2.24	200	-15	24.2	-3	-0.01	-0.05	-0.5	3.4	1.4	69	13.8	22	9	1.8	0.6	-0.5	1.4	0.25	24
400160	1.75	-20	96	17	-3	-0.01	-0.05	1.7	19.6	5.6	142	34	65	27	5.6	1.2	-0.5	3.4	0.58	18.87
400161	0.38	-20	-15	6.2	65	-0.01	-0.05	-0.5	0.8	-0.5	19700	1.5	4	-5	0.7	0.3	-0.5	1.4	0.22	38.87
400162	1.21	-20	60	38.7	-3	-0.01	-0.05	-0.5	2.1	-0.5	292	7.3	15	-5	2.2	0.8	-0.5	2.9	0.49	26.47
400163	3.01	-20	-15	29.1	-3	-0.01	-0.05	-0.5	-0.2	0.8	93	2.2	5	7	1.6	0.7	-0.5	2.3	0.38	26.79
400164	0.15	230	140	24.3	-3	-0.01	-0.05	0.8	17.1	9.1	72	77.4	120	64	13.4	2.9	2.4	5.1	0.74	26.24
400165	0.32	-20	33	27.1	-3	-0.01	-0.05	-0.5	0.3	1	121	2.1	6	-5	1.6	0.6	-0.5	3.2	0.51	26.46
400166	0.13	50	97	14.1	-3	-0.01	-0.05	-0.5	8	5.3	51	15.6	26	9	2.2	0.5	-0.5	2.4	0.4	24.31
400167	0.25	-20	70	11.5	-3	-0.01	-0.05	-0.5	6.2	1.4	66	17.4	33	14	3.3	0.8	-0.5	2.2	0.37	25.88
400168	0.16	-20	-15	0.6	-3	-0.01	-0.05	-0.5	-0.2	-0.5	-50	-0.5	-3	-5	-0.1	-0.2	-0.5	-0.2	-0.05	30.03
400169	0.55	-20	29	7.9	42	-0.01	-0.05	-0.5	0.6	1.3	21800	0.9	-3	-5	0.3	0.2	-0.5	1	0.16	35.51

Sample No.	Cd	Mn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
400151	25.4	923	6.25	-1	2	1.79	1.31	1.73	0.022	21	0.34	143	12	1.996
400152	-0.3	1119	5.50	-1	3	0.90	0.31	5.47	0.013	13	0.19	129	9	2.035
400153	-0.3	918	3.54	-1	-2	8.65	0.29	2.87	0.008	94	0.15	154	3	0.032
400154	-0.3	40	5.61	-1	-2	-0.01	2.44	0.24	0.007	25	0.12	9	18	4.400
400155	-0.3	96	4.03	-1	-2	-0.01	1.62	0.31	0.003	15	0.11	11	22	6.978
400156	0.4	462	4.73	-1	6	0.07	1.40	0.82	0.014	11	0.09	11	10	3.182
400157	-0.3	28	3.88	-1	11	-0.01	1.73	0.09	0.004	13	0.05	4	19	9.085
400158	-0.3	349	7.30	2	-2	0.97	0.88	0.29	0.021	278	0.15	14	27	0.040
400159	-0.3	1246	5.23	-1	-2	7.10	0.88	2.40	0.022	302	0.24	83	9	0.027
400160	-0.3	256	6.74	3	5	0.37	2.61	1.48	0.083	88	0.32	123	25	0.269
400161	50.8	148	1.48	-1	36	0.24	0.34	0.30	0.007	16	0.07	35	9	19.526
400162	0.4	1224	6.29	2	-2	5.83	1.94	2.41	0.024	136	0.49	255	18	2.425
400163	1.0	1388	5.24	-1	-2	12.03	0.06	2.30	0.016	181	0.38	207	16	0.291
400164	-0.3	680	6.10	3	-2	1.07	3.74	1.47	0.252	65	0.40	369	45	2.891
400165	-0.3	922	5.65	-1	-2	2.05	1.23	1.08	0.019	221	0.11	223	23	0.103
400166	-0.3	361	6.57	2	6	0.53	3.49	1.21	0.199	45	0.19	664	15	1.934
400167	-0.3	624	4.94	2	-2	0.62	2.30	1.25	0.043	35	0.35	100	19	0.053
400168	-0.3	87	0.42	-1	3	0.04	0.08	0.02	0.002	6	-0.01	-2	1	0.052
400169	58.8	394	1.95	-1	6	0.13	0.50	0.36	0.008	12	0.06	94	7	19.271

Appendix C
Stream Sediment Sample Results

Sample No.	Northing	Easting	Location	Description	AU	AS	Ag
					PPB	PPM	ppm
					INNA	INNA	ICP
400451	6657252	319578	Havika	Small creek flowing along shear zone. little sediment.	-2	4.1	0.3
400452	661577?	321908	Sundfjord	Large creek bed draining Qtz-Ser horizon.	-2	5.9	-0.3
400453	6657569	323490	Hyttevagen	Abundant slag, some Py boulders in stream, downstream from old "gold" mill	62	57	1.1
400454	6657670	323556	Hyttevagen	Upstream from old mill	77	39.1	1.2
400455	6657667	323147	Hyttevagen	Small stream in fault zone draining western end of "quartz-Keratophyre" zone	5	3.8	-0.3
400456	6658110	323781	Hyttevagen	Dry creek in fault zone draining western end of "quartz-Keratophyre" zone	18	3.6	-0.3
400457	6658691	324107	Kvitebergsonet	Medium sized creek in fault zone.	12	1.5	-0.3
400458	6659095	324578	Kvitebergsonet	Small creek in fault zone. Host rocks = Chlorite schist.	-2	2.6	-0.3
400459	6659919	325474	Kvitebergsonet	Large creek bed, very little sand-sized material. Host rocks = weakly carbonate altered mafic volcanics	165	4.6	-0.3
400460	6663895	328297	Femsteinvik	Host rocks = Ser, Chl'd mafic volc & reworked tuffs?	8	3	-0.3
400461	6662631	322893	Sundfjord	At confluence of two streams, Host rocks Carb-Chl alt'd mafic volc.	-2	5.8	-0.3
400462	6665013	324135	Sundfjord	Dry creek. Host rocks = Mafic volcs with epi-hem alt'n bands, some clastic material.	-2	5.4	-0.3
400463	6667064	330463	Varaldsoyna	Small creek, very little sed, Host rocks = Ser-Chl mafic to intermediate volc, some qtz boulders.	-2	5.5	-0.3
400464	6666477	330599	Varaldsoyna	Abundant sed in medum sized creek. Host rocks =	-2	3.7	-0.3
400465			Varaldsoyna	Taken 150 m upstream from 400464	-2	3.9	-0.3
400466	6666345	331399	Varaldsoyna	Upstream from 400467. Slow flowing, Host rocks = felsic volcs, ser'd.	-2	2.4	-0.3
400467	6666300	331340	Varaldsoyna	Small creek, some sed in pools. Host rocks = Ser'd felsic volc.	132	2	-0.3
400468	6666310	331646	Varaldsoyna	Small creek in farm field.	-2	1.3	-0.3
400469	6667607	333346	Varaldsoyna	Wide creek bed, abundant sed and boulders. Host rocks = Chl schist, graphitic schist and felsic volcs	-2	4.8	-0.3

Sample No.	Cu	Pb	Zn	Mo	Ni	CO	CR	SB	W	Au	Pt	Pd	AG	BA	BR	CA	CS	FE	HF	HG	IR	MO
	ppm	ppm	ppm	ppm	ppm	PPM	PPM	PPM	PPM	g/t	ppb	ppb	PPM	PPM	PPM	%	PPM	%	PPM	PPM	PPB	PPM
	ICP	ICP	ICP	ICP	ICP	INNA	INNA	INNA	INNA	FA	FA	FA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA
400451	13	12	56	2	23	12	106	1.4	-1				-5	300	10.6	2	-1	3.28	7	-1	-5	-1
400452	24	12	67	-1	17	13	60	-0.2	-1				-5	330	10.8	2	2	3.49	8	-1	-5	-1
400453	1949	671	925	13	40	105	128	19.2	-1				-5	450	30.8	2	3	14.8	6	-1	-5	15
400454	612	123	1032	6	112	54	328	1.4	-1				-5	390	19.8	4	-1	12.7	3	-1	-5	5
400455	16	16	70	3	45	19	182	-0.2	-1				-5	270	15.9	4	-1	4.45	7	-1	-5	-1
400456	22	27	72	3	33	17	124	0.4	-1				-5	290	19.7	3	2	4.44	7	-1	-5	-1
400457	26	20	80	-1	45	22	193	-0.2	-1				-5	200	9.9	4	3	5.3	5	-1	-5	-1
400458	16	25	64	4	53	20	210	0.5	-1				-5	280	18	2	-1	5.23	7	-1	-5	-1
400459	44	23	141	3	95	40	315	-0.2	-1				-5	310	14.5	2	2	6.96	4	-1	-5	-1
400460	28	15	66	1	23	24	73	0.4	-1				-5	390	9.9	3	1	4.86	6	-1	-5	-1
400461	87	18	130	2	57	26	219	0.3	-1				-5	300	10	2	2	5.64	7	-1	-5	-1
400462	32	13	63	1	83	25	219	-0.2	-1				-5	230	32.1	4	-1	5.76	4	-1	-5	-1
400463	48	28	121	3	73	36	270	0.7	-1				-5	130	17.9	2	-1	6.53	3	-1	-5	-1
400464	25	20	100	2	47	26	135	-0.2	-1				-5	300	14.3	4	-1	6.03	6	-1	-5	-1
400465	34	25	103	3	49	32	150	-0.2	-1				-5	160	17.9	4	2	6.29	5	-1	-5	-1
400466	14	25	62	4	55	26	292	0.4	-1				-5	200	14.3	5	1	6.93	3	-1	-5	-1
400467	18	31	64	2	62	22	262	-0.2	-1				-5	190	13.9	4	-1	5.88	3	-1	-5	-1
400468	14	29	75	3	28	13	112	0.2	-1				-5	430	5.8	3	1	4.01	9	-1	-5	-1
400469	48	16	101	3	77	32	217	-0.2	-1				-5	250	7	4	1	6.57	2	-1	-5	-1

Sample No.	NA	NI	RB	SC	SE	SN	SR	TA	TH	U	ZN	LA	CE	ND	SM	EU	TB	YB	LU	Mass	Cd
	%	PPM	PPM	PPM	PPM	%	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	g	ppm
	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	INNA	ICP
400451	2.31	-31	-15	22	-3	-0.01	-0.05	-0.5	3.1	2.7	-50	21.5	39	16	4.3	1.1	-0.5	2.9	0.45	35.54	0.5
400452	2.3	-30	65	17.8	-3	-0.01	-0.05	1.7	5	3.1	-50	26.2	51	21	5.7	1.3	0.7	4.1	0.6	36.39	-0.3
400453	1.68	-55	42	19.3	-3	-0.01	-0.05	-0.5	6.6	2.1	1190	33.4	59	21	5.5	1.4	-0.5	3.4	0.49	30.52	1.5
400454	1.9	143	76	33.9	-3	-0.01	-0.05	-0.5	13.2	3.3	1230	51.7	82	21	5.9	1.5	-0.5	2.4	0.37	25.05	2.6
400455	2.58	-33	-15	31.6	-3	-0.01	-0.05	-0.5	5.1	2	96	28.3	48	16	4.9	1.2	-0.5	2.7	0.44	33.09	-0.3
400456	2.55	-33	71	27.4	-3	-0.01	-0.05	-0.5	6.9	2.7	66	29.8	59	21	5.1	1.4	-0.5	2.8	0.44	31.96	0.3
400457	2.58	107	-15	33.3	-3	-0.01	-0.05	-0.5	7.1	2.9	82	39.5	66	26	5.7	1.5	-0.5	2.8	0.44	35.21	0.4
400458	2.65	-34	42	33.5	-3	-0.01	-0.05	1.8	5.8	3.2	104	31.7	58	16	5.2	1.4	-0.5	3.1	0.53	33.23	0.4
400459	2.53	-41	50	40.1	-3	-0.01	-0.05	-0.5	5.5	2.4	254	25	45	13	4.3	1.3	-0.5	2.7	0.43	26.05	1.8
400460	2.61	-32	54	27.8	-3	-0.01	-0.05	1.3	4.8	2.5	-50	28.6	49	17	5.3	1.5	-0.5	3.1	0.48	33.92	-0.3
400461	2.72	82	63	24.5	-3	-0.01	-0.05	-0.5	3.6	2.5	198	19.2	31	11	3.8	0.9	-0.5	3.1	0.46	31.13	-0.3
400462	3.44	89	-15	41.7	-3	-0.01	-0.05	-0.5	1.9	-0.5	130	18.5	32	16	4.4	1.2	0.7	2.5	0.38	30.7	1.0
400463	3.18	71	-15	48.5	-3	-0.01	-0.05	-0.5	1.2	-0.5	189	9.1	20	8	3.5	1.1	-0.5	2.5	0.43	29.75	1.0
400464	3.04	-34	-15	43.5	-3	-0.01	-0.05	1.5	2	1.5	157	17.8	32	11	4.7	1.4	-0.5	3.1	0.46	33.88	0.9
400465	3.1	-38	-15	52	-3	-0.01	0.06	-0.5	2.4	2.1	159	18.7	36	15	5.5	1.6	1	3.4	0.51	30.64	-0.3
400466	2.95	-38	-15	51.6	-3	-0.01	-0.05	-0.5	7.1	3.2	-50	31.3	51	17	5.2	1.3	0.7	2.6	0.45	30.44	0.9
400467	2.79	-35	-15	43.7	-3	-0.01	-0.05	-0.5	5.9	1.4	108	27.6	48	19	4.7	1.4	0.6	2.4	0.39	31.39	-0.3
400468	2.46	-29	-15	28.5	-3	-0.01	-0.05	-0.5	9.3	3.5	136	46.6	74	29	6.4	1.6	0.9	3	0.43	36.64	-0.3
400469	3.09	-35	45	38	-3	-0.01	-0.05	-0.5	3.8	1	138	20.9	39	19	4.3	1.1	-0.5	2.5	0.39	29.98	0.5

Sample No.	Mn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
400451	935	5.21	1	-2	1.88	1.22	0.99	0.038	189	0.38	97	25	0.017
400452	944	5.44	2	-2	2.07	1.51	0.85	0.071	217	0.43	92	35	0.047
400453	1328	4.43	2	-2	2.17	1.13	1.17	0.090	212	0.40	108	27	1.456
400454	1059	5.39	2	-2	3.43	1.35	2.04	0.070	416	0.33	143	24	2.347
400455	1593	6.17	1	-2	3.21	1.01	1.47	0.036	314	0.46	146	28	0.046
400456	1348	5.94	2	-2	2.74	1.18	1.06	0.037	317	0.46	143	28	0.022
400457	1335	6.05	1	-2	3.50	1.01	1.60	0.056	428	0.47	170	29	0.029
400458	1308	6.27	1	-2	2.96	1.08	1.41	0.038	305	0.41	143	26	0.030
400459	1889	6.61	1	-2	3.08	1.12	2.69	0.054	261	0.47	206	26	0.078
400460	1448	6.75	2	-2	3.28	0.98	1.64	0.062	337	0.64	169	32	0.031
400461	1275	6.23	1	-2	1.73	1.00	2.26	0.042	159	0.45	152	25	0.046
400462	1122	7.36	-1	-2	4.51	0.73	2.16	0.048	288	0.51	242	28	0.017
400463	1737	7.03	-1	-2	3.12	0.50	2.44	0.049	222	0.55	271	30	0.151
400464	1446	7.51	1	-2	3.92	0.63	2.14	0.049	368	0.75	266	37	0.049
400465	1346	7.52	1	-2	4.09	0.49	2.09	0.053	372	0.76	275	41	0.052
400466	1698	7.26	-1	-2	5.68	0.46	1.63	0.030	429	0.41	215	31	0.010
400467	1603	7.49	1	-2	5.30	0.62	1.90	0.036	398	0.41	200	30	0.010
400468	1474	6.71	1	-2	3.65	1.21	1.14	0.059	413	0.55	159	34	0.011
400469	1463	7.26	1	-2	3.63	0.63	2.72	0.050	288	0.60	245	29	0.039

Appendix D
Certificates of Analysis

Quality Analysis...



Innovative Technologies

Invoice No.: 20123
Work Order: 20401
Invoice Date: 30-AUG-00
Date Submitted: 08-AUG-00
Your Reference: CREW-1
Account Number: C024

CREW DEVELOPMENT CORPORATION
O.H. BANGSVEI 54-58
N-1363 HOEVIK, NORWAY
ATTN: DENIS SCHLATTER

CERTIFICATE OF ANALYSIS

19 ROCKS (PREP.REV3.1) were submitted for analysis.

The following analytical packages were requested. Please see
current fee schedule for elements and detection limits.

REPORT 20123 CODE 1H-INAA(INAAGEO.REV1)
REPORT 20123 B TOTAL DIGESTION ICP(TOTAL.REV2)

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portions of the report are reproduced, permission must be obtained.
If no instructions were given at time of sample submittal regarding
excess material, it will be discarded within 90 days of this report.
Our liability is limited solely to the analytical cost of these analyses.
Test results are representative only of material submitted for analysis.

CERTIFIED BY :

A handwritten signature in dark ink, appearing to be "E. Hoffman", written over a horizontal line.

DR E.HOFFMAN/GENERAL MANAGER

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613

E MAIL ancaster@actlabs.com ACTLABS GROUP WEBSITE <http://www.actlabs.com>

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA %	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SN %	SR %	TA PPM	TH PPM
400151	321	<5	984	<50	<0.5	2	31	100	<1	6.00	1	<1	<5	<1	2.01	<20	17	5.9	24.1	<3	<0.01	<0.05	<0.5	0.4
400152	23	<5	18.3	<50	1.3	1	23	130	<1	9.39	<1	<1	<5	<1	0.74	<20	<15	0.2	32.8	<3	<0.01	<0.05	<0.5	0.3
400153	<2	<5	1.9	<50	<0.5	9	26	350	<1	4.59	<1	<1	<5	<1	1.16	70	<15	0.2	28.2	<3	<0.01	<0.05	<0.5	0.4
400154	5	<5	28.8	410	1.2	<1	7	10	2	7.05	4	<1	<5	<1	0.37	<20	34	0.5	13.1	6	<0.01	<0.05	<0.5	1.3
400155	12	<5	42.2	310	<0.5	<1	19	13	1	9.62	3	1	<5	6	0.24	<20	25	0.5	9.1	6	<0.01	<0.05	<0.5	0.5
400156	5	<5	18.7	280	<0.5	<1	39	8	<1	8.15	3	<1	<5	4	0.22	<20	<15	0.3	10.5	5	<0.01	<0.05	<0.5	1.4
400157	16	<5	43.9	240	0.7	<1	16	16	<1	11.2	3	<1	<5	<1	0.25	<20	15	0.4	7.8	6	<0.01	<0.05	<0.5	1.1
400158	<2	<5	1.6	360	<0.5	<1	2	14	1	1.23	6	<1	<5	<1	4.06	<20	25	0.3	3.5	<3	<0.01	<0.05	1.7	27.0
400159	5	<5	4.7	170	<0.5	7	34	450	<1	4.91	1	<1	<5	<1	2.24	200	<15	0.5	24.2	<3	<0.01	<0.05	<0.5	3.4
400160	<2	<5	41.7	840	<0.5	<1	6	71	3	4.06	7	<1	<5	5	1.75	<20	96	0.5	17.0	<3	<0.01	<0.05	1.7	19.6
400161	1200	37	123	<50	2.0	<1	130	18	<1	27.3	<1	4	<5	46	0.38	<20	<15	1.2	6.2	65	<0.01	<0.05	<0.5	0.8
400162	32	<5	8.3	830	<0.5	7	45	42	<1	10.4	2	<1	<5	<1	1.21	<20	60	0.4	38.7	<3	<0.01	<0.05	<0.5	2.1
400163	<2	<5	4.3	<50	<0.5	13	31	62	<1	6.03	1	<1	<5	<1	3.01	<20	<15	0.2	29.1	<3	<0.01	<0.05	<0.5	<0.2
400164	12	<5	105	1400	<0.5	2	110	95	3	9.26	6	<1	<5	12	0.15	230	140	0.1	24.3	<3	<0.01	<0.05	0.8	17.1
400165	8	<5	7.1	190	<0.5	2	23	19	1	6.23	2	<1	<5	<1	0.32	<20	33	0.2	27.1	<3	<0.01	<0.05	<0.5	0.3
400166	42	<5	67.9	710	<0.5	<1	19	80	2	6.10	3	<1	<5	25	0.13	50	97	0.2	14.1	<3	<0.01	<0.05	<0.5	8.0
400167	<2	<5	7.2	300	<0.5	<1	13	72	2	3.83	4	<1	<5	3	0.25	<20	70	0.2	11.5	<3	<0.01	<0.05	<0.5	6.2
400168	10	<5	9.2	<50	<0.5	<1	2	21	<1	1.16	<1	<1	<5	3	0.16	<20	<15	0.4	0.6	<3	<0.01	<0.05	<0.5	<0.2
400169	1480	34	375	<50	<0.5	<1	12	20	<1	26.2	<1	4	<5	39	0.55	<20	29	13.0	7.9	42	<0.01	<0.05	<0.5	0.6
400169 (PULP DUP)	1490	36	386	<50	<0.5	<1	13	19	<1	27.5	<1	4	<5	41	0.56	<20	25	13.6	8.2	43	<0.01	<0.05	<0.5	0.7

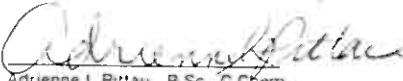
Sample description	U PPM	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
400151	<0.5	<1	4210	2.1	4	<5	1.3	0.4	<0.5	1.5	0.31	25.21
400152	<0.5	<1	218	1.1	<3	<5	0.7	<0.2	<0.5	1.4	0.22	28.93
400153	<0.5	<1	82	0.8	<3	<5	0.3	<0.2	<0.5	0.6	0.12	25.17
400154	0.9	<1	<50	4.0	11	<5	2.3	0.5	0.9	6.4	0.99	21.99
400155	0.9	<1	71	2.7	9	<5	1.6	0.3	0.7	4.6	0.72	23.40
400156	1.0	<1	70	4.7	11	8	2.5	0.5	0.8	5.3	0.85	24.56
400157	<0.5	<1	<50	1.8	5	<5	1.2	<0.2	<0.5	4.1	0.65	23.59
400158	6.5	<1	61	74.4	110	36	6.2	1.3	<0.5	2.9	0.51	28.02
400159	1.4	<1	69	13.8	22	9	1.8	0.6	<0.5	1.4	0.25	24.00
400160	5.6	<1	142	34.0	65	27	5.6	1.2	<0.5	3.4	0.58	18.87
400161	<0.5	<1	19700	1.5	4	<5	0.7	0.3	<0.5	1.4	0.22	38.87
400162	<0.5	<1	292	7.3	15	<5	2.2	0.8	<0.5	2.9	0.49	26.47
400163	0.8	<1	93	2.2	5	7	1.6	0.7	<0.5	2.3	0.38	26.79
400164	9.1	<1	72	77.4	120	64	13.4	2.9	2.4	5.1	0.74	26.24
400165	1.0	<1	121	2.1	6	<5	1.6	0.6	<0.5	3.2	0.51	26.46
400166	5.3	<1	51	15.6	26	9	2.2	0.5	<0.5	2.4	0.40	24.31
400167	1.4	<1	66	17.4	33	14	3.3	0.8	<0.5	2.2	0.37	25.88
400168	<0.5	<1	<50	<0.5	<3	<5	<0.1	<0.2	<0.5	<0.2	<0.05	30.03
400169	1.3	<1	21800	0.9	<3	<5	0.3	0.2	<0.5	1.0	0.16	35.51
400169 (PULP DUP)	1.0	<1	22300	1.0	<3	<5	0.3	<0.2	<0.5	1.0	0.16	35.06

Activation Laboratories Ltd. Work Order No. 20401 Report No. 20123B

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
400151	2.4	25.4	323	923	5	33	101	3959	6.25	-1	2	1.79	1.31	1.73	0.022	21	0.34	143	12	1.996
400152	0.4	-0.3	445	1119	1	33	15	245	5.50	-1	3	0.90	0.31	5.47	0.013	13	0.19	129	9	2.035
400153	-0.3	-0.3	74	918	2	80	-3	115	3.54	-1	2	8.65	0.29	2.87	0.008	94	0.15	154	3	0.032
400154	-0.3	-0.3	272	40	3	-1	7	69	5.61	-1	2	0.01	2.44	0.24	0.007	25	0.12	9	18	4.400
400155	-0.3	-0.3	19	96	6	5	20	96	4.03	-1	2	0.01	1.62	0.31	0.003	15	0.11	11	22	6.978
400156	0.6	0.4	216	462	4	2	117	106	4.73	-1	6	0.07	1.40	0.82	0.014	11	0.09	11	10	3.182
400157	-0.3	-0.3	1159	28	1	3	15	53	3.88	-1	11	-0.01	1.73	0.09	0.004	13	0.05	4	19	9.085
400158	-0.3	0.3	15	349	1	1	21	61	7.30	2	-2	0.97	0.88	0.29	0.021	278	0.15	14	27	0.040
400159	-0.3	-0.3	32	1246	2	180	7	78	5.23	-1	2	7.10	0.88	2.40	0.022	302	0.24	83	9	0.027
400160	-0.3	-0.3	34	256	3	18	25	116	6.74	3	5	0.37	2.61	1.48	0.083	88	0.32	123	25	0.269
400161	32.3	50.8	21560	148	34	12	1271	15580	1.48	-1	36	0.24	0.34	0.30	0.007	16	0.07	35	9	19.526
400162	-0.3	0.4	176	1224	3	16	11	252	6.29	2	-2	5.83	1.94	2.41	0.024	136	0.49	255	18	2.425
400163	-0.3	1.0	58	1388	1	29	18	99	5.24	-1	2	12.03	0.06	2.30	0.016	181	0.38	207	16	0.291
400164	0.5	-0.3	87	680	7	258	25	64	6.10	3	-2	1.07	3.74	1.47	0.252	65	0.40	369	45	2.891
400164/R	0.6	-0.3	96	693	7	263	37	60	5.81	3	4	1.15	3.73	1.40	0.252	68	0.33	382	46	2.975
400165	-0.3	-0.3	52	922	1	14	19	112	5.65	-1	2	2.05	1.23	1.08	0.019	221	0.11	223	23	0.103
400166	1.4	0.3	167	361	26	124	18	32	6.57	2	6	0.53	3.49	1.21	0.199	45	0.19	664	15	1.934
400167	0.6	-0.3	40	624	2	41	4	50	4.94	2	-2	0.62	2.30	1.25	0.043	35	0.35	100	19	0.053
400168	0.3	0.3	18	87	3	13	54	25	0.42	-1	3	0.04	0.08	0.02	0.002	6	0.01	2	1	0.052
400169	31.8	58.8	2294	394	36	25	5978	17750	1.95	-1	6	0.13	0.50	0.36	0.008	12	0.06	94	7	19.271
400169 (PULP DUP)	30.2	55.5	2160	375	33	24	5668	17060	1.85	-1	6	0.11	0.47	0.35	0.008	13	0.07	90	6	18.473
G-2 cert	0.04	0.016	11	232	(1.1	(5	30	86	8.147	2.5	0.037	1.401	3.718	0.452	0.061	478	0.288	36	11	(0.01
G-2	-0.3	-0.3	10	245	2	1	31	86	4.68	2	-2	1.21	3.56	0.28	0.044	353	0.33	33	4	0.008
DNC-1 cert	(0.027	(1.82	96	1154	(.7	247	6.3	66	9.687	1	(.02	8.055	0.19	6.06	0.037	145	0.287	148	18	(0.039
DNC 1	-0.3	0.3	85	974	1	250	-3	60	7.85	-1	-2	7.35	0.17	4.92	0.023	106	0.29	128	14	0.043
SCO-1 cert	0.134	0.14	28.7	410	1.37	27	31	103	7.24	1.84	0.37	1.87	2.30	1.64	0.090	174	0.38	131	26	0.063
SCO 1	-0.3	-0.3	26	367	1	27	32	99	6.22	2	-2	1.73	2.16	1.62	0.072	134	0.37	120	19	0.059
GXR-6 cert	1.3	(1	66	1008	2.4	27	101	118	17.68	1.4	(.29	0.179	1.87	0.61	0.035	35	0.498	186	14	0.016
GXR 6	0.4	-0.3	64	984	2	25	96	128	7.32	1	-2	0.12	1.45	0.32	0.060	27	0.56	182	4	0.011
GXR-2 cert	17	4.1	76	1008	(2.1	21	690	530	16.46	1.7	(.69	0.929	1.37	0.85	0.105	160	0.3	52	17	0.031
GXR 2	16.6	3.3	73	947	2	14	669	516	15.02	2	-2	0.96	1.43	0.98	0.060	133	0.31	47	19	0.029
GXR-1 cert	31	3.3	1110	853	18	41	730	760	3.52	1.22	1380	0.958	0.05	0.22	0.065	275	0.036	80	32	0.257
GXR 1	30.8	2.9	1113	863	17	44	759	737	2.16	1	1336	0.82	0.06	0.23	0.051	241	0.03	78	30	0.219
GXR-4 cert	4	(.86	6520	155	310	42	52	73	7.20	1.9	19	1.01	4.01	1.66	0.120	221	0.29	87	14	1.770
GXR 4	3.1	0.4	6173	141	328	42	51	75	5.71	2	21	1.00	4.14	1.87	0.117	187	0.25	82	14	1.548

Note: Certificate data underlined are recommended values; other values are proposed except those preceded by a "*" which are information values.
Barite, gahnite, chromite, cassiterite, zircon, sphene, and magnetite may not be totally dissolved.

Clients are advised to obtain assays for Ag>100 ppm and Pb>5000 ppm due to potential solubility problems.
Values for Cu, Ni, Zn, Mo greater than 1% should be assayed if accuracy better than ~10-15% is required.
Values above 1% are for informational purposes only and should not be relied upon for promotional or ore reserve calculations. Assays are recommended for this purpose.
Sulphide will precipitate in samples containing massive sulphides.


Adrienne I. Rutau, B.Sc., C.Chem.
ICP Technical Manager

Negative values indicate less than the reporting limit.
99999 indicates greater than 10%.

Quality Analysis...



Innovative Technologies

Invoice No.: 20481
Work Order: 20746
Invoice Date: 17-OCT-00
Date Submitted: 26-SEP-00
Your Reference: NONE
Account Number: 2749

CREW DEVELOPMENT CORPORATION
O.H. BANGSVEI 54-58
N-1363 HOEVIK, NORWAY
ATTN: DENIS SCHLATTER

CERTIFICATE OF ANALYSIS

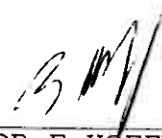
188 SEDIMENTS (PREP.REV3) were submitted for analysis.
9 ROCKS (PREP.REV3) were submitted for analysis.

The following analytical packages were requested. Please see
our current fee schedule for elements and detection limits.

REPORT 20481 CODE 1H INAA (INAAGEO.REV1)
REPORT 20481 B TOTAL DIGESTION ICP (TOTAL.REV2)
REPORT 20481 C CODE 1C-EXPL.-FIRE ASSAY ICP/OES

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portions of the report are reproduced, permission must be obtained.
If no instructions were given at time of sample submittal regarding
excess material, it will be discarded within 90 days of this report.
Our liability is limited solely to the analytical cost of these analyses.
Test results are representative only of material submitted for analysis.

CERTIFIED BY :



DR. E. HOFFMAN / GENERAL MANAGER

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613

E-MAIL ancaster@actlabs.com ACTLABS GROUP WEBSITE <http://www.actlabs.com>

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb	Mo ppm	Na %	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Ti ppm	U ppm	W ppm
328051	-2	-5	6.5	530	-0.5	-1	7	132	7	7.82	4	-1	-5	39	0.57	-37	149	0.5	18.9	-3	-0.01	-0.05	-0.5	13.9	19.9	4
328052	14	-5	20	180	-0.5	-1	29	37	-1	19.9	1	-1	-5	61	0.14	314	-15	4.4	6.2	8	-0.01	-0.05	-0.5	2.9	9.5	-1
328053	-2	-5	11.2	-50	-0.5	3	5	6	-1	2.19	3	-1	-5	-1	3.09	-33	37	0.4	17	-3	-0.01	-0.05	-0.5	1.3	-0.5	-1
328054	-2	-5	1.9	150	-0.5	-1	-1	-5	-1	1.19	2	-1	-5	-1	4.21	-34	-15	-0.1	8	-3	-0.01	-0.05	-0.5	1.2	-0.5	-1
328055	-2	-5	5.8	130	-0.5	5	52	14	2	5.06	2	-1	-5	8	3.35	-45	40	-0.1	40.3	-3	-0.02	0.07	-0.5	1	-0.5	-1
328056	5	-5	2210	130	-0.5	3	102	11	1	9.26	2	-1	-5	-1	2.89	-50	-15	-0.2	53.6	-3	-0.02	-0.05	-0.5	0.7	-0.5	-1
328057	16	-5	1320	80	-0.5	3	71	-5	-1	5.48	2	-1	-5	-1	1.31	-50	-15	-0.1	18.5	-3	-0.02	-0.05	-0.5	1.5	4.2	-1
328058	-2	-5	3	-50	-0.5	7	41	12	-1	8.19	1	-1	-5	12	1.25	-39	-15	-0.2	44.9	-3	-0.01	-0.05	-0.5	1.1	2.4	-1
328059	-2	-5	2.6	150	-0.5	-1	8	18	-1	3.85	2	-1	-5	-1	4	-37	-15	-0.2	18.2	-3	-0.01	0.05	-0.5	1.6	-0.5	-1
400451	-2	-5	4.1	300	10.6	2	12	106	-1	3.28	7	-1	-5	-1	2.31	-31	-15	1.4	22	-3	-0.01	-0.05	-0.5	3.1	2.7	-1
400452	-2	-5	5.9	330	10.8	2	13	60	2	3.49	8	-1	-5	-1	2.3	-30	65	-0.2	17.8	-3	-0.01	-0.05	1.7	5	3.1	-1
400453	62	-5	57	450	30.8	2	105	128	3	14.8	6	-1	-5	15	1.68	-55	42	19.2	19.3	-3	-0.01	-0.05	-0.5	6.6	2.1	-1
400454	77	-5	39.1	390	19.8	4	54	328	-1	12.7	3	-1	-5	5	1.9	143	76	1.4	33.9	-3	-0.01	-0.05	-0.5	13.2	3.3	-1
400455	5	-5	3.8	270	15.9	4	19	182	-1	4.45	7	-1	-5	-1	2.58	-33	-15	-0.2	31.6	-3	-0.01	-0.05	-0.5	5.1	2	-1
400456	18	-5	3.6	290	19.7	3	17	124	2	4.44	7	-1	-5	-1	2.55	-33	71	0.4	27.4	-3	-0.01	-0.05	-0.5	6.9	2.7	-1
400457	12	-5	1.5	200	9.9	4	22	193	3	5.3	5	-1	-5	-1	2.58	107	-15	-0.2	33.3	-3	-0.01	-0.05	-0.5	7.1	2.9	-1
400458	-2	-5	2.6	280	18	2	20	210	-1	5.23	7	-1	-5	-1	2.65	-34	42	0.5	33.5	-3	-0.01	-0.05	1.8	5.8	3.2	-1
400459	165	-5	4.6	310	14.5	2	40	315	2	6.96	4	-1	-5	-1	2.53	-41	50	-0.2	40.1	-3	-0.01	-0.05	-0.5	5.5	2.4	-1
400460	8	-5	3	390	9.9	3	24	73	1	4.86	6	-1	-5	-1	2.61	-32	54	0.4	27.8	-3	-0.01	-0.05	1.3	4.8	2.5	-1
400461	-2	-5	5.8	300	10	2	26	219	2	5.64	7	-1	-5	-1	2.72	82	63	0.3	24.5	-3	-0.01	-0.05	-0.5	3.6	2.5	-1
400462	-2	-5	5.4	230	32.1	4	25	219	-1	5.76	4	-1	-5	-1	3.44	89	-15	-0.2	41.7	-3	-0.01	-0.05	-0.5	1.9	-0.5	-1
400463	-2	-5	5.5	130	17.9	2	36	270	-1	6.53	3	-1	-5	-1	3.18	71	-15	0.7	48.5	-3	-0.01	-0.05	-0.5	1.2	-0.5	-1
400464	-2	-5	3.7	300	14.3	4	26	135	-1	6.03	6	-1	-5	-1	3.04	-34	-15	-0.2	43.5	-3	-0.01	-0.05	1.5	2	1.5	-1
400465	-2	-5	3.9	160	17.9	4	32	150	2	6.29	5	-1	-5	-1	3.1	-38	-15	-0.2	52	-3	-0.01	0.06	-0.5	2.4	2.1	-1
400466	-2	-5	2.4	200	14.3	5	26	292	1	6.93	3	-1	-5	-1	2.95	-38	-15	0.4	51.6	-3	-0.01	-0.05	-0.5	7.1	3.2	-1
400467	132	-5	2	190	13.9	4	22	262	-1	5.88	3	-1	-5	-1	2.79	-35	-15	-0.2	43.7	-3	-0.01	-0.05	-0.5	5.9	1.4	-1
400468	-2	-5	1.3	430	5.8	3	13	112	1	4.01	9	-1	-5	-1	2.46	-29	-15	0.2	28.5	-3	-0.01	-0.05	-0.5	9.3	3.5	-1
400469	-2	-5	4.8	250	7	4	32	217	1	6.57	2	-1	-5	-1	3.09	-35	45	-0.2	38	-3	-0.01	-0.05	-0.5	3.8	1	-1
400480	-2	-5	1.3	270	10	3	19	107	2	5.15	10	-1	-5	3	1.79	-27	47	0.2	20.1	-3	-0.01	-0.05	1.2	4.9	1.5	-1
400483	-2	-5	1.6	140	4.6	3	19	96	-1	4.17	5	-1	-5	-1	1.95	-27	-15	-0.2	16.1	-3	-0.01	-0.05	-0.5	5.4	2.4	-1
400484	-2	-5	0.9	190	4.1	2	13	87	2	3.48	5	-1	-5	-1	1.85	-26	-15	-0.2	17.1	-3	-0.01	-0.05	-0.5	6.1	2.2	-1
400485	-2	-5	1	170	2.7	2	15	94	2	3.76	5	-1	-5	-1	1.92	-27	-15	-0.2	18	-3	-0.01	-0.05	-0.5	5.9	1.9	-1
400486	-2	-5	1.8	200	4	2	13	78	2	3.48	4	-1	-5	-1	1.84	-25	31	-0.2	16.6	-3	-0.01	-0.05	0.7	6.1	1.9	-1
400487	-2	-5	2.7	230	3.3	2	16	93	1	4.24	5	-1	-5	-1	1.71	-25	35	-0.2	16.9	-3	-0.01	-0.05	1.1	4.5	2.3	-1
400488	-2	-5	2.6	250	4.1	3	21	95	2	4.62	4	-1	-5	-1	1.81	-26	43	-0.2	16.4	-3	-0.01	-0.05	-0.5	6.5	2.5	-1
400489	6	-5	1.5	160	11.2	3	22	68	-1	6.46	4	-1	-5	-1	1.78	-24	-15	-0.1	22.5	-3	-0.01	-0.05	-0.5	2.2	1.2	-1
400490	-2	-5	1.1	220	4.3	3	19	42	-1	4.5	4	-1	-5	-1	3.23	-27	-15	-0.1	18.2	-3	-0.01	-0.05	1.8	4.6	1.4	-1
400491	-2	-5	-0.5	150	6.9	3	16	368	1	3.82	5	-1	-5	-1	2.53	-24	-15	-0.1	14.4	-3	-0.01	-0.05	1.9	3.8	1.2	-1
400492	-2	-5	7.7	170	11.1	2	20	617	-1	4.89	9	-1	-5	-1	1.71	-23	-15	-0.1	14.6	-3	-0.01	-0.05	2	2.3	2	-1
400493	-2	-5	2.2	180	4.5	2	19	894	-1	3.71	8	-1	-5	-1	1.81	-22	30	0.2	14	-3	-0.01	-0.05	1.2	3.5	1	-1
400494	-2	-5	2.4	230	4.6	1	17	608	-1	3.42	7	-1	-5	-1	2.11	-22	-15	-0.1	13.3	-3	-0.01	-0.05	1.6	3.2	1.1	-1
399597	-2	-5	2.2	170	6.7	3	17	118	2	7.79	47	-1	-5	-1	1.97	60	-15	-0.1	29	7	-0.01	-0.05	1.5	2.4	2.2	-1
400598	7	-5	2.2	140	6.8	4	28	76	1	8.29	5	-1	-5	-1	1.82	-26	26	0.2	19.1	-3	-0.01	-0.05	-0.5	2.9	1.4	-1
400599	2	-5	2	120	6.3	4	20	93	-1	6.64	10	-1	-5	-1	1.78	-26	24	0.3	23.4	-3	-0.01	-0.05	1.4	2.7	1.1	-1
400470	-2	-5	2.7	280	8.3	2	26	127	3	5.57	6	-1	-5	-1	1.77	118	52	-0.1	18.3	-3	-0.01	-0.05	-0.5	5.1	2	-1
400471	30	-5	26.7	130	6.5	4	31	246	-1	7.44	4	-1	-5	5	2.65	109	-15	-0.1	19.9	-3	-0.01	-0.05	1.9	4.6	1.1	-1
400472	-2	-5	3.5	240	2.2	3	14	58	-1	3.73	5	-1	-5	-1	2.86	-29	-15	0.6	23.5	-3	-0.01	-0.05	-0.5	3.2	0.8	-1
400473	-2	-5	1.4	170	4.6	4	17	23	-1	4.65	3	-1	-5	-1	3.09	-28	-15	-0.1	16	-3	-0.01	-0.05	2.5	5.3	1.8	-1
400474	8	-5	3.2	170	5.8	2	14	64	-1	3.83	5	-1	-5	-1	2.23	-23	-15	-0.1	11.7	-3	-0.01	-0.05	1.2	3.3	0.9	-1
400475	-2	-5	1.5	240	5	3	14	53	2	4.17	4	-1	-5	-1	3.41	-28	-15	-0.1	16.1	-3	-0.01	-0.05	2	4.1	1.3	-1
400476	15	-5	3.5	340	15.8	1	8	122	2	4.27	4	-1	-5	-1	1.17	-25	61	-0.1	13.6	-3	-0.01	-0.05	0.9	3.4	0.9	-1
400477	-2	-5	-0.5	150	15.3	2	8	136	2	3.13	4	-1	-5	-1	1.23	-22	43	-0.1	12.2	-3	-0.01	-0.05	-0.5	2.8	1.6	-1
400479	25	-5	2.2	210	6.6	3	17	117	-1	4.43	6	-1	-5	-1	1.62	-24	26	-0.1	18.3	-3	-0.01	-0.05	1.6	4	1	-1
400560	5	-5	2.3	170	11.9	3	23	123	-1	6.37	6	-1	-5	-1	1.75	-25	-15	0.2	22.8	-3	-0.01	-0.05	1.1	3	0.8	-1
400561	6	-5	2.4	170	9.2	3	20	101	-1	4.22	5	-1	-5	-1	1.68	-23	20	-0.1	18	-3	-0.01	-0.05	-0.5	4	1.5	-1
400562	-2	-5	3.1	200	13.4	5	31	112	-1	9.43	13	-1	-5	-1	1.94	-31	-15	-0.1	34.5	-3	-0.01	-0.05	1.1	2.4	1.8	-1

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb	Mo ppm	Na %	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm	
400563	-2	-5	-0.5	210	7.9	3	24	132	-1	5.2	9	-1	-5	-1	2.3	65	-15	-0.1	23.4	-3	-0.01	-0.05	-0.5	3	-0.5	-1	
400564	-2	-5	2.5	200	3.8	3	21	146	-1	5.43	11	-1	-5	-1	1.87	54	47	-0.1	22.6	-3	-0.01	-0.05	1.2	4.2	2	-1	
400565	-2	-5	2.7	170	3.2	3	18	120	-1	4.47	7	-1	-5	-1	1.77	70	28	0.2	18.3	-3	-0.01	-0.05	1.7	4.3	1	-1	
400566	8	-5	2.3	270	6.7	3	21	121	1	4.91	10	-1	-5	-1	1.99	-26	45	-0.1	21.8	-3	-0.01	-0.05	1.5	3.4	1	-1	
400567	-2	-5	5.1	300	5.1	1	22	395	4	4.89	5	-1	-5	-1	0.99	176	60	-0.1	16.5	-3	-0.01	-0.05	1.1	3.5	1.9	-1	
400568	-2	-5	1.1	-50	4.6	4	16	46	-1	4.9	4	-1	-5	-1	2.89	-28	-15	-0.1	25.5	-3	-0.01	-0.05	1.2	1.2	-0.5	-1	
400569	8	-5	1.7	120	9.6	-1	19	63	-1	6.46	4	-1	-5	-1	1.73	-26	-15	-0.1	24.9	-3	-0.01	-0.05	-0.5	2.5	0.9	-1	
400570	-2	-5	3.3	110	9.1	4	39	126	-1	7.47	3	-1	-5	5	2.14	-30	-15	-0.1	33.7	-3	0.01	-0.05	-0.5	2.5	0.9	-1	
400571	-2	-5	1.6	160	6.6	4	22	79	-1	5.42	5	-1	-5	-1	2.16	-26	-15	-0.1	25	-3	0.01	-0.05	1.1	1.9	1.2	-1	
400572	-2	-5	1.7	160	9.4	4	24	106	-1	5.55	6	-1	-5	3	2.13	60	33	-0.1	25.9	-3	-0.01	-0.05	-0.5	1.8	1.3	-1	
400551	-2	-5	1.5	210	5.1	3	15	97	2	3.88	7	-1	-5	-1	1.95	-27	23	-0.1	20	-3	-0.01	-0.05	-0.5	9	2.3	-1	
400552	8	-5	-0.5	220	7.5	2	15	100	2	3.67	6	-1	-5	-1	2.02	-26	28	-0.1	16.9	-3	-0.01	-0.05	1.5	6.9	3.1	-1	
400553	-2	-5	2.1	190	3.4	3	14	102	1	3.82	5	-1	-5	-1	1.92	-25	43	-0.1	18	-3	-0.01	-0.05	1.3	7.3	1.7	-1	
400554	-2	-5	1.4	230	5.1	2	14	99	2	3.65	5	-1	-5	-1	1.96	-25	-15	-0.1	16.9	-3	-0.01	-0.05	-0.5	7.3	1.9	-1	
400555	4	-5	1.5	200	12.7	3	31	95	-1	5.34	5	-1	-5	-1	2.55	-25	-15	-0.1	24.2	-3	-0.01	-0.05	1.4	2.3	1.2	-1	
400556	-2	-5	1.3	110	7.3	3	31	50	-1	4.56	3	-1	-5	-1	2.51	-26	-15	-0.1	23.2	-3	-0.01	-0.05	1.7	1.6	-0.5	-1	
400557	10	-5	5	200	8.4	3	18	106	1	3.94	6	-1	-5	-1	1.72	-23	-15	0.2	17.2	-3	-0.01	-0.05	-0.5	3.4	1.5	-1	
400558	-2	-5	3	170	13.4	3	18	109	1	3.49	7	-1	-5	-1	1.65	-22	-15	-0.1	16	-3	-0.01	-0.05	-0.5	2.8	1.7	-1	
400559	-2	-5	3.9	170	19.4	3	26	162	1	4.79	6	-1	-5	-1	1.88	-24	22	-0.1	22.7	-3	-0.01	-0.05	-0.5	2.8	1.5	-1	
400601	19	-5	3.6	170	8.2	4	49	138	-1	6.34	6	-1	-5	-1	2.84	-29	29	0.2	30.1	-3	-0.01	-0.05	1	3.1	-0.5	-1	
400602	-2	-5	5.1	190	8.6	2	25	92	1	4.53	8	-1	-5	4	1.74	-23	-15	0.2	17.2	-3	-0.01	-0.05	1.6	3.3	2.2	-1	
400603	-2	-5	2.4	230	4	3	32	106	1	5.66	5	-1	-5	-1	2.44	-25	28	-0.1	23	-3	-0.01	-0.05	1.5	3.3	1.7	-1	
400604	-2	-5	5.2	160	8.2	3	24	152	2	4.53	7	-1	-5	-1	1.68	92	46	-0.1	18.8	-3	-0.01	-0.05	-0.5	3.2	1.6	-1	
400605	-2	-5	11	200	6	3	56	263	2	5.19	5	-1	-5	2	1.55	190	41	-0.1	20.6	-3	-0.01	-0.05	0.5	3.4	1.1	-1	
400606	-2	-5	8.6	230	6.7	4	48	248	2	4.77	6	-1	-5	2	1.47	162	36	0.3	21.1	-3	-0.01	-0.05	0.9	2.5	1.1	-1	
400607	-2	-5	17.4	170	6.1	4	42	216	3	5.11	6	-1	-5	-1	1.74	201	31	-0.1	20.9	-3	-0.01	-0.05	-0.5	3.5	1.6	-1	
400608	-2	-5	4.1	240	9.6	3	48	99	1	4.93	8	-1	-5	-1	1.92	-24	34	0.2	19.9	-3	-0.01	-0.05	1.1	3.7	1.7	-1	
400609	-2	-5	3	160	8.3	5	40	77	-1	6.52	6	-1	-5	-1	2.06	-25	-15	0.3	26.4	-3	-0.01	-0.05	-0.5	3.2	1.7	-1	
400610	3	-5	1.9	180	5.6	4	21	82	-1	5.41	7	-1	-5	-1	2.05	-41	24	-0.1	22.2	-3	-0.01	-0.05	1.5	3.2	1.5	-1	
400611	-2	-5	8.6	190	6.2	2	21	92	1	4.87	7	-1	-5	4	1.64	-22	36	-0.1	14.2	-3	-0.01	-0.05	0.9	4.7	1.5	-1	
400612	-2	-5	3	200	5.7	2	17	104	2	3.74	12	-1	-5	-1	1.67	85	26	0.2	15.6	-3	-0.01	-0.05	1.6	5.7	2.2	-1	
400301	-2	-5	2.6	440	6.9	3	16	66	3	5.12	10	-1	-5	-1	2.14	-24	79	0.5	23.5	-3	-0.01	-0.05	0.7	1.3	7.1	6.3	-1
400302	-2	-5	1.1	340	5	3	11	60	2	4.58	12	-1	-5	-1	2.01	-21	56	0.3	22.8	-3	-0.01	-0.05	1.2	5.6	5.3	-1	
400303	3	-5	1.2	410	2.2	3	9	56	2	3.81	13	-1	-5	-1	2.22	-22	56	0.4	21.8	-3	-0.01	-0.05	1.7	5.3	4.8	-1	
400304	8	-5	2.5	520	5.6	3	18	316	4	4.18	6	-1	-5	-1	2.85	109	59	0.6	27.4	-3	-0.01	-0.05	-0.5	15	5.4	-1	
400305	-2	-5	2.2	610	4.3	3	12	82	4	3.12	5	-1	-5	-1	2.68	-23	101	0.7	19.1	-3	-0.01	-0.05	1.5	11.2	3.7	-1	
400306	7	-5	18.9	550	8.5	3	15	79	4	4.38	7	-1	-5	11	1.74	-21	114	1.5	18.2	-3	-0.01	-0.05	0.9	10.5	10.3	4	
400307	15	-5	2.6	270	9.4	3	12	52	2	3.8	9	-1	-5	-1	1.92	-21	87	0.3	17	-3	-0.01	-0.05	2	7.3	12.8	-1	
400308	-2	-5	2.9	350	8.1	2	9	41	2	3.1	10	-1	-5	8	1.91	-20	74	0.3	13.1	-3	-0.01	-0.05	1.7	6.6	9.1	-1	
400309	10	-5	2	340	5.8	2	8	38	2	3.13	17	-1	-5	-1	1.97	-20	66	0.2	14.6	-3	-0.01	-0.05	1.6	5.8	7.3	-1	
400310	-2	-5	1.8	610	6.2	4	22	417	4	4.53	6	-1	-5	-1	3.11	158	74	0.6	31.5	-3	-0.01	-0.05	0.1	-0.5	17.5	5.3	-1
400311	-2	-5	9.6	120	14.9	2	18	82	-1	4.71	10	-1	-5	-1	1.66	-20	26	0.2	19.2	-3	-0.01	-0.05	1.6	4.9	3.1	-1	
400312	6	-5	9.7	210	22.9	3	16	79	2	4.69	9	-1	-5	-1	1.78	-22	35	0.4	18.4	-3	-0.01	-0.05	0.9	4.7	3.7	-1	
400313	3	-5	6	300	18.5	3	16	78	2	4.51	11	-1	-5	-1	1.8	-20	31	0.5	18	-3	-0.01	-0.05	-0.5	4.7	3.6	-1	
400314	-2	-5	7.1	260	15.5	3	15	78	1	4.76	12	-1	-5	3	1.87	-20	20	0.4	18.5	-3	-0.01	-0.05	-0.5	5	3.8	-1	
400315	13	-5	14.4	220	17.4	2	18	70	1	4.2	11	-1	-5	23	1.67	-20	36	0.5	17.5	-3	-0.01	-0.05	1.4	4.7	3.7	11	
400316	-2	-5	4.3	210	13.1	3	18	110	-1	4.67	15	-1	-5	-1	1.63	56	23	0.2	19.4	-3	-0.01	-0.05	1.5	4	2.4	-1	
400317	-2	-5	4.9	290	11.6	3	19	130	-1	5.47	20	-1	-5	-1	1.69	-20	33	0.3	22.4	-3	-0.01	-0.05	0.7	1.5	4.3	2.4	-1
400318	-2	-5	23.9	210	12.8	3	16	100	-1	9.42	13	-1	-5														

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb	Mo ppm	Na %	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm
328113	-2	-5	5.6	230	12	3	17	88	-1	4.7	7	-1	-5	6	1.78	-30	32	0.4	18.1	-3	-0.01	-0.05	1.1	4.2	3	-1
328114	-2	-5	20.9	300	48.5	2	28	164	3	5.87	4	-1	-5	-1	1.48	78	20	0.9	25.4	-3	-0.01	-0.05	1.4	3.7	3.2	-1
328140	12	-5	40.5	150	13.9	-1	67	72	-1	8.94	2	-1	-5	-1	1.59	-37	-15	5.1	34.4	-3	-0.01	-0.05	1	0.8	-0.5	-1
328142	-2	-5	25.2	260	35	3	43	151	2	11.4	7	-1	-5	-1	1.98	84	-15	0.5	34.9	-3	-0.02	-0.05	1.5	1.8	0.5	-1
328143	17	-5	128	380	75.8	4	63	92	2	10.5	3	-1	-5	-1	1.54	80	-15	1.5	29.8	-3	-0.01	-0.05	-0.5	2	1.2	-1
328144	-2	-5	171	180	51.8	2	66	94	1	10.3	3	-1	-5	-1	1.76	100	-15	1.6	29.5	-3	-0.01	-0.05	-0.5	2	0.7	-1
328145	16	-5	38	270	37.8	2	46	264	-1	8.5	4	-1	-5	-1	2.09	131	38	0.9	23.2	-3	-0.01	-0.05	-0.5	2.4	1	-1
328146	117	-5	4.1	220	20.6	5	39	118	2	10.2	4	-1	-5	-1	1.83	65	-15	0.2	39.4	-3	-0.01	-0.05	1.4	0.2	-0.5	5
328147	18	-5	9.2	170	18.4	5	50	132	3	10.6	3	-1	-5	-1	1.7	77	-15	0.2	41.5	-3	-0.01	-0.05	1.4	1	1.8	3
328148	655	-5	4.3	200	24.7	6	37	87	2	9.89	3	-1	-5	-1	1.96	-36	-15	0.4	40.4	-3	-0.01	-0.05	0.8	-0.2	-0.5	9
328149	8	-5	105	150	53.4	3	117	104	-1	8.01	3	-1	-5	6	1.7	137	-15	1.5	31.7	-3	-0.02	-0.05	-0.5	0.2	-0.5	-1
328150	-2	-5	94.1	220	46.1	3	68	277	3	11.7	3	-1	-5	-1	1.64	200	-15	0.9	36.9	-3	-0.01	-0.05	1.2	2	1.1	-1
400333	-2	-5	8.9	100	8.7	3	44	244	2	10.4	3	-1	-5	-1	1.93	158	-15	0.4	46.9	-3	-0.01	-0.05	1.3	0.8	-0.5	-1
400334	-2	-5	32.3	100	12.6	3	38	112	-1	11.2	4	-1	-5	-1	1.89	61	-15	0.3	46.2	-3	-0.01	-0.05	-0.5	1.2	-0.5	-1
400335	26	-5	42.7	130	41.6	3	64	249	-1	11.3	3	-1	-5	-1	1.74	132	-15	0.5	40.1	-3	-0.01	-0.05	1.1	1.5	-0.5	-1
400336	-2	-5	10.7	100	14.4	4	44	100	2	9.89	2	-1	-5	-1	1.9	65	-15	0.3	35.8	-3	-0.01	-0.05	1.1	2	-0.5	-1
400337	-2	-5	15.4	100	24.7	4	34	145	-1	9.78	6	-1	-5	-1	1.48	84	-15	0.4	33.5	-3	-0.02	-0.05	1	1.7	-0.5	-1
400338	-2	-5	15.6	120	37.8	4	56	208	-1	12.6	3	-1	-5	-1	1.6	130	-15	0.7	49.9	-3	-0.02	-0.05	0.7	1.8	1.4	-1
400339	-2	-5	18	180	34	3	40	159	-1	11.2	6	-1	-5	-1	1.51	81	-15	0.5	39.1	-3	-0.01	-0.05	0.8	1.6	-0.5	-1
400340	12	-5	19.7	100	27	4	50	165	-1	11.3	5	-1	-5	-1	1.62	83	-15	0.6	43.4	-3	-0.01	-0.05	-0.5	1.6	-0.5	-1
400341	-2	-5	21.2	190	20.8	4	54	147	1	10.6	4	-1	-5	-1	1.58	100	-15	0.7	41.1	-3	-0.01	-0.05	-0.5	1.6	1	-1
400342	-2	-5	7.8	170	31.6	2	39	134	2	9.92	3	-1	-5	-1	1.86	74	-15	0.7	35.5	-3	-0.01	-0.05	-0.5	2.8	-0.5	-1
400343	-2	-5	8.1	120	93.9	5	43	191	2	11.2	2	-1	-5	-1	1.5	84	-15	0.3	35.9	-3	-0.01	-0.05	1.2	1.6	1.3	3
400344	-2	-5	10.5	190	25.3	5	47	467	-1	11.8	3	-1	-5	-1	1.35	180	-15	0.3	37.4	-3	-0.01	-0.05	1.2	1.8	1.3	-1
400345	-2	-5	11.2	150	68.6	4	32	104	2	9.96	5	-1	-5	2	1.81	65	-15	0.3	36.4	-3	-0.01	-0.05	1	1.2	-0.5	3
328115	40	-5	2.7	170	31.4	6	43	138	2	8.84	4	-1	-5	-1	1.89	83	-15	-0.1	33.2	-3	-0.01	-0.05	-0.5	0.9	0.9	3
328116	117	-5	3.3	170	38.5	6	58	148	-1	11.1	3	-1	-5	3	1.45	83	-15	-0.1	30.2	-3	-0.01	-0.05	-0.5	1	1	-1
328117	46	-5	3.6	94	47.7	5	36	137	1	5.79	3	-1	-5	3	1.62	97	-15	0.3	18.4	-3	-0.01	-0.05	1	1.1	1.5	8
328118	25	-5	20.5	130	37	4	42	367	-1	9.17	2	-1	-5	-1	1.67	152	-15	0.5	36.7	-3	-0.01	-0.05	0.8	1.1	-0.5	-1
328119	17	-5	6.8	200	18.9	4	40	214	2	9.11	4	-1	-5	-1	2.11	103	20	0.3	33.4	-3	-0.01	-0.05	-0.5	1.7	1.2	4
328120	9	-5	46.4	150	15.7	-1	59	91	1	9.65	2	-1	-5	-1	1.55	75	-15	6.2	37.6	-3	-0.01	-0.05	-0.5	0.7	-0.5	-1
328121	6	-5	126	260	15	-1	28	150	-1	4.89	4	-1	-5	-1	1.69	80	40	5.7	14.8	-3	-0.02	-0.05	-0.5	3.5	1.2	-1
328122	37	-5	5.9	240	32.3	6	52	220	-1	9.98	3	-1	-5	-1	1.81	101	23	1.2	45.1	-3	-0.01	0.09	-0.5	0.6	-0.5	-1
328187	12	-5	11.2	100	35.9	4	34	190	3	9.38	3	-1	-5	-1	2.14	89	23	0.4	52.1	-3	-0.02	-0.05	-0.5	0.8	-0.5	-1
328188	8	-5	7.6	240	17.9	3	52	120	2	12	4	-1	-5	-1	1.67	101	-15	1	33.5	-3	-0.01	-0.05	-0.5	1.6	-0.5	-1
328189	-2	-5	44.3	200	25.1	2	60	220	2	8.75	3	-1	-5	-1	1.66	211	-15	8.2	31.5	-3	-0.01	-0.05	-0.5	0.9	-0.5	-1
328195	114	-5	131	240	39.4	-1	47	130	1	7.33	2	-1	-5	4	0.99	130	38	1.4	27.5	-3	-0.01	-0.05	-0.5	0.9	-0.5	-1
328196	29	-5	7.1	240	14.7	1	40	97	2	11.1	4	-1	-5	-1	2.11	65	-15	1.3	46.9	3	-0.02	-0.05	1	1.2	-0.5	-1
328197	-2	-5	4.5	350	21.1	3	38	92	5	11.4	4	-1	-5	-1	1.87	53	36	0.8	43	-3	-0.02	-0.05	-0.5	0.9	-0.5	-1
328198	16	-5	2.2	-50	26.2	6	41	140	-1	10.1	4	-1	-5	-1	1.79	70	-15	0.2	36.7	-3	-0.01	-0.05	-0.5	0.8	-0.5	-1
328199	-2	-5	4	160	29.7	5	33	110	-1	9.43	6	-1	-5	-1	1.67	60	20	0.3	34.5	-3	-0.01	-0.05	1.2	0.8	-0.5	-1
328200	146	-5	1.4	200	52.1	5	40	200	2	8.18	4	-1	-5	-1	2.05	121	-15	0.3	29.8	-3	-0.01	-0.05	1.2	1.2	-0.5	-1
400576	-2	-5	7.7	130	21.3	6	48	290	2	7.08	5	-1	-5	-1	1.28	110	-15	0.5	32	-3	-0.01	-0.05	-0.5	1.4	1.1	-1
400577	-2	-5	1.8	260	18.6	4	29	130	1	5.97	11	-1	-5	-1	1.5	-20	-15	0.4	25.6	-3	-0.01	-0.05	-0.5	1.9	1.1	-1
400578	-2	-5	8	150	13	5	43	140	-1	7.1	7	-1	-5	-1	1.37	55	-15	1.6	30.9	-3	-0.01	0.08	-0.5	1.4	1.3	2
328132	21	-5	19.7	190	82.2	-1	33	78	-1	8.76	3	-1	-5	-1	1.62	50	-15	2.7	34.8	-3	-0.02	-0.05	-0.5	1.1	-0.5	10
328133	70	-5	203	430	65.9	-1	43	200	-1	7.88	3	-1	-5	-1	1.47	122	37	5.8	35.5	-3	-0.02	-0.05	-0.5	0.6	-0.5	3
328134	47	-5	7.6	130	91.7	5	29	150	-1	7.62	3	-1	-5	-1	1.6	81	-15	1.6	37.9	-3	-0.01	-0.05	-0.5	0.5	-0.5	-1
328135	264	-5	6.4	120	33.2	6	45	200	-1	8.77	3	-1	-5	-1	1.66	170	-15	1	44.5	-3	-0.01	-0.05	-0.5	1.1	-0.5	-1
328136	59	-5	15.2	290	47	2	40	150	2	7.82	3	-1	-5	-1	2.01	71	-15	2.5	30	-3	-0.01	0.05	0.7	1.7	-0.5	-1
328137	272	-5	84.7	310	97	2	39	140	2	9.8	4	-1	-5	-1	1.83	90	-15	3.6	27.8	-3	-0.02	-0.05	-0.5	2.2	1.2	-1
328138	11	-5	21.6	100	48.1	3	23	120	-1	9.02	4	-1	-5	-1	1.48	50	-15	1.5	34	-3	-0.01	-0.05	1.3	1	1.1	-1
328139	7	-5	25	190	18	4	38	120	1	9.78	5	-1	-5	-1	1.81	80	-15	0.7	33.6	-3	-0.01	-0.05	-0.5	1.9	-0.5	-1
400322	-2	-5	1.7	110	35.2	5	34	120	-1	9.29	5	-1	-5	-1	1.72	61	-15	0.3	37.4	-3	-0.01	-0.05	0.9	0.8	-0.5	-1
400323	-2	-5	5.5	170	40.1	3	41	620	2	6.66	4	-1	-5	-1	1.8	189	-15	0.4	21	-3	-0.01	-0.05	-0.5	1.8	1.3	-1
400324	-2	-5	3.8	250	18.3	5	36	190	-1	9.3	4	-1	-5	-1	1.79	72	-15	-0.1	38.4	-3	-0.02	-0.05	-0.5	1.1	0.8	-1

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb	Mo ppm	Na %	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm
400325	38	-5	5.2	150	29.4	6	40	359	-1	9.2	4	-1	-5	-1	1.55	-44	-15	-0.1	30.7	-3	-0.02	-0.05	2	1	-0.5	-1
400326	-2	-5	5.1	200	20.2	5	40	319	-1	8.5	4	-1	-5	-1	1.53	-43	46	0.3	25.4	-3	-0.02	-0.05	-0.5	2.6	-0.5	-1
400327	51	-5	3.5	270	17.5	3	24	480	2	4.22	5	-1	-5	-1	1.68	130	55	0.2	18.3	-3	-0.01	-0.05	-0.5	2.2	1.9	-1
400328	-2	-5	5.7	180	15.6	4	52	170	2	12	4	-1	-5	-1	1.76	84	21	0.4	41.6	-3	-0.02	-0.05	-0.5	1.3	0.9	-1
400329	-2	-5	5.8	140	21.4	4	51	210	-1	12.9	4	-1	-5	-1	1.87	110	-15	0.4	41.2	-3	-0.02	-0.05	-0.5	1.2	-0.5	-1
400330	-2	-5	5	85	8.6	5	45	250	2	9.95	3	-1	-5	-1	1.73	110	-15	0.5	43.4	-3	-0.01	-0.05	-0.5	0.9	-0.5	-1
400331	-2	-5	4.9	190	9.1	6	42	190	1	10.5	3	-1	-5	-1	1.93	102	-15	0.6	40.5	-3	-0.01	-0.05	-0.5	0.8	-0.5	-1
400332	321	-5	20.4	90	11.5	3	42	190	-1	12.1	5	-1	-5	-1	1.9	74	-15	0.5	43	-3	-0.02	-0.05	1.4	1.2	-0.5	-1
401151	3	-5	4.2	200	12.9	3	18	110	1	4.72	12	-1	-5	16	1.76	-20	32	0.3	19.9	-3	-0.01	-0.05	1.3	4.5	5.7	3
401152	-2	-5	2.5	220	6.6	3	14	93	-1	4.7	15	-1	-5	5	1.56	-20	21	0.3	19.1	-3	-0.01	-0.05	2	4.4	3.3	2
401153	-2	-5	2.8	190	8.3	3	13	78	-1	4.28	12	-1	-5	-1	1.59	-20	22	-0.1	18.7	-3	-0.01	-0.05	1.1	3.3	2.5	-1
401154	-2	-5	26.4	330	21.7	3	23	170	-1	6.15	9	-1	-5	-1	2.17	-26	-15	0.9	25.2	-3	0.13	-0.05	-0.5	3.9	1.6	-1
401155	-2	-5	47.3	220	9.7	3	15	140	-1	4.48	9	-1	-5	3	1.63	-20	17	0.5	18.8	-3	-0.01	-0.05	-0.5	2.9	1.7	2
401156	-2	-5	74.7	480	27.5	4	25	226	-1	5.85	7	-1	-5	-1	1.86	51	-15	0.4	22.5	-3	-0.02	-0.05	-0.5	3.3	3.3	-1
401157	-2	-5	3.1	170	4.5	3	14	110	-1	4.81	13	-1	-5	-1	1.45	-20	24	0.3	20.1	-3	-0.01	-0.05	1.6	3.8	3	-1
401158	-2	-5	3.8	270	6.3	4	17	100	2	4.52	9	-1	-5	-1	1.78	-20	28	0.3	18.6	-3	-0.01	-0.05	1.1	4	2.1	-1
328101	-2	-5	2.5	140	22.2	4	29	120	-1	5.08	14	-1	-5	7	1.49	-20	29	0.3	19.4	-3	-0.01	-0.05	1.8	4.2	3.5	-1
328102	-2	-5	7.8	200	27.5	4	43	130	-1	5.85	12	-1	-5	2	1.48	-20	-15	0.4	22.9	-3	-0.01	-0.05	-0.5	3	1.8	-1
328103	-2	-5	12.5	190	32.5	3	32	110	2	5	10	-1	-5	-1	1.6	-20	-15	-0.1	20	-3	-0.01	-0.05	-0.5	3.2	1.6	-1
328104	-2	-5	12.6	240	23.6	4	29	110	2	5.29	12	-1	-5	-1	1.7	63	19	-0.1	21.7	-3	-0.01	-0.05	1.3	3.3	1.4	-1
328105	-2	-5	16.2	200	80.6	4	200	180	-1	8.3	11	-1	-5	7	1.98	330	-15	0.5	26	-3	-0.02	-0.05	1.6	3.6	2	-1
328106	-2	-5	11.2	190	12.8	-1	43	240	1	8.1	3	-1	-5	-1	2.75	93	-15	-0.1	37.9	-3	-0.02	-0.05	-0.5	1.4	-0.5	-1
328107	-2	-5	22.3	280	12.9	3	31	90	-1	7.55	5	-1	-5	-1	3.18	-34	-15	0.3	44.1	-3	-0.02	-0.05	-0.5	2.2	-0.5	-1
328108	15	-5	9.4	180	20.6	-1	49	610	-1	7.79	9	-1	-5	-2	1.64	210	-15	-0.1	26.1	-3	-0.02	-0.05	-0.5	4.1	-0.5	-1
400573	8	-5	138	130	31.3	-1	32	76	-1	8.03	4	-1	-5	-1	3.25	-32	-15	-0.1	35.9	-3	-0.02	-0.05	-0.5	1.6	1.5	-1
400574	-2	-5	124	150	26.5	2	27	71	-1	7.17	6	-1	-5	-1	2.95	-31	-15	-0.1	43.5	-3	-0.02	-0.05	-0.5	2	-0.5	-1
400575	-2	-5	10.5	150	22.1	2	32	60	-1	9.91	4	-1	-5	-2	3.99	-42	-15	-0.1	54.2	-3	-0.03	-0.05	-0.5	1.6	-0.5	-1
400579	-2	-5	30.9	220	16.6	5	51	190	1	9.17	6	-1	-5	-1	1.72	-33	-15	1.2	38.7	-3	-0.02	-0.05	-0.5	1.8	-0.5	-1
400580	-2	-5	30.8	120	17.8	5	42	150	-1	9.2	7	-1	-5	-1	1.71	-27	-15	0.9	34.1	-3	-0.02	-0.05	1	1.6	-0.5	3
DMMAS-14-2374	574	10	2460	380	2.8	9	69	130	2	8.5	2	-1	-5	7	0.77	-20	40	12.5	19.2	-3	0.08	-0.05	-0.5	1.4	-0.5	18
DMMAS-14-2373	576	-5	2440	430	3.2	8	71	140	2	8.58	2	-1	-5	-1	0.79	-21	42	11	19.7	-3	-0.02	-0.05	-0.5	1.4	0.5	18
DMMAS-14-2371	628	-5	2410	390	3.3	9	70	130	2	8.6	3	-1	-5	-1	0.77	-20	32	12.3	19.2	-3	-0.02	-0.05	-0.5	1.5	1.2	18
DMMAS-14-2370	544	-5	2430	440	2.8	8	70	130	-1	8.38	2	-1	-5	12	0.79	-33	38	12.9	19.9	-3	-0.02	-0.05	-0.5	1.5	-0.5	17
DMMAS-14-2366	594	13	2430	350	3.1	8	69	138	2	8.58	2	-1	-5	-1	0.78	-28	35	10.8	20.4	7	-0.01	-0.05	-0.5	1.4	-0.5	18
DMMAS-14-2365	564	-5	2400	450	3	9	69	140	2	8.38	2	-1	-5	2	0.76	131	33	11.2	20.1	-3	-0.01	-0.05	-0.5	1.5	-0.5	17
DMMAS-14-2363	578	-5	2480	430	3	8	69	131	2	8.53	2	-1	-5	11	0.78	-33	42	11.2	20	-3	-0.02	-0.05	-0.5	1.5	-0.5	18
DMMAS-14-2361	542	-5	2390	400	3.2	8	68	130	-1	8.21	2	-1	-5	12	0.75	-31	39	11.5	19.3	-3	-0.02	-0.05	-0.5	1.5	-0.5	18
DMMAS-14-2360	546	-5	2380	420	3.1	8	67	130	-1	8.37	2	-1	-5	-1	0.78	-32	37	11.7	19.6	-3	-0.02	-0.05	0.9	1.4	-0.5	17
DMMAS-14-2359	585	-5	2380	410	2.8	8	71	130	2	8.56	2	-1	-5	8	0.76	-35	45	11.7	20	-3	-0.02	-0.05	-0.5	1.6	-0.5	17
DMMAS-14-2358	569	-5	2470	430	2.8	9	70	140	2	8.64	2	-1	-5	-2	0.8	-40	42	12.3	20.2	-3	-0.02	-0.05	-0.5	1.5	-0.5	18

Accepted Value: DMMAS-14

590+60 2450+70 450+70 2.8+1.0 8.5+1 70.7+10 141+16 8.64+0.8 2.5+1 0.79+0.10 45+10 11.7+1.1 20.5+2.1 1.4+1.0 18+4

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Mass g
328051	113	12.8	23	-5	1.7	0.6	-0.5	2.2	0.44	18.95
328052	800	5.8	9	-5	1.4	-0.2	-0.5	1.6	0.22	25.29
328053	-50	6.8	16	13	2.8	0.7	-0.5	3.5	0.5	29.53
328054	80	3.3	9	-5	1.6	0.5	-0.5	3.2	0.52	28.8
328055	123	1.7	4	-5	0.9	-0.2	-0.5	1.9	0.29	27.74
328056	549	2.5	6	-5	1	0.5	-0.5	1	0.1	30.04
328057	201	3	6	-5	1.1	0.8	-0.5	2.1	0.31	26.19
328058	-50	1.3	-3	-5	0.4	0.6	-0.5	0.9	0.1	32.13
328059	-50	3.2	8	-5	1.3	0.4	-0.5	2.8	0.46	29.72
400451	-50	21.5	39	16	4.3	1.1	-0.5	2.9	0.45	35.54
400452	-50	26.2	51	21	5.7	1.3	0.7	4.1	0.6	36.39
400453	1190	33.4	59	21	5.5	1.4	-0.5	3.4	0.49	30.52
400454	1230	51.7	82	21	5.9	1.5	-0.5	2.4	0.37	25.05
400455	96	28.3	48	16	4.9	1.2	-0.5	2.7	0.44	33.09
400456	66	29.8	59	21	5.1	1.4	-0.5	2.8	0.44	31.96
400457	82	39.5	66	26	5.7	1.5	-0.5	2.8	0.44	35.21
400458	104	31.7	58	16	5.2	1.4	-0.5	3.1	0.53	33.23
400459	254	25	45	13	4.3	1.3	-0.5	2.7	0.43	26.05
400460	-50	28.6	49	17	5.3	1.5	-0.5	3.1	0.48	33.92
400461	198	19.2	31	11	3.8	0.9	-0.5	3.1	0.46	31.13
400462	130	18.5	32	16	4.4	1.2	0.7	2.5	0.38	30.7
400463	189	9.1	20	8	3.5	1.1	-0.5	2.5	0.43	29.75
400464	157	17.8	32	11	4.7	1.4	-0.5	3.1	0.46	33.88
400465	159	18.7	36	15	5.5	1.6	1	3.4	0.51	30.64
400466	-50	31.3	51	17	5.2	1.3	0.7	2.6	0.45	30.44
400467	108	27.6	48	19	4.7	1.4	0.6	2.4	0.39	31.39
400468	136	46.6	74	29	6.4	1.6	0.9	3	0.43	36.64
400469	138	20.9	39	19	4.3	1.1	-0.5	2.5	0.39	29.98
400480	105	36.9	62	30	5.9	1.6	0.7	3.4	0.53	33.1
400483	120	24.2	47	16	4	1	-0.5	1.9	0.34	28.47
400484	73	20.4	41	14	4.1	1.1	-0.5	2.5	0.36	30.37
400485	-50	22.7	45	14	4.3	1	0.6	2.6	0.4	29.29
400486	76	23.5	45	19	4.3	1.2	-0.5	2.5	0.4	30.71
400487	91	22.2	40	17	4.3	1	-0.5	2.6	0.39	31.66
400488	112	31.4	56	16	4.9	1.1	0.6	2.4	0.4	29.85
400489	116	10.4	19	12	2.6	0.9	-0.5	2.1	0.33	39.72
400490	104	34.9	55	21	4.4	1.2	-0.5	2.4	0.37	33.75
400491	85	25.6	40	13	3.2	0.9	-0.5	2.1	0.37	36.37
400492	75	15.3	27	12	2.4	0.6	-0.5	2.8	0.4	35.88
400493	75	24.3	39	14	3.4	1	-0.5	2.6	0.4	36.42
400494	58	22.8	36	15	3.2	1	-0.5	2.3	0.39	36.88
399597	139	19	35	20	5.9	2.3	0.9	6.9	1.15	32.16
400598	122	28.4	53	29	9.4	2.3	0.9	3.7	0.54	36.81
400599	123	22.6	43	24	6.9	1.9	0.8	3.7	0.56	36.4
400470	125	23.1	45	17	4.8	1	0.8	3	0.51	26.19
400471	-50	31.1	53	15	4.2	1.1	-0.5	2.2	0.41	31.53
400472	162	25.8	43	12	5	1.4	-0.5	3.2	0.45	29.47
400473	119	42.8	68	21	4.6	1.3	-0.5	2.2	0.3	31.54
400474	-50	28.9	41	18	3.5	1	-0.5	2	0.32	33.18
400475	80	42.2	63	20	4.8	1.4	0.6	2.5	0.37	31.82
400476	-50	26.4	45	17	4.9	0.9	0.7	2	0.32	24.75
400477	64	15.7	25	11	2.4	0.7	-0.5	1.8	0.31	28.14
400479	70	22.6	37	14	4.2	1	0.6	2.7	0.42	35.34
400560	-50	16.8	32	16	4.5	1.4	-0.5	3.3	0.51	35.96
400561	119	19.8	32	10	3.7	0.9	-0.5	2.3	0.39	37.3
400562	190	22.9	46	26	8.3	2.3	1.1	5.1	0.8	37.82

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Mass g
400563	113	17.3	35	17	4.3	1.1	0.9	4	0.64	36.62
400564	101	19.6	40	16	3.9	1.1	0.6	3.7	0.56	38.21
400565	56	19.5	38	16	3.8	0.9	0.8	3	0.46	36.88
400566	71	18	36	17	3.8	1	0.5	3.7	0.53	38.09
400567	114	12	21	5	1.5	0.5	-0.5	1.8	0.34	26.81
400568	-50	7.3	15	7	2.1	0.7	-0.5	3.1	0.48	37.13
400569	139	10.3	24	6	2.4	0.8	0.8	7.4	1.09	37.34
400570	101	10.2	24	5	2.9	0.9	-0.5	3.2	0.48	37.28
400571	87	12.3	22	8	2.8	0.9	-0.5	2.8	0.46	38.69
400572	100	10.2	21	10	2.7	0.9	-0.5	3.2	0.5	36.08
400551	58	29.4	66	25	6.2	1.5	0.6	2.9	0.54	27.06
400552	177	23.8	49	18	4.8	1.1	-0.5	2.7	0.46	26.42
400553	132	23	48	21	4.8	1.1	-0.5	2.7	0.45	28.29
400554	119	21.8	47	17	4.6	1.1	0.7	2.5	0.4	26.51
400555	129	14.1	28	11	3.1	0.9	-0.5	2.9	0.45	36.12
400556	109	9.7	23	9	2.3	0.7	-0.5	2.9	0.44	31.17
400557	72	18.3	33	14	3.5	1	0.5	2.7	0.42	32.17
400558	62	12.9	24	11	2.7	0.8	0.5	2.2	0.37	32.88
400559	75	17.1	33	14	3.7	1.1	-0.5	3	0.46	33.53
400601	151	19.6	43	15	4.9	1.4	0.8	3.8	0.55	30.96
400602	104	24.2	42	18	4.4	1	0.7	3.8	0.6	32.31
400603	107	25.9	40	19	4.7	1.2	0.7	3.5	0.52	31.85
400604	102	20.6	35	14	3.7	0.9	0.5	2.6	0.43	32.17
400605	111	29.8	44	22	4.6	1.2	0.6	2.7	0.41	31.93
400606	114	18.7	32	12	3.6	1	-0.5	2.7	0.4	32.29
400607	77	22.9	37	19	4.4	1.2	0.6	2.9	0.47	32.22
400608	133	22.5	40	18	4.4	1.2	0.6	3.3	0.5	29.29
400609	121	21.4	39	17	4.8	1.3	0.6	3.9	0.6	33.36
400610	115	23.7	43	16	4.9	1.4	0.6	4.1	0.59	32.46
400611	130	21.6	42	17	3.5	0.7	-0.5	2.4	0.4	27.22
400612	115	26.6	51	20	4.6	1.2	0.6	3.7	0.62	34.32
400301	82	44.4	79	33	7.5	1.8	1.1	4.9	0.74	31.85
400302	-50	35.9	62	26	6	1.7	0.7	5	0.77	39.19
400303	64	36.5	64	23	6.2	1.7	1	4.6	0.71	34.76
400304	110	81.6	139	50	11.8	2.4	1.4	4.8	0.66	27.22
400305	-50	59.2	98	37	8.5	1.8	0.9	3.3	0.5	32.39
400306	85	50.1	94	39	7.7	1.7	0.9	4.2	0.66	33.95
400307	59	28.9	54	20	4.7	1.2	0.8	4.3	0.63	32.94
400308	-50	25.4	48	16	4.1	1	0.6	3.8	0.59	35.59
400309	-50	30.8	51	20	4.9	1.2	0.6	5.2	0.8	40.65
400310	79	97.3	166	65	14.2	3.2	1.6	5	0.74	27.89
400311	87	22.3	58	13	3.9	1.1	0.6	4.4	0.65	35.04
400312	88	20.3	35	18	3.5	1	0.6	3.9	0.6	31.3
400313	53	19.8	38	19	3.9	1.2	-0.5	4.1	0.63	31.54
400314	71	20.8	41	14	4.1	1.3	0.9	4.5	0.69	29.26
400315	66	25.7	48	18	4.4	1.3	-0.5	4.1	0.65	33.95
400316	76	23.4	40	17	4.3	1.2	0.8	5.1	0.82	34.09
400317	88	24.4	42	19	4.7	1.4	0.9	6.6	1.07	34.61
400318	143	18.9	36	18	4.1	1.3	0.8	4.6	0.72	37.12
400319	-50	2.6	6	-5	0.6	0.3	-0.5	0.9	0.17	44.61
400320	109	13.6	27	13	3.4	1	0.5	4.1	0.67	33.08
400321	54	16.4	30	12	3.5	1.1	0.6	5	0.77	36.72
328109	74	23	42	17	3.9	1.2	0.7	3.8	0.57	32.79
328110	64	17.9	31	14	3.3	1.1	0.6	4.2	0.67	34.67
328111	64	19.8	37	13	3.6	1	1	4	0.62	36.03
328112	73	23.5	43	19	4.1	1.2	0.7	4.2	0.68	31.68

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Mass g
328113	57	23.6	40	11	4.3	1.2	0.7	3.4	0.53	38.54
328114	252	19.5	35	11	3.9	0.9	0.9	2.7	0.42	24.94
328140	174	9	21	9	3.4	1	0.8	2.5	0.38	31.28
328142	195	21.9	46	20	7.3	2.1	1.1	4.9	0.75	25.84
328143	356	21.6	44	17	4.1	1.2	0.7	2.4	0.38	27.22
328144	307	20.2	41	9	4.2	1.1	1	2.2	0.38	29.26
328145	191	20.5	37	9	4.1	1	-0.5	2	0.36	28.05
328146	203	10	22	10	3.8	1.1	0.8	3.7	0.6	34.41
328147	198	12.1	25	13	3.9	1.2	1	3.8	0.51	37.61
328148	282	7.9	17	12	3.7	1.2	0.9	3.6	0.6	34.14
328149	385	52.2	104	43	10.2	2.6	0.9	4.2	0.62	26.06
328150	240	20.7	39	13	4.3	1.1	-0.5	2	0.33	27.32
400333	185	10.4	23	5	4	1.4	-0.5	2.5	0.36	28.16
400334	198	14.9	35	18	6.1	1.7	0.9	4.8	0.71	31.51
400335	247	15	34	10	4.8	1.3	0.7	3.5	0.56	32.94
400336	176	15.2	32	14	4	1.3	-0.5	2.7	0.44	33.07
400337	174	17.6	41	19	7.3	1.9	-0.5	7	1.06	33.16
400338	209	16	39	11	5.6	2	-0.5	3.7	0.55	23.39
400339	149	20.4	48	20	8.4	2.1	1.4	8.5	1.25	29.76
400340	150	18.3	40	20	6.9	2	1.4	5.4	0.81	24.04
400341	176	17.5	36	18	5.9	1.7	1.4	4.7	0.74	33.2
400342	180	26.1	44	20	5.4	1.5	1	2.6	0.37	31.92
400343	139	17.7	30	9	4	1.2	0.6	2	0.34	33.02
400344	162	19.5	35	18	5.1	1.6	1.1	2.9	0.42	35.61
400345	147	18.3	31	12	5.1	1.4	1.3	3.5	0.52	30.73
328115	184	14.5	28	17	4.8	1.4	1.1	3.7	0.58	33.74
328116	156	14.1	26	14	4	1.3	-0.5	2.7	0.43	31.12
328117	86	17	28	8	3	0.9	-0.5	1.1	0.17	35.45
328118	182	13.4	26	10	3.6	1	0.6	2.8	0.45	34.97
328119	167	22.6	39	20	4.6	1.3	0.5	2.8	0.44	34.66
328120	203	9.5	20	10	3.5	1	-0.5	2.6	0.41	27.94
328121	125	30.8	50	19	4.8	1.5	-0.5	1.8	0.27	29.7
328122	131	11.1	24	11	4.2	1.5	-0.5	3.5	0.54	33.53
328187	120	9.1	22	11	4.9	1.7	1.1	3.9	0.58	19.17
328188	157	13.3	30	15	5.1	1.8	0.8	3.3	0.47	26.49
328189	154	10.8	23	12	3.8	1.2	0.8	3.1	0.47	26.87
328195	214	15.1	26	15	4	1.2	-0.5	3	0.51	27.67
328196	258	12.3	30	13	5.9	1.8	1.5	4.8	0.77	23.33
328197	178	12.3	28	14	5.8	1.8	1.3	5.3	0.77	25.08
328198	176	11.1	23	9	4.1	1.5	1	4	0.61	36.28
328199	147	10.5	23	9	4.1	1.4	1	5.6	0.91	34.05
328200	157	14.5	30	13	4.3	1.3	0.6	3.1	0.5	30.72
400576	189	7.2	17	5	2.2	0.8	0.6	3	0.48	34.92
400577	100	9.9	21	5	2.7	1	0.6	5.4	0.87	33.97
400578	100	7.4	15	5	2.7	1	-0.5	4.3	0.68	34
328132	143	13.2	29	18	5.6	1.8	1.4	3.6	0.54	19.4
328133	167	5.9	15	9	2.6	0.9	-0.5	2.4	0.38	24.34
328134	103	12.9	24	11	4	1.4	-0.5	2.8	0.44	30.38
328135	116	12.5	26	15	4	1.1	0.5	2.7	0.44	34.88
328136	158	18.1	35	19	4.9	1.6	0.9	3	0.5	25.76
328137	135	23.9	47	23	5.6	1.6	0.8	2.9	0.51	24.11
328138	95	12.3	25	14	4.2	1.4	0.9	3	0.48	30.28
328139	179	18.8	37	18	5.1	1.5	-0.5	3.8	0.58	35.45
400322	187	10.3	25	15	4.8	1.6	1.1	6	0.92	32.15
400323	127	17	31	16	3.3	1.1	-0.5	1.7	0.28	30.79
400324	187	14.9	31	14	4.6	1.5	0.9	3.8	0.56	32.89

Activation Laboratories Ltd. Work Order: 20746 Report: 20481

Sample ID	Zn ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Mass g
400325	100	16.5	34	18	5.4	1.4	-0.5	4.1	0.53	8.732
400326	272	18.2	36	12	5.9	1.6	0.6	4	0.58	8.259
400327	326	17.6	33	17	3.3	1.1	-0.5	1.9	0.29	26.33
400328	232	14.4	31	21	5	1.8	1.2	4.4	0.68	29.68
400329	148	13.3	29	17	5	1.7	1	4.3	0.67	30.99
400330	123	9	20	13	3.8	1.4	0.6	3.4	0.51	32.3
400331	131	8.3	20	13	3.7	1.3	1	3.5	0.49	33.68
400332	173	16.6	37	24	6	2	1.1	4.6	0.71	29.72
401151	57	22.9	44	17	4	1.4	0.9	4.3	0.7	33.84
401152	60	24.1	39	19	4.4	1.4	1	5.3	0.83	42.46
401153	-50	16.7	32	15	3.5	1.1	0.7	4.8	0.75	39.81
401154	131	20.4	40	18	4.2	1.2	-0.5	5.2	0.89	12.62
401155	116	15.2	32	14	3.4	1.1	0.7	4.4	0.67	35.8
401156	111	17.1	41	5	3.8	1.1	-0.5	4.4	0.54	6.204
401157	-50	22.1	36	19	4.1	1.2	0.9	5.4	0.87	41.74
401158	68	24.1	38	22	4.3	1.3	0.8	4.2	0.66	33.95
328101	-50	24.3	48	20	4.1	1.1	0.8	5.6	0.87	30
328102	97	15.2	31	14	3.4	1.2	0.6	5.9	0.91	23.02
328103	183	15.9	36	16	3.7	1.1	1	4.4	0.71	31.77
328104	266	17.7	36	17	4	1.2	0.9	5.1	0.82	32.73
328105	97	15.1	45	15	4.5	1.4	1.2	5.4	0.84	12.78
328106	168	8.9	19	14	3.3	1.1	0.7	3.1	0.48	21.83
328107	166	11.2	26	17	4.5	1.5	0.8	3.8	0.67	16.93
328108	153	21	47	16	5.6	1.6	0.8	4.1	0.65	13.07
400573	107	8.2	18	5	3.3	1.2	1.1	3.7	0.57	17.61
400574	158	9.6	22	11	3.8	1.4	0.8	3.5	0.56	19.65
400575	211	10.3	22	19	4.2	1.6	-0.5	4.1	0.66	13.45
400579	274	10.8	28	13	4.2	1.4	-0.5	4.8	0.84	16.55
400580	211	9.8	26	14	3.8	1.4	0.9	4.6	0.7	21.92
DMMAS-14-2374	270	13	23	10	4.1	1.3	-0.5	3.6	0.54	25.69
DMMAS-14-2373	256	13	21	14	4.1	1.3	-0.5	5.6	0.54	25.14
DMMAS-14-2371	237	12.7	23	10	4	1.3	1	3.7	0.54	25.16
DMMAS-14-2370	265	13	24	10	4	1.3	-0.5	3.4	0.52	25.85
DMMAS-14-2366	226	13.3	22	9	3.8	1.3	0.7	3.4	0.52	25.09
DMMAS-14-2365	289	12.8	23	9	3.9	1.3	-0.5	3.5	0.52	25.01
DMMAS-14-2363	280	12.8	22	9	3.9	1.2	0.8	3.4	0.52	25.5
DMMAS-14-2361	250	13.1	23	13	4	1.2	0.9	3.5	0.53	25.18
DMMAS-14-2360	268	12.8	22	12	3.8	1.3	0.9	3.4	0.52	25.02
DMMAS-14-2359	267	13	23	12	4	1.2	1	3.5	0.53	25.51
DMMAS-14-2358	261	12.1	25	11	3.9	1.1	0.9	3.4	0.51	25.07

Accepted Value DMMAS-14 255+-60 13.4+-1 24+-2 12+-2 4.0+-0.4 1.3+-0.2 1.0+-0.4 3.6+-0.2 0.54+-0.03

Activation Laboratories Ltd. Work Order No. 20746 Report No. 20481B

'Near Total' Digestion Analysis

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
328051	0.3	0.4	179	462	36	15	33	86	6.91	4	-2	0.47	3.72	1.11	0.167	68	0.49	705	13	0.239
328052	1.7	6.5	259	139	65	279	23	675	2.19	-1	6	0.01	1.13	0.31	0.022	15	0.08	503	10	12.065
328053	0.4	-0.3	14	181	2	4	16	49	5.45	-1	-2	1.67	0.61	0.45	0.040	163	0.14	17	12	0.803
328054	-0.3	-0.3	3	136	3	-1	-3	71	4.82	-1	-2	0.54	0.66	0.08	0.023	91	0.15	8	13	0.013
328055	0.4	0.4	270	445	7	13	9	85	6.26	-1	-2	3.50	1.07	0.78	0.015	209	0.33	221	7	1.268
328056	0.7	1.2	313	297	9	25	22	261	5.59	-1	2	3.74	0.40	0.22	0.013	195	0.34	317	5	3.395
328057	0.8	2.5	212	378	11	19	16	146	4.99	-1	-2	3.10	0.29	0.41	0.012	120	0.12	51	9	3.069
328058	-0.3	-0.3	184	1277	11	16	11	128	5.40	-1	-2	4.75	0.12	0.63	0.005	140	0.30	307	2	0.880
328059	0.3	-0.3	135	226	6	1	-3	23	5.36	-1	-2	0.95	0.32	0.68	0.019	127	0.14	29	10	1.051
400451	0.3	0.5	13	935	2	23	12	56	5.21	1	2	1.88	1.22	0.99	0.038	189	0.38	97	25	0.017
400452	-0.3	-0.3	24	944	1	17	12	67	5.44	2	-2	2.07	1.51	0.85	0.071	217	0.43	92	35	0.047
400452/R	-0.3	-0.3	18	916	-1	16	8	64	5.53	2	-2	2.21	1.50	0.81	0.076	236	0.36	79	36	0.044
400453	1.1	1.5	1949	1328	13	40	671	925	4.43	2	-2	2.17	1.13	1.17	0.090	212	0.40	108	27	1.456
400454	1.2	2.6	612	1059	6	112	123	1032	5.39	2	-2	3.43	1.35	2.04	0.070	416	0.33	143	24	2.347
400455	-0.3	-0.3	16	1593	3	45	16	70	6.17	1	-2	3.21	1.01	1.47	0.036	314	0.46	146	28	0.046
400456	-0.3	0.3	22	1348	3	33	27	72	5.94	2	-2	2.74	1.18	1.06	0.037	317	0.46	143	28	0.022
400457	-0.3	0.4	26	1335	-1	45	20	80	6.05	1	-2	3.50	1.01	1.60	0.056	428	0.47	170	29	0.029
400458	-0.3	0.4	16	1308	4	53	25	64	6.27	1	-2	2.96	1.08	1.41	0.038	305	0.41	143	26	0.030
400459	0.3	1.8	44	1889	3	95	23	141	6.61	1	2	3.08	1.12	2.69	0.054	261	0.47	206	26	0.078
400460	-0.3	0.3	28	1448	1	23	15	66	6.75	2	-2	3.28	0.98	1.64	0.062	337	0.64	169	32	0.031
400461	-0.3	-0.3	87	1275	2	57	18	130	6.23	1	-2	1.73	1.00	2.26	0.042	159	0.45	152	25	0.046
400462	0.3	1.0	32	1122	1	83	13	63	7.36	1	-2	4.51	0.73	2.16	0.048	288	0.51	242	28	0.017
400463	-0.3	1.0	48	1737	3	73	28	121	7.03	1	-2	3.12	0.50	2.44	0.049	222	0.55	271	30	0.151
400464	-0.3	0.9	25	1446	2	47	20	100	7.51	1	-2	3.92	0.63	2.14	0.049	368	0.75	266	37	0.049
400465	-0.3	-0.3	34	1346	3	49	25	103	7.52	1	-2	4.09	0.49	2.09	0.053	372	0.76	275	41	0.052
400466	0.3	0.9	14	1698	4	55	25	62	7.26	-1	-2	5.68	0.46	1.63	0.030	429	0.41	215	31	0.010
400467	-0.3	0.3	18	1603	2	62	31	64	7.49	1	-2	5.30	0.62	1.90	0.036	398	0.41	200	30	0.010
400468	-0.3	-0.3	14	1474	3	28	29	75	6.71	1	2	3.65	1.21	1.14	0.059	413	0.55	159	34	0.011
400469	-0.3	0.5	48	1463	3	77	16	101	7.26	1	-2	3.63	0.63	2.72	0.050	288	0.60	245	29	0.039
400480	-0.3	-0.3	26	1332	3	54	4	89	6.53	2	-2	3.10	1.02	2.05	0.070	189	0.86	122	31	0.010
400483	-0.3	0.3	10	1159	2	55	22	98	7.45	2	2	3.39	0.53	2.12	0.048	257	0.55	109	23	0.011
400484	-0.3	0.3	15	1105	3	44	21	75	7.32	3	-2	2.66	0.93	1.50	0.068	247	0.58	97	27	0.004
400485	-0.3	0.3	12	963	2	47	22	66	7.13	3	2	2.74	0.84	1.63	0.069	236	0.58	96	26	0.002
400486	-0.3	0.4	18	1017	2	45	19	67	6.82	3	-2	2.77	0.83	1.51	0.066	246	0.56	92	26	0.002
400487	-0.3	0.3	19	1245	2	47	27	95	6.74	3	-2	2.80	0.81	1.52	0.062	206	0.64	97	27	0.008
400487/R	-0.3	0.8	19	1220	2	42	23	93	6.71	3	-2	2.71	0.80	1.49	0.060	210	0.66	95	27	0.006
400488	-0.3	-0.3	14	1365	3	57	14	66	7.03	3	-2	2.98	0.78	1.96	0.059	261	0.53	108	24	0.013
400489	-0.3	0.3	7	1511	2	25	10	68	5.82	-1	-2	4.47	0.46	2.54	0.063	175	0.81	116	20	0.010
400490	-0.3	-0.3	25	1279	3	29	7	88	8.92	2	-2	4.39	0.19	1.91	0.155	497	0.97	158	28	0.061
400491	-0.3	0.3	15	1180	3	50	7	70	6.36	2	-2	2.99	0.57	1.38	0.087	374	0.81	102	21	0.008
400492	-0.3	0.5	3	1388	3	70	5	65	5.32	1	-2	2.63	0.86	1.31	0.031	217	0.35	44	23	0.012
400493	-0.3	0.4	13	1455	2	57	5	67	5.84	1	-2	2.55	0.81	1.41	0.062	246	0.90	107	24	0.053
400494	-0.3	-0.3	10	1206	1	43	4	48	6.37	2	-2	2.78	0.72	1.43	0.060	297	0.57	87	22	0.022
399597	0.5	0.4	9	1940	3	36	15	94	6.50	1	-2	5.03	0.56	2.28	0.104	204	1.11	86	43	0.015
400598	-0.3	0.7	16	1377	2	27	8	51	6.19	1	-2	4.89	0.68	2.13	0.272	202	1.24	116	48	0.001
400599	-0.3	0.3	11	1480	2	31	14	80	5.98	1	2	4.52	0.65	1.95	0.191	189	0.89	80	38	0.005
400470	-0.3	0.5	27	1612	2	90	15	138	5.75	2	-2	2.10	1.01	2.18	0.081	165	0.77	135	26	0.021
400471	-0.3	0.3	217	1470	2	92	6	70	7.32	2	-2	4.30	0.40	2.82	0.109	370	0.97	158	24	0.065

Clients are advised to obtain assays for Ag>100 ppm and Pb>5000 ppm due to potential solubility problems.

Values for Cu, Ni, Zn, Mo greater than 1% should be assayed if accuracy better than +/- 10-15% is required.

Values above 1% are for informational purposes only and should not be relied upon for promotional or ore

reserve calculations. Assays are recommended for this purpose.

Sulphur will precipitate in samples containing massive sulphides.

Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Negative values indicate less than the reporting limit.

99999 indicates greater than 10%

Page 1 of 5

10/16/00

Activation Laboratories Ltd. Work Order No. 20746 Report No. 20481B

'Near Total' Digestion Analysis

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
400472	-0.3	0.4	48	749	2	14	36	134	7.78	1	-2	3.75	0.32	1.63	0.063	339	0.64	158	32	0.058
400473	-0.3	-0.3	15	1223	3	12	10	66	8.13	2	-2	3.66	0.28	1.53	0.141	508	0.73	136	21	0.014
400473/R	-0.3	0.6	22	1269	3	13	10	70	8.50	2	-2	4.00	0.31	1.64	0.158	531	0.81	142	22	0.015
400474	-0.3	0.5	8	1064	3	16	17	57	6.32	2	-2	2.57	0.79	1.18	0.083	356	0.62	95	19	0.014
400475	-0.3	-0.3	12	943	2	15	10	64	7.86	2	-2	3.73	0.33	1.12	0.133	500	0.76	124	23	0.010
400476	-0.3	-0.3	12	499	3	35	18	66	5.81	2	-2	1.74	1.36	1.98	0.024	138	0.42	124	24	0.046
400477	-0.3	0.3	15	435	2	45	14	46	5.33	2	-2	1.69	1.00	1.93	0.017	139	0.40	96	12	0.036
400479	-0.3	0.3	18	1153	3	52	14	69	6.08	2	-2	2.76	0.86	1.96	0.044	191	0.79	87	25	0.013
400560	-0.3	-0.3	11	1574	3	48	9	70	5.91	1	-2	3.92	0.48	2.36	0.079	172	1.20	118	29	0.009
400561	-0.3	0.4	17	1032	2	49	13	69	5.83	2	-2	3.36	0.79	2.27	0.049	198	0.72	119	21	0.010
400562	-0.3	0.6	36	1821	3	40	9	126	5.93	1	-2	5.65	0.60	2.59	0.309	192	1.30	168	48	0.020
400563	-0.3	0.3	38	1215	2	45	10	65	6.47	1	-2	4.32	0.74	2.44	0.032	205	0.74	128	34	0.008
400564	-0.3	0.3	14	1241	2	44	6	68	5.75	1	-2	3.58	0.93	2.29	0.042	197	0.90	144	27	0.004
400565	-0.3	0.3	18	1078	4	49	16	67	5.88	2	-2	3.53	0.90	2.06	0.057	205	0.72	123	27	0.014
400566	-0.3	0.4	20	1379	2	41	7	68	5.40	1	-2	3.65	0.90	1.89	0.042	194	0.58	106	25	0.038
400567	-0.3	0.3	16	590	3	172	10	79	5.13	2	-2	1.29	1.26	3.25	0.023	116	0.39	121	9	0.020
400568	-0.3	-0.3	8	1058	2	17	6	59	6.35	-1	-2	4.49	0.29	2.00	0.017	237	0.61	118	25	0.001
400569	-0.3	0.3	14	1801	2	28	10	97	6.32	1	-2	3.02	0.64	1.61	0.034	172	0.47	104	62	0.008
400570	-0.3	0.3	23	1859	3	44	11	85	6.80	1	-2	5.54	0.54	2.88	0.050	199	0.72	226	26	0.019
400571	-0.3	0.6	20	1409	3	31	4	61	6.51	1	-2	4.81	0.56	2.05	0.041	258	0.75	110	22	0.006
400572	-0.3	-0.3	8	1449	1	29	13	61	6.47	1	-2	4.43	0.58	2.23	0.026	206	0.35	51	24	0.014
400551	-0.3	0.3	27	580	1	43	22	81	6.49	2	-2	2.51	1.02	1.56	0.083	187	0.43	92	29	0.008
400552	-0.3	0.6	26	618	3	45	22	110	6.09	2	-2	2.15	0.87	1.43	0.063	186	0.39	84	23	0.008
400553	-0.3	0.3	21	564	2	44	23	72	6.30	3	-2	2.38	0.94	1.47	0.067	197	0.40	94	23	0.003
400554	-0.3	0.3	23	592	-1	47	17	89	6.26	3	-2	2.25	0.95	1.53	0.065	196	0.37	92	23	0.003
400555	-0.3	-0.3	13	1468	2	32	9	90	5.82	1	-2	4.64	0.39	2.09	0.042	259	0.74	153	23	0.009
400555/R	-0.3	0.5	13	1441	3	32	16	89	6.26	1	-2	4.51	0.41	2.11	0.045	264	0.71	145	24	0.011
400556	-0.3	-0.3	8	1158	3	19	6	79	6.54	1	-2	3.20	0.60	1.74	0.030	197	0.60	114	20	0.008
400557	-0.3	0.6	14	817	3	40	9	52	5.56	2	-2	3.23	0.73	1.82	0.033	183	0.57	108	21	0.019
400558	-0.3	0.5	9	888	4	43	8	45	5.10	1	-2	3.34	0.59	1.79	0.021	175	0.62	100	19	0.009
400559	-0.3	0.3	17	1068	2	54	16	55	6.15	1	-2	4.54	0.61	2.61	0.037	184	0.76	138	25	0.007
400601	-0.3	0.3	28	1409	2	47	15	78	6.58	1	-2	4.69	0.49	2.51	0.044	215	0.69	127	30	0.006
400602	-0.3	0.3	11	1536	-1	38	13	73	5.43	2	-2	2.59	0.84	1.44	0.039	166	0.44	62	30	0.015
400603	-0.3	0.3	26	1204	2	49	6	84	5.49	2	-2	3.37	0.62	2.03	0.066	190	0.82	137	27	0.003
400604	-0.3	0.4	17	897	-1	87	9	70	5.55	2	-2	3.15	0.97	2.27	0.051	179	0.77	116	20	0.008
400605	-0.3	0.3	32	1412	1	186	6	71	6.14	2	-2	3.96	0.71	3.23	0.047	182	0.69	138	26	0.008
400606	-0.3	0.3	18	1255	2	145	10	67	5.63	1	-2	4.03	0.72	3.07	0.040	175	0.71	141	22	0.012
400607	-0.3	0.3	26	992	2	212	-3	80	6.21	2	-2	3.88	0.81	2.96	0.059	206	0.75	139	26	0.014
400608	-0.3	0.4	12	1417	2	47	22	59	5.85	2	-2	3.16	0.92	1.92	0.040	192	0.79	115	28	0.008
400609	-0.3	-0.3	12	1809	3	31	13	83	6.71	2	-2	5.52	0.65	2.58	0.062	179	0.78	185	41	0.005
400610	-0.3	-0.3	15	1222	-1	28	12	75	6.41	2	-2	4.38	0.75	2.10	0.059	188	0.83	131	40	0.007
400610/R	-0.3	0.6	15	1165	3	27	10	73	4.86	2	-2	4.27	0.66	1.91	0.053	175	0.84	133	30	0.007
400611	-0.3	0.3	14	1693	3	54	13	102	5.80	2	-2	1.77	1.03	1.65	0.042	136	0.49	95	18	0.007
400612	-0.3	0.3	20	1350	-1	40	17	74	5.31	2	-2	2.48	1.13	1.34	0.047	171	0.69	77	29	0.012
400301	-0.3	0.3	10	1350	4	22	36	58	6.39	3	-2	4.16	1.84	1.37	0.050	405	0.55	111	40	0.005
400302	-0.3	0.3	6	1361	5	14	27	41	6.60	2	-2	4.21	1.46	1.19	0.027	439	0.47	95	44	0.004
400303	-0.3	0.3	6	1030	2	16	21	32	6.32	2	-2	3.76	1.55	1.00	0.016	450	0.46	88	37	0.005
400304	-0.3	-0.3	15	1031	2	108	29	58	7.88	3	-2	4.12	2.13	2.27	0.077	718	0.40	99	49	0.018
400305	-0.3	0.3	15	900	2	34	29	48	7.52	3	-2	3.12	3.05	1.23	0.057	496	0.39	73	42	0.007
400306	-0.3	0.5	45	998	9	32	71	68	7.36	3	-2	3.07	2.79	1.17	0.109	420	0.67	110	46	0.237
400307	-0.3	0.3	30	1405	4	17	35	60	6.49	2	-2	2.95	2.31	1.26	0.027	292	0.40	79	36	0.010
400308	-0.3	0.3	5	1022	10	12	34	46	6.58	3	-2	2.44	2.54	0.92	0.021	274	0.50	72	35	0.014
400309	-0.3	0.3	5	1136	3	9	23	32	6.10	2	-2	2.86	2.18	0.80	0.022	280	0.45	62	40	0.005

Negative values indicate less than the reporting limit.
99999 indicates greater than 10%.

Activation Laboratories Ltd. Work Order No. 20746 Report No. 20481B

'Near Total' Digestion Analysis

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
400310	-0.3	0.3	14	1040	-1	153	39	75	8.20	3	-2	4.50	1.92	2.98	0.115	872	0.43	108	54	0.007
400311	-0.3	0.3	38	1227	3	27	16	61	5.49	2	-2	3.29	0.74	1.59	0.069	185	0.63	110	31	0.015
400312	-0.3	0.3	12	1146	2	24	42	76	5.59	2	-2	3.17	1.02	1.61	0.050	226	0.60	114	28	0.013
400313	-0.3	0.3	9	1163	4	25	30	78	6.07	2	-2	3.12	1.18	1.68	0.047	249	0.58	109	28	0.013
400314	-0.3	0.3	11	1166	2	24	24	73	6.20	2	-2	3.28	1.10	1.69	0.055	256	0.60	108	31	0.014
400315	-0.3	0.3	71	1153	25	24	24	62	5.79	2	-2	3.25	0.89	1.50	0.056	279	0.64	116	33	0.051
400316	-0.3	0.4	18	1451	2	33	26	72	6.13	2	-2	3.57	0.97	1.95	0.079	196	0.58	109	38	0.011
400317	-0.3	0.7	14	1517	1	29	26	73	5.21	2	-2	3.46	0.86	1.83	0.065	170	0.68	118	36	0.011
400318	-0.3	1.0	37	1005	3	31	12	132	5.05	1	-2	3.09	0.79	1.58	0.041	148	0.51	115	30	0.037
400319	-0.3	2.3	88	247	6	8	4	26	1.05	1	-2	0.57	0.21	0.36	0.035	43	0.22	54	5	0.906
400320	-0.3	0.3	21	1184	3	22	15	70	5.72	1	3	2.32	0.72	1.93	0.045	134	0.62	199	25	0.013
400321	-0.3	0.4	13	1336	2	24	25	60	5.28	1	2	3.05	0.77	1.75	0.032	153	0.71	133	29	0.009
400321/R	-0.3	0.5	14	1362	3	23	20	58	5.04	1	2	2.87	0.73	1.68	0.035	157	0.74	130	29	0.011
328109	-0.3	0.3	9	1198	6	23	40	60	5.40	2	2	3.31	0.82	1.46	0.044	318	0.57	106	25	0.023
328110	-0.3	0.3	8	1179	4	24	18	47	5.34	1	-2	3.25	0.74	1.52	0.033	279	0.54	96	29	0.013
328111	-0.3	0.4	19	1369	4	38	18	69	5.91	2	-2	3.43	0.90	1.93	0.057	209	0.59	130	33	0.023
328112	-0.3	0.3	18	1222	1	38	24	69	5.93	2	-2	3.44	0.95	1.99	0.063	193	0.49	114	30	0.010
328113	-0.3	0.5	39	874	5	32	16	61	5.50	1	2	2.40	0.88	1.62	0.045	176	0.44	91	26	0.013
328114	-0.3	1.7	42	1948	2	75	53	201	6.00	1	-2	1.48	1.01	2.43	0.055	130	0.36	174	21	0.044
328140	-0.3	0.7	107	1493	-1	48	-3	132	4.78	1	2	0.40	0.28	1.35	0.041	52	1.05	244	16	0.147
328142	-0.3	0.3	77	1227	-1	83	5	131	5.63	1	-2	2.14	0.36	2.45	0.127	120	0.35	178	43	0.035
328143	-0.3	1.1	128	1426	2	81	12	270	5.51	1	-2	2.77	0.41	2.31	0.056	128	0.97	231	23	0.048
328144	-0.3	0.9	125	1287	2	93	-3	259	6.23	1	-2	2.80	0.45	2.43	0.043	146	0.96	227	23	0.087
328145	-0.3	0.3	58	1526	3	123	10	146	5.71	1	-2	2.51	0.55	2.62	0.061	197	0.73	155	19	0.034
328146	-0.3	1.1	39	1973	3	54	-3	137	6.34	1	-2	5.90	0.38	2.83	0.042	160	0.81	218	33	0.004
328147	-0.3	0.8	92	1511	4	75	3	150	6.58	1	-2	5.54	0.41	2.91	0.063	140	1.12	312	33	0.006
328148	-0.3	0.8	31	1609	3	37	6	164	6.72	1	-2	6.08	0.44	2.93	0.041	205	0.87	252	33	0.006
328148/R	-0.3	0.6	28	1552	2	37	4	153	6.37	1	-2	5.70	0.41	2.74	0.040	195	0.93	233	31	0.007
328149	-0.3	0.7	122	1287	2	140	6	281	6.59	1	-2	2.50	0.45	2.16	0.054	123	0.76	196	42	0.033
328150	-0.3	0.7	122	1301	3	206	15	198	5.34	2	-2	3.23	0.36	4.51	0.078	103	1.19	267	21	0.025
400333	-0.3	0.5	73	1527	2	103	-3	110	6.53	1	-2	3.17	0.13	3.19	0.059	138	1.17	224	27	0.004
400334	-0.3	0.8	54	1751	1	56	4	131	5.51	1	-2	2.85	0.21	2.60	0.058	120	1.41	246	47	0.008
400335	-0.3	0.9	150	1328	-1	156	6	211	5.60	1	-2	1.99	0.30	2.52	0.045	114	1.03	303	32	0.060
400336	-0.3	0.9	68	1281	5	62	4	142	6.21	1	-2	4.49	0.28	2.71	0.063	189	1.26	297	27	0.014
400337	-0.3	0.8	64	1591	4	86	14	122	5.59	1	-2	3.22	0.22	3.25	0.090	109	1.61	230	39	0.029
400338	-0.3	0.3	110	1602	-1	104	3	139	5.63	1	-2	3.15	0.24	3.06	0.071	136	1.44	310	33	0.027
400339	-0.3	0.9	84	1612	2	76	8	116	5.46	1	-2	3.22	0.22	2.82	0.105	116	1.56	220	42	0.023
400340	-0.3	0.8	62	1493	1	77	6	113	5.47	1	-2	3.17	0.21	2.58	0.067	148	1.05	195	38	0.048
400341	-0.3	0.4	68	1532	1	76	10	118	5.79	1	-2	3.18	0.22	2.92	0.054	141	0.58	150	37	0.069
400342	-0.3	0.3	75	1354	3	70	9	152	6.62	1	-2	3.29	0.49	2.86	0.066	189	1.08	249	30	0.013
400343	-0.3	0.8	102	1304	5	80	5	100	5.96	1	-2	4.69	0.27	3.24	0.045	171	1.50	357	18	0.011
400344	-0.3	0.3	94	1354	-1	170	-3	123	5.30	1	-2	4.89	0.26	4.00	0.079	138	1.77	270	30	0.029
400345	-0.3	0.5	46	1585	1	64	3	128	5.85	1	-2	3.61	0.26	2.59	0.057	184	1.21	195	33	0.023
400345/R	-0.3	0.3	39	1608	2	65	13	125	5.90	1	-2	3.92	0.26	2.48	0.061	189	0.92	146	35	0.023
328115	-0.3	0.5	36	1489	4	85	5	154	6.14	1	-2	5.34	0.38	2.88	0.048	168	0.96	206	31	0.011
328116	-0.3	0.3	538	1603	4	97	13	113	6.17	1	-2	5.61	0.36	2.59	0.114	141	1.41	301	23	0.127
328117	-0.3	0.3	120	920	4	92	23	76	6.06	-1	-2	5.77	0.36	2.40	0.038	207	0.77	293	9	0.039
328118	-0.3	0.5	53	1655	3	152	12	113	6.03	1	-2	4.78	0.30	3.58	0.042	162	0.92	266	26	0.030
328119	-0.3	0.4	49	1528	-1	95	3	124	6.68	1	-2	5.25	0.39	3.58	0.067	205	0.99	251	26	0.017
328120	-0.3	0.9	86	1755	2	65	-3	156	5.53	-1	-2	0.59	0.31	1.77	0.042	58	0.75	210	18	0.100
328121	-0.3	0.3	56	801	1	80	9	82	5.78	-1	-2	0.71	1.12	0.98	0.060	158	0.56	117	14	0.028
328122	-0.3	0.3	85	1475	2	105	6	107	6.54	-1	-2	6.54	0.30	3.25	0.058	313	0.80	313	26	0.093
328187	-0.3	0.6	77	1021	3	77	22	110	6.77	-1	-2	3.88	0.28	2.92	0.036	152	0.81	312	30	0.025

Negative values indicate less than the reporting limit
99999 indicates greater than 10%

Activation Laboratories Ltd. Work Order No. 20746 Report No. 20481B

Near Total Digestion Analysis

SAMPLE	Ag ppm	Cd ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm	Al %	Be ppm	Bi ppm	Ca %	K %	Mg %	P %	Sr ppm	Ti %	V ppm	Y ppm	S %
328188	-0.3	0.8	79	1591	3	104	6	127	6.14	1	2	2.75	0.35	3.14	0.071	150	1.30	340	29	0.065
328189	-0.3	0.4	103	1449	2	171	-3	99	5.09	-1	2	1.46	0.33	2.97	0.046	66	1.10	244	19	0.049
328195	-0.3	1.7	67	1799	-3	126	7	184	5.60	1	2	0.93	1.31	1.50	0.035	73	0.73	201	22	0.017
328196	-0.3	1.1	69	1620	2	61	3	175	6.14	-1	2	1.49	0.25	2.71	0.052	81	1.32	277	41	0.040
328197	-0.3	1.0	154	1532	2	51	4	126	6.09	1	2	1.95	0.59	2.55	0.070	102	1.16	343	44	0.154
328197/R	-0.3	0.5	159	1594	3	51	14	128	6.31	1	2	2.05	0.60	2.62	0.080	108	1.28	366	46	0.156
328198	-0.3	0.5	31	1262	3	81	-3	134	7.07	1	2	5.47	0.39	3.51	0.058	166	1.06	222	34	0.011
328199	-0.3	0.9	23	1351	2	56	-3	116	6.37	1	2	4.85	0.37	2.59	0.038	136	1.28	237	39	0.016
328200	-0.3	0.5	74	1390	3	115	9	115	7.50	1	2	5.47	0.46	3.17	0.059	211	0.97	252	26	0.020
400576	-0.3	-0.3	81	1503	4	101	18	135	6.39	-1	2	5.45	0.55	3.67	0.028	152	0.45	233	22	0.044
400577	-0.3	0.4	19	1921	2	34	5	88	6.15	1	2	4.41	0.58	2.45	0.022	168	0.56	167	38	0.010
400578	-0.3	0.4	38	1802	3	52	16	114	6.63	1	2	5.50	0.39	3.35	0.020	176	0.68	244	31	0.018
328132	-0.3	-0.3	52	1175	-1	46	4	113	5.43	1	2	1.04	0.35	1.76	0.047	95	1.13	387	44	0.034
328133	-0.3	-0.3	87	1424	2	114	-3	143	5.71	1	2	0.55	1.26	1.64	0.055	53	1.10	307	13	0.035
328134	-0.3	0.7	53	1487	2	74	-3	94	6.56	1	2	4.89	0.32	2.99	0.039	192	1.07	261	28	0.020
328135	-0.3	0.3	55	1608	4	124	-3	101	6.42	1	2	6.57	0.29	3.40	0.070	269	0.73	319	25	0.045
328136	-0.3	0.3	67	1407	3	77	12	116	5.91	1	2	2.22	0.48	2.24	0.052	217	0.88	234	25	0.024
328137	-0.3	0.3	71	1182	1	82	-3	109	5.46	1	2	1.77	0.67	1.62	0.062	213	0.66	182	24	0.064
328138	-0.3	0.3	33	1264	1	43	-3	54	4.87	-1	2	3.03	0.19	1.49	0.013	156	1.36	168	28	0.006
328139	-0.3	0.9	69	1424	3	78	9	131	5.81	1	2	3.62	0.34	2.55	0.067	158	1.32	288	30	0.043
400322	-0.3	1.0	24	1222	3	60	4	117	5.89	1	2	3.96	0.25	2.47	0.052	109	1.05	218	36	0.022
400323	-0.3	-0.3	86	781	1	193	6	87	5.73	1	2	2.63	0.44	3.10	0.039	170	0.72	174	12	0.043
400324	-0.3	0.4	41	1451	3	77	5	125	5.52	-1	2	3.44	0.28	2.60	0.042	147	0.95	236	28	0.007
400325	-0.3	-0.3	72	1575	4	135	9	125	5.89	1	2	4.76	0.34	2.97	0.058	166	1.06	209	32	0.012
400326	-0.3	-0.3	56	1243	2	82	16	249	6.83	1	2	4.16	0.62	2.47	0.100	168	0.88	148	34	0.253
400327	-0.3	-0.3	27	862	2	89	25	260	5.99	1	2	3.07	1.05	2.18	0.044	167	0.42	119	15	0.027
400328	-0.3	0.8	81	1971	3	96	8	164	5.88	1	2	3.12	0.23	2.71	0.054	144	1.28	340	32	0.049
400329	-0.3	0.8	50	1674	1	101	-3	124	5.77	1	2	3.13	0.23	2.85	0.064	134	1.33	341	32	0.044
400330	-0.3	0.6	69	1214	1	111	11	94	6.20	-1	2	3.80	0.16	3.09	0.047	123	1.11	295	27	0.027
400330/R	-0.3	0.3	55	1660	2	108	-3	92	5.98	-1	2	3.75	0.15	3.04	0.048	120	1.10	294	27	0.025
400331	-0.3	0.4	56	1351	4	96	9	92	6.06	-1	2	5.09	0.22	3.29	0.049	142	1.05	298	27	0.096
400332	-0.3	0.3	62	1241	-1	71	-3	124	5.44	1	2	2.25	0.15	2.67	0.084	91	1.60	292	36	0.014
401151	-0.3	-0.3	11	1046	13	35	27	57	4.69	1	2	2.92	0.66	1.74	0.050	218	0.61	118	27	0.019
401152	-0.3	0.3	16	1119	3	24	8	43	5.04	1	2	2.81	0.65	1.60	0.060	176	0.63	105	33	0.011
401153	-0.3	-0.3	7	1184	4	23	15	46	5.05	2	2	3.02	0.64	1.66	0.055	171	0.65	103	33	0.009
401154	-0.3	0.7	19	1301	3	37	22	87	5.92	2	2	2.58	0.93	2.01	0.044	188	0.43	133	27	0.074
401155	-0.3	1.0	13	1334	3	41	22	95	5.52	1	2	2.80	0.82	1.88	0.038	167	0.55	116	32	0.014
401156	-0.3	0.7	21	1208	3	57	31	120	5.09	1	2	2.39	0.71	1.92	0.035	151	0.48	131	26	0.020
401157	-0.3	0.4	18	1451	4	35	5	61	5.51	1	2	2.60	0.70	1.74	0.045	170	0.77	119	35	0.010
401158	-0.3	-0.3	15	1111	2	34	10	53	5.58	2	2	2.57	0.82	1.67	0.045	183	0.61	117	29	0.008
328101	-0.3	0.4	17	1678	9	17	18	46	4.95	1	2	2.78	0.53	1.31	0.026	170	0.68	105	32	0.029
328102	-0.3	0.6	19	1779	2	28	11	86	5.08	1	2	2.94	0.53	1.63	0.023	146	0.46	128	27	0.025
328103	-0.3	1.3	34	1686	2	39	19	157	5.25	2	2	2.89	0.64	1.78	0.058	148	0.64	141	31	0.033
328104	-0.3	1.9	30	1835	2	34	10	239	5.51	1	2	2.97	0.67	1.75	0.062	148	0.64	128	35	0.025
328104/R	-0.3	2.2	28	1853	-1	36	11	238	5.81	2	2	3.21	0.70	1.88	0.057	151	0.46	100	35	0.027
328105	-0.3	0.5	196	1995	4	274	24	103	5.70	1	2	3.06	0.56	2.05	0.044	138	0.65	154	27	0.057
328106	-0.3	-0.3	68	1441	2	88	16	119	7.09	1	2	1.45	0.83	4.64	0.068	69	0.61	297	23	0.310
328107	-0.3	0.3	32	1348	2	27	10	95	6.11	1	2	2.06	0.42	2.82	0.042	153	0.72	260	27	0.051
328108	-0.3	1.3	20	1455	2	215	8	139	4.91	1	2	1.69	0.45	3.89	0.068	102	0.72	150	27	0.023
400573	-0.3	1.2	43	1733	3	26	14	127	5.60	-1	2	1.28	0.26	1.96	0.033	87	0.70	292	20	0.026
400574	-0.3	0.3	39	1272	2	23	4	110	5.69	-1	2	1.87	0.33	1.89	0.035	105	0.72	298	25	0.026
400575	-0.3	0.3	30	1291	2	13	-3	101	5.53	-1	2	1.94	0.25	2.19	0.037	112	0.69	354	23	0.034
400579	-0.3	0.7	104	1625	2	57	5	176	5.60	-1	2	4.31	0.30	2.59	0.043	133	0.65	227	26	0.063

Negative values indicate less than the reporting limit.
99999 indicates greater than 10%.

Activation Laboratories Ltd. Work Order No. 20746 Report No. 20481B

'Near Total' Digestion Analysis

SAMPLE	Ag ppm	Cd ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm	Al %	Be ppm	Bi ppm	Ca %	K %	Mg %	P %	Sr ppm	Ti %	V ppm	Y ppm	S %
400580	-0.3	-0.3	57	1531	2	41	3	146	5.58	-1	-2	4.11	0.35	2.35	0.029	134	0.62	209	26	0.035
Blank Tray#	-0.3	0.3	1	-1	-1	-1	-3	4	0.06	-1	-2	0.01	0.01	0.01	0.001	-1	-0.01	-2	-1	0.005
Blank Tray #	0.3	-0.3	-1	-1	-1	-1	-3	2	-0.01	-1	-2	-0.01	-0.01	-0.01	-0.001	-1	-0.01	-2	-1	0.001
Blank Tray #	-0.3	-0.3	-1	-1	-1	-1	-3	2	-0.01	-1	-2	-0.01	-0.01	-0.01	-0.001	-1	-0.01	-2	-1	0.002
Blank Tray #	-0.3	-0.3	1	-1	-1	-1	-3	2	-0.01	-1	-2	-0.01	-0.01	-0.01	0.001	1	-0.01	-2	-1	0.002
G-2 cert	0.04	0.016	11	232	(1.1	(5	30	86	8.147	2.5	0.037	1.401	3.718	0.452	0.061	478	0.288	36	11	(0.01
G 2	-0.3	-0.3	9	242	2	-1	26	84	5.52	2	-2	1.39	3.64	0.38	0.044	431	0.29	35	5	0.008
SDC-1 cert	0.041	(.08	30	883	(.25	38	25	103	8.338	3.0	0.26	1.001	2.722	1.019	0.069	183	0.606	102	40	0.065
SDC 1	0.3	0.4	29	856	-1	36	18	99	4.96	3	-2	0.97	2.54	0.89	0.047	164	0.60	98	19	0.056
DNC-1 cert	(.027	(.182	96	1154	(.7	247	6.3	66	9.687	1	(.02	8.055	0.19	6.06	0.037	145	0.287	148	18	(0.039
DNC 1	0.3	0.3	88	982	2	254	12	55	8.37	1	-2	8.10	0.19	6.05	0.023	128	0.28	139	15	0.045
SCO-1 cert	0.134	0.14	28.7	410	1.37	27	31	103	7.24	1.84	0.37	1.87	2.30	1.64	0.090	174	0.38	131	26	0.063
SCO 1	-0.3	-0.3	27	365	3	26	29	96	6.35	2	-2	1.87	2.23	1.73	0.073	155	0.34	131	19	0.066
GXR-6 cert	1.3	(1	66	1008	2.4	27	101	118	17.68	1.4	(.29	0.179	1.87	0.61	0.035	35	0.498	186	14	0.016
GXR 6	0.4	0.3	66	979	3	26	95	127	7.22	1	-2	0.10	1.53	0.38	0.056	32	0.50	203	4	0.013
GXR-2 cert	17	4.1	76	1008	(2.1	21	690	530	16.46	1.7	(.69	0.929	1.37	0.85	0.105	160	0.3	52	17	0.031
GXR 2	17.3	4.0	80	990	3	18	714	554	6.54	2	-2	0.84	1.26	0.69	0.056	147	0.31	55	9	0.027
GXR-1 cert	31	3.3	1110	853	18	41	730	760	3.52	1.22	1380	0.958	0.05	0.22	0.065	275	0.036	80	32	0.257
GXR-1	30.2	4.3	1150	980	18	44	750	730	2.05	1	1431	0.83	0.05	0.22	0.053	304	0.03	84	31	0.266
GXR-4 cert	4	(.86	6520	155	310	42	52	73	7.20	1.9	19	1.01	4.01	1.66	0.120	221	0.29	87	14	1.770
GXR 4	3.1	0.5	6149	145	329	39	54	71	5.93	2	16	1.03	4.24	1.97	0.117	229	0.26	90	13	1.833

Note: Certificate data underlined are recommended values; other values are proposed except those preceded by a "*" which are information values.
Barite, gahnite, chromite, cassiterite, zircon, sphene, and magnetite may not be totally dissolved.

Sample ID	Au ppb	Pt ppb	Pd ppb
401151	2	-5	-4
401152	2	5	-4
401153	4	-5	-4
401154	2	-5	-4
401155	-2	-5	-4
401156	8	5	5
401157	2	-5	-4
401158	3	-5	-4
328101	4	-5	-4
328102	3	-5	-4
328103	4	-5	-4
328104	5	-5	-4
328105	2	-5	-4
328106	4	-5	6
328107	4	-5	-4
328108	4	-5	-4
400573	-2	5	-4
400574	2	-5	-4
400575	-2	-5	-4
400579	4	-5	-4
400580	-2	-5	-4
STANDARD FA-10R	489	462	492
STD FA-10R CERT	450-500	450-500	450-500