

TOTAL

% 100% 100%

% 100%

Detailed Heavy Mineral Analysis

Our Job No.: 06027 Disc No.: - Sample No:A102801Overall Sample Assessment:PositiveYour Project Code:NT

Sample Type (as c	ollec	ted):			Bull	k Sample	Э			·		Head V	Weight	467.8 kg			
Sample Type (as re			Bull	k Sample	Э		Wet Weight										
Observed Sam	Observed Sample Type: DMS Concen																
Diamond mm	<u>Nu</u> +1.2	mber o +1.0	f particle +.8	es in ea +.4	ch size +.3		+.20	Total +.10 particles Description of these particles									
Diamond								12	12		onds of app		ize recovere	ed in the +0.25mm			
										_							
Key Minerals _{mm}	<u>Nun</u> +1.2	+1.0	particle: +.8	<u>s in eac</u> +.4	<u>+.3</u>	fraction +.25	+.20	+.10	Wea	Overall _{Ir} Morph. Grou	Total p particles	No of partic probed		based PRIORITY based ology on morphology and Probe)			
Chromite/Cr-Spinel						5			M\ blc	W B1 ack, finely frost	red, rounde	5	В				
Synthetic Diamonds				18	8					C1		18					
									yel	low							
Other Minerals	<u>% Po</u> +1.2	ercento +1.0	nge of po +.8	articles +.4	in eacl	h size frac +.25	<u>tion</u> +.20	+.10	Wea	r Colour	Angularity	Lustre	Transparency	/ Form/Shape			
Almandine			3	Tr		10		Tr	MW	rose pink, candy pink	subrounded	glassy	translucent	irregular			
Al-Spinel				Tr		Tr			W	grey-blue	subrounded	glassy	translucent	ovate			
Anatase				Tr		Tr			MW	greyish-yellow, grey-blue	subrounded	submetallic	translucent	irregular			
Barite				Tr		Tr			w	white	subangular	dull	opaque	blocky, frosted, etched			
Corundum			Tr	Tr		Tr		Tr	MW	yelow, pink	subangular	glassy	transparent	blocky			
Fe Oxide/Hydroxide			97	80		65			W	mustard brown, brown	subrounded	dull	opaque	irregular			
Gahnite						Tr			ww	aqua green	rounded	smooth, glassy	translucent	ovate			
Ilmenite			Tr			25			MW	silvery-black	subrounded	submetallic	opaque	blocky to subhedral			
Kyanite			Tr	10		Tr			MW	colourless, blue		pearly	transparent, translucent	elongate, blocky			
Leucoxene				Tr		Tr			W	grey, cream	rounded	polished	opaque	irregular			
Molybdenite			Tr	Tr		Tr			MW	silvery-black		metallic	opaque	platy			
Pyrite			Tr	Tr		Tr			MW	brassy yellow	subrounded, subangular	metallic	opaque	blocky			
Rutile			Tr	10		Tr			MW	black, cherry red	subrounded	dull	opaque	rolled, blocky			
Staurolite			Tr	Tr		Tr			MW	ornage-brown	subrounded	glassy	opaque, translucent	blocky, irregular			
Zircon				Tr		Tr		Tr	MW	pink, colourless		glassy	opaque	subhedral, ovate			



Detailed Heavy Mineral Analysis

Our Job No.: 06027 Disc No.: -

Sample No:	A102801
Overall Sample Assessment:	Positive
Your Project Code:	NT

What Has Been Observed?

Final Conc Weight 104.2700 g Size Range -1.2+0.1 mm
Weight Observed 45.55 g

Magnetic Fractions vs Size Fraction

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10
NM			All	All		All		
M6/7			All	None		None		
M4/5			All	None		All		

Technician: JED

Date Observed: 22-May-06

Report Printed: 12/06/2006 4:20:38 PM

Comment about this sample:

Mineral percentages are for the non-magnetic fraction.
The entire -1.2+0.3mm acised conc was ultimately peroxide fused and reobserved for diamonds. 12 small (approx 100um) microdiamonds were recovered in the residue.



Detailed Heavy Mineral Analysis

Our Job No.: 06027 Disc No.: - Sample No: A102803

Overall Sample Assessment: Unresolved

Your Project Code: NT

															ĺ
Sample Type (as	collec	ted):			Bull	k Sampl	е					Head \	Veight	774.12 kg	Ī
Sample Type (as i	receiv	ed):			Bull	k Sampl	е					Wet V	Veight	kg	
Observed Sar	mple T	ype:		DΝ	1S Con	centrat	е								
Diamond _{mm}	<u>Nu</u> 1 +1.2	mber of	f particle +.8	es in ec +.4	ıch size +.3	fraction +.25	+.20	+.10	Tota parti	I cles Description	n of these part	ticles			
Diamond								1	1	needs confi					
Key Minerals _{mm}	Nun 1 +1.2	nber of +1.0	particle +.8		ch size 1 +.3	fraction +.25	+.20	+.10	Wea	Overall r Morph. Grou	Total p particles	No of partic		based PRIORITY based ology on morphology and Probe)	
Chromite/Cr-Spinel					5	60)		W	B1 I black, finely		65 athered, 65	В		I
Synthetic Diamonds				1	8				yel	C1		18	C		
Other Minerals	<u>% Po</u> n +1.2	ercenta +1.0	ige of p	articles +.4	in eacl	h size fra +.25	<u>ction</u> +.20	+.10	Wea	r Colour	Angularity	Lustre	Transparency	/ Form/Shape	
Almandine			Tr	Tr		Tr			MW	rose pink		glassy	transparent, translucent		
Al-Spinel				Tr		Tr			MW	grey-blue, cream	subangular	glassy	translucent	irregular, subhedral	
Anatase						Tr			MW	ice blue	subrounded	submetallic	translucent	irregular	
Corundum			Tr	Tr		Tr		Tr	MW	yellow, colourless, pink	subangular	glassy	transparent	blocky	
Epidote				Tr		Tr			W	yellow-green	subrounded	dull	opaque	irregular	
Fe Oxide/Hydroxide			15	15		10			W	brown, red- brown	subrounded	dull	opaque	irregular	
Florencite				Tr		Tr			F	cream	angular	vitreous	opaque, translucent	subhedral	
Gahnite				Tr		Tr		Tr	MW	dark green	subrounded	glassy	opaque	subhedral	
Kyanite			60	40		20			MW	colourless, blue, grey		pearly	transparent, translucent,	elongate blocky	
Leucoxene				Tr		Tr			W	cream, beige	subrounded	polished	opaque	irregular	
Molybdenite				Tr		Tr			MW	silvery-black		metallic	opaque	platy	
Phosphate						Tr			W	pale orange, yellow	rounded	resinous	opaque, translucent	ovate, tabular	
Pyrite			Tr	Tr		Tr			MF	brassy yellow	subangular	metallic	opaque	blocky	
Rutile			5	30		20			MW	black, cherry red	subrounded	submetallic	translucent, opaque	blocky, elongate	
Staurolite			20	15		20			MW	orange-brown	subrounded	glassy	translucent, opaque	irregular, included	



Detailed Heavy Mineral Analysis

Our Job No.: 06027 Disc No.: -

Sample No:	A102803
Overall Sample Assessment:	Unresolved
Your Project Code:	NT

Tourmaline				Tr		Tr			MW	brown	S	subangular	glassy	transparent, translucent	blocky
Zircon			Tr	Tr		30		Tr	MW	pink			glassy	opaque	subhedral
TOTAL	%	%	100%	100%	%	100%	%	0%							

What Has Been Observed?

Final Conc Weight 168.47 g Size Range -1.2+0.1 mm Weight Observed 64.785 g

Magnetic Fractions vs Size Fraction

mm	+1.2	+1.0	+.8	+.4	+.3	+.25	+.20	+.10
NM			All	All		All		
M6/7			None	None		None		
M4/5			None	None		1/2		

Technician: JED

Date Observed: 23-May-06

Report Printed: 12/06/2006 4:21:17 PM

Comment about this sample:

Mineral percentages are for the non-magnetic fraction.
The entire -1.2+0.3mm acised conc was ultimately peroxide fused and reobserved for diamonds. 1 small (approx 100um) microdiamond was recovered in the residue (needs confirming