

Our Job No.: 09103 Disc No.:

СОН000001	Sample No:	
Negative	ample Assessment	Sc

Overall Your Project Code: Cox Arnold NT

Fx 61 8 9470 1504														
Sample Type (as c	ollec	ted):				Loam	1					Head	Weight	41.6 kg
Sample Type (as re	eceiv	ed):				Loam	1					Wet	Weight	kg
Observed Sam	ple T	ype:		TE	BE Cond	centrate	9							
Diamond mm		mber o +1.2	f partic +.8	les in ea +.4	ch size f +.3		+.20	+.10	Total partic	es Descriptio	on of these par	ticles		
Key Minerals <sub>mm</sub>	<u>Nun</u> +2.0	nber of +1.2	particle +.8	es in eac 3 +.4	:h size fro +.3	action +.25	+.20	+.10	Wear	Overall Morph. Gro	Total up particles	No of part		pased PRIORITY based logy on morphology and Probe)
	97 D.			معال السم	:h	ales franci	l!							
Other Minerals	+2.0	+1.2	+.8	+.4	+.3	size frac +.25	+.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Almandine				Tr	Tr		Tr		MW					
Anatase				Tr	Tr		Tr		W					
Corundum				Tr	Tr		Tr		W					
Fe Oxide/Hydroxide				100	95		95		w					
Haematite					Tr				MW					
Leucoxene				Tr	Tr		Tr		W					
Phosphate				Tr	Tr		Tr		W					
Rutile				Tr	Tr		Tr		MW					
Tourmaline				Tr	Tr		Tr		ww					
Zircon				Tr	5		5		MW					
TOTAL	%	%	5 %	100%	100%	% 1	100%	%						
What Has Been	Obs		1.0										Technic	ian: JED
Final Conc Weight		0.68		Size Rar	nge	-0.5	5+0.2 r	mm					ate Obser	<b>ved</b> : 16-Nov-09
Weight Observed		0.68	-								Re	port Print	<b>led:</b> 27/	11/2009 4:09:52 PM
Magnetic Fractions mm +	vs Siz 2.0	te Frac +1.2		<b>+.4</b>	+.3 All	+.25	<b>+.20</b>	+.10		ment al ample:	bout			



Our Job No.: 09103 Disc No.: -

Sample No: COH000002 Negative Overall Sample Assessment

Cox Arnold NT Your Project Code:

Fx 61 8 9470 1504															
Sample Type (	as c	ollec	ted):				Loa	m					Head	Weight	46.23 kg
Sample Type (	as re	eceiv	ed):				Loa	m					Wet	Weight	kg
Observed	Sam	ple T	уре:		TE	BE Con	centra	te							
Diamond	mm	<u>Nur</u> +2.0	mber o +1.2	f particle +.8	es in ea +.4	ch size 1 +.3	traction +.25	+.20	+.10	Total partic	les Descriptio	on of these pa	rticles		
Key Minerals	mm	<u>Num</u> +2.0	nber of +1.2	particle: +.8	s in eac +.4	h size fr +.3	action +.25	+.20	+.10	Wear	Overall Morph. Gro	Total up particles		ticles PRIORITY to on Morphol only)	pased PRIORITY based logy on morphology and Probe)
Other Minero	als mm	<u>% P€</u> +2.0	ercento +1.2	age of po +.8	articles +.4	in each +.3	size fra +.25	<u>ction</u> +.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase	Τ				Tr	Tr		Tr		MW					
Barite					Tr	Tr		Tr		MW					
Corundum						Tr		Tr		MW					
Fe Oxide/Hydroxide					100	100		100		w					
Haematite	l				Tr	Tr		Tr		MW					
Ilmenite					Tr	Tr		Tr		MW					
Kyanite						Tr		Tr		W					
Leucoxene					Tr	Tr		Tr		w					
Rutile					Tr	Tr		Tr		W					
Tourmaline					Tr	Tr		Tr		ww					
Zircon					Tr	Tr		Tr		w					
TOTAL	ė	%	%	%	100%	100%	%	100%	%						
What Has Be	en	Obs	erve	d?										Technic	ian: JED
Final Conc Weig			00001	1	ize Rar	nge	-C	.5+0.2	mm					Date Obser	
Weight Observe	ed	5.30	00001	g								Re	port Prin		/11/2009 4:10:17 PM
Magnetic Fracti	ons	vs Siz	e Frac	tion						Comment about					
NotMo	ig +	2.0	+1.2	+.8	+.4	+.3 All	+.25	<b>+.20</b>	+.10		sample:				

# Ph 61 8 9361 2596 Fx 61 8 9470 1504

#### **Detailed Heavy Mineral Analysis**

Our Job No.: 09103 Disc No.:

СОН000003
Positive

Cox Arnold NT

Sample Type (as collected): Loam **Head Weight** 44.52 kg Sample Type (as received): Loam Wet Weight kg Observed Sample Type: TBE Concentrate

Ove

Your Project Code:

Total **Diamond** particles Description of these particles +.10 Key Minerals  $\frac{\text{Number of particles in each size fraction}}{\text{+2.0}}$   $\frac{\text{+1.2}}{\text{+1.2}}$   $\frac{\text{+.8}}{\text{+.8}}$   $\frac{\text{+.4}}{\text{+.4}}$   $\frac{\text{+.3}}{\text{+.3}}$   $\frac{\text{+.25}}{\text{+.25}}$ Overall No of particles PRIORITY based PRIORITY based Morph. Group particles probed on Morphology on morphology +.20 +.10 Wear and Probe) only) Chromite/Cr-Spinel WW В1 Α black, well rounded, friable Other Minerals <u>% Percentage of particles in each size fraction</u> +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Form/Shape Angularity Lustre Transparency Anatase MWTr Barite W Tr Tr Tr Corundum MF Tr Tr Fe Oxide/Hydroxide 100 80 50 MW Gahnite ww Tr Kyanite MW Tr Leucoxene Tr Tr 5 Rutile Tr W Tr Tr Tourmaline Tr Tr 15 WW Zircon W 20 30 Tr

What Has Been Observed?

TOTAL

Final Conc Weight 0.3100000 g Size Range -0.5+0.2 mm Weight Observed 0.3100000 g

% 100% 100%

% 100%

**Magnetic Fractions vs Size Fraction** 

mm +2.0 +.20 +.10 All NotMag All All

Technician: **JED** Date Observed: 17-Nov-09

Report Printed: 27/11/2009 4:10:41 PM

Comment about this sample:

Sample No: COH000004

	isc No.: -	Overall Sample Assessment	Unresolved
Ph 61 8 9361 2596		Your Project Code:	Cox Arnold N
Fx 61 8 9470 1504		•	
Sample Type (as collected):	Loam	Head Weight	45.22 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	TBE Concentrate		
Diamond Number o	f particles in each size fraction	Total	

Diamona	HIDCI O	Danick	<u> </u>	CII JIZC I	<u>I a C II O I I</u>									
m	m +2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10	partic	les Description	n of these par	ticles		
<b>Key Minerals</b>	Nu	nber of	particle	s in eac	:h size fr	action				Overall	Total	•		pased PRIORITY based
Key Millerals	m +2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10	Wear	Morph. Grou	p particles	probed	on Morphol	logy on morphology and Probe)
													Offig)	and Probe)
Chromite/Cr-Spine	I						1		W	B1		1	В	В
									dull,	black, round	led			
Olhor Minoral	- % F	ercento	ige of p	articles	in each	size fra	ction							
								+ 10	Wear	Colour	Δngularity	Lustre	Transnarency	Form/Shane
	2.0	. 1.2	0		5	20	20	10	•••ai	Joioui	Angularity	Luotio	Transparency	1 Ollin Ollape
Anatase					Tr		Tr		MW					
Other Mineral	m +2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape

Other Minerals	m ·	+2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase						Tr		Tr		MW					
Barite						Tr		Tr		MW					
Corundum	-					Tr		Tr		MF					
Fe Oxide/Hydroxide					100	90		70		W					
Imenite						Tr		Tr		MW					
Leucoxene					Tr	5		15		W					
Rutile						Tr		Tr		MW					
ourmaline						Tr		Tr		ww					
Zircon					Tr	5		15		W					
TOTAL		%	%	5 %	100%	100%	%	100%	%						

What Has Been	Obs	erve	d?							Ted	:hnician:	JED
Final Conc Weight	0.18	300000	g	Size Rang	ge	-0	ا 0.2+6.	mm		Date C	bserved:	17-Nov-09
Weight Observed	0.18	300000	g							Report Printed:	27/11/200	9 4:11:05 PM
<b>Magnetic Fractions</b>	s vs Siz	ze Frac	tion					Comment about	-			
mm	+2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10				
NotMag				All	All		All		this sample:			

TOTAL

# **Detailed Heavy Mineral Analysis**

	Samp	le No:	COH000005
Overall Sc	ample Ass	essment	Unresolved
our Proie	ct Code:		Cox Arnold N

DIATECH	Our Job No.: 09103 Disc No.: -	Overall Sample Assessment	Unresolved
Ph 61 8 9361 2596 Fx 61 8 9470 1504		Your Project Code:	Cox Arnold N
Sample Type (as collected):	Loam	Head Weight	38.44 kg

sample type (c	as Co	ollec	tea):				Loar	n					неас	a weight	38.44	кg
Sample Type (c	as re	eceiv	ed):				Loar	n					We	t Weight		kg
Observed S	am	ple T	ype:		TB	BE Con	centrat	te								
Diamond <sub>r</sub>	mm	<u>Nui</u> +2.0	mber of +1.2	particle +.8	es in eac +.4	<u>ch size 1</u> +.3		+.20	+.10	Total particl	es Description	n of these par	ticles			
Key Minerals <sub>r</sub>	mm	<u>Nun</u> +2.0	nber of   +1.2	particle: +.8	s in eac +.4	h size fr +.3	action +.25	+.20	+.10	Wear	Overall Morph. Grou	Total p particles			/ based PRIORITY bas ology on morpholog and Probe)	
Chromite/Cr-Spine	el					2	2	1		W	B1 k, well round	led, friable	3	В	В	
Other Minera	ls mm	<u>% Pe</u> +2.0	ercenta +1.2	ge of po	articles i	in each +.3	size frac	<u>ction</u> +.20	+.10	Wear	Colour	Angularity	Lustre	Transparenc	y Form/Shape	
Almandine	Τ					Tr		Tr		MW						
Anatase						Tr		Tr		MW						
Barite					90	50		80		W						
Fe Oxide/Hydroxide					10	10		5		W						
llmenite								Tr		MW						
Leucoxene						Tr		5		W						
Rutile					Tr	Tr		Tr		MW						
Tourmaline						10		5		ww						
Zircon						30		5		W						

What Has Been	Observed	1?							Tec	hnician:	JED
Final Conc Weight	0.18	g	Size Rang	ge	-0	.5+0.2 r	mm		Date O	bserved:	17-Nov-09
Weight Observed	0.18	g							Report Printed:	27/11/2009	9 4:11:29 PM
Magnetic Fractions	vs Size Frac	tion						Comment about			
mm +	2.0 +1.2	+.8	+.4	+.3	+.25	+.20	+.10				
NotMag			All	All		All		this sample:			

% 100% 100% % 100%



**Diamond** 

#### **Detailed Heavy Mineral Analysis**

Our Job No.: 09103 Disc No.:

Sample No: COH000006 Overall Sample Assessment **Negative** nold NT

JED

17-Nov-09

27/11/2009 4:11:53 PM

Technician:

Date Observed:

5		Your Project Code:	Cox Arr
(as collected):	Loam	Head Weig	ıht 41

Total

particles Description of these particles

Sample Type (as collected):	Loam	Head Weight	41.3 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Type:	TBE Concentrate		

+.10

Key Minerals <sub>mm</sub>	<u>Nur</u> +2.0	nber of +1.2	particle +.8		ch size fro +.3	action +.25	+.20	+.10	Wear	Overall Morph. Group	Total particles	No of particl probed		ed PRIORITY based on morphology and Probe)
Other Minerals	<u>% P</u> +2.0	ercento	age of p	oarticles +.4	in each	size fra	ction +.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase	+2.0	<b>+1.2</b>	7.0	7.4	7.3 Tr	+.25	7.20	Ŧ.1U	MANA/	Colour	Angularity	Lustre	Transparency	rorm/snape

Omer Minerals	m +2	2.0	+1.2	+.8	+.4	+.3	+.25	+.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase						Tr		Tr		MW					
Barite					Tr	Tr		Tr		W					
Corundum						Tr		Tr		MF					
Fe Oxide/Hydroxide					100	90		80		w					
Gahnite						Tr		Tr		MW					
Leucoxene					Tr	Tr		Tr		ww					
Phosphate					Tr	Tr		Tr		ww					
Rutile					Tr	Tr				MW					
Tourmaline					Tr	5		10		ww					
Zircon					Tr	5		10		ww					
TOTAL		%	%	, %	100%	100%	%	100%	%						

What Has Been Observed?

Final Conc Weight 2.5800000 g Size Range -0.5+0.2 mm

Weight Observed 2.5800000 g Report Printed:

**Magnetic Fractions vs Size Fraction** 

Comment about mm +2.0 +.20 +1.2 +.8 +.3 this sample: NotMag



Our Job No.: 09103 Disc No.:

Sample No: COH000007 Overall Sample Assessment **Negative** Cox Arnold NT

11101070012070		Tour Hoject Code.	COX AITIOID IN
Fx 61 8 9470 1504			
Sample Type (as collected):	Loam	Head Weight	43.24 kg
Sample Type (as received):	Loam	Wet Weight	kg
Observed Sample Types	TRE Concentrate		

00301100100	mpio i	7,00.				coman								
Diamond <sub>mr</sub>	<u>Nu</u> n +2.0		f particle +.8	s in eac +.4	ch size f +.3	traction +.25	+.20	+.10	Total partic	les Description	n of these part	ticles		
Key Minerals <sub>mr</sub>	<u>Nur</u> n +2.0	<u>nber of</u> +1.2	particles +.8	in eac +.4	h size fr +.3	action +.25	+.20	+.10	Wear	Overall Morph. Grou	Total p particles	No of part probed		pased PRIORITY based logy on morphology and Probe)
Other Minerals	<u>% P</u> n +2.0	ercento +1.2	age of pa	<u>ırticles i</u> +.4	n each +.3	size frac +.25	<u>tion</u> +.20	+.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Anatase				Tr	Tr		Tr		W					
Corundum					Tr		Tr		MF					
Fe Oxide/Hydroxide				50	10		10		MW					
Kyanite					Tr		Tr		MW					
Leucoxene				50	30		30		W					
Phosphate				Tr	Tr		Tr		ww					
Rutile				Tr	10		10		W					
Tourmaline					10		5		ww					
Zircon				Tr	40		45		W					

What Has Been	Observed	?						Tec	hnician:	JED
Final Conc Weight	0.5700000 (	g Size Rang	ge	-0.	5+0.2 r	nm		Date O	bserved:	18-Nov-09
Weight Observed	0.5700000 9	g						Report Printed:	27/11/2009	9 4:12:17 PM
<b>Magnetic Fractions</b>	vs Size Fract	ion					Comment about	•		
mm -	+2.0 +1.2	+.8 +.4	+.3	+.25	+.20	+.10				
NotMag		All	All		All		this sample:			

% 100% 100%