



Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163036

Overall Sample Assessment Negative

Your Project Code: Northern Territory

Sample Type (as collected):	Sediment	Head Weight	9.28 kg
Sample Type (as received):	Sediment	Wet Weight	kg
Observed Sample Type:	TBE Concentrate		

Diamond	Number of particles in each size fraction									Total particles	Description of these particles
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals	Number of particles in each size fraction									Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals	% Percentage of particles in each size fraction									Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						
Almandine				20	30	30				W					
Amphibole				Tr	Tr	5				MW					
Biotite					Tr	Tr				MW					
Epidote					Tr	Tr				W					
Fe Oxide/Hydroxide				50	15	10				W					
Gahnite					Tr	Tr				W					
Ilmenite				Tr	15	20				W					
Kyanite				10	20	20				MW					
Leucoxene					Tr	Tr				WW					
Monazite					Tr	Tr				WW					
Muscovite					Tr	Tr				MW					
Rutile					Tr	Tr				WW					
Spessartine				20	20	15				W					
Staurolite					Tr	Tr				MW					
Tourmaline				Tr	Tr	Tr				W					
TOTAL		%	%	100%	100%	100%	%	%	%						



Ph 61 8 9361 2596
Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163036

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 1.6000001 g | Size Range -1.2+0.3 mm
Weight Observed 1.6000001 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about
this sample:

Technician: LF

Date Observed: 29-Jul-08

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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163037

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Sediment
Sample Type (as received): Sediment
Observed Sample Type: TBE Concentrate

Head Weight 7.84 kg
Wet Weight kg

Diamond

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Total particles Description of these particles

Key Minerals

Number of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Overall Morph. Group Total particles No of particles probed PRIORITY based on Morphology only PRIORITY based on morphology and Probe)

Other Minerals

% Percentage of particles in each size fraction
mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10 Wear Colour Angularity Lustre Transparency Form/Shape

Almandine			65	50	30				W					
Amphibole				5	10				W					
Biotite				Tr	Tr				MW					
Epidote			Tr	Tr	10				W					
Fe Oxide/Hydroxide			10	Tr	Tr				W					
Gahnite				Tr	Tr				WW					
Ilmenite			5	15	15				W					
Kyanite			Tr	10	15				MW					
Rutile				Tr	Tr				WW					
Spessartine			20	20	20				W					
Staurolite				Tr	Tr				W					
Tourmaline					Tr				WW					
TOTAL	%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight 2.26 g Size Range -1.2+0.3 mm
Weight Observed 2.26 g

Magnetic Fractions vs Size Fraction

mm +2.0 +1.2 +.8 +.4 +.3 +.25 +.20 +.10
NotMag All All All

Comment about this sample:

Technician: LF

Date Observed: 29-Jul-08

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DIATECH
HEAVY MINERAL SERVICES
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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163038

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Sediment

Head Weight 10.2 kg

Sample Type (as received): Sediment

Wet Weight kg

Observed Sample Type: TBE Concentrate

Diamond

mm	Number of particles in each size fraction								Total particles	Description of these particles
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals

mm	Number of particles in each size fraction								Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals

mm	% Percentage of particles in each size fraction								Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Al-Silicates					Tr					MW				
Almandine			30	50	50					W				
Amphibole			Tr	20	20					W				
Biotite				Tr	Tr					MW				
Epidote					5					WW				
Fe Oxide/Hydroxide			60	5	Tr					W				
Gahnite					Tr					WW				
Ilmenite				5	5					W				
Kyanite				10	10					MW				
Leucoxene			Tr	Tr	Tr					WW				
Monazite			Tr	Tr	Tr					WW				
Muscovite				Tr	Tr					MW				
Rutile					Tr					WW				
Spessartine			10	10	10					W				
Tourmaline				Tr	Tr					W				
Zircon				Tr	Tr					WW				

TOTAL	%	%	100%	100%	100%	%	%	%						
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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163038

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 5.6200001 g | Size Range -1.2+0.3 mm
Weight Observed 5.6200001 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about
this sample:

Technician: LF

Date Observed: 29-Jul-08

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HEAVY MINERAL SERVICES
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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163039

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

Sample Type (as collected): Sediment

Head Weight 11.48 kg

Sample Type (as received): Sediment

Wet Weight kg

Observed Sample Type: DMS Concentrate

Diamond

mm	Number of particles in each size fraction								Total particles	Description of these particles
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals

mm	Number of particles in each size fraction								Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals

mm	% Percentage of particles in each size fraction								Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Almandine			45	40	30					MW				
Amphibole			Tr	Tr	Tr					MW				
Barite				Tr						MW				
Biotite					Tr					W				
Epidote			Tr	Tr	Tr					MW				
Fe Oxide/Hydroxide			35	25	35					W				
Gahnite				Tr	Tr					W				
Ilmenite			Tr	Tr	15					MW				
Kyanite			Tr	Tr	Tr					W				
Muscovite					Tr					MW				
Orthopyroxene			Tr	Tr	Tr					MW				
Rutile					Tr					W				
Spessartine			20	35	20					MW				
Staurolite				Tr	Tr					MW				
Tourmaline				Tr	Tr					MW				
Zircon					Tr					W				

TOTAL	%	%	100%	100%	100%	%	%	%						
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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.: -

Sample No: 163039

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 12.42 g Size Range -1.2+0.3 mm

Weight Observed 12.42 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about
this sample:

Technician: BJG

Date Observed: 29-Jul-08

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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.:

Sample No: 163039R

Overall Sample Assessment Negative

Your Project Code: Northern Territory

Sample Type (as collected):	Rock	Head Weight	2.52 kg
Sample Type (as received):	Rock	Wet Weight	kg
Observed Sample Type:	TBE Concentrate		

Diamond	Number of particles in each size fraction									Total particles	Description of these particles
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10		

Key Minerals	Number of particles in each size fraction									Wear	Overall Morph. Group	Total particles	No of particles probed	PRIORITY based on Morphology only)	PRIORITY based on morphology and Probe)
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						

Other Minerals	% Percentage of particles in each size fraction									Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10						
Almandine				Tr	15	20				MW					
Amphibole				Tr	15	20				MW					
Barite				35	45	40				MW					
Biotite				Tr						MW					
Epidote					Tr	Tr				MW					
Fe Oxide/Hydroxide				65	20	10				MW					
Gahnite						Tr				MW					
Ilmenite						Tr				MW					
Kyanite					Tr	Tr				MW					
Orthopyroxene					Tr	Tr				MW					
Pyrite				Tr	Tr	Tr				MW					
Rock Fragments				Tr	Tr	Tr				MW					
Rutile						Tr				MW					
Spessartine				Tr	5	10				MW					
Tourmaline					Tr	Tr				W					
TOTAL		%	%	100%	100%	100%	%	%	%						



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Detailed Heavy Mineral Analysis

Our Job No.: 08039
Disc No.:

Sample No: 163039R

Overall Sample Assessment **Negative**

Your Project Code: Northern Territory

What Has Been Observed?

Final Conc Weight 1.4300000 g | Size Range -1.2+0.3 mm
Weight Observed 1.4300000 g

Magnetic Fractions vs Size Fraction

mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10
NotMag			All	All	All			

Comment about
this sample:

Technician: BJG

Date Observed: 29-Jul-08

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