



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163073

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected):	Loam	Head Weight	25 kg
Sample Type (as received):	Loam	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						

Almandine					Tr					W					
Amphibole					Tr					W					
Barite			Tr	Tr	Tr					W					
Biotite					Tr					W					
Fe Oxide/Hydroxide			100	100	100					MW					
Ilmenite					Tr					MW					
Kyanite					Tr					W					
Spessartine				Tr	Tr					W					
Tourmaline				Tr	Tr					WW					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 3.7000000 g | Size Range: -2+0.3 mm
Weight Observed: 3.7000000 g

Technician: JED

Date Observed: 17-Sep-09

Report Printed: 29/09/2009 9:40:12 AM

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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

Fx 61 8 9470 1504

Detailed Heavy Mineral Analysis

Our Job No.: 09082

Disc No.: -

Sample No: 163074

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Loam Head Weight: 26.12 kg
 Sample Type (as received): Loam 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						

Almandine				Tr	Tr	Tr									MW
Biotite						Tr									W
Fe Oxide/Hydroxide				100	100	100									MW
Ilmenite						Tr									MW
Kyanite				Tr	Tr	Tr									MW
Muscovite						Tr									W
Rutile					Tr	Tr									MW
Spessartine					Tr	Tr									MW
Tourmaline					Tr	Tr									WW
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 18.39 g Size Range: -2+0.3 mm
 Weight Observed: 18.39 g

Technician: JED

Date Observed: 17-Sep-09

Report Printed: 29/09/2009 9:40:36 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163075

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Loam Head Weight: 25.36 kg
 Sample Type (as received): Loam 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						

Almandine				Tr	Tr					MW					
Barite				Tr	Tr					W					
Biotite					Tr					W					
Fe Oxide/Hydroxide			100	100	100					MW					
Kyanite			Tr		Tr					W					
Muscovite					Tr					W					
Rutile				Tr						W					
Spessartine				Tr	Tr					MW					
Tourmaline				Tr	Tr					WW					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 3.6299999 g | Size Range: -2+0.3 mm
 Weight Observed: 3.6299999 g

Technician: JED

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:41:00 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163076

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Loam Head Weight: 29.52 kg
 Sample Type (as received): Loam Wet Weight: kg
 Observed Sample Type: TBE Concentrate

Diamond Number of particles in each size fraction Total particles Description of these particles

Key Minerals Number of particles in each size fraction 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 Wear Colour Angularity Lustre Transparency Form/Shape

	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Almandine				Tr	Tr	Tr				MW					
Amphibole					Tr	Tr				W					
Barite					Tr	Tr				W					
Epidote					Tr	Tr				W					
Fe Oxide/Hydroxide				100	100	100				MW					
Kyanite				Tr	Tr	Tr				MW					
Muscovite						Tr				W					
Rutile					Tr	Tr				MW					
Spessartine					Tr	Tr				MW					
Tourmaline					Tr	Tr				WW					
Zircon						Tr				WW					
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 20.770000 g | Size Range: -2+0.3 mm
 Weight Observed: 20.770000 g

Technician: JED

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:41:24 AM

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:



DIATECH
HEAVY MINERAL SERVICES

Ph 61 8 9361 2596

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Detailed Heavy Mineral Analysis

Our Job No.: 09082

Disc No.: -

Sample No: 163077

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected):	Loam	Head Weight	28.42 kg
Sample Type (as received):	Loam	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						

Almandine				Tr	Tr	Tr					MW				
Amphibole						Tr					W				
Barite				Tr	Tr	Tr					W				
Fe Oxide/Hydroxide				100	100	100					MW				
Ilmenite					Tr						MW				
Kyanite					Tr	Tr					MW				
Muscovite						Tr					W				
Spessartine					Tr	Tr					MW				
Tourmaline					Tr	Tr					WW				
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight	5.48 g	Size Range	-2+0.3 mm
Weight Observed	5.48 g		

Technician: JED

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:41:48 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163078

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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				Tr	Tr	Tr										
Al-Spinel						Tr					MW					
Amphibole					Tr	Tr					W					
Barite					Tr	Tr					W					
Biotite						Tr					W					
Epidote						Tr					W					
Fe Oxide/Hydroxide				100	100	100					MW					
Ilmenite						Tr					W					
Muscovite					Tr	Tr					W					
Spessartine					Tr	Tr					MW					
Tourmaline						Tr					WW					
Zircon					Tr	Tr					WW					
TOTAL		%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: g | Size Range: mm
 Weight Observed: g

Technician: JED

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:42:11 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163079

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Head Weight: kg
 Sample Type (as received): Wet Weight: kg
 Observed Sample Type:

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				Tr	Tr					MW					
Amphibole					Tr					MW					
Barite			Tr	Tr	Tr					W					
Fe Oxide/Hydroxide			100	100	100					MW					
Ilmenite					Tr					W					
Kyanite			Tr	Tr	Tr					MW					
Leucosene				Tr	Tr					WW					
Phosphate					Tr					WW					
Rutile				Tr						W					
Spessartine				Tr	Tr					MW					
Tourmaline				Tr	Tr					WW					
Zircon					Tr					W					

TOTAL % % 100% 100% 100% % % %

What Has Been Observed?

Final Conc Weight: g Size Range: mm
 Weight Observed: g

Technician: JED

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:42:35 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163080

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected):	Loam	Head Weight	31.4 kg
Sample Type (as received):	Loam	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						

Almandine					Tr					MW					
Barite					Tr					W					
Biotite					Tr					W					
Fe Oxide/Hydroxide			100	100	100					W					
Kyanite			Tr	Tr	Tr					MW					
Marlite					Tr					MW					
Spessartine			Tr	Tr	Tr					W					
Tourmaline					Tr					WW					
Zircon					Tr					MW					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 18.709999 g | Size Range: -2+0.3 mm
Weight Observed: 18.709999 g

Technician: BJB

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:42:59 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163081

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected):	Loam	Head Weight	29.12 kg
Sample Type (as received):	Loam	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						

Almandine				Tr	Tr	Tr									MW
Amphibole					Tr	Tr									MW
Barite						Tr									W
Biotite					Tr	Tr									W
Epidote						Tr									W
Fe Oxide/Hydroxide				100	100	100									MW
Ilmenite					Tr	Tr									W
Kyanite					Tr	Tr									MW
Muscovite						Tr									W
Rutile						Tr									MW
Spessartine					Tr	Tr									MW
Tourmaline					Tr	Tr									WW
Zircon					Tr	Tr									WW
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 26.409999 g | Size Range: -2+0.3 mm
Weight Observed: 26.409999 g

Technician: JED

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:43:24 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163082

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Loam Head Weight: 29.16 kg
 Sample Type (as received): Loam 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						

Almandine				Tr	Tr					W					
Amphibole					Tr					MW					
Barite				Tr	Tr					W					
Epidote				Tr	Tr					MW					
Fe Oxide/Hydroxide			100	100	100					W					
Ilmenite					Tr					MW					
Kyanite				Tr	Tr					W					
Phosphate					Tr					WW					
Rutile					Tr					MW					
Spessartine			Tr	Tr	Tr					W					
Tourmaline				Tr	Tr					WW					
Zircon				Tr						W					
TOTAL	%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 21.07 g | Size Range: -2+0.3 mm
 Weight Observed: 21.07 g

Technician: BJJ

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:43:49 AM

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:



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163083

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Loam Head Weight: 24.66 kg
 Sample Type (as received): Loam 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						

Almandine				Tr	Tr	Tr										W
Amphibole						Tr										W
Barite						Tr										W
Epidote					Tr	Tr										W
Fe Oxide/Hydroxide				100	100	100										MW
Ilmenite					Tr	Tr										W
Kyanite				Tr	Tr	Tr										MW
Rutile						Tr										MW
Staurolite					Tr											W
Tourmaline					Tr	Tr										WW
Zircon						Tr										MW
TOTAL		%	%	100%	100%	100%	%	%	%							

What Has Been Observed?

Final Conc Weight: 39.729999 g | Size Range: -1.2+0.3mm
 Weight Observed: 39.729999 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: JED

Date Observed: 17-Sep-09

Report Printed: 29/09/2009 9:44:14 AM



Detailed Heavy Mineral Analysis

Our Job No.: 09082
Disc No.: -

Sample No: 163084

Overall Sample Assessment: **Negative**

Your Project Code: NT

Sample Type (as collected): Loam Head Weight: 31.78 kg
 Sample Type (as received): Loam Wet Weight: kg
 Observed Sample Type: TBE Concentrate

Diamond Number of particles in each size fraction Total particles Description of these particles

Key Minerals Number of particles in each size fraction 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 Wear Colour Angularity Lustre Transparency Form/Shape

	mm	+2.0	+1.2	+0.8	+0.4	+0.3	+0.25	+0.20	+0.10	Wear	Colour	Angularity	Lustre	Transparency	Form/Shape
Almandine					Tr	Tr				MW					
Amphibole						Tr				MW					
Barite					Tr	Tr				W					
Biotite						Tr				W					
Epidote						Tr				W					
Fe Oxide/Hydroxide				100	100	100				MW					
Kyanite					Tr	Tr				MW					
Rutile						Tr				MW					
Spessartine				Tr	Tr	Tr				MW					
Tourmaline						Tr				WW					
Zircon						Tr				W					
TOTAL		%	%	100%	100%	100%	%	%	%						

What Has Been Observed?

Final Conc Weight: 9.7999999 g | Size Range: -2+0.3mm
 Weight Observed: 9.7999999 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: JED

Date Observed: 18-Sep-09

Report Printed: 29/09/2009 9:44:40 AM