



DIATECH  
Ph 61 9 361 2596  
Fx 61 9 470 1504

File: 97-086.doc

# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334928

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
17.80 kgs  
125.01 grams  
-2.0+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Rare, pale grey-blue, well worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Red-brown, dull, earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			Tr		Silvery-black, moderately worn to worn subhedra.
KYANITE					
LEUCOXENE			Tr		After ilmenite, beige, cream, grey-green.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Rare, resinous, white to red-orange, opaque.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, near spherical, well rounded.
XENOTIME					
ZIRCON			Tr		Rare, colourless, frosted, well rounded.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: L.F.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334929

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
18.12 kgs  
174.93 grams  
-2.0+0.20 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		2+0.25, black, finely cokey, subhedral, worn.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
AMPHIBOLE					
ANATASE			Tr		Rare, yellow, subtranslucent, subhedral, moderately worn.
APATITE					
BARITE			Tr		Rare, colourless, transparent, anhedral, blocky.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Reddish-brown, brown, dull, blocky, rounded, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, anhedral, blocky, rounded, worn.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange-brown, opaque, resinous, anhedral, worn.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Brown-black, anhedral, blocky, rounded.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, Fe-stained, anhedral, rounded.
ROCK FRAGMENTS					
COMMENTS: Concentrate fully observed.					Observed by: S.M. Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334930

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
17.66 kgs  
82.15 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr	1+0.25, 2+0.20, black, dull, anhedral, well rounded, very finely pitted.	
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr	Very rare, grey-blue, beige, golden.	
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr	1+0.20, palest blue, subangular, rounded.	
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	97%	Red-brown, yellow-brown, purple-brown, dull, rounded.	
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr	Silvery-black, blocky to more rounded, moderately worn.	
KYANITE					
LEUCOXENE		Tr	Tr	Beige, dark brown, grey-green, porcelain-like surface.	
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr	Rare, orange, yellow, resinous, well rounded opaques.	
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr	Very rare, silvery-black, near spherical.	
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	3%	Black-brown, rarely coloured, near spherical.	
XENOTIME					
ZIRCON			Tr	Very rare, colourless, orange, rounded, vitreous, transparent.	
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed by: B.G.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334931

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
18.90 kgs  
111.90 grams  
-2.0+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, 3+0.20, black, dull, euhedral, very finely pitted surfaces, well rounded.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Very rare. Beige, anhedral, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	95%		Red-brown, orange-brown, dull, subangular to rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	1%		Silvery-black, sub/anhedra, moderately worn.
KYANITE					
LEUCOXENE		Tr	Tr		Beige, grey-green, brown, dull to porcelain-like surfaces.
MAGNETITE					
MICA			Tr		Very rare. Colourless, flaky.
MN OXIDE					
MONAZITE			Tr		Orange, orange-brown, beige, well rounded, resinous opaques.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Very rare. Silvery-black, near spherical grains.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	4%		Black-brown, rarely coloured, near spherical grains.
XENOTIME					
ZIRCON			Tr		Very rare, orange, red-brown, anhedral, well rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

COMMENTS: Concentrate fully observed.

Observed by: B.G.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334932

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
19.50 kgs  
156.36 grams  
-2.0+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr	1+0.25, 4+0.20, black, rounded, subhedral, smooth to cokey.	
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr	Golden yellow, silvery-grey, subtranslucent, subhedral.	
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	93%	Brown, red-brown, rounded, blocky.	
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			2%	Silvery-black, subangular, tabular, grooved.	
KYANITE					
LEUCOXENE		Tr	Tr	Beige, grey-blue, cream, angular, opaque.	
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	5%	Black, brown, well rounded.	
XENOTIME					
ZIRCON			Tr	Colourless, honey brown, rounded.	
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: J.D.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334933**

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
22.18 kgs  
11.04 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Rare, palest blue-grey, worn subhedra.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	17%		Red-brown, dull, earthy, the larger grains are pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	Tr	30%		Silvery-black, blocky subhedra, worn to moderately worn.
KYANITE					
LEUCOXENE			18%		Beige, tan, cream, grey-green, porcelain-like, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Rare, near spherical, red-orange, resinous.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Rare, cherry red, well rounded, strong, semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	35%		near spherical, black-brown grains, smooth to frosted.
XENOTIME					
ZIRCON			Tr		Colourless, Fe-stained, well rounded, vitreous to frosted.
ROCK FRAGMENTS					

**COMMENTS:** Concentrate fully observed.

Observed by: L.F.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334934

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
15.64 kgs  
86.71 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>BRIEF DESCRIPTION</b>
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL				
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE				
ANATASE			Tr	Rare, pale yellow, pale grey-blue, worn, translucent grains, greasy lustre.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	70%	Dull, earthy, red-brown, larger grains are yellow-brown, pisolitic.
GARNET			Tr	Almandine, 1+0.25, very pale pink, well worn.
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		Tr	15%	Blocky, worn subhedra, silvery-black.
KYANITE				
LEUCOXENE		Tr	2%	Beige, grey-green, cream, polished, after ilmenite.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE	Tr	Tr	13%	Near spherical black-brown grains, smooth to frosted.
XENOTIME				
ZIRCON			Tr	Rare, colourless, ovate to near spherical, smooth to frosted.
ROCK FRAGMENTS				

**COMMENTS:** Concentrate fully observed.

Observed by: L.F.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334935

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## PROB KIMB

STREAMSED  
28.10 kgs  
22.12 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>BRIEF DESCRIPTION</b>
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL			Tr	7+0.25, 21+0.20, black, finely granular surface, sub/anhedral, rounded.
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE				
ANATASE			Tr	Pale blue, translucent, subhedral, moderately worn.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM			Tr	Blue, transparent, anhedral, tabular, worn.
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	40%	10%	Brown, dull, subangular, blocky.
GARNET			Tr	Almandine, pale pink, anhedral, blocky, moderately worn, low Mg content.
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		25%	25%	Silvery-black, sub/anhedral, blocky, worn.
KYANITE				
LEUCOXENE		30%	28%	Cream, beige, brown, dull to porcelain-like surfaces.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES		Tr	Tr	Orange, opaque, anhedral, worn.
PREHNITE				
PYROXENE				
RUTILE		Tr	2%	Dark red, black, anhedral, blocky, rounded, worn.
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE	Tr	5%	30%	Brown, black, anhedral, blocky, worn, rounded.
XENOTIME				
ZIRCON			5%	Colourless, some Fe-staining, anhedral, rounded.
ROCK FRAGMENTS				

**COMMENTS:** Concentrate fully observed.

Observed by: S.M.  
Date: Nov. 1997.





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# HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334936**

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## POSS KIMB

STREAMSED  
28.22 kgs  
20.60 grams  
-2.0+0.20 mm

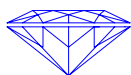
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		2+0.25, 8+0.20, well rounded, rounded octahedra, soft, smooth sheen. (1+0.20 poss kimb)
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Rare, pale grey-blue, greasy lustre, worn fragments.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Rare, palest blue, worn anhedral grains, vitreous, transparent.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	83%	25%		Dull, earthy, yellow-brown/red-brown, larger grains are pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		15%	15%		Silvery-black, moderately worn to worn.
KYANITE					
LEUCOXENE		2%	10%		Beige, cream, grey-green, porcelain-like, after ilmenite, some after rutile.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE	Tr	Tr	Tr		Well rounded, red-orange, near spherical, resinous.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Dark cherry red, well worn.
SPHENE					
SPINEL					
STAUROLITE	Tr	Tr	Tr		Rare, blocky, worn, orange-brown, translucent.
SULPHIDES					
TOURMALINE			50%		Well rounded, near spherical, black-brown.
XENOTIME					
ZIRCON			Tr		Colourless, vitreous but frosted, well rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed by: L.F.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334937

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## POSS KIMB

STREAMSED  
23.78 kgs  
3.31 grams  
-2.0+0.20 mm

KEY MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		2+0.25, 4+0.20, smooth, well rounded octahedra, soft, matt black sheen, some near spherical. (1+0.25 poss kimb, others not considered kimb)
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	% +0.8	% +0.4	% +0.20	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		Palest grey-blue, well worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Rare, palest blue, tabular, transparent, vitreous, worn.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	Tr		Brown, pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	5%		Silvery-black, blocky, worn subhedra.
KYANITE					
LEUCOXENE			40%		Beige, cream, tan, polished, sub-rounded to well worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE		Tr	Tr		Red-orange, near spherical, opaque, resinous.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Dark cherry red, well worn, strong, semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		10%	50%		Black-brown, near spherical, translucent, smooth to finely frosted.
XENOTIME					
ZIRCON			5%		Colourless, orange, yellow, ovate to well rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

COMMENTS: Concentrate fully observed.

Observed by: L.F.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334938**

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
25.58 kgs  
10.16 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Rare, pale grey-blue, well worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	80%	58%		Mustard yellow, red-brown, dull, earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		5%	5%		Moderately worn to worn, silvery-black.
KYANITE					
LEUCOXENE		Tr	2%		Beige, cream, grey-green, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE		Tr	Tr		Near spherical, opaque, dull, resinous, red-orange.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Rare, dark cherry red, strong, semi-metallic lustre, elongate, blocky, worn.
SPHENE					
SPINEL					
STAUROLITE			Tr		Rare, blocky, worn, orange-brown.
SULPHIDES					
TOURMALINE	Tr	15%	35%		Black-brown, near spherical, translucent.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, frosted, usually Fe-stained, well rounded.
ROCK FRAGMENTS					

**COMMENTS:** Concentrate fully observed.

Observed by: L.F.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334939

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
24.74 kgs  
10.07 grams  
-2.0+0.20 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, 3+0.20, well rounded, soft sheen.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
AMPHIBOLE					
ANATASE		Tr	Tr		Rare, pale sky blue, grey-blue, well worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	73%		Mustard yellow, red-brown, the larger grains are pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	Tr	2%		Silvery-black, worn fragments.
KYANITE					
LEUCOXENE		Tr	5%		After ilmenite, grey-green, polished.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Well rounded, near spherical, resinous, orange.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Cherry red, well worn, blocky.
SPHENE					
SPINEL					
STAUROLITE	Tr				1+0.8, orange-brown, well worn, blocky.
SULPHIDES					
TOURMALINE	Tr	10%	20%		Well rounded, black-brown, near spherical, translucent.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, orange, Fe-stained, ovate to near spherical, frosted.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: L.F.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334940**

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
21.68 kgs  
50.39 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
-----------------------	-----------	-----------	------------	-----------	--------------------------

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	7%		Reddish-brown, brown, dull, subangular, blocky, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	8%		Black, subangular, tabular, blocky, moderately worn.
KYANITE					
LEUCOXENE		10%	80%		Cream, beige-brown, dull to porcelain-like surfaces, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange-brown, opaque, sub-resinous, anhedral, worn.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	5%		Brown, brown-black, anhedral, blocky, rounded.
XENOTIME					
ZIRCON					
ROCK FRAGMENTS					

**COMMENTS:** Concentrate fully observed.

Observed by: S.M.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334941

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
24.36 kgs  
64.86 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Rare, very pale blue, subhedral, blocky, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	66%	3%		Reddish-brown, anhedral, blocky, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	3%	35%		Silvery-black, sub/anhedral, subangular, tabular, blocky, moderately worn.
KYANITE					
LEUCOXENE		30%	59%		Cream, beige, brown, dull to porcelain-like surfaces, blocky, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr			Orange-brown, resinous, opaque, anhedral, worn.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		1%	3%		Brown-black, anhedral, blocky, rounded.
XENOTIME					
ZIRCON			Tr		Colourless, orange, Fe-stained, anhedral, rounded.
ROCK FRAGMENTS					

COMMENTS: -2.0+0.4 fully obs.  
-0.4+0.25 ½ obs.

Observed S.M.  
by: Nov. 1997.  
Date:



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# HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334942**

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
24.06 kgs  
37.79 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Brown, transparent, subhedral, tabular, worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	42%	15%		Reddish-brown, purple-brown, dull, subangular, blocky, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		5%	20%		Silvery-black, sub/anhedral, tabular, blocky, moderately worn.
KYANITE					
LEUCOXENE		50%	62%		Cream, beige, brown, dull to porcelain-like, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange, opaque, resinous, anhedral, worn.
PREHNITE					
PYROXENE					
RUTILE			Tr		Red, translucent, anhedral, blocky, rounded, some striated.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		3%	3%		Blue, brown, black, anhedral, blocky, rounded, worn.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, some Fe-staining, anhedral, rounded.
ROCK FRAGMENTS					
<b>COMMENTS:</b>	-2.0+0.4 fully obs. -0.4+0.25 ½ obs.				Observed by: S.M. Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334943

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
25.12 kgs  
20.60 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>BRIEF DESCRIPTION</b>
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL				
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE				
ANATASE				
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	75%	39%	Reddish-brown, purple-brown, dull, subangular, blocky, worn.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE		5%	10%	Silvery-black, sub/anedral, tabular, subangular, blocky, moderately worn.
KYANITE				
LEUCOXENE		10%	10%	Cream, beige, brown, dull to porcelain-like surfaces, blocky, rounded, worn.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES			Tr	Orange-brown, opaque, sub-resinous, anhedral, worn.
PREHNITE				
PYROXENE				
RUTILE				
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		10%	40%	Brown, black, anhedral, blocky, rounded, worn.
XENOTIME				
ZIRCON		Tr	1%	Colourless, some Fe-stained, anhedral, rounded.
ROCK FRAGMENTS				

**COMMENTS:** Concentrate fully observed.

Observed by: S.M.  
Date: Nov. 1997.





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# HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334944**

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
21.34 kgs  
12.98 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Palest grey-blue, rare golden yellow grains, worn subhedra.
APATITE					
BARITE			Tr		Rare, soft, Fe-stained crystal aggregates.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	65%	Tr		Ovate to spherical beige nodules, finely studded with quartz.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		10%	55%		Silvery-black, blocky subhedra, moderately worn.
KYANITE					
LEUCOXENE		15%	25%		Beige, tan, blocky, sub-rounded grains, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		10%	20%		Near spherical, black-brown grains.
XENOTIME					
ZIRCON			Tr		Rare, colourless, well rounded.
ROCK FRAGMENTS					

**COMMENTS:** Concentrate fully observed.

Observed by: L.F.  
Date: Oct. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334945

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
27.92 kgs  
95.12 grams  
-2.0+0.25 mm

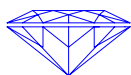
KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE		Tr	Tr		Blue-grey, golden yellow, translucent, tabular.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	30%	15%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	30%	40%		Silvery-black, subangular, tabular, grooved.
KYANITE					
LEUCOXENE		35%	35%		Cream, beige, brown, grey, angular, blocky, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Orange-red, cherry red, silvery sheen.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	10%		Brown, black, orange, well rounded to subhedral.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, pale orange, honey brown, well rounded, slight frosting.
ROCK FRAGMENTS					

**COMMENTS:**  
-2.0+0.8 fully obs.  
-0.8+0.25 concentrate magnetically separated.  
N/M -0.8+0.25 fully obs.  
M6/7 -0.8+0.25 fully obs.  
M4/5 -0.8+0.25 fully obs.  
M1/2/3 scalp not observed.

Observed J.D.  
by: Nov. 1997.  
Date:



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334946

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
16.38 kgs  
19.27 grams  
-2.0+0.25 mm

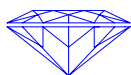
KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	20%	10%		Dull, red-brown, larger grains are yellow-brown, dull pisolites.
GARNET			Tr		Almandine, frosted, well rounded, pink grain, also rare spessartine, orange, worn, broken euhedra.
GOLD					
GORCEIXITE	Tr				Resinous, red-brown, opaque, well worn, rare.
HAEMATITE					
ILMENITE	Tr	50%	55%		Silvery-black, blocky, bright, moderately worn subhedra.
KYANITE					
LEUCOXENE		20%	25%		After ilmenite, polished, porcelain-like, beige, tan.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE	Tr				
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES			Tr		Pyrite, rare, worn, tarnished fragments, finely crystalline.
TOURMALINE		10%	10%		Well rounded, near spherical, black-brown grains.
XENOTIME					
ZIRCON			Tr		Well rounded, near spherical, colourless, Fe-stained, frosted.
ROCK FRAGMENTS					

COMMENTS: Concentrate fully observed.

Observed by: L.F.  
Date: Oct. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334947

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
26.26 kgs  
86.85 grams  
-2.0+0.25 mm

KEY MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	% +0.8	% +0.4	% +0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	20%	15%		Brown, reddish-brown, dull, subangular, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	20%	30%		Silvery-black, sub/anedral, tabular, blocky, rounded.
KYANITE					
LEUCOXENE	Tr	60%	55%		Creamy, brown, beige, sub/anedral, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Rare, orange, resinous, opaque, anhedral, moderately worn.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Brown, black, anhedral, blocky, rounded.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, some Fe-staining, anhedral, rounded.
ROCK FRAGMENTS					

**COMMENTS:** -2.0+0.8 fully obs.  
-0.8+0.25 concentrate magnetically separated.  
N/M -0.8+0.4 fully obs, -0.4+0.25 ¼ obs.  
M6/7 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs.  
M4/5 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs.  
M1/2/3 scalp not observed.

Observed by: S.M.  
Date: Nov. 1997.



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# HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

334948

## ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

## NEGATIVE

STREAMSED  
25.24 kgs  
119.94 grams  
-2.0+0.25 mm

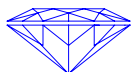
KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Golden yellow, grey-blue, tabular, translucent grains, moderately fresh.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	30%	15%		Mustard yellow, red-brown, dull, earthy, larger grains are pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	20%	30%		Bright silvery-black grains, moderately worn subhedra, many partly leucoxenised.
KYANITE					
LEUCOXENE	Tr	50%	53%		Abundance of beige and tan polished, blocky grains, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Rare, moderately worn to moderately fresh, cherry red grains, also more worn, silvery-black grains.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	2%		Well rounded, black-brown, frosted.
XENOTIME					
ZIRCON			Tr		Fe-stained, colourless grains, well rounded to ovate, frosted.

**COMMENTS:** -2.0+0.8 fully obs.  
-0.8+0.25 concentrate magnetically separated.  
NM -0.8+0.25 fully obs.  
M6/7 -0.8+0.25 fully obs.  
M4/5 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs.  
M1/2/3 scalp not observed.

Observed L.F.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334949**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
22.96 kgs  
108.70 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

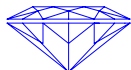
% % %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	15%	10%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	40%	45%		Silvery-black, blocky, tabular, grooved.
KYANITE					
LEUCOXENE		45%	45%		Brown, beige, cream, grey.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black, brown, well rounded, rare subhedral.
XENOTIME					
ZIRCON			Tr		Honey brown, pale orange, rounded.

**COMMENTS:** -2.0+0.8 fully obs.  
 -0.8+0.25 concentrate magnetically separated.  
 NM -0.8+0.25 fully obs.  
 M6/7 -0.8+0.25 fully obs.  
 M4/5 -0.8+0.25 fully obs.  
 M1/2/3 scalp not observed.

Observed J.D.  
 by: Oct. 1997.  
 Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334950**

### ASSESSMENT

Type of sample  
 Head Weight  
 Conc Weight -1.2+0.25mm  
 Size fractions observed

### NEGATIVE

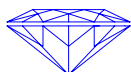
STREAMSED  
 23.34 kgs  
 -2.0+0.25 grams  
 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	73%	40%		Reddish-brown, blocky, rounded, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		15%	15%		silvery-black, some leucoxene coating, sub/anhedral, blocky, worn, some with trace of Mg.
KYANITE					
LEUCOXENE		5%	15%		Creamy, beige, brown, dull to porcelain-like surface, blocky, rounded, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Orange-red, subtranslucent, anhedral, blocky, worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		7%	30%		Brown, black, anhedral, blocky, rounded, worn.
XENOTIME					
ZIRCON			Tr		Colourless, transparent, anhedral, rounded, worn.

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed S.M. by: Oct. 1997. Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334951**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
22.20 kgs  
5.01 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Palest blue, golden yellow, well worn fragments, tabular, translucent.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	30%	Tr		Pale yellow-brown, pisolitic
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE					
KYANITE					
LEUCOXENE		10%	54%		Beige, tan, grey, cream, subangular to well rounded, opaque, polished.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES	Tr		Tr		Cream, dusky pink, well rounded, opaque, resinous.
PREHNITE					
PYROXENE					
RUSTY FLAKES		60%	15%		
RUTILE		Tr	1%		Cherry red, silvery-black, elongate to rounded, well worn, strong, semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	15%		Black-brown, near spherical, well rounded, translucent, smooth.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction



XENOTIME				
ZIRCON			15%	Colourless, yellow, orange, spherical to ovate, polished.
ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: L.F. Date: Nov. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334952**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

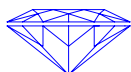
STREAMSED  
19.62 kgs  
356.34 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Reddish-brown, pisolitic, blocky, rounded, dull
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE					
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	Tr		Black-brown, well rounded, near spherical
XENOTIME					
ZIRCON		Tr	Tr		Colourless, anhedral, rounded, well worn, smooth

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: SM Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334953**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

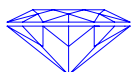
STREAMSED  
25.36 kgs  
10.7 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Colourless/blue, tabular.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	59%	5%		Brown, red-brown, rounded, blocky.
GARNET			Tr		Almandine, pale pink, angular.
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		20%	40%		Silvery-black, angular, tabular, grooved.
KYANITE					
LEUCOXENE		1%	15%		Beige, brown, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		20%	40%		Black, brown, well rounded.
XENOTIME					
ZIRCON			Tr		Colourless, orange, rounded.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: J.D. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334954**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
14.02 kgs  
71.11 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	95%		Reddish-brown, dull, rounded, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	3%		Silvery-black, sub/anhydral, blocky, moderately worn.
KYANITE					
LEUCOXENE		Tr	2%		Creamy, beige, brown, greyish, dull to porcelain-like surfaces, blocky, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE			Tr		Brown, transparent, anhydral, blocky, worn.
SULPHIDES					
TOURMALINE		Tr	Tr		Brown-black, anhydral, blocky, worn.
XENOTIME					
ZIRCON			Tr		Orange, Fe-stained, translucent, subhedral, rounded.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Nov. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334955**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

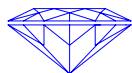
STREAMSED  
24.28 kgs  
82.15 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		ice blue, subtranslucent, tabular.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE			Tr		Yellow-green, pistachio green, angular.
FE OXIDE/HYDROXIDE	100%	40%	10%		Brown, red-brown, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	30%	50%		Silvery-black, blocky, tabular, grooved.
KYANITE					
LEUCOXENE		25%	25%		Beige, cream, brown, grey.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Pale brown, rounded, resinous lustre. Rare.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr			Black, opaque, silvery sheen elongate. Rare.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	15%		Black, brown, well rounded, rare subhedra.
XENOTIME					
ZIRCON			Tr		Colourless, orange-brown, rounded.

ROCK FRAGMENTS				
<b>COMMENTS:</b>	-2.0+0.8 fully obs. -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully obs. M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 fully obs. M1/2/3 scalp not observed.			Observed by: J.D. Date: Nov. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334956**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

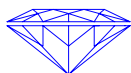
STREAMSED  
17.88 kgs  
70.9 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	82%	10%		Reddish-brown, brown, dull, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		3%	10%		Grey, black, brown, some partially altered to leucoxene.
KYANITE					
LEUCOXENE		15%	75%		Cream, beige, brown, dull to porcelain-like surfaces, subangular, blocky, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Orange, subtranslucent, anhedral, blocky, worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			5%		Green to brown, brown, black, anhedral, blocky, rounded, worn.
XENOTIME					
ZIRCON			Tr		Colourless, transparent, anhedral, rounded.

ROCK FRAGMENTS				
<b>COMMENTS:</b>	Concentrate fully observed.			Observed by: S.M. Date: Nov. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334957**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
24.68 kgs  
4.0 grams  
-2.0+0.20 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
AMPHIBOLE					
ANATASE			Tr		Golden yellow, subtranslucent, subhedral. Rare.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Colourless/blue, tabular, transparent.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	60%	5%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE					
KYANITE					
LEUCOXENE		Tr	20%		Brown, beige, cream, grey, angular, blocky, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Cherry red, rounded, silvery sheen.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		40%	75%		Black, brown, well rounded.
XENOTIME					
ZIRCON		Tr	Tr		Orange-red, colourless, rounded.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: J.D. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334958**

**ASSESSMENT**

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

**NEGATIVE**

STREAMSED  
32.42 kgs  
8.4 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Golden, blue, transparent, translucent, sub/anhedral, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE		Tr	Tr		Yellow, red, subtranslucent, anhedral, blocky, worn.
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	68%	2%	2%		Reddish-brown, brown, dull, anhedral, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		5%	3%		Silvery-black, sub/anhedral, blocky, tabular, moderately worn.
KYANITE					
LEUCOXENE	30%	85%	79%		Cream, beige, brown, greyish, porcelain-like surfaces, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE	Tr	4%	2%		Red, blackish-red, subtranslucent, opaque, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE	2%	1%	10%		Brown-black, black, anhedral, rounded.
XENOTIME					
ZIRCON		3%	4%		Colourless, some Fe-staining, anhedral, rounded.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334959**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
24.22 kgs  
5.11 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	10%		Brown, red-brown, blocky, rounded.
GARNET			Tr		Almandine, pale pink, angular. Rare.
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		5%	5%		Black, blocky, tabular, grooved.
KYANITE					
LEUCOXENE	Tr	5%	75%		Beige, grey, brown.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		White, rounded, opaque, resinous.
PREHNITE					
PYROXENE					
RUTILE			Tr		Red-brown, cherry red, black, elongate, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	10%		Black, brown, well rounded.
XENOTIME					
ZIRCON			Tr		Colourless, honey brown, rounded, rare subhedra.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction



ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: J.D. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334960**

### **ASSESSMENT**

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### **NEGATIVE**

STREAMSED  
22.68 kgs  
16.41 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

%      %      %  
 +0.8   +0.4   +0.25

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Pale blue, translucent, subhedral, tabular, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	91%	35%		Reddish-brown, dull, subangular, blocky, rounded..
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		2%	3%		Silvery-black, anhedral, subangular, blocky, moderately worn.
KYANITE					
LEUCOXENE		2%	5%		Cream, beige, brown, subporcelain-like surfaces, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange, resinous, opaque, anhedral, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	55%		Brown, black, anhedral, rounded.
XENOTIME					
ZIRCON			2%		Colourless, transparent, anhedral, rounded.

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334961**

### **ASSESSMENT**

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### **NEGATIVE**

STREAMSED  
24.16 kgs  
12.19 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr	1+0.20, smooth, worn, finely granular, anhedral	
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

%                      %                      %  
 +0.8                      +0.4                      +0.20

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr	Golden yellow, blue-grey, subhedral, rounded, translucent to opaque.	
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	75%	30%	Brown, red-brown, blocky, rounded, dull.	
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	5%	Black, tabular, subangular, grooved.	
KYANITE					
LEUCOXENE		5%	5%	Beige, brown, cream, opaque, rounded.	
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr	Cherry red, black, blocky, elongate, opaque, surface striate.	
SPHENE					
SPINEL					
STAUROLITE	Tr			Orange-brown, blocky, frosted.	
SULPHIDES					
TOURMALINE	Tr	20%	60%	Black, brown, green, well rounded.	
XENOTIME					
ZIRCON		Tr	Tr	Colourless, pale orange, rounded, rare subhedra.	

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: J.D. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334962**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
20.02 kgs  
11.6 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE		Tr	Tr		Golden yellow, colourless, subhedral, subtranslucent.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	60%	62%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		5%	3%		Black, tabular, grooved, subangular.
KYANITE					
LEUCOXENE		5%	5%		Brown, beige, cream, opaque, blocky.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Red-black, elongate, opaque.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE	Tr	30%	30%		Black, brown, green, well rounded.
XENOTIME					
ZIRCON		Tr	Tr		Colourless, honey brown, rounded.

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: J.D. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334963**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### PROB KIMB

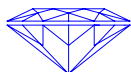
STREAMSED  
25.00 kgs  
174.5 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		6+0.25, 16+0.20, silvery-black, rounded octahedra. (1+0.20 prob kimb 2+0.20 poss kimb)
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Ice blue, tabular, subhedral.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	55%	35%		Brown, red-black, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	40%	35%		Black, tabular, blocky, grooved, subhedral.
KYANITE					
LEUCOXENE		Tr	5%		Beige, grey, cream, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr	Tr		Honey brown, milky white, pale orange, rounded, opaque, resinous.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Black, cherry red, opaque.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	25%		Black, brown, well rounded, subhedral.
XENOTIME					
ZIRCON		Tr	Tr		Honey brown, colourless, pale yellow.
ROCK FRAGMENTS					

<b>COMMENTS:</b>	-2.0+0.8 fully obs. -0.8+0.25 concentrate magnetically separated. N/M -0.8+0.25 fully obs. M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 fully obs. M1/2/3 scalp not observed.	Observed by: Date:	J.D. Nov. 1997.
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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334964**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
19.22 kgs  
282.1 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>BRIEF DESCRIPTION</b>
DIAMOND				
PYROPE				
CHROMITE/CR SPINEL				
CHROME DIOPSIDE				
PICROILMENITE				
PHLOGOPITE				
OTHER				

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE				
ANATASE			Tr	Golden, translucent, anhedral, tabular, worn.
APATITE				
BARITE				
CALCITE				
CASSITERITE				
CORUNDUM				
EPIDOTE				
FE OXIDE/HYDROXIDE	100%	100%	97%	Reddish-brown, brown, anhedral, subangular, blocky, rounded.
GARNET				
GOLD				
GORCEIXITE				
HAEMATITE				
ILMENITE			Tr	Silvery-black, sub/anhedral, blocky, tabular, moderately worn.
KYANITE				
LEUCOXENE		Tr	Tr	Beige, brown, sub-porcelain-like surfaces, blocky, worn.
MAGNETITE				
MICA				
MN OXIDE				
MONAZITE				
PHOSPHATES				
PREHNITE				
PYROXENE				
RUTILE			Tr	Reddish-orange, subtranslucent, subhedral, blocky, moderately worn.
SPHENE				
SPINEL				
STAUROLITE				
SULPHIDES				
TOURMALINE		Tr	3%	Brown, black, anhedral, rounded.
XENOTIME				
ZIRCON				

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Nov. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334965**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
18.52 kgs  
25.4 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	47%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	3%		Black, tabular, subangular, grooved.
KYANITE					
LEUCOXENE			10%		Beige, cream, grey, opaque, blocky.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		White, rounded, opaque, resinous.
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, subhedral, rounded, silvery sheen.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	40%		Black, brown, well rounded.
XENOTIME					
ZIRCON					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: J.D. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334966**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
18.40 kgs  
21.9 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Golden, pale blue, subtranslucent, opaque, anhedral, blocky.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	25%		Brown, dull, anhedral, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			Tr		Black, anhedral, blocky, worn.
KYANITE					
LEUCOXENE			35%		Beige, brown, anhedral, blocky, rounded, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES		Tr	Tr		Brassy, dull brassy, anhedral, blocky, moderately worn.
TOURMALINE		Tr	40%		Black, brown,-black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Colourless, transparent, anhedral, rounded.

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334967**

**ASSESSMENT**

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

**NEGATIVE**

STREAMSED  
26.36 kgs  
44.6 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Silvery-grey, yellow-green, golden yellow, ice blue, tabular, subhedral.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Pale blue, tabular, transparent.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	40%		Brown, red-brown, rounded, blocky.
GARNET			Tr		Spessartine, orange, angular fragments.
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE	Tr	5%	25%		Black, tabular, angular, grooved, blocky.
KYANITE					
LEUCOXENE		Tr	15%		Brown, beige, grey-green, cream, angular, rounded, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Honey brown, pale pink, opaque, rounded.
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, black, rounded, elongate, silvery sheen.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	20%		Brown, black, well rounded.
XENOTIME					
ZIRCON			Tr		Colourless, orange, red-brown, rounded, subhedral.



ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: J.D. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334968**

**ASSESSMENT**

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

**NEGATIVE**

STREAMSED  
15.68 kgs  
2.7 grams  
-2.0+0.25 mm

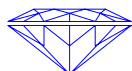
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	69%		Yellow-brown, brown, dull, anhedral, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			1%		Silvery-black, subhedral, tabular, slightly worn.
KYANITE					
LEUCOXENE		Tr	25%		Beige, brown, sub/anhedral, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange, opaque, sub-resinous, anhedral, rounded.
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, subtranslucent, anhedral, worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			5%		Black, brown-black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Colourless, transparent, anhedral, rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed S.M.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334969**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
22.68 kgs  
65.4 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr	1+0.25, black, cokey, well rounded.	Poss kimb.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Pale blue, subtranslucent, anhedral, blocky, worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	58%		Yellow-brown, reddish-brown, dull, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	10%		Silvery-black, some leucoxene coating, sub/anhedral, blocky, moderately worn.
KYANITE					
LEUCOXENE			2%		Creamy, brown, porcelain-like surfaces, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	30%		Black, brown-black, anhedral, blocky, rounded, worn.
XENOTIME					
ZIRCON			Tr		Colourless, transparent, anhedral, rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** -2.0+1.2 ½ obs.  
-1.2+0.20 fully obs.

Observed S.M.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334970**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### POSITIVE

STREAMSED  
17.52 kgs  
17.5 grams  
-2.0+0.20 mm

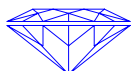
	%	%	%		
<b>KEY MINERALS</b>	+0.8	+0.4	+0.20	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND			Tr		1+0.25, sharp edged octahedra, flat-faced, almost completely discoloured, by a coffee-coloured irradiation damage.
PYROPE					
CHROMITE/CR SPINEL			Tr		3+0.20 silvery-black, rounded octahedra, granular on fracture.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

	%	%	%		
<b>OTHER MINERALS</b>	+0.8	+0.4	+0.20	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Blue-grey, opaque, subhedral.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Colourless/blue, tabular. Rare.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	20%		Brown, red-brown, orange-brown, rounded. blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, grooved, angular.
KYANITE					
LEUCOXENE			20%		Beige, cream, brown, angular, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange-brown, rounded, resinous.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	60%		Brown, black, blue, well rounded.
XENOTIME					
ZIRCON			Tr		Honey brown, colourless, rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed J.D.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334971**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
24.18 kgs  
6.8 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Ice blue, grey-blue, sub/anedral, opaque.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Blue, tabular. Rare.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	25%		Brown, red-brown, dull, well rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	10%		Black, tabular, grooved, subangular.
KYANITE					
LEUCOXENE	Tr	Tr	15%		Cream, beige, grey, opaque, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange-brown, rounded, resinous.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Cherry red, orange-red, black, subhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	45%		Black, brown, well rounded.
XENOTIME					
ZIRCON		Tr	5%		Honey brown, yellow, orange, colourless, rounded, rare subhedra.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed J.D.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334972**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
23.08 kgs  
7.2 grams  
-2.0+0.20 mm

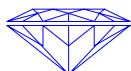
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Golden yellow, subhedral, subtranslucent. Rare.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Colourless with blue tint, tabular.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	75%	20%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		5%	5%		Silvery-black, grooved, angular, tabular.
KYANITE					
LEUCOXENE	Tr	5%	30%		Cream, beige, brown, grey, angular, rounded, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr			Pale pink, dull, opaque, rounded. Rare.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Cherry red, opaque, subhedral.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE	Tr	15%	40%		Black, brown, well rounded.
XENOTIME					
ZIRCON		Tr	5%		Colourless, honey brown, rounded, rare subhedra.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed J.D.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334973**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
25.24 kgs  
4.0 grams  
-2.0+0.20 mm

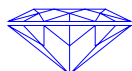
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	50%	5%	1%		Brown, dull, anhedral, subangular, blocky, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE					
KYANITE					
LEUCOXENE	50%	60%	64%		Creamy, beige, greyish, porcelain-like surface, sub/anhedral, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES	Tr	Tr	Tr		Orange, sub-resinous, opaque, anhedral, rounded.
PREHNITE					
PYROXENE					
RUTILE			Tr		Rare. Cherry red, subtranslucent, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE		Tr	Tr		Brown, translucent, anhedral, blocky, worn.
SULPHIDES					
TOURMALINE		35%	35%		Black, brown-black, anhedral, blocky, rounded, worn.
XENOTIME					
ZIRCON			Tr		Colourless, transparent, anhedral, rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed S.M.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334974**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
25.40 kgs  
128.2 grams  
-2.0+0.25 mm

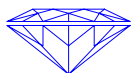
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	50%		Brown, mustard brown, red-brown.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE		Tr	Tr		Silvery-black, blocky, micaceous, specular.
ILMENITE		Tr	5%		Silvery-black, blocky, tabular, grooved.
KYANITE					
LEUCOXENE		Tr	15%		Cream, beige, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Pale orange, opaque, rounded.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Red-black, cherry red, elongate, angular, subhedral.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		5%	30%		Black, brown, green, well rounded.
XENOTIME					
ZIRCON			Tr		Colourless, orange, rounded, subhedral.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed J.D.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334975**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### PROB KIMB

STREAMSED  
24.38 kgs  
56.2 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, 11+0.20 black, finely cokey, subhedral, moderately worn. (1+0.25 poss kimb 3+0.20 prob kimb)
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Pale yellow, pale blue, translucent, sub/anhedral, blocky, worn.
APATITE					
BARITE	Tr	Tr	Tr		Colourless, translucent, opaque, anhedral, blocky, moderately worn.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE			Tr		Yellow-green, translucent, anhedral, blocky, moderately worn.
FE OXIDE/HYDROXIDE	100%	95%	55%		Tan, brown, reddish-black, dull, subangular, blocky, worn.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		3%	10%		Silvery-black, some leucoxene coating, sub/anhedral, moderately worn.
KYANITE					
LEUCOXENE		Tr	15%		Cream, beige, brown, dull to porcelain-like surfaces, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr	Tr		Orange-brown, sub-resinous, opaque, anhedral, worn.
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, dark red, translucent, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE	Tr	2%	20%		Blue, green, black-brown, black, anhedral, rounded.
XENOTIME					
ZIRCON					
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction



**COMMENTS:** Concentrate fully observed.

Observed S.M.  
by: Oct. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334976**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
17.52 kgs  
148.6 grams  
-2.0+0.25 mm

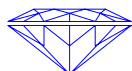
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE					
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	95%		Brown, red-brown, rounded, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE	Tr	Tr	Tr		Silvery-black, earthy, specular.
ILMENITE		Tr	Tr		Black, angular, tabular, grooved.
KYANITE					
LEUCOXENE			Tr		Beige, cream, opaque.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	5%		Black, brown, well rounded.
XENOTIME					
ZIRCON			Tr		Pale orange, colourless, rounded.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed J.D.  
by: Nov. 1997.  
Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334977**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
16.08 kgs  
169.9 grams  
-2.0+0.25 mm

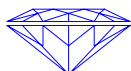
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Golden yellow, tabular, subtranslucent, subhedral.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	100%		Brown, red-brown, rounded, blocky, dull.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE		Tr	Tr		Silvery-black, blocky, micaceous, specular, earthy.
ILMENITE			Tr		Black, blocky, tabular, grooved.
KYANITE					
LEUCOXENE					
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Red-brown, elongate, tabular.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE			Tr		Brown, black, well rounded.
XENOTIME					
ZIRCON			Tr		Honey brown, pale pink, colourless.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed by: J.D.  
Date: Nov. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334978**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
17.06 kgs  
145.0 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Yellow, opaque, subhedral, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Blue, transparent, anhedral, tabular, worn.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	99%	77%		Yellow, reddish-brown, dull, subangular, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		1%	10%		Silvery-black, anhedral, tabular, blocky, moderately worn.
KYANITE					
LEUCOXENE		Tr	3%		Beige, greyish, subporcelain-like, blocky, moderately worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Pink, orange, resinous, opaque, anhedral, rounded.
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Red, translucent, sub/anhedral, blocky, moderately worn to worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	10%		Brown, black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Colourless, yellow-orange, sub/anhedral, transparent, moderately worn to worn.
ROCK FRAGMENTS					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

**COMMENTS:** Concentrate fully observed.

Observed  
by:  
Date:

S.M.  
Nov. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334979**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
21.06 kgs  
137.7 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr	2+0.25,	black, subhedral, octahedral, moderately worn.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

	%	%	%	Note: The number of key minerals is the <b>absolute number</b> in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction	
OTHER MINERALS	+0.8	+0.4	+0.25	mm	BRIEF DESCRIPTION
AMPHIBOLE					
ANATASE			Tr		pale blue, yellow, translucent, sub/anhedral, blocky, tabular, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	92%		Yellow-brown, brown, dull, anhedral, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, anhedral, blocky, moderately worn.
KYANITE					
LEUCOXENE			3%		Cream, brown, subporcelain-like to dull, anhedral, blocky, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES	Tr	Tr	Tr		Orange, opaque, resinous, anhedral, worn.
PREHNITE					
PYROXENE					
RUTILE			Tr		Dark red, subtranslucent, anhedral, blocky, worn.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	5%		Black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Colourless, pale pink, transparent, sub/anhedral, blocky, rounded, moderately worn to worn.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed S.M. by: Oct. 1997. Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334980**

**ASSESSMENT**

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

**NEGATIVE**

STREAMSED  
21.08 kgs  
22.0 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

%      %      %

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Golden, transparent, anhedral, tabular, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Pale blue, transparent, anhedral, tabular, worn.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	98%	40%		Yellow-brown, reddish-brown, dull, earthy, subangular, blocky.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, sub/anhedral, blocky, moderately worn.
KYANITE					
LEUCOXENE	Tr	Tr	45%		Creamy, beige, greyish, dull to porcelain-like surfaces, sub/anhedral, blocky, rounded, worn.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES		Tr	Tr		Orange, sub-resinous, opaque, anhedral, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		2%	15%		Brown-black, black, anhedral, rounded.
XENOTIME					
ZIRCON					

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed S.M. by: Oct. 1997. Date:



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334981**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
21.04 kgs  
21.5 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Pale blue, transparent, subhedral, blocky, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	20%		Reddish-brown, dull, subangular, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE			1%		Black, some leucoxene coating, rounded.
KYANITE					
LEUCOXENE		Tr	64%		Creamy, brown, greyish, dull to porcelain-like surfaces, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE			Tr		Cherry red, translucent, anhedral, rounded.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	15%		Black, brown, anhedral, rounded.
XENOTIME					
ZIRCON					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334982**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
20.52 kgs  
157.1 grams  
-2.0+0.25 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.25		
AMPHIBOLE					
ANATASE			Tr		Palest grey-blue, golden yellow, worn subhedra.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Rare, palest blue, transparent, vitreous, worn.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	95%		Dull, mustard yellow, red-brown, earthy, many pisolitic.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	2%		Dull, silvery-black, worn subhedra.
KYANITE					
LEUCOXENE			1%		Blue-grey, beige, polished worn subhedra, after ilmenite.
MAGNETITE			Tr		Rare, sharp-edged octahedra, brown.
MICA					
MN OXIDE					
MONAZITE			Tr		Resinous, pale orange, red-orange, well worn, opaque.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Dark cherry red, elongate to rounded, strong semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE			Tr		Well worn, honey brown, inclusions.
SULPHIDES					
TOURMALINE	Tr	Tr	2%		Black-brown, well rounded, near spherical.
XENOTIME					
ZIRCON			Tr		Colourless, orange, Fe-stained, rounded, frosted, also worn vitreous subhedra.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: L.F. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334983**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### POSS KIMB

STREAMSED  
27.50 kgs  
104.7 grams  
-2.0+0.20 mm

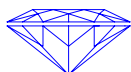
<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, 2+0.20, well rounded octahedra, soft matt black sheen, smooth black fracture. (1+0.20 poss kimb)
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Palest grey-blue, well worn.
APATITE					
BARITE		Tr			Rare, fine sugary aggregates, cream coloured.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	97%	50%		Mustard yellow, purple-brown, red-brown, dull, earthy.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		2%	15%		Dull, silvery-black, blocky, moderately worn, subhedra.
KYANITE					
LEUCOXENE		1%	25%		Grey-grey, blue-grey, beige, tan, polished and bright, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Rare, pinkish-orange, well rounded, resinous, dull.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE		Tr	Tr		Dark cherry red to silvery-black, well rounded to ovate.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES			Tr		Pyrite, rare, finely granular aggregates, dull.
TOURMALINE		Tr	10%		Black-brown, well rounded, frosted.
XENOTIME					
ZIRCON			Tr		Colourless, orange, Fe-stained, rounded to ovate, frosted, some grains are more vitreous, moderately worn.



ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: L.F. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334984**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### PROB KIMB

STREAMSED  
20.36 kgs  
261.0 grams  
-2.0+0.20 mm

KEY MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		3+0.25, 7+0.20, smooth, rounded octahedra, matt black sheen, some anhedral, very finely cokey surfaces, smooth, black fracture, some very finely granular. (1+0.25 prob kimb 2+0.20 poss kimb)
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

OTHER MINERALS	%	%	%	mm	BRIEF DESCRIPTION
	+0.8	+0.4	+0.20		
AMPHIBOLE					
ANATASE			Tr		Rare, palest grey-blue, worn anhedral.
APATITE					
BARITE			Tr		Rare, white, sugary textured.
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	91%		Dull, red-brown, purple-brown, pisolitic, some mustard brown.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE		Tr			Rare, platy aggregates, steel grey with reddish tints.
ILMENITE		Tr	2%		Blocky subhedra, moderately worn, dull silvery-black.
KYANITE			Tr		Rare, colourless, blocky, worn.
LEUCOXENE		Tr	2%		Blue-grey, beige, after subhedral ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE			Tr		Resinous, orange-red, well rounded, opaque.
PHOSPHATES					
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE	Tr				1+0.8, well rounded, dark orange-brown, dull, frosted surface.
SULPHIDES					
TOURMALINE		Tr	5%		Well rounded, black-brown, frosted, dull surfaces on most.
XENOTIME					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ZIRCON			Tr	Colourless, Fe-stained, well rounded, vitreous.
ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: L.F. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334986**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
17.24 kgs  
41.1 grams  
-2.0+0.25 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL					
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.25	mm	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE			Tr		Blue, translucent, subhedral, moderately worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	95%	68%		Yellow-brown, reddish-brown, dull, blocky, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		2%	7%		Silvery-black, sub/anhedral, blocky, worn.
KYANITE					
LEUCOXENE		1%	5%		Creamy, brown, greyish, subporcelain-like to dull surface, blocky, rounded.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange, opaque, resinous, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		2%	20%		Black, brown-black, anhedral, rounded.
XENOTIME					
ZIRCON			Tr		Orange, yellow-brown, translucent, subtranslucent, sub/anhedral, blocky, rounded, moderately worn to worn.

ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334987**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### NEGATIVE

STREAMSED  
20.66 kgs  
93.1 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr	3+0.25, 2+0.20	well rounded, near spherical, matt black.
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AI SILICATE			Tr		Colourless, Fe-stained, transparent, tabular, worn.
AMPHIBOLE					
ANATASE			Tr		Palest grey, worn, pitted, anhedral grains.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM					
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	90%	24%		Orange-brown, dull, sub-rounded to rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	15%		Soft silvery-black, sheen, worn eu/subhedra, some partly leucoxenised.
KYANITE					
LEUCOXENE			1%		Beige, cream, moderately worn, after ilmenite.
MAGNETITE					
MICA					
MN OXIDE					
MONAZITE					
PHOSPHATES					
PREHNITE					
PYROXENE					
RUSTY FLAKES	Tr	10%	40%		
RUTILE			Tr		Rare, dark cherry red, blocky, moderately worn, weak semi-metallic lustre.
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	20%		Spherical, black-brown, dull to frosted, translucent.
XENOTIME					

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

ZIRCON			Tr	Very rare. Colourless, vitreous to dull, anhedral, worn fragments.
ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: L.F. Date: Oct. 1997.



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## HEAVY MINERAL ANALYSIS SHEET

**SAMPLE NO**

**334988**

### ASSESSMENT

Type of sample  
Head Weight  
Conc Weight -1.2+0.25mm  
Size fractions observed

### PROB KIMB

STREAMSED  
18.04 kgs  
61.7 grams  
-2.0+0.20 mm

<b>KEY MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
DIAMOND					
PYROPE					
CHROMITE/CR SPINEL			Tr		1+0.25, 3+0.20, black, cokey, well rounded, octahedra. (1+0.25 poss kimb 2+0.20 prob kimb)
CHROME DIOPSIDE					
PICROILMENITE					
PHLOGOPITE					
OTHER					

<b>OTHER MINERALS</b>	% +0.8	% +0.4	% +0.20	<b>mm</b>	<b>BRIEF DESCRIPTION</b>
AMPHIBOLE					
ANATASE		Tr	Tr		Yellow, translucent, sub/anhedral, blocky, worn.
APATITE					
BARITE					
CALCITE					
CASSITERITE					
CORUNDUM			Tr		Rare. Blue, transparent, subhedral, tabular, worn.
EPIDOTE					
FE OXIDE/HYDROXIDE	100%	100%	92%		Yellow-brown, reddish-brown, dull, rounded.
GARNET					
GOLD					
GORCEIXITE					
HAEMATITE					
ILMENITE		Tr	Tr		Silvery-black, some leucoxene coating, blocky, moderately worn.
KYANITE					
LEUCOXENE			3%		Creamy, brown, greyish, subporcelain-like surface, blocky, rounded, worn.
MAGNETITE					
MICA			Tr		Yellowish, subtranslucent, anhedral flake.
MN OXIDE					
MONAZITE					
PHOSPHATES			Tr		Orange-brown, resinous, opaque, anhedral, rounded.
PREHNITE					
PYROXENE					
RUTILE					
SPHENE					
SPINEL					
STAUROLITE					
SULPHIDES					
TOURMALINE		Tr	5%		Black, anhedral, rounded.

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a ½ split) is 2 grains in a ½ split of the +0.25mm fraction

XENOTIME				
ZIRCON				
ROCK FRAGMENTS				
<b>COMMENTS:</b> Concentrate fully observed.				Observed by: S.M. Date: Oct. 1997.