

DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-040.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354551

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.14 kgs
93.9 grams
-2.0+0.25 mm
406

| 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 | | Grey-blue, ice blue, deep blue, translucent, tabular euhedra to worn rounded and opaque. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | White, blocky, frosted, often etched. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 5% | 5% | | Dark brown, tan, brick red, dull subangular to well rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 50% | 64% | | Iron black, subhedral, high metallic lustre, tabular, grooved, rarely dull and rounded. |
| KYANITE | | | | | |
| LEUCOXENE | Tr | 40% | 30% | | After ilmenite, dark brown, beige, blue-grey, angular, rarely rounded, polished. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | Tr | Tr | | Brown, orange-brown, well rounded with resinous lustre, opaque. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale brown, elongate, some with surface striation. |
| RUTILE | | Tr | Tr | | Black, cherry red, opaque, worn with silvery sheen. |
| SULPHIDES | | | | | |
| TOURMALINE | Tr | 5% | Tr | | Black-brown, brown, blue, well rounded, smooth to frosted surface. |
| UNKNOWN MINERAL | | Tr | Tr | | Dull olive green, rounded and opaque, SEM indicates Al Si K Fe. |
| ZIRCON | | | 1% | | Yellow, honey-brown, orange, colourless, pale pink, broken euhedra some with vesicular inclusions others more rounded, translucent. |
| ROCK FRAGMENTS | Tr | | | | Fe-oxide/quartz composites. |

COMMENTS: -2.0+0.8 fully observed.

Observed J.D.

by:

Date: July, 1998

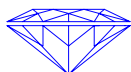
-0.8+0.25 concentrate magnetically separated.

-0.8+0.25 fully observed.

NM

M6/7 -0.8+0.25 fully observed.

M4/5 -0.8+0.4 ½ obs, -0.4+0.25 1/16 obs.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354552

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSS KIMB

STREAMSED
29.30 kgs
37.7 grams
-2.0+0.25 mm
406

| KEY MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25, black dull well rounded subhedral grain, very finely pitted surface. |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| OTHER | | | | | |

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | Tr | Tr | | Yellow, blue, grey, yellowish-blue, sub/anhedra, rounded to well rounded. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | Tr | Tr | | Greyish-beige, brownish-beige, yellow, bright red well rounded sub/anhedra, translucent, bright lustre. |
| CORUNDUM | | Tr | Tr | | 1+0.4, 1+0.25, blue/colourless, palest blue, transparent subhedral grains |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 15% | 5% | | Yellow-brown, red-brown, brown, dull, rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | Tr | Tr | Tr | | Beige, creamy orange, orange, mottled brown, red-brown, orange-brown, grey, sub-resinous amorphous opaques. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 75% | 70% | | Silvery-black, subhedra, moderately worn, also well rounded silvery-grey frosted grains. |
| KYANITE | | | | | |
| LEUCOXENE | Tr | Tr | 15% | | Beige, brown, grey, tan polished, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | Tr | Tr | | Orange, cream, creamy yellow well rounded resinous opaques. |
| RUTILE | | Tr | Tr | | Very rare. Cherry red, reddish-black, silvery-black, generally well rounded anhedra, some with Nb. |
| STAUROLITE | Tr | | | | 1+0.8, orange-brown, blocky, moderately worn, small black inclusions. |
| TOURMALINE | Tr | 10% | 5% | | Black-brown, rarely coloured, near spherical grains, very rarely more fresh, subangular. |
| ZIRCON | | Tr | 5% | | Yellow, orange, colourless, pale pink, orange-brown, beige, predominantly near spherical to ovate, transparent to translucent grains, also some eu/subhedra, with fine vesicular inclusions. |

COMMENTS: -2.0+0.8 fully observed.

-0.8+0.25 concentrate magnetically separated.

-0.8+0.25 fully observed.

NM

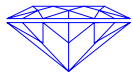
M6/7 -0.8+0.25 fully observed.

Observed B.G.

by:

Date: July, 1998

M4/5 -0.8+0.4 fully obs, -0.4+0.25 1/8 observed.
M1/2/3 Scalp not observed.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354553

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.02 kgs
3.6 grams
-2.0+0.25 mm
406

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

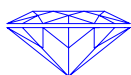
| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|---------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | Tr | Tr | | Blue-grey, grey, yellowish-blue, golden, sub/anhedral, translucent to opaque, some quite granular to aggregated. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | Tr | Tr | Tr | | Pale yellow, brown, greyish-beige, blackish-brown, brownish-beige, orange-red/black, creamy beige, blocky anhedral, transparent to near opaque, lustrous, moderately worn. |
| COLUMBITE-TANTALITE | | | Tr | | 1+0.25, orange-red prismatic grain, subtranslucent, iridescent, moderately worn. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 70% | Tr | Tr | | Yellow-brown, brown, red-brown, dull, subangular to rounded. |
| GARNET | | | | | |
| GOLD | | | Tr | | 1+0.25, nuggetty. |
| GORCEIXITE | Tr | Tr | Tr | | Creamy brown, cream, orange, creamy pink, dull to sub-resinous amorphous opaques. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 25% | 15% | | Silvery-black, subhedra, moderately worn, rarely low Mg-bearing. |
| KYANITE | | | Tr | | Very rare. Pale blue, colourless, bladed, transparent, moderately worn. |
| LEUCOXENE | Tr | Tr | Tr | | Tan, grey, beige, dull to more polished opaques. |
| MONAZITE | Tr | Tr | Tr | | Grey, orange, well rounded resinous opaques, also pearly cream, pearly yellow, pearly green translucent sub/anhedral, moderately worn. |
| RUTILE | Tr | Tr | Tr | | Cherry red, brownish-red, silvery-black well rounded anhedral, very rarely with Nb. |
| SULPHIDES | | Tr | | | 1+0.4, pyrite, dull brassy yellow, blocky. |
| TOURMALINE | 30% | 45% | 55% | | Black-brown, brown, greenish-brown, near spherical, rare moderately fresh prismatic grains.. |
| XENOTIME | | Tr | Tr | | Very rare. Pearly brownish-beige, palest green, euhedral, well rounded subtranslucent grains. |
| ZIRCON | | 30% | 30% | | Pale pink, colourless, yellow, creamy yellow, orange-brown, ovate to near spherical, transparent to translucent, often quite pearly, also less common euhedral transparent grains. |

COMMENTS: Concentrate fully observed.

Observed B.G.

by:

Date: July, 1998.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354554

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.56 kgs
11.8 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 | | Grey-blue, opaque subhedral grains with silvery sheen. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 60% | 20% | | Brown, red-brown, dull well rounded to earthy angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Red-brown, opaque resinous amorphous grains. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | Tr | 5% | | Silvery-black, tabular, some quite blocky, high metallic lustre, others more dull and well rounded, frosted. |
| KYANITE | | | Tr | | Colourless, tabular, elongate. |
| LEUCOXENE | | Tr | 5% | | After ilmenite, beige, brown, grey, angular to well rounded. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | Tr | Tr | | Honey brown, pale orange, well rounded, opaque with resinous lustre. |
| PHOSPHATES | | | | | |
| PYROXENE | | | | | |
| RUTILE | | Tr | Tr | | Black, red-black, rounded opaque grains with silvery sheen. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Orange, transparent rounded grains, slight frosting on surface. |
| TOURMALINE | Tr | 40% | 67% | | Black, brown, green, well rounded. |
| XENOTIME | | | | | |
| ZIRCON | | Tr | 3% | | White, orange, honey brown, pale pink, colourless, yellow, rarely euhedral some broken to well rounded vitreous transparent to frosted. |

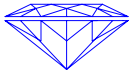
COMMENTS: -2.0+0.8 concentrate fully observed.

Observed J.D.
by:

Date: August 1998

-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.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354555

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.30 kgs
340.2 grams
-2.0+0.25 mm
415

| 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 | | Grey-blue, brownish, pale yellow, golden yellow, moderately fresh to moderately worn translucent sub/euhedra, vitreous to dull. |
| APATITE | | | Tr | | Rare, colourless worn hexagonal prisms, soft pearly sheen, frosted, translucent. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare, lavender blue, worn, frosted, subangular, translucent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 50% | Tr | | Red-brown, yellow-brown, pisolitic, smooth and polished, some studded with fine quartz grains. |
| GOLD | | | Tr | | 2+0.25, nuggets, one is very elongate, both are nobbled. |
| GORCEIXITE | Tr | Tr | Tr | | Red-orange, beige, polished amorphous grains, opaque, resinous lustre. |
| ILMENITE | Tr | 50% | 100% | | Abundance of silvery-black subhedra, moderately worn, some well rounded, pitted. |
| KYANITE | | | Tr | | Colourless, palest sky blue, rarely pale sea-green, bladed, worn, transparent. |
| LEUCOXENE | | Tr | Tr | | Grey-green, beige, cream, well worn, polished, porcelain-like grains, after ilmenite. |
| MONAZITE | | | Tr | | Orange-red, yellow, near spherical resinous grains, opaque; also moderately worn to worn translucent subhedra. |
| RUTILE | Tr | Tr | Tr | | Cherry red to silvery-black, well worn, broken prismatic grains through to near spherical grains. |
| SPINEL | | | Tr | | Al-spinel, grey, pinkish, well worn and frosted, translucent. |
| STAUROLITE | | | Tr | | Very rare, orange-brown, well worn, translucent, small inclusions. |
| TOURMALINE | Tr | Tr | Tr | | Black-brown, rarely maroon-brown, well worn near spherical grains, smooth to frosted, rare worn euhedra. |
| XENOTIME | | Tr | Tr | | Dusty pink, cream, mottled, resinous, opaque, well worn. |
| ZIRCON | Tr | Tr | Tr | | Colourless, pink, orange, red-brown, lemon yellow, moderately worn broken euhedra with fine vesicular inclusions, also many near spherical grains, frosted to smooth. |

COMMENTS: -2.0+0.8 concentrate fully observed.

Observed L.F.

by:

Date: August 1998

-0.8+0.25 concentrate magnetically separated.

-0.8+0.25 fully obs.

NM

M6/7 -0.8+0.25 fully obs.

M4/5 -0.8+0.25 not obs.
M1/2/3 Scalp not observed.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354556

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
33.50 kgs
28.6 grams
-2.0+0.25 mm
415

| KEY MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25, dull, brownish-black, worn, weathered, anhedral. |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| OTHER | | | | | |

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Rare, grey-blue, golden yellow, tabular subhedra, moderately worn. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Colourless, translucent, blocky, moderately worn. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare, colourless, very faint blue, well worn vitreous fragments, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 15% | 5% | | Yellow-brown, brown, dull, earthy, the larger grains are pisolitic, dull, studded with quartz grains. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | Tr | Tr | Tr | | Rare, brownish-red, amorphous, worn, resinous, opaque. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 75% | 85% | | Abundance of silvery-black grains, often sub-rounded to rounded, well worn, some worn subhedra, some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | Tr | Tr | Tr | | After ilmenite, grey-green, beige, tan. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | Tr | | Red-orange, yellow-orange, near spherical, reworked, smooth resinous sheen. |
| PHOSPHATES | | | | | |
| RUTILE | | Tr | Tr | | Rare, silvery-black to dark cherry red, well worn, strong semi-metallic lustre. |
| STAUROLITE | | | | | |
| TOURMALINE | Tr | 10% | 10% | | Black-brown, rarely blue-brown, near spherical reworked grains, mostly smooth. |
| ZIRCON | | Tr | Tr | | Colourless, yellow, orange, rarely red-orange, ovate to near spherical grains, finely frosted, also broken subhedra, prismatic, moderately worn. |

COMMENTS: -2.0+0.8 concentrate fully observed.

Observed L.F.

-0.8+0.4 concentrate magnetically separated.

by: Date: August, 1998

-0.8+0.25 fully obs.

NM

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.



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354557

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
33.34 kgs
2729.1 grams
-2.0+0.25 mm
406

| 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 | | Blue-grey, translucent, tabular subhedral grain. |
| APATITE | | | Tr | | Colourless, broken euhedra, subhedra, transparent to slightly frosted. |
| BARITE | Tr | Tr | | | Palest orange, white, blocky to rounded, frosted grains often deeply etched. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | Tr | Tr | | Dark brown through to orange-brown, brick red, well rounded, also dull earthy angular fragments. |
| GARNET | | | | | |
| GOLD | | Tr | Tr | | Rare. 1+0.4 roughly surfaced flake, 1+0.25 granular nugget. |
| GORCEIXITE | | Tr | Tr | | Red-brown, polished amorphous opaque grains. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 100% | 100% | | Iron black with silvery-grey sheen, subhedral, rarely tabular and grooved, blocky angular with high metallic lustre, some more rounded dull and pitted. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | After ilmenite, dark brown, beige, cream, pale grey. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale brown, translucent. |
| RUTILE | | Tr | Tr | | Golden yellow, red-brown, orange-red, subhedral grains, vitreous. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Black, brown, blue, all well rounded, sub-transparent to opaque. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Honey brown, brown, colourless, orange rounded grains, rarely euhedral, vitreous to quite dull and frosted. |

COMMENTS: -2.0+0.8 fully observed.

Observed J.D.

by:

Date: July, 1998

NM

-0.8+0.25 concentrate magnetically separated.

-0.8+0.25 fully obs.

M6/7 -0.8+0.4 ½ obs, -0.4+0.25 ¼ obs.
M4/5 -0.8+0.25 not obs.
M1/2/3 Scalp not observed



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-040.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354558

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.80 kgs
480.5 grams
-2.0+0.25 mm
415

| 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 | Tr | | Pale grey-blue, golden yellow, moderately fresh to moderately worn tabular subhedra, translucent, greasy lustre. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Rare, colourless, creamy-white, translucent to opaque, worn, some Fe-stained, orange, mottled. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 50% | Tr | | Pisolitic, yellow-brown, red-brown, smooth, polished. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | Tr | Tr | Tr | | Red-orange, sub-rounded to well rounded, resinous, opaque. |
| HAEMATITE | Tr | | Tr | | Rare, steel grey finely granular aggregates, purple-red tints. |
| ILMENITE | Tr | 50% | 100% | | Bright silvery-black subhedra, moderately fresh to moderately worn, also many well worn pitted grains. |
| KYANITE | | | | | |
| LEUCOXENE | Tr | Tr | Tr | | Cream, grey, grey-green, tan, well rounded, porcelain-like. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | Tr | Tr | | Red-orange, orange, yellow; worn subhedra, translucent, also near spherical grains which are resinous, opaque. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | Tr | Tr | | Rare, dark cherry red to silvery-black, well worn, strong semi-metallic lustre. |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | Tr | Tr | Tr | | Black-brown, translucent, well rounded, most are near spherical reworked grains, smooth to finely frosted. |
| ZIRCON | | Tr | Tr | | Colourless, pink, yellow, red-brown, mostly elongate prismatic euhedra with fine vesicular inclusions, also many near spherical reworked grains, highly vitreous to frosted. |

COMMENTS: -2.0+0.8 concentrate fully observed.

Observed L.F.
by:

| | | | |
|----|--------|---|-------------------|
| NM | | -0.8+0.25 concentrate magnetically separated. | Date: August 1998 |
| | | -0.8+0.25 fully obs. | |
| | M6/7 | -0.8+0.25 fully obs. | |
| | M4/5 | -0.8+0.25 not obs. | |
| | M1/2/3 | Scalp not observed. | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354559

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSS KIMB

STREAMSED
24.06 kgs
381.2 grams
-2.0+0.25 mm
415

| KEY MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25, black dull near spherical grain with a fine cokey sheen. |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| OTHER | | | | | |

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|---------------------------------|------|-------|--------------|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Pale brown, beige, pale blue, orange, sub/anedral, moderately worn. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Colourless, blocky to more elongate, transparent to translucent, commonly etched, rarely creamy, granular. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 23% | Tr | | Yellow-brown, red-brown, dull to more polished pisolites, some more earthy. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Orange, orange-brown, brown, dull to more resinous amorphous opaques. |
| ILMENITE | Tr | 75% | 100% | | Silvery-black, bright metallic lustre, subhedral, some are partially leucoxenised, also many grains are well rounded anhedral, frosted. |
| KYANITE | | | | | |
| LEUCOXENE | | 2% | Tr | | Grey-green, brown, beige, tan, polished, commonly after ilmenite. |
| MONAZITE | | Tr | Tr | | Very rare. Orange-brown, orange, yellow, resinous well rounded sub/anhedral, translucent to opaque. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | Tr | | Cherry red, orange-red, reddish-black, silvery-black well rounded anhedral, strong semi-metallic lustre. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown, rarely coloured, near spherical. |
| ZIRCON | | Tr | Tr | | Yellow, brown, pale pink, colourless, orange-brown, translucent well rounded anhedral, rarely euhedral transparent grains. |
| COMMENTS: | -2.0+0.8 concentrate fully obs. | | | Observed by: | B.G. |

| | | |
|--------|---|-------------------|
| | -0.8+0.25 concentrate magnetically separated. | Date: August 1998 |
| | -0.8+0.25 fully obs. | |
| NM | | |
| M6/7 | -0.8+0.25 fully obs. | |
| M4/5 | -0.8+0.4 fully obs, -0.4+0.25 not observed. | |
| M1/2/3 | Scalp not observed. | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354560

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

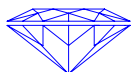
STREAMSED
22.60 kgs
1010.6 grams
-2.0+0.25 mm
415

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

| | % | % | % | | |
|--------------------|------|------|-------|----|---|
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Rare. Golden yellow, moderately fresh tabular subhedra, translucent. |
| APATITE | | | Tr | | Colourless, vitreous, short hexagonal prisms, smooth, transparent, moderately worn. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | Tr | | 1+0.25, grey-green, translucent, moderately fresh. |
| FE OXIDE/HYDROXIDE | 100% | 90% | Tr | | Pisolitic, brown, red-brown, dull to polished. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Very rare. Red-brown, beige, resinous, opaque, well worn. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 10% | 100% | | Silvery-black subhedra, bright, moderately fresh, some grains well worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, cream, tan, polished grains, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | Tr | | Red-yellow, resinous, well worn, opaque. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale khaki-brown, jagged lath, transparent, moderately fresh. |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Rare, orange-brown, moderately worn, transparent, small black inclusions. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown, near spherical, well worn, translucent. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Colourless, red-brown, well worn, near spherical, rare euhedral grains. |

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+0.8 concentrate fully observed. | Observed | L.F. |
| | -0.8+0.25 concentrate magnetically separated. | by: | Date: August 1998 |
| | -0.8+0.25 fully obs. | | |
| | | | |
| NM | | | |
| M6/7 | -0.8+0.4 fully obs, -0.4+0.25 1/8 obs. | | |
| M4/5 | -0.8+0.25 not obs. | | |
| M1/2/3 | Scalp not observed. | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354561

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

POSS KIMB

STREAMSED

29.32

kgs

5246.5

grams

-2.0+0.25

mm

415

| KEY MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|---------------------|------|------|-------|-----------|--|
| | +0.8 | +0.4 | +0.25 | | |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25 (in a 1/16 split) black, dull near spherical grain. |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| OTHER | | | | | |

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|------|-------|-----------|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Very rare. Yellow, blue, anhedral, moderately worn. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Colourless, tabular, transparent to translucent, some quite blocky. |
| CALCITE | Tr | Tr | Tr | | Commonly creamy brown nodular subtranslucent aggregates. |
| CASSITERITE | | | Tr | | 1+0.25, deep red rounded anhedral. |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | Tr | Tr | | Yellow-brown, red-brown, brown, dull, generally pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | Tr | Tr | Tr | | Very rare. Orange, cream, resinous amorphous opaques. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 100% | 100% | | Bright silvery-black subhedra, moderately worn, also many grains are well rounded and frosted. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Grey-green, beige, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | Tr | | 1+0.25, pale yellow muscovite, platy. |
| MN OXIDE | | | | | |
| MONAZITE | | | Tr | | Very rare. Orange-brown, resinous, opaque. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Rare. Brown, blocky, translucent, some more composite; also 1+0.25 pale green broken lath, transparent, more fresh. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown, near spherical. |
| XENOTIME | | | | | |

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a 1/2 split) is 2 grains in a 1/2 split of the +0.25mm fraction

| | | | | |
|------------------|--|----|----|---|
| ZIRCON | | Tr | Tr | Beige, colourless, orange, near ovate translucent grains. |
| COMMENTS: | -2.0+1.2 grease table concentrated. No diamonds recovered. | | | Observed B.G. |
| | -1.2+0.8 fully obs. | | | by: Date: August, 1998 |
| | -0.8+0.25 concentrate magnetically separated. | | | |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.4 1/8 obs, -0.4+0.25 1/16 obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354562

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

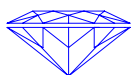
STREAMSED
31.54 kgs
345.0 grams
-2.0+0.25 mm
415

| 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 1/2 split) is 2 grains in a 1/2 split of the +0.25mm fraction

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | Tr | Tr | | Orange, yellow, grey-blue, beige, blue, bluish-yellow sub/anhedra, moderately worn. |
| APATITE | | Tr | Tr | | Colourless, prismatic, transparent, some with very fine striations and inclusions. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | 1+0.25, palest blue, subangular, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 5% | Tr | | Yellow-brown, brown, red-brown, dull, generally pisolitic. |
| GARNET | Tr | Tr | Tr | | Almandine, pale pink, pale orange, pink, subangular, translucent, moderately worn. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | 95% | 100% | | Silvery-black subhedra with bright metallic lustre, also some grains ovate, frosted. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Brown, tan, beige, grey-green, dull to more polished. |
| MAGNETITE | | | | | |
| MICA | | Tr | | | 1+0.4, colourless muscovite flake. |
| MN OXIDE | | | | | |
| MONAZITE | | Tr | Tr | | Bright yellow, greenish-yellow, orange, orange-beige trans/subtranslucent sub/anhedra, some with slight frosty appearance, moderately worn. |
| RUTILE | | Tr | Tr | | Orange, red, silvery-black, reddish-black, cherry red well rounded anhedra, very rarely as finely aggregated needles. |
| STAUROLITE | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown, near spherical. |
| XENOTIME | | | | | |

| | | | | |
|--|-------------------------|----|----|---|
| ZIRCON | | Tr | Tr | Orange, red-brown, beige, colourless, yellow, ovate to near spherical translucent grains, also euhedra, broken euhedra transparent grains with fine vesicular inclusions. |
| COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered. | | | | Observed B.G. by: Date: August, 1998 |
| -1.2+0.8 fully obs. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. | | | | |
| NM | | | | |
| M6/7 | -0.8+0.25 fully obs. | | | |
| M4/5 | -0.8+0.25 not observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354563

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
23.64 kgs
1041.1 grams
-2.0+0.25 mm
415

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

| | % | % | % | | |
|-----------------------|------|------|-------|----|---|
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Grey-blue, golden yellow, tabular subhedra, some more worn. |
| APATITE | | | Tr | | Rare, colourless hexagonal prisms, transparent, some grains have small inclusions, moderately worn. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 70% | Tr | | Pisolitic, yellow-brown, brown. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 30% | 100% | | Abundance of bright silvery-black subhedra, many grains also well worn and rounded, pitted. |
| KYANITE | | | | | |
| LEUCOXENE | Tr | Tr | Tr | | After ilmenite, beige, tan, cream, some grains very well worn, polished, porcelain-like. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | Tr | Tr | Tr | | Red-orange, near spherical reworked grains, smooth resinous lustre, opaque, rare grains are more fresh, yellow, subhedra. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale khaki-brown jagged laths, transparent, moderately fresh. |
| RUTILE | | | Tr | | Silvery-black, near spherical, opaque, pitted. |
| SPHENE | | | | | |

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

| | | | | |
|---|---------------|--------------------------------------|----|--|
| SPINEL | | | | |
| TOURMALINE | Tr | Tr | Tr | Black-brown, near spherical, reworked, smooth to frosted. |
| ZIRCON | | Tr | Tr | Colourless, orange, yellow, most are near spherical to ovate, reworked, frosted. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered. | | | | Observed L.F. |
| | | | | by: Date: August, 1998 |
| | | | | -0.8+0.25 concentrate magnetically separated. |
| | | | | -0.8+0.25 fully obs. |
| NM | M6/7 | -0.8+0.4 fully obs, -0.4+0.25 ¼ obs. | | |
| | M4/5 | -0.8+0.25 not obs. | | |
| | M1/2/3 | Scalp not observed | | |
| | | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354564

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
27.94 kgs
28.8 grams
-2.0+0.25 mm
415

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

| OTHER MINERALS | % | % | % | BRIEF DESCRIPTION |
|-----------------------|------|------|-------|---|
| | +0.8 | +0.4 | +0.25 | |
| AMPHIBOLE | | | | |
| ANATASE | | Tr | 1% | Palest blue-grey, worn sub/euhedral, strong greasy lustre. |
| APATITE | | | | |
| BARITE | | | | |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | Tr | Rare, well worn, colourless to pale lavender blue, tabular to sub-rounded. |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 100% | 50% | 9% | Mustard yellow, yellow-brown, red-brown, the larger grains are pisolitic. |
| GARNET | Tr | Tr | Tr | Almandine, pale pink, subangular frosted fragment, etched, translucent. |
| GOLD | | | | |
| GORCEIXITE | | Tr | Tr | Red-brown, resinous, worn. |
| HAEMATITE | | | | |
| ILMENITE | Tr | 50% | 65% | Silvery-black, moderately worn to worn subhedra, also some well rounded grains. |
| KYANITE | | | Tr | Rare, palest blue, well worn, transparent. |
| LEUCOXENE | Tr | Tr | Tr | Beige, cream, dull to porcelain-like, after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Orange, yellow-orange, reddish-orange, near spherical, translucent to resinous. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |

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

| | | | | |
|--|----|----|--------------|---|
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | Tr | Tr | 5% | Black-brown, near spherical translucent to transparent, smooth to finely frosted surfaces. |
| XENOTIME | | | Tr | Dusty pink/cream, resinous, smooth, well worn, opaque. |
| ZIRCON | | Tr | 20% | Colourless, yellow, pink, euhedral grains with vesicular inclusions, also many near spherical grains, finely frosted. |
| COMMENTS: -2.0+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.4 fully obs, -0.4+0.25 ½ obs. M1/2/3 Scalp not observed. | | | | |
| | | | Observed by: | L.F. Date: August, 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354565

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.52 kgs
105.63 grams
-2.0+0.25 mm
415

| 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 | Tr | | Grey-blue, grey-yellow, golden yellow, moderately fresh to worn subhedra, dull to quite vitreous, translucent. |
| APATITE | | | | | |
| BARITE | | | Tr | | Colourless, translucent, frosted, worn. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | Tr | Tr | | Colourless, sky blue, lavender blue, well worn, platy to rounded, vitreous, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 33% | 20% | | Yellow-brown, red-brown, the larger grains are pisolitic. |
| GARNET | Tr | Tr | Tr | | Almandine, palest pink, subangular etched fragments, fine hummocky surfaces, many frosted, moderately fresh. |
| GOLD | | | | | |
| GORCEIXITE | Tr | Tr | Tr | | Red-brown, cream, beige, amorphous rounded to sub-rounded grains, resinous, opaque. |
| ILMENITE | Tr | 63% | 45% | | Silvery-black, moderately worn subhedra, often platy, some grains well rounded, pitted. |
| KYANITE | | | Tr | | Well worn, palest blue, transparent. |
| LEUCOXENE | | Tr | Tr | | Beige, grey-green, cream, tan, dull to polished, porcelain-like, after ilmenite. |
| MN OXIDE | | Tr | Tr | | Dull grey, soft, friable. |
| MONAZITE | | 2% | Tr | | Yellow, orange, red-orange, moderately worn to worn translucent subhedra; also near spherical grains, more resinous. |
| RUTILE | | | Tr | | Dark cherry red, also silvery-black, well worn and rounded, strong semi-metallic lustre. |

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

| | | | | |
|--|----|----|-----|--|
| SPINEL | | | Tr | Very rare, gahnite, well worn, frosted, near spherical, translucent, also Al-spinel, grey, pink, well worn, frosted, translucent. |
| TOURMALINE | Tr | 2% | 15% | Brown-black, most grains are near spherical, frosted to smooth. |
| ZIRCON | Tr | Tr | 20% | Colourless, orange, yellow, pink, beige, red-brown, mostly broken elongate prismatic euhedra, small vesicular inclusions, also many near spherical reworked grains, often frosted. |
| COMMENTS: -2.0+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 not obs. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed L.F. by: Date: August 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354566

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
23.14 kgs
537.94 grams
-2.0+0.25 mm
415

| 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 | | Very rare, grey-blue, golden yellow, tabular subhedra, moderately fresh, translucent. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Rare, white, cream, sugary aggregates, also more blocky colourless grains, worn. |
| CALCITE | | | | | |
| CASSITERITE | | Tr | Tr | | Grey, beige, well worn, translucent. |
| CORUNDUM | | | Tr | | Very rare, colourless to slightly bluish, vitreous, worn, smooth, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 70% | Tr | | Pisolitic, red-brown, yellow-brown, brown, polished to dull. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | 30% | 100% | | Bright silvery-black subhedra, moderately fresh to moderately worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | After ilmenite, beige, tan, grey-green, polished to quite dull, some very well worn. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Dull grey-black, friable, soft. |
| MONAZITE | | | Tr | | Very rare, red-orange, resinous, near spherical, smooth. |
| PYROXENE | | | Tr | | Pale khaki brown, moderately fresh laths, transparent. |

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

| | | | | |
|---|----|----|----|--|
| RUTILE | | | Tr | Silvery-black to dark cherry red, well worn, translucent to opaque, strong semi-metallic lustre. |
| TOURMALINE | | Tr | Tr | Black-brown, rarely blue, blue-green, near spherical, reworked, frosted to smooth, translucent. |
| ZIRCON | | Tr | Tr | Colourless, orange, yellow, red-orange, red-brown, pink, moderately worn broken euhedra, also many well worn reworked grains, frosted. |
| ROCK FRAGMENTS | Tr | | | Cream/beige, weathered, studded with fine ilmenite and pyroxene. |
| COMMENTS: -2.0+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs. M4/5 -0.8+0.25 not observed. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed L.F. by: Date: August, 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354567

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
26.68 kgs
100.29 grams
-2.0+0.25 mm
415

| 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 | Tr | 5% | Tr | | White to colourless tinged pink and orange, tabular, translucent, rarely near opaque, frosted and often deeply etched. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 95% | 20% | Tr | | Yellow-brown, red-brown, dull, generally well rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | Tr | | | | Very rare. Orange, dull amorphous opaques. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 75% | 100% | | Silvery-black subhedra, bright metallic lustre, many grains are partially leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, brown, tan, cream, polished, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | Tr | Tr | Tr | | Dull grey-black subangular to more rounded, dull. |
| MONAZITE | | | Tr | | Cream, creamy-orange, grey-brown resinous near spherical opaques. |
| PHOSPHATES | | | | | |

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

| | | | | |
|---|----|----|----|---|
| PREHNITE | | | | |
| PYROXENE | 5% | Tr | Tr | Dark honey brown blocky translucent grains, some near opaque more composite grains. |
| STAUROLITE | | Tr | | Very rare. Orange-brown, anhedral, rounded. |
| TOURMALINE | | Tr | Tr | Black-brown, rarely coloured near spherical grains. |
| UNKNOWN MINERAL | | Tr | Tr | Very rare. Dull olive green spherical opaques, SEM indicates Al Si K Fe. |
| ZIRCON | | | Tr | Orange-brown, yellow, orange, colourless, pale pink, near spherical, translucent to opaque, rarely euhedral, transparent. |
| COMMENTS: -2.0+0.8 concentrate fully observed. | | | | Observed B.G. |
| -0.8+0.25 concentrate magnetically separated. | | | | by: Date: August 1998 |
| -0.8+0.25 fully obs. | | | | |
| NM | | | | |
| M6/7 -0.8+0.25 fully obs. | | | | |
| M4/5 -0.8+0.4 fully obs, -0.4+0.25 not observed. | | | | |
| M1/2/3 Scalp not observed. | | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354568

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
36.82 kgs
560.77 grams
-2.0+0.25 mm
415

| 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 | | Very rare. Grey-blue, golden yellow, tabular, worn. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Rare. Creamy-white sugary aggregates. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 50% | Tr | | Pisolitic, brown, red-brown, earthy to polished. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Very rare. Brownish-red, resinous, opaque, well worn. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 50% | 100% | | Silvery-black, platy subhedra, many partly leucoxisenised with grey-green/tan/beige coatings. |
| KYANITE | | | | | |
| LEUCOXENE | Tr | Tr | Tr | | After ilmenite, beige, tan, grey-green, porcelain-like |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | Tr | Tr | Tr | | Dull, grey-black, friable, soft. |
| MONAZITE | | Tr | Tr | | Rare. Red-orange, resinous, opaque, near spherical. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |

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

| | | | | |
|---|---|----|----|---|
| RUTILE | | Tr | Tr | Rare. Dark cherry red to silvery-black, well worn, strong silvery metallic lustre. |
| SPHENE | | | | |
| SPINEL | | | | |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | Tr | Tr | Tr | Black-brown, rarely blue, near spherical reworked grains. |
| ZIRCON | | Tr | Tr | Colourless, red-orange, rarely pink, mostly near spherical reworked grains, also broken euhedra with fine vesicular inclusions. |
| COMMENTS: -2.0+0.8 concentrate fully observed. | | | | Observed L.F. by: Date: August, 1998 |
| | -0.8+0.25 concentrate magnetically separated. | | | |
| NM | -0.8+0.25 fully obs. | | | |
| M6/7 | -0.8+0.4 fully obs, -0.4+0.25 1/8 obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354569

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
27.96 kgs
76.14 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 | | Ice blue, grey-blue, translucent to opaque and well rounded, rare subhedral. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Colourless, palest blue, transparent rounded grains, rare subhedra. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 2% | 2% | | Brown, red-brown, dull and well rounded, also earthy angular fragments. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-brown, opaque resinous amorphous grains. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 63% | 73% | | Silvery-black, tabular, blocky high metallic lustre on fracture, also rounded more dull and frosted. |
| KYANITE | | | Tr | | Pale blue, tabular blocky grains with good cleavage. |
| LEUCOXENE | | 35% | 20% | | After ilmenite, dark brown, beige, cream, grey, angular and porcelain-like. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |

Note: The number of key minerals is the **absolute number** in the fraction noted unless otherwise stated ie 2+0.25mm (in a 1/2 split) is 2 grains in a 1/2 split of the +0.25mm fraction

| | | | | |
|---|--------------------------------------|----|----|--|
| MONAZITE | | Tr | Tr | Pale brown, cream, orange, well rounded opaques with resinous lustre. |
| RUTILE | | | | |
| SPHENE | | | | |
| SPINEL | | | | |
| SULPHIDES | | | | |
| TOURMALINE | Tr | Tr | 5% | Black, brown, blue, orange, well rounded grains. |
| XENOTIME | | | | |
| ZIRCON | | Tr | Tr | Honey brown, yellow, colourless, cream, pale pink, rare euhedra, transparent and vitreous to well rounded frosted opaques. |
| COMMENTS: -2.0+0.8 concentrate fully observed. | | | | Observed by: J.D. |
| -0.8+0.25 concentrate magnetically separated. | | | | Date: Aug. 1998 |
| -0.8+0.25 fully obs. | | | | |
| NM | | | | |
| 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. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354570

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
24.44 kgs
238.72 grams
-2.0+0.25 mm
415

| 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. Palest blue-grey, tabular subhedra, translucent, strong greasy lustre. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Colourless, white, some stained pinkish, fine sugary aggregates as well as more blocky translucent grains, worn. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 70% | Tr | | Pisolitic, brown, mid-brown, red-brown, polished to dull. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 30% | 100% | | Abundance of bright, silvery-black subhedra, often platy, moderately fresh to moderately worn, some well rounded, worn, pitted. |
| KYANITE | | | | | |
| LEUCOXENE | Tr | Tr | Tr | | Beige, cream, grey-green, some well worn and rounded, others after ilmenite. |
| MAGNETITE | | | | | |

| | | | | |
|------------------|---|----|----|--|
| MICA | | | | |
| MN OXIDE | | | Tr | Dull, grey-black, nodular. |
| MONAZITE | | Tr | Tr | Red-orange, well rounded, resinous, smooth, opaque. |
| RUTILE | | Tr | Tr | Silvery-black, well rounded, finely pitted, also dark cherry red grains, well worn, strong semi-metallic lustre, some grains are worn Nb-rutile. |
| SPHALERITE | Tr | | | 'Barite-like', tinged yellow, deeply etched, translucent. |
| SULPHIDES | | | | |
| TOURMALINE | Tr | Tr | Tr | Black-brown, rarely bluish-brown, well rounded, near spherical reworked grains, smooth to frosted. |
| ZIRCON | | Tr | Tr | Mostly yellow/orange, Fe-stained, some colourless, all are well rounded to ovate, finely frosted reworked grains, rarely vitreous, rarely euhedral and more fresh. |
| COMMENTS: | -2.0+0.8 concentrate fully observed. | | | Observed L.F. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: August, 1998 |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.25 fully obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354571

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
34.42 kgs
171.1 grams
-2.0+0.25 mm
415

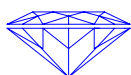
| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| 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 | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|-----|-----|----|--|
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Rare, pale dull grey-blue, worn, semi-opaque. |
| APATITE | | | | | |
| BARITE | Tr | 30% | 8% | | White, cream, fine grained saccharoidal aggregates, some grains colourless to greyish, more transparent. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 35% | 5% | | Yellow-brown, red-brown, the larger grains are pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-brown, tan, resinous amorphous grains, polished, worn. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 35% | 72% | | Silvery-black, platy moderately worn subhedra, also some well rounded pitted grains, some partly leucoxenised. |
| KYANITE | | | Tr | | Rare, palest blue to almost colourless, well worn. |
| LEUCOXENE | | | Tr | | Beige, tan, porcelain-like, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |

| | | | | |
|---|----|----|-----|---|
| MN OXIDE | Tr | | | Dull, grey, friable, opaque. |
| MONAZITE | | Tr | Tr | Yellow, orange, translucent to opaque, resinous, smooth, worn, many near spherical. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | Tr | Tr | Silvery-black, near spherical. |
| SPHENE | | | | |
| SPINEL | | | | |
| TOURMALINE | Tr | Tr | 15% | Black-brown, near spherical, smooth to frosted. |
| XENOTIME | | | | |
| ZIRCON | | Tr | Tr | Colourless, yellow, orange, red-brown, pink, mostly near spherical smooth grains, but also moderately worn euhedral prismatic crystals. |
| COMMENTS: -1.2+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.4 fully obs, -0.4+0.25 1/16 obs. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed L.F. by: Date: August 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354572

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
17.76 kgs
7870.08 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 | | Very rare. Golden, yellow/blue tabular subhedra, translucent, moderately worn. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | Tr | | Red-brown, yellow-brown, purple-brown, pisolitic and also commonly earthy and fragmented. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | Tr | Tr | 100% | | Silvery-black subhedra, bright metallic lustre. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Cream, beige, grey-blue, grey-green, polished opaques. |
| MAGNETITE | | | | | |

| | | | | |
|------------------|---|----|----|---|
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | | Tr | Very rare. Greyish-beige, orange resinous opaques. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | | Tr | Very rare. Reddish-black, well rounded, anhedral. |
| SPHENE | | | | |
| SPINEL | | | | |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, rarely coloured, near spherical grains. |
| XENOTIME | | | | |
| ZIRCON | | Tr | Tr | Pale pink, orange, colourless, ovate to near spherical, also broken, euhedral, transparent. |
| COMMENTS: | -2.0+0.8 concentrate fully observed. | | | Observed B.G. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: August, 1998 |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.25 fully obs. | | | |
| M4/5 | -0.8+0.25 not observed. | | | |
| M1/2/3 | Scalp not observed. | | | |

| | | | | | | | |
|--|--|-------------------------------------|--|------------------|--|------------------|--|
|  DIATECH Ph 61 8 9361 2596 Fx 61 8 9470 1504 File: 98-040.doc | | HEAVY MINERAL ANALYSIS SHEET | | SAMPLE NO | | 354573 | |
| | | ASSESSMENT | | NEGATIVE | | STREAMSED | |
| | | Type of sample | | | | | |
| | | Head Weight | | 35.86 | | kgs | |
| | | Conc Weight -1.2+0.25mm | | 7064.3 | | grams | |
| | | Size fractions observed | | -2.0+0.25 | | mm | |
| | | Disc No | | 415 | | | |

| 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 yellow, rarely grey-blue, moderately fresh to well worn grains. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Cream/white, worn opaque clusters, soft. |
| CALCITE | | | | | |
| CASSITERITE | | | Tr | | Beige, resinous appearance, well worn. |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 50% | Tr | | The larger grains are pisolitic, mid-brown, the finer grains are dull earthy fragments, yellow-brown, red-brown. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Red-brown, resinous, opaque, smooth. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 50% | 100% | | Abundance of silvery-black moderately worn subhedra, also well rounded grains, frosted, pitted. |
| KYANITE | | | | | |

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

| | | | | |
|---|----|----|----|---|
| LEUCOXENE | | Tr | Tr | Beige, cream, smooth porcelain-like grains, after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | | Tr | Yellow, translucent subhedra, well worn. |
| PREHNITE | | | | |
| PYROXENE | | | Tr | Pale khaki-brown, jagged laths, transparent, moderately fresh. |
| RUTILE | Tr | Tr | Tr | Silvery-black, rarely cherry red, near spherical grains, rare more fresh grains. |
| TOURMALINE | | Tr | Tr | Black-brown, near spherical grains, smooth to finely frosted. |
| XENOTIME | | | | |
| ZIRCON | | Tr | Tr | Colourless, rarely pink, Fe-stained, smooth polished broken euhedra, fine vesicular inclusions. |
| ROCK FRAGMENTS | 5% | Tr | Tr | Beige/cream weathered fragments studded with fine ilmenite. |
| COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered. Observed L.F. by: Date: August 1998 -1.2+0.8 ¼ obs. -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully obs. M6/7 -0.8+0.4 fully obs, -0.4+0.25 ¼ obs. M4/5 -0.8+0.25 not obs. M1/2/3 Scalp not observed. | | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354574

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
27.04 kgs
58.9 grams
-2.0+0.25 mm
406

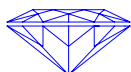
| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| 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 | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|-----|-----|----|---|
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Rare. Ice blue, tabular sub-transparent grains. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 10% | 5% | | Brown, tan, brick red, dull well rounded, also granular earthy fragments. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | | | Beige, dull well rounded and opaque. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 90% | 95% | | Iron black, silvery-black, subhedral with high metallic lustre, some more rounded and pitted, also tabular and grooved, some partly leucogenised. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | After ilmenite, dark brown, cream, subangular to quite rounded. |

| | | | | |
|------------------|---|----|----|--|
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Honey brown, orange, opaque, well rounded with resinous lustre. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | | Tr | Rare. Red-brown, elongate, opaque. |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, brown, transparent to opaque, all grains well rounded. |
| ZIRCON | | | Tr | Brown, colourless, orange-red, cream, translucent to opaque, well rounded and frosted. |
| COMMENTS: | -2.0+0.8 fully observed. | | | Observed J.D. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: |
| | -0.8+0.25 fully observed. | | | Date: July, 1998 |
| NM | | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4.5 | -0.8+0.4 fully obs, -0.4+0.25 ½ obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354575

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
16.82 kgs
774.3 grams
-2.0+0.25 mm
415

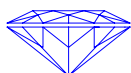
| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| 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. Golden yellow, yellow-blue, blue-grey, moderately fresh to well worn subhedra, translucent. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | White, cream, Fe-stained, worn, opaque, sugary aggregates. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 75% | Tr | | Pisolitic, brown, yellow-brown, red-brown, dull to polished. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-orange, red-brown, amorphous rounded to sub-rounded grains, resinous sheen, opaque. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 25% | 100% | | Abundance of silvery-black subhedra, often platy, moderately fresh, also rare well worn grains. |
| KYANITE | | | | | |

| | | | | |
|---|--|----|----|---|
| LEUCOXENE | | | Tr | After ilmenite, beige, cream, grey-green, some well rounded, porcelain-like, polished. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | Tr | Tr | Dull grey-black, friable, opaque. |
| MONAZITE | | Tr | Tr | Well worn, red-orange, well rounded, resinous, opaque. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | | | |
| SPHENE | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, near spherical, translucent, smooth to frosted. |
| ZIRCON | | Tr | Tr | Colourless, yellow, orange, rarely reddish-brown, mostly near spherical to ovate reworked grains, Fe-stained, frosted to smooth; rare moderately worn broken euhedra. |
| COMMENTS: -2.0+0.8 concentrate fully observed. Observed L.F. by: Date: August, 1998 -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 not obs. M1/2/3 Scalp not observed. | | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354576

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.24 kgs
56.2 grams
-2.0+0.25 mm
406

| KEY MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|---------------------|------|------|-------|-----------|---|
| | +0.8 | +0.4 | +0.25 | | |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | Tr | Tr | | 1+0.4, 16+0.25, black, dull well rounded sub/anhedra, smooth to very finely pitted surfaces. Not considered kimberlitic, one grain has ZnO 13.51% |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| OTHER | | | | | |

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|------|-------|-----------|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | Tr | Tr | | Grey-blue, yellow-beige, yellow-brown, blue, golden, sub/anhedra, moderately worn, translucent to near opaque, rarely as aggregates. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Very rare. Colourless, tabular, translucent, frosted and etched. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 80% | 8% | | Yellow-brown, brown, red-brown, subangular to rounded, dull. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | Tr | 1% | 1% | | Cream, creamy grey, creamy orange, beige, yellow, orange, orange-brown, red-brown, dull to sub-resinous amorphous opaques. |

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

| | | | | |
|--|----|-----|-----|---|
| HAEMATITE | | | | |
| ILMENITE | Tr | 15% | 78% | Silvery-black subhedra, strong metallic lustre, also well rounded frosted anheda. |
| LEUCOXENE | Tr | Tr | Tr | Tan, beige, grey, brown, cream, dull to quite polished, some after ilmenite. |
| MAGNETITE | | | | |
| MN OXIDE | Tr | Tr | Tr | Grey-black friable nodules studded with tiny quartz grains. |
| MONAZITE | | Tr | Tr | Cream, orange, beige, grey, well rounded resinous opaques. |
| PYROXENE | | | Tr | 1+0.25, palest beige-brown, subangular, striate, transparent, moderately fresh. |
| RUTILE | | Tr | Tr | Silvery-black, cherry red, orange-brown, well rounded anheda. |
| TOURMALINE | Tr | 3% | 5% | Black-brown, some coloured grains, near spherical. |
| ZIRCON | | 1% | 8% | Colourless, orange, orange-brown, red-brown, yellow, beige, palest pink, generally ovate to near spherical translucent grains, rare broken euhedral, transparent with small vesicular inclusions. |
| COMMENTS: -2.0+0.8 fully observed. -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 fully observed. M4/5 -0.8+0.4 fully obs, -0.4+0.25 not observed. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed by: B.G. Date: July, 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354577

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
29.96 kgs
8.7 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 | Tr | | Yellow-grey, grey-blue, blue, golden yellow, translucent to opaque, subhedra to rarely smooth, well rounded. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 98% | 25% | 10% | | Brown, red-brown, dull rounded grains to earthy angular fragments. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Red-brown, resinous opaque amorphous grains. |
| HAEMATITE | | | | | |
| ILMENITE | 1% | 45% | 45% | | Silvery-black with high metallic lustre on fractured faces, angular with sharp edges to more rounded, some partly leucoxenised. |

| | | | | |
|--|----|-----|-----|---|
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | After ilmenite, brown, beige, cream, angular to sub-rounded. |
| MAGNETITE | | | | |
| MICA | | | Tr | Colourless, sub-transparent flakes. Rare. |
| MN OXIDE | | | | |
| MONAZITE | | | Tr | Orange-brown, pale peach, opaque and well rounded. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | Tr | Tr | Red-brown, black, opaque subhedra with silvery sheen, slight surface striations. |
| SPHENE | | | | |
| SPINEL | | | | |
| SULPHIDES | | | Tr | Brassy yellow. |
| TOURMALINE | 1% | 30% | 35% | Black, brown, green, blue, well rounded grains. |
| ZIRCON | | Tr | 10% | Colourless, pale pink, red-brown, orange, brown, white, transparent, vitreous to frosted, rare euhedra to well rounded. |
| COMMENTS: Concentrate fully observed. | | | | Observed by: J.D. Date: August 1998. |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354578

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.86 kgs
89.5 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 | | Grey-blue, silvery-grey, yellow-green, ice-blue, translucent subhedra to dull opaque rounded grains. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | Tr | Tr | | Colourless with slightest hint of blue, pale violet, transparent to almost milky in appearance. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 80% | 5% | 3% | | Brown, red-brown, tan, dull well rounded to earthy angular fragments. |
| GARNET | | Tr | Tr | | Almandine, pale pink, rose pink angular fragments. |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Red-brown, resinous, opaque amorphous grains. |
| HAEMATITE | | | | | |

| | | | | |
|------------------|-----|-----|-----|---|
| ILMENITE | 20% | 94% | 93% | Silvery-black, subhedral, high metallic lustre to more dull and rounded. |
| KYANITE | | | | |
| LEUCOXENE | | | Tr | Beige, brown, after ilmenite, tabular to well rounded. |
| MAGNETITE | | | | |
| MONAZITE | Tr | 1% | 1% | Peach, yellow, orange, cream, subhedral translucent grains to rounded opaque with resinous lustre. |
| PHOSPHATES | | | | |
| PYROXENE | | | | |
| RUTILE | | Tr | Tr | Red-black, black, cherry red, subhedral, opaque with silvery sheen, some with surface striations. |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | Tr | Tr | Tr | Black, brown, green, sub-transparent to opaque, well rounded. |
| XENOTIME | | | | |
| ZIRCON | Tr | Tr | 3% | Pale peach, colourless, yellow, brown, orange, pale pink, vitreous, transparent euhedra to frosted translucent well rounded grains, some with vesicular inclusions. |
| COMMENTS: | | | | Observed J.D. by: Date: August 1998. |
| | | | | -2.0+0.8 concentrate fully observed. |
| | | | | -0.8+0.25 concentrate magnetically separated. |
| | | | | -0.8+0.25 fully obs. |
| NM | | | | |
| M6/7 | | | | -0.8+0.25 fully obs. |
| M4/5 | | | | -0.8+0.4 ½ obs, -0.4+0.25 ¼ obs. |
| M1/2/3 | | | | Scalp not observed. |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354579

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
21.10 kgs
175.8 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 | | Very rare. Yellow-beige, anhedral, greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 25% | | Yellow-brown, orange-brown, red-brown, dull, subangular to pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Very rare. Orange, cream, resinous amorphous opaques. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | Tr | 70% | | Silvery-black subhedra, bright metallic lustre, moderately worn. |

| | | | | |
|------------------|--------------------------------------|----|----|---|
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Beige, cream, generally dull. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | | Tr | Very rare. Yellow, translucent subhedral grains. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | | | |
| SPHENE | | | | |
| SPINEL | | | | |
| STAUROLITE | | | | |
| TOURMALINE | | | 5% | Black-brown, rarely coloured, near spherical. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Very rare. Orange, orange-brown, colourless ovate to near spherical translucent grains. |
| ROCK FRAGMENTS | | Tr | Tr | Quartz/Fe-oxide composites. |
| COMMENTS: | -2.0+0.4 concentrate fully observed. | | | Observed by: B.G. |
| | -0.4+0.25 ¼ obs. | | | Date: August, 1998. |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354580

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.52 kgs
888.10 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 | | Very rare. Golden yellow, translucent, tabular with silvery sheen. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | Tr | Tr | | Brown, mustard yellow, brick red, dull well rounded, also broken earthy angular fragments. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-brown, resinous opaque amorphous grains. |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 100% | 100% | | Dull iron black, silvery-black, subhedral dull to vitreous. |
| KYANITE | | | | | |

| | | | | |
|---|----|----|----|---|
| LEUCOXENE | | Tr | Tr | Brown, cream, grey, beige, opaque, angular blocky grains after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Brown, pale peach, well rounded translucent grains with resinous lustre. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | Tr | Tr | Tr | Brown, greyish-brown, elongate, transparent to translucent, other more rough blocky grains. |
| RUTILE | | | | |
| SPHENE | | | | |
| STAUROLITE | | | Tr | Orange-brown, sub-transparent, frosted, rounded, some with small inclusions. |
| TOURMALINE | | | Tr | Black, brown, green, well rounded. |
| ZIRCON | | Tr | Tr | Honey brown, colourless, orange, yellow, well rounded translucent to opaque, rare broken euhedra with vesicular inclusions. |
| COMMENTS: -2.0+0.8 concentrate fully observed. -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 not obs. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed by: J.D. Date: August, 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354581

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm

NEGATIVE

STREAMSED
25.12 kgs
2511.15 gram
s
-2.0+0.25 mm

Size fractions observed
415

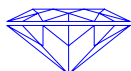
Disc No

| 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, golden brown, yellow, blue, tabular to rounded subhedra, translucent. |
| APATITE | | | Tr | | Colourless hexagonal prismatic grains. |
| BARITE | | Tr | Tr | | Colourless, blocky to platy tabular grains, transparent, some cloudy and more frosted. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | | Tr | Tr | | Red-brown, orange-brown, dull, sub-rounded to pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Brown, resinous, opaque. |

| | | | | |
|------------------|--|------|------|---|
| HAEMATITE | | | | |
| ILMENITE | | 100% | 100% | Silvery-black subhedra, bright metallic lustre. |
| KYANITE | | | Tr | 2+0.25, colourless, palest blue, bladed, transparent, included. |
| LEUCOXENE | | | Tr | Grey-blue, beige, dull to more polished, rounded opaques. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Yellow, orange, creamy-orange, beige near spherical resinous opaques. |
| PHOSPHATES | | | | |
| PYROXENE | | Tr | Tr | Brown, brownish-green, translucent, some finely striate, blocky to more rounded, moderately fresh to moderately worn, many grains more composite. |
| SPINEL | | | Tr | 1+0.25 Al-spinel, grey-blue frosted ovate grain. |
| STAUROLITE | | | Tr | Orange, sub-rounded to well rounded, translucent. |
| TOURMALINE | | Tr | Tr | Black-brown, brown, near spherical. |
| UNKNOWN MINERAL | | | Tr | Very rare. Yellow subangular translucent grains, SEM indicates Mg Al Si Fe. |
| ZIRCON | | Tr | Tr | Colourless, orange, yellow, pearly yellow, pink, beige, ovate to near spherical, also broken euhedral grains with fine vesicular inclusions. |
| COMMENTS: | -2.0+0.8 grease table concentrated. No diamonds recovered. | | | Observed by: B.G. |
| | -0.8+0.25 concentrate magnetically separated. | | | Date: August, 1998 |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.4 fully obs, -0.4+0.25 1/16 obs. | | | |
| M4/5 | -0.8+0.25 not observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354582

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.08 kgs
2197.72 grams
-2.0+0.25 mm
415

| | % | % | % | | |
|---------------------|------|------|-------|-----------|---|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25 (in a 1/8 split), subangular, vitreous black core, dull thick brownish rind. |
| 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 1/2 split) is 2 grains in a 1/2 split of the +0.25mm fraction

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|-----|-----|----|-----------|---|
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Golden yellow, orange-yellow, rarely blue-grey, tabular subhedra, moderately fresh. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Colourless to white, translucent to opaque, worn. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 50% | 60% | Tr | | Yellow-brown, mid-brown, some red-brown, the larger grains are pisolitic. |
| GARNET | | | | | |

| | | | | |
|------------------|--|-----|------|--|
| GOLD | | | | |
| GORCEIXITE | | | | |
| HAEMATITE | | | | |
| ILMENITE | Tr | Tr | 100% | Abundance of silvery-black subhedra, moderately fresh, often platy, some grains well worn. |
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Beige, tan, after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | Tr | Very rare. Muscovite, white, platy. |
| MN OXIDE | Tr | Tr | Tr | Dull, grey-black, soft. |
| MONAZITE | | Tr | Tr | Resinous, red-orange, near spherical, opaque. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | Tr | Tr | Pale khaki brown jagged laths, translucent to transparent. |
| STAUROLITE | | | Tr | Rare. Pale orange, well worn, transparent. |
| TOURMALINE | Tr | Tr | Tr | Black-brown, well rounded, near spherical, usually frosted. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, yellow, orange, well rounded reworked grains, frosted to smooth, rare. |
| ROCK FRAGMENTS | 50% | 40% | Tr | Cream/beige aggregates of pyroxene/ilmenite, weathered. |
| COMMENTS: | -2.0+1.2 grease table concentrated. No diamonds recovered. | | | Observed L.F. |
| | -1.2+0.8 ½ obs. | | | by: Date: August 1998 |
| | -0.8+0.25 concentrate magnetically separated. | | | |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.4 fully obs, -0.4+0.25 1/8 obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed. | | | |

HEAVY MINERAL ANALYSIS SHEET



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SAMPLE NO

354583

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
25.30 kgs
225.26 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 | | | Tr | | Pale blue, subhedral, transparent quite vitreous. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 45% | 10% | | Brown, tan, brick red, dull well rounded to angular fragments. |
| GARNET | | | | | |
| GOLD | | | | | |

| | | | | |
|---|----|-----|-----|---|
| GORCEIXITE | | | Tr | Brown, opaque amorphous grains, resinous lustre. |
| HAEMATITE | | | | |
| ILMENITE | Tr | 55% | 82% | Dull iron black, silvery-black, tabular, subangular, high metallic lustre to more dull frosted and rounded. |
| KYANITE | | | | |
| LEUCOXENE | | | 3% | Grey, cream, beige, brown, after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Orange, brown, pale peach, opaque, well rounded with resinous lustre. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | | | |
| SPHENE | | | | |
| SPINEL | | | | |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | | Tr | 5% | Black, brown, green, all well rounded. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, orange, yellow, honey brown, translucent to opaque, frosted, well rounded. |
| COMMENTS: -2.0+0.8 concentrate fully observed. -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: August, 1998

HEAVY MINERAL ANALYSIS SHEET



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SAMPLE NO

354584

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSS KIMB

STREAMSED
27.32 kgs
2285.41 grams
-2.0+0.25 mm
415

| | % | % | % | | |
|---------------------|------|------|-------|-----------|---|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25, black dull rounded octahedron, with very finely pitted surfaces, friable. |
| 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 | | Grey-blue, tabular subhedra, moderately worn. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Colourless, blocky, translucent, often etched. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | Tr | Tr | | Yellow-brown, red-brown, generally pisolitic. |

| | | | | |
|------------------|--|------|------|--|
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | Tr | Tr | Cream, orange-brown, orange amorphous resinous opaques. |
| HAEMATITE | | | | |
| ILMENITE | Tr | 100% | 100% | Silvery-black subhedra, bright metallic lustre. |
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Dull beige, grey-blue, grey, dull to more polished. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | Tr | Tr | Tr | Dull grey-black well rounded friable opaques. |
| MONAZITE | | | Tr | Orange, cream resinous well rounded opaques. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | Tr | Tr | Tr | Brown, blocky to more lath-like, moderately fresh; most commonly as quite composite moderately worn grains. |
| RUTILE | | | | |
| SPHENE | | | | |
| SPINEL | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, rarely coloured, translucent near spherical grains. |
| ZIRCON | | | Tr | Colourless, beige, orange, orange-brown, transparent to translucent, near spherical grains, very rarely euhedral, with fine vesicular inclusion. |
| COMMENTS: | -2.0+1.2 grease table concentrated. No diamonds recovered. | | | Observed by: B.G. |
| | -1.2+0.8 fully obs. | | | Date: August, 1998 |
| | -0.8+0.25 concentrate magnetically separated. | | | |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.25 fully obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354585

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.14 kgs
543.01 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 | | | | | |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Colourless, white, most grains quite blocky, frosted and lightly etched. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |

| | | | | |
|---|------|------|------|--|
| FE OXIDE/HYDROXIDE | 100% | Tr | Tr | Brown, red-brown, well rounded, dull, also angular earthy fragments. |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | | | |
| HAEMATITE | | | | |
| ILMENITE | Tr | 100% | 100% | Silvery-black, subhedral. |
| KYANITE | | Tr | Tr | Colourless, tabular elongate grains, some with small black inclusions. |
| LEUCOXENE | | Tr | Tr | Brown, beige, cream, often after ilmenite; also well rounded porcelain-like grains. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | | Tr | Orange, well rounded opaque with resinous lustre. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | Tr | Greyish-brown, elongate, sub-transparent with surface striations. |
| STAUROLITE | | | Tr | 1+0.25, orange, transparent, rounded with frosting to surface. |
| TOURMALINE | | | Tr | Black, brown, well rounded grains. |
| ZIRCON | | | Tr | Colourless, orange, pale pink, yellow, rarely euhedral, vitreous with vesicular inclusions, most well rounded, frosted, translucent to opaque. |
| COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered. -1.2+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.4 fully obs, -0.4+0.25 1/16 obs. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed by: J.D. Date: August, 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354586

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.40 kgs
521.07 grams
-2.0+0.25 mm
417

| 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 | | Very rare. Golden yellow, platy subhedra, translucent, moderately fresh. |
| APATITE | | | | | |
| BARITE | | | Tr | | Rare, colourless, translucent, blocky, moderately worn. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |

| | | | | |
|--------------------|---|-----|------|---|
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 70% | 70% | Tr | Red-brown, purple-brown, ferruginous siltstone, many pisolites. |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | | Tr | Resinous, red-brown, opaque, well worn. |
| HAEMATITE | | | | |
| ILMENITE | | 30% | 100% | Bright silvery-black subhedra, moderately fresh. |
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Beige, tan, porcelain-like, after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Resinous, red-orange, near spherical, opaque, well worn. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | Tr | Mid-brown laths, jagged, transparent, moderately fresh. |
| RUTILE | | | | |
| SPHENE | | | | |
| SPINEL | | | | |
| STAUROLITE | | | | |
| TOURMALINE | Tr | Tr | Tr | Black-brown, near spherical reworked grains. |
| UNKNOWN MINERAL | | | Tr | 1+0.25 palest lemon yellow, SEM indicates Mg/Si/Fe. |
| ZIRCON | | Tr | Tr | Rare, colourless, Fe-stained pale orange, worn broken euhedra, transparent, vitreous. |
| ROCK FRAGMENTS | 30% | Tr | Tr | Beige, pyroxene aggregates with ilmenite, weathered. |
| COMMENTS: | -2.0+0.8 concentrate fully observed. | | | Observed L.F. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: August, 1998 |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.25 fully obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354587

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

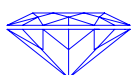
STREAMSED
28.38 kgs
70.33 grams
-2.0+0.25 mm
-

| 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 | | Silvery-grey, ice blue, grey-blue, translucent tabular subhedra, rarely opaque and rounded. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |

| | | | | |
|--------------------|---|-----|-----|---|
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 100% | 10% | 10% | Brown, brick red, tan, dull well rounded, earthy fragments. |
| GARNET | | | Tr | Rare. Almandine, palest pink, transparent rounded. |
| GOLD | | | | |
| GORCEIXITE | | | Tr | Rare. Red-brown, opaque amorphous grain. |
| HAEMATITE | | | | |
| ILMENITE | Tr | 89% | 87% | Dull iron black, silvery-black subhedra to rounded anhedral, , many quite blocky, high metallic lustre, others more frosted, some partly leucoxenised. |
| KYANITE | | | | |
| LEUCOXENE | | Tr | 1% | Grey, beige, brown subangular grains after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Pale peach, orange, white, opaque well rounded with resinous lustre. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | | |
| RUTILE | | Tr | Tr | Cherry red, elongate with surface striations. |
| SPHENE | | | | |
| SPINEL | | | | |
| TOURMALINE | Tr | 1% | 2% | Black, brown, green, smooth well rounded grains. |
| ZIRCON | | | Tr | Orange, colourless, cream, honey brown, pink, mostly well rounded grains, quite frosted translucent to opaque, rare broken euhedra, vitreous with vesicular inclusions. |
| COMMENTS: | -2.0+0.8 concentrate fully observed. | | | Observed J.D. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: |
| | -0.8+0.25 fully obs. | | | Date: August 1998. |
| NM | | | | |
| M6/7 | -0.8+0.25 fully obs. | | | |
| M4/5 | -0.8+0.25 fully obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354588

ASSESSMENT

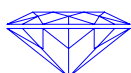
Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSS KIMB

STREAMSED
30.96 kgs
74.67 grams
-2.0+0.25 mm
415

| | % | % | % | | |
|-----------------------|------|------|-------|--|--|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25, dull, brownish-black, worn broken euhedra, smooth surface. |
| 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 | | Yellow-blue, blue-grey, moderately fresh tabular subhedra, also many well worn grains. |
| APATITE | | | | | |

| | | | | |
|--|------|------|--------------|---|
| BARITE | | Tr | Tr | White, cream, colourless, brownish, sugary aggregates, opaque, also more translucent grains, worn. |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 30% | Dull, red-brown, rarely yellow-brown. |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | Tr | Tr | Rare, red-brown, grey, resinous, smooth opaque amorphous grains. |
| HAEMATITE | | | | |
| ILMENITE | Tr | 40% | 60% | Abundance of bright silvery-black subhedra, some grains more rounded, pitted, worn. |
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Mostly beige, also cream, grey-green, dull to polished, pseudomorphs after ilmenite as well as many near spherical grains. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Red-orange, yellow, near spherical, resinous, opaque. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| RUTILE | | | Tr | Dark cherry red to silvery-black, well worn, strong semi-metallic lustre. |
| TOURMALINE | Tr | Tr | 8% | Black-brown, well rounded, near spherical, frosted to smooth. |
| ZIRCON | | Tr | 2% | Colourless, orange, yellow, Fe-stained, numerous ovate to near spherical reworked grains; also several broken euhedral grains, more vitreous. |
| COMMENTS: -2.0+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 fully obs. M1/2/3 Scalp not observed. | | | | |
| | | | Observed by: | L.F. Date: August, 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354589

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
31.66 kgs
714.75 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 | | Very rare. Grey, golden yellow, anhedral, moderately worn. |
| APATITE | | | | | |

| | | | | |
|--------------------|---|------|------|--|
| BARITE | | Tr | Tr | White to colourless, blocky, frosted and etched. |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 100% | Tr | Tr | Yellow-brown, red-brown, dull, generally pisolitic. |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | Tr | Tr | Red-brown, yellow-brown, orange, dull to more resinous amorphous opaques. |
| HAEMATITE | | | | |
| ILMENITE | Tr | 100% | 100% | Silvery-black subhedra, bright metallic lustre, moderately worn. |
| KYANITE | | | | |
| LEUCOXENE | | | Tr | Beige, dull. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Cream, yellow, orange, grey, resinous well rounded opaques. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | Tr | Tr | Tr | Yellow-brown to greyish-brown, blocky to more tabular, moderately fresh to moderately worn, often as quite composite grains. |
| RUTILE | | Tr | Tr | Very rare. Orange-red, orange-brown, sub/anhedra, moderately fresh to moderately worn. |
| SULPHIDES | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, near spherical. |
| ZIRCON | | Tr | Tr | Orange, yellow, orange-brown, colourless, generally ovate to near spherical, transparent to translucent, very rarely eu/subhedral, included. |
| COMMENTS: | -2.0+0.8 fully obs. | | | Observed B.G. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: August, 1998 |
| | -0.8+0.25 fully obs. | | | |
| NM | | | | |
| M6/7 | -0.8+0.4 fully obs, -0.4+0.25 ½ obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354590

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
25.94 kgs
2017.91 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 | | | | | |
| | % | % | % | | |
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Golden yellow, translucent, tabular with silvery sheen. |
| APATITE | | | | | |

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

| | | | | |
|---|-----|------|------|--|
| BARITE | Tr | Tr | Tr | White, palest orange, colourless, mostly blocky, frosted with slight etching. |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 99% | Tr | Tr | Brown, tan, brick red, dull well rounded to broken earthy angular fragments. |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | Tr | Tr | Red-brown, resinous opaque amorphous grains. |
| HAEMATITE | | | | |
| ILMENITE | 1% | 100% | 100% | Dull iron black, silvery-black, subhedral, subangular with high metallic lustre, others more frosted. |
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Brown, beige, caramel, angular to well rounded, opaque, some porcelain-like, after ilmenite. |
| MAGNETITE | | | | |
| MN OXIDE | | | | |
| MONAZITE | | | Tr | Orange, pale peach, rounded, translucent with a resinous lustre. |
| PREHNITE | | | | |
| PYROXENE | | | Tr | Greenish-brown, elongate transparent grains, some very finely striate. |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | Tr | Tr | Tr | Black, brown, green, well rounded, transparent to opaque, some slightly frosted. |
| XENOTIME | | | | |
| ZIRCON | | Tr | Tr | Colourless, yellow, honey brown, rarely broken subhedra, vitreous with vesicular inclusions, most are translucent, well rounded and frosted. |
| COMMENTS: -2.0+0.8 concentrate fully observed. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.25 fully obs. M4/5 -0.8+0.25 not observed. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed by: J.D. Date: August 1998 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354591

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
20.84 kgs
1337.70 grams
-2.0+0.25 mm
417

| 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 | Very rare, golden yellow, platy subhedra, moderately worn, translucent. |
| APATITE | | | | |
| BARITE | | Tr | Tr | Colourless, Fe-stained, translucent, usually blocky, moderately worn, some platy. |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 70% | 70% | Tr | Pisolitic, brown, smooth, dull to polished. |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | | | |
| HAEMATITE | Tr | Tr | Tr | Rare, silvery aggregates, moderately fresh. |
| ILMENITE | Tr | 30% | 100% | Abundance of silvery-black subhedra, moderately fresh, some are very well rounded, frosted, pitted. |
| KYANITE | | | | |
| LEUCOXENE | Tr | Tr | Tr | After ilmenite, numerous beige/tan/brown grains, pseudomorphic to subangular, some well rounded. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | Tr | Dull, grey-black, soft, friable. |
| MONAZITE | | Tr | Tr | Red-orange, near spherical, resinous, opaque, smooth. |
| PYROXENE | | Tr | Tr | Pale to mid-brown, jagged laths, fresh, transparent. |
| RUTILE | | | Tr | Cherry red to silvery-black, some elongate, prismatic, mostly well worn. |
| SILLIMANITE | | | Tr | Elongate, prismatic, Fe-stained, translucent. |
| SPINEL | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, near spherical, smooth to frosted. |
| UNKNOWN MINERAL | | | Tr | 1+0.25, pale yellow, SEM indicates Mg/Si/Fe |
| ZIRCON | | | Tr | Colourless, Fe-stained, near spherical reworked grains. |
| ROCK FRAGMENTS | 30% | Tr | | Beige/cream, weathered, pyroxene/ilmenite aggregates. |
| COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered. Observed L.F. by: Date: August, 1998 -1.2+0.8 ¼ obs. -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully obs. NM M6/7 -0.8+0.4 ½ obs, -0.4+0.25 1/8 obs. M4/5 -0.8+0.25 not observed. M1/2/3 Scalp not observed. | | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354592

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
34.88 kgs
2275.76 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 | | | | | |
| | % | % | % | | |
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |

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 | | | Tr | Grey-blue, silver grey, quite rounded, opaque with silvery sheen. |
| APATITE | | | | |
| BARITE | Tr | Tr | Tr | White, pale orange, colourless, blocky, tabular, frosted with etching, others more rounded and saccharoidal in appearance. |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 95% | Tr | Tr | Brown, red-brown, tan, rounded, dull, others more earthy angular fragments. |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | Tr | | Red-brown, opaque, resinous amorphous grains. |
| HAEMATITE | | | | |
| ILMENITE | 5% | 100% | 100% | Silvery-black, subangular to more rounded with high metallic lustre, some more frosted. |
| KYANITE | | | | |
| LEUCOXENE | Tr | Tr | Tr | Brown, beige, grey, cream blocky, angular, porcelain-like, after ilmenite. |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | | |
| MONAZITE | | Tr | Tr | Orange-brown, resinous lustre, rounded and opaque. |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | Tr | | Brown, elongate, finely striate, transparent. |
| RUTILE | | Tr | Tr | Yellow-orange, orange-red, black, most grains quite rounded with semi-metallic lustre. |
| TOURMALINE | | Tr | Tr | Black, brown, green, well rounded, transparent to opaque. |
| ZIRCON | | | Tr | Honey brown, colourless, rare broken euhedra, vitreous with vesicular inclusions, others well rounded, frosted, translucent to opaque. |
| COMMENTS: | -2.0+0.8 fully obs. | | | Observed J.D. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: August, 1998 |
| NM | -0.8+0.25 fully obs. | | | |
| M6/7 | -0.8+0.4 fully obs, -0.4+0.25 ½ obs. | | | |
| M4/5 | -0.8+0.25 not obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354593

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

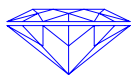
NEGATIVE

STREAMSED
22.60 kgs
1474.77 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 | Golden yellow, sub-transparent to opaque, also more rounded |
| APATITE | | | Tr | Colourless, transparent prismatic crystals |
| BARITE | Tr | Tr | Tr | White, colourless, pale orange, frosted with some grains deeply etched |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 100% | Tr | Tr | Brown, tan, brick-red, dull, well rounded, also earthy angular fragments |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | | | |
| HAEMATITE | | | | |
| ILMENITE | Tr | 100% | 100% | Silvery-black, subangular with a high metallic lustre, some more rounded and frosted |
| KYANITE | | | Tr | Colourless, rounded, blocky a with pearly sheen |
| LEUCOXENE | | Tr | Tr | Brown, beige, grey, subangular to rounded, opaque |
| MAGNETITE | | | | |
| MN OXIDE | | Tr | Tr | Dull, nodular, grey-black, soft |
| MONAZITE | | | Tr | Pale orange, brown, well rounded with a resinous lustre |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | Tr | Tr | Tr | Greenish-brown, brown, elongate with some surface striations |
| SPHENE | | | | |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | | Tr | Tr | Brown, black, well rounded |
| UNKNOWN MINERAL | | | Tr | Dull olive green, near spherical grains, opaque, SEM indicates Al Si K Fe |
| ZIRCON | | | Tr | Pale pink, colourless, honey-brown, orange, some broken euhedra with vesicular inclusions, others are more ovate and frosted |
| ROCK FRAGMENTS | | | | |
| COMMENTS: | -2.0+0.8 fully obs | | | Observed JD |
| | -0.8+0.25 Concentrate magnetically separated | | | by: Date: Sept 98 |
| NM | -0.8+0.25 fully obs | | | |
| M6/7 | -0.8+0.25 1/32 obs | | | |
| M4/5 | -0.8+0.25 not obs | | | |
| m1 | scalp not observed | | | |

HEAVY MINERAL ANALYSIS SHEET



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 98-040.doc

SAMPLE NO

354594

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
25.96 kgs
1331.57 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 | | | | | |
| | % | % | % | | |
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |

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 | | | Tr | Very rare, orange-brown, tabular, subhedral, moderately worn |
| APATITE | | | | |
| BARITE | 15% | 5% | 5% | Colourless to beige, orange toned, blocky to more tabular, some quite rounded, transparent to translucent, often heavily etched |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 75% | Tr | Tr | Yellow-brown, red-brown, brown, pisolitic |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | | | |
| HAEMATITE | | | | |
| ILMENITE | Tr | 95% | 95% | Silvery-black subhedra, strong metallic lustre, moderately worn |
| KYANITE | | | | |
| LEUCOXENE | | | | |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | 10% | Tr | Tr | Grey-black, dull, nodular, soft |
| MONAZITE | | | | |
| PHOSPHATES | | | | |
| PYROXENE | | | | |
| RUTILE | | | | |
| SPINEL | | | | |
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, near spherical |
| UNKNOWN MINERAL | | Tr | Tr | Dull green, near spherical, opaque, Al Si K Fe |
| XENOTIME | | | | |
| ZIRCON | | | | |
| ROCK FRAGMENTS | | | | |
| COMMENTS: | -2.0+1.2 not observed | | | Observed BG |
| | -1.2+0.8 fully obs | | | by: |
| | -0.8+0.25 Concentrate magnetically separated | | | Date: 1998 |
| NM | -0.8+0.4 fully obs, -0.4+0.25 1/8 obs | | | |
| M6/7 | -0.8+0.25 fully obs | | | |
| M4/5 | -0.8+0.25 not obs | | | |
| M1/2/3 | scalp not observed | | | |

HEAVY MINERAL ANALYSIS SHEET



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SAMPLE NO

354595

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

POSS KIMB

STREAMSED
30.74 kgs
383.77 grams
-2.0+0.25 mm
417

| | % | % | % | | |
|---------------------|-------------|-------------|--------------|-----------|--|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | Tr | | 1+0.25, black, dull, smooth rounded grain with a granular fracture |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| OTHER | | | | | |

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Yellow-grey, silver-grey, translucent, subhedral, rare opaque grains with a rough surface |
| APATITE | | | | | |
| BARITE | Tr | 10% | 1% | | White, pale yellow, colourless, pale orange, frosted, opaque, quite blocky, some heavily etched to saccharoidal |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 25% | 5% | | Brown, tan, brick-red, rounded to earthy angular fragments |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-brown, opaque, amorphous with a resinous lustre |
| HAEMATITE | | | | | |
| ILMENITE | Tr | 65% | 84% | | Iron black, silvery-black, subhedral, subangular with a high metallic lustre to more rounded and frosted |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Grey, beige, cream, brown, porcelain-like |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | Tr | | Honey-brown, orange, opaque well rounded grains with a resinous lustre |
| RUTILE | | | Tr | | Cherry-red, worn with a semi-metallic lustre |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | 10% | | Brown, black, orange, blue, transparent to opaque, well rounded |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Colourless, pale orange, yellow, mostly rounded grains, frosted, rare broken euhedra, vitreous with vesicular inclusions |
| COMMENTS: -2.0+0.8 Concentrate fully observed -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 not observed | | | | | |

Observed by: JD
Date: AUG 98

HEAVY MINERAL ANALYSIS SHEET



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SAMPLE NO

354596

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
35.60 kgs
14349.58 grams
-2.0+0.25 mm
417

| 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 | | |

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 | | | Tr | Orange-brown, golden-yellow, moderately fresh subhedra, some quite platy and aggregated. |
| APATITE | | Tr | Tr | Colourless hexagonal prismatic grains, transparent, some finely striate. |
| BARITE | | Tr | Tr | Creamy-white, colourless, yellow, orange to orange toned, subrounded to blocky, tabular grains, transparent to opaque, smooth surfaced to saccharoidal, moderately worn. |
| CALCITE | | | | |
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | | Tr | Tr | Red-brown, brown, yellow-brown, generally well rounded, dull. |
| GARNET | | | | |
| GORCEIXITE | | Tr | Tr | Orange, red-brown, amorphous, opaque. |
| ILMENITE | | 100% | 100% | Silvery-black subhedra, bright metallic lustre, moderately fresh to moderately worn; also dull silvery well rounded grains. |
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Brown, beige, polished |
| MN OXIDE | | Tr | Tr | Dull grey-black rounded anhedral, soft and friable |
| MONAZITE | | | | |
| OLIVINE? | | | Tr | Yellow to pale yellow, subangular to subrounded, translucent, moderately worn, SEM indicates Mg Si Fe |
| PYROXENE | | Tr | Tr | Brown to blackish-brown, beige-brown, blocky, rarely translucent, more commonly the grains are composite, fibrous. |
| RUTILE | | | Tr | Red, orange-brown, rounded, sub/anhedral, strong semi-metallic lustre. |
| TOURMALINE | | Tr | Tr | Black-brown, well rounded. |
| UNKNOWN | | | Tr | Dull, dark olive green, spherical, opaque, SEM indicates Al Si K Fe. |
| ZIRCON | | | Tr | Generally red-brown, colourless, orange, yellow, ovate to near spherical. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: | -2.0+0.8 grease table concentrated. No diamonds recovered. -0.8+0.25 Concentrate magnetically separated NM -0.8+0.25 Fully obs M6/7 -0.8+0.25 1/64 obs M4/5 -0.8+0.25 not obs M1/2/3 scalp not observed | | | Observed BG by: Date: AUG 98 |



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HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354597

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
28.02 kgs
6813.09 grams
-2.0+0.25 mm
417

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | Very rare, golden yellow, platy subhedra, moderately fresh |
| APATITE | | | | | |

| | | | | |
|--|------|-----|------|--|
| BARITE | Tr | Tr | Tr | Numerous, cream, white, colourless, moderately worn translucent grains, smooth, some Fe stained, rare grains are opaque, finely granular |
| CALCITE | | | | |
| CASSITERITE | | | | |
| CORUNDUM | | | Tr | Colourless but mottled blue, subangular fragments, transparent |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 100% | 70% | Tr | Red-brown, pisolitic, smooth, polished |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | | Tr | Rare, beige to tan, well rounded, resinous, opaque |
| HAEMATITE | | | | |
| ILMENITE | Tr | 30% | 100% | Abundance of bright silvery-black subhedra, moderately worn |
| KYANITE | | | | |
| LEUCOXENE | | Tr | Tr | Beige, tan, cream, porcelain-like, polished |
| MAGNETITE | | | | |
| MN OXIDE | | | Tr | Dull, grey-black, nodular, soft |
| PYROXENE | | Tr | Tr | Khaki-green, brown, moderately fresh ragged laths, transparent |
| RUTILE | | | Tr | Rare, silvery-black, rarely cherry-red, well worn |
| TOURMALINE | | Tr | Tr | Black-brown, most are near spherical, smooth to frosted |
| ZIRCON | | | Tr | Colourless, palest pink, milky orange, vitreous broken euhedra, fine vesicular inclusions; also some well rounded near spherical grains |
| ROCK FRAGMENTS | | | Tr | Beige, pyroxene composites |
| COMMENTS: -2.0+1.2 grease table concentrated. No diamonds recovered. -1.2+0.8 1/8 obs -0.8+0.25 Concentrate magnetically separated NM -0.8+0.4 fully obs, -0.4+0.25 ¼ obs M6/7 -0.8+0.4 1/16 obs, -0.4+0.25 1/8 obs M4/5 -0.8+0.25 not observed M1/2/3 scalp not observed | | | | |

Observed LF
by:
Date: AUG 98



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File: 98-040.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354598

ASSESSMENT

Type of sample
Head Weight
Conc Weight -1.2+0.25mm
Size fractions observed
Disc No

NEGATIVE

STREAMSED
30.34 kgs
5661.31 grams
-2.0+0.25 mm
417

| 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 | | Golden yellow, grey-blue, platy subhedra, moderately fresh |
| APATITE | | | Tr | | Rare, colourless hexagonal prisms, vitreous, moderately fresh |
| BARITE | Tr | Tr | Tr | | Several, moderately fresh, colourless to milky, translucent to transparent |
| CALCITE | | | Tr | | Very rare, grey, translucent fragment, moderately worn |
| CASSITERITE | | | | | |

| | | | | |
|--------------------|---|-----|------|---|
| CORUNDUM | | | | |
| EPIDOTE | | | | |
| FE OXIDE/HYDROXIDE | 100% | 70% | Tr | Pisolithic, red-brown, brown, yellow-brown, dull to polished |
| GARNET | | | | |
| GOLD | | | | |
| GORCEIXITE | | Tr | Tr | Red-brown, amorphous, resinous, worn, opaque |
| HAEMATITE | | | | |
| ILMENITE | Tr | 30% | 100% | Bright silvery-black subhedra, moderately worn, some partly leucoxenised |
| KYANITE | | | | |
| LEUCOXENE | | | Tr | Beige, cream, tan, after ilmenite, dull to porcelain-like, many well rounded grains |
| MAGNETITE | | | | |
| MICA | | | | |
| MN OXIDE | | | Tr | Dull grey-black, nodular, soft |
| MONAZITE | | | | |
| PHOSPHATES | | | | |
| PREHNITE | | | | |
| PYROXENE | | | Tr | Khaki-brown, ragged laths, transparent, fresh to moderately fresh |
| RUTILE | | | Tr | Rare, cherry-red, orange-red, silvery-black, moderately worn to well worn |
| TOURMALINE | | Tr | Tr | Black-brown, near spherical reworked grains, smooth to frosted |
| ZIRCON | | | Tr | Colourless, Fe stained, mostly well rounded, vitreous, also worn broken euhedral grains |
| ROCK FRAGMENTS | | | | |
| COMMENTS: | -2.0+1.2 grease table concentrated. No diamonds recovered. -1.2+0.8 1/8 observed -0.8+0.25 Concentrate magnetically separated NM -0.8+0.4 ½ obs, -0.4+0.25 ½ obs M6/7 -0.8+0.4 1/32 obs, -0.4+0.25 1/16 obs M4/5 -0.8+0.25 not observed M1/2/3 scalp not observed | | | Observed by: LF Date: AUG 98 |