

DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354864

ASSESSMENT

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

NEGATIVE

STREAMSED
27.32 kgs
1475.7 grams
-1.2+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 | | Sky blue, broken, moderately worn subhedra. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare. Dark blue, colourless, well worn, transparent, vitreous. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 90% | | Mustard yellow, pale red-brown, dull, earthy, the larger grains are pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | Tr | Tr | 10% | | Platy, silvery-black, well worn. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, dull, opaque, after ilmenite, worn. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale khaki-brown, jagged laths, transparent. |
| RUTILE | | | Tr | | Rare. Silvery-black to cherry red, ovate to near spherical. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | | Tr | | Black-brown, near spherical, some ovate, smooth to frosted, reworked. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Colourless to Fe-stained, orange/yellow, near spherical reworked grains. |
| ROCK FRAGMENTS | | | | | |

COMMENTS: -1.2+0.8 concentrate fully observed.

Observed by: L.F.

-0.8+0.25 concentrate magnetically separated.

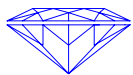
Date: July, 1999.

NM -0.8+0.25 fully observed.

M6/7 -0.8+0.25 ¼ observed.

M4/5 -0.8+0.25 fully observed.

M1/2/3 Scalp not observed.



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354865

ASSESSMENT

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

NEGATIVE

STREAMSED
18.86 kgs
810.3 grams
-1.2+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 | | Blue-grey, ice blue, yellow-grey, subhedral, opaque, some translucent with greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | Tr | Tr | | Pale blue, subhedral, tabular, transparent, vitreous grains. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Brown, red-brown, tan, opaque, earthy, angular to well rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | Tr | | Specular rounded earthy grains. |
| ILMENITE | | Tr | Tr | | Silvery-black, subhedral, rounded, high metallic lustre to more dull frosted, some partly leucogenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | Tr | | Caramel, worn rounded grains, resinous opaques. |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale green, pale brown, transparent surface striate with jagged edge to more fibrous opaque. |
| RUTILE | | | Tr | | Black, dark cherry red, semi-metallic lustre, reworked. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Brown, black, transparent to opaque, well rounded. |
| ZIRCON | | | Tr | | Colourless, palest pink, ovate, subhedra to well rounded vitreous some slightly frosted. |

COMMENTS: -1.2+0.8 concentrate fully observed.

Observed J.D.
by:

-0.8+0.25 concentrate magnetically separated.

Date: July, 1999.

NM -0.8+0.25 fully observed.

M6/7 -0.8+0.25 ½ observed.

M4/5 -0.8+0.25 fully observed.

M1/2/3 Scalp not observed.



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354866

ASSESSMENT

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

NEGATIVE

STREAMSED
13.74 kgs
146.8 grams
-1.2+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 | | Pale blue, grey-blue, grey-yellow, tabular subhedra, moderately fresh. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Dull creamy-white aggregates, opaque, moderately fresh. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Yellow-brown, red-brown, dull, irregular, ferruginous finely micaceous siltstone. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, platy to blocky, moderately fresh, some are well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Rare. Beige, cream, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Rare. Pale khaki-brown laths, moderately worn, transparent. |
| RUTILE | | | Tr | | Rare. Dark cherry red, well worn. |
| SPHENE | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | | Tr | | Rare. Black-brown reworked grains, rare moderately worn subhedra, short prismatic crystals. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Rare. Colourless, well worn reworked grains. |

COMMENTS: -1.2+0.8 concentrate 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+0.25 fully observed.

Observed L.F.
by:

Date: July, 1999.



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354867

ASSESSMENT

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

NEGATIVE

STREAMSED
24.58 kgs
49.2 grams
-1.2+0.25 mm
442

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | | Tr | | Rare. Fibrous, grey, tabular lath, moderately worn. |
| ANATASE | | | Tr | | Yellow subhedra, greasy lustre, moderately worn. Rare. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare. Colourless, palest blue, subrounded anhedral. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 85% | | Yellow-brown, red-brown, grey-black, dull, subangular to more rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 12% | | Silvery-black, bright sub/anhedral, often platy, moderately worn; also well rounded shimmery grey-black grains. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Cream, grey-green, brown, beige, polished grains. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | Tr | | Very rare. Orange resinous near spherical opaques. |
| PHOSPHATES | | Tr | Tr | | Orange, orange-brown, creamy brown, red-brown, dull to more polished rounded opaques. |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Very rare. Pale khaki brown moderately fresh laths. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Very rare. Orange, anhedral, well rounded. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | 3% | | Black-brown, near spherical. |
| ZIRCON | | Tr | Tr | | Colourless, rarely orange-brown, generally near spherical, transparent to translucent. |

COMMENTS: -1.2+0.25 concentrate fully observed.

Observed by: B.G.
Date: June, 1999.



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354868

ASSESSMENT

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

NEGATIVE

STREAMSED
11.70 kgs
25.7 grams
-1.2+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 | | Rare. Beige, yellow-beige sub/anhedra. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Rare. Colourless, beige, generally platy, transparent to translucent, moderately worn. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Red-brown, yellow-brown, brown, dull, angular to quite rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, bright sub/anhedra; rarely grey-black, shimmery, well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Grey, beige, brown, dull to quite polished, rounded. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | Tr | | Very rare. Beige, near spherical, resinous, opaque. |
| PHOSPHATES | | | Tr | | Orange-brown, mottled orange/creamy, well rounded polished opaques. |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Very rare. Pale khaki, moderately fresh laths. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Very rare. Orange, well rounded, translucent. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown near spherical grains. |
| ZIRCON | | | Tr | | Colourless, generally transparent, near spherical. |

COMMENTS: -1.2+0.25 concentrate fully observed.

Observed B.G.

by:

Date: June, 1999



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354869

ASSESSMENT

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

NEGATIVE

STREAMSED
14.90 kgs
164.4 grams
-1.2+0.25 mm
-

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | Tr | | White, opaque, frosted, rounded, granular. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Blue-colourless, banded, transparent, vitreous. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Red-brown, mustard yellow, brown, dull well rounded to angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | | Tr | | Silvery-black, blocky, tabular, metallic lustre to matt black, grooved. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Dark brown, angular polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Grey-black, dull, rounded. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale brown, translucent. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | | Tr | | Brown, well rounded. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Colourless, frosted, ovate. |

COMMENTS: -1.2+0.8 concentrate fully observed.

Observed J.D.

by:

Date: July, 1999.

-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+0.25 fully observed.
M1/2/3 Scalp not observed.



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354870

ASSESSMENT

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

NEGATIVE

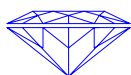
STREAMSED
20.36 kgs
7.9 grams
-1.2+0.25 mm
442

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 25% | | Yellow-brown, dull, earthy, some are pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 75% | | Abundance of bright silvery-black grains, mostly platy, moderately worn, others are well worn. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, cream, grey, polished, many after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale khaki brown, moderately fresh laths |
| RUTILE | | | Tr | | Dark cherry red to silvery-black, well worn reworked grains. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown near spherical grains, reworked. |
| ZIRCON | | | Tr | | Colourless, pale yellow, pale orange, Fe-stained, ovate to near spherical, well worn, reworked. |

COMMENTS: -1.2+0.25 concentrate fully observed.

Observed by: L.F.
Date: June, 1999



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354871

ASSESSMENT

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

NEGATIVE

STREAMSED
29.18 kgs
176.2 grams
-1.2+0.25 mm
442

| 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 | | | Tr | | Rare. Mid-bottle green, fibrous laths, moderately fresh. |
| ANATASE | | | Tr | | Grey-blue tabular subhedra, translucent, strong greasy lustre, worn. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Creamy-white, moderately worn, dull, semi-opaque. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 95% | 40% | | Brick-red, mustard yellow, dull, earthy. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Rare. Resinous, red-brown, well worn. |
| HAEMATITE | | | | | |
| ILMENITE | | 5% | 55% | | Abundance of silvery-black moderately worn to worn grains, platy to rounded. |
| KYANITE | | | Tr | | Rare. Colourless, bladed, Fe-stained, pearly lustre, worn. |
| LEUCOXENE | | | Tr | | Beige, pale blue-grey. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | Tr | | Rare. Dark cherry red to silvery-black, well worn. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Orange-brown, well worn reworked grains, translucent. |
| SULPHIDES | | | | | |
| TOURMALINE | Tr | Tr | 5% | | Well worn reworked grains, black-brown. |
| XENOTIME | | | | | |
| ZIRCON | | Tr | Tr | | Well worn reworked grains, colourless. |

COMMENTS: -1.2+0.8 concentrate fully observed.

Observed L.F.

by:

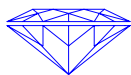
Date: July, 1999.

NM -0.8+0.25 concentrate magnetically separated.

M6/7 -0.8+0.25 fully observed.

-0.8+0.25 fully observed.

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



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354872

ASSESSMENT

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

NEGATIVE

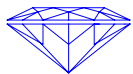
STREAMSED
30.60 kgs
21.1 grams
-1.2+0.25 mm
-

| 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 | | Beige, grey-blue, subhedra, translucent to opaque, moderately worn. |
| APATITE | | | | | |
| BARITE | | | Tr | | Very rare. Colourless, platy, transparent, moderately fresh. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 45% | | Red-brown, yellow-brown, brown, subangular to more rounded, dull |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | | 15% | | Silvery-black, platy, sub/anedral, bright; also well rounded shimmery grey-black grains. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, creamy, brown, dull to polished. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | Tr | Tr | Tr | | Dull, grey-black, well rounded. |
| MONAZITE | | | | | |
| PHOSPHATES | | | Tr | | Yellow-brown, brown sub-resinous rounded opaques. |
| PREHNITE | | | | | |
| PYROXENE | | Tr | | | 1+0.4 pale khaki, subangular, moderately fresh. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | 5% | | Black-brown near spherical grains. |
| XENOTIME | | | | | |
| ZIRCON | Tr | Tr | 35% | | Abundant near spherical colourless to Fe-stained transparent grains. |

COMMENTS: -1.2+0.25 concentrate fully observed.

Observed B.G.
by:
Date: June, 1999.



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354873

ASSESSMENT

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

NEGATIVE

STREAMSED
24.94 kgs
93.6 grams
-1.2+0.25 mm
442

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 95% | 35% | | Dull brick red, mustard yellow, mainly earthy and irregular, some more pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | Tr | Tr | 45% | | Silvery-black, platy, some are more worn, rounded. |
| KYANITE | | | Tr | | Rare. Colourless but Fe-stained, worn. |
| LEUCOXENE | | Tr | Tr | | Several grains, tan, yellow-brown, beige, worn and polished, mostly after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | 5% | 20% | | Dull grey-black nodules and irregular fragments. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Rare. Pale khaki brown, transparent laths, moderately worn. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | Tr | Tr | Tr | | Black-brown, ovate to near spherical reworked grains. |
| XENOTIME | | | | | |
| ZIRCON | | Tr | Tr | | Colourless, Fe-stained, yellow and orange, well worn and rounded reworked grains. |

COMMENTS: -1.2+0.8 concentrate fully observed.

Observed by: L.F.

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

-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+0.25 fully observed.
M1/2/3 Scalp not observed.

Date: July, 1999



DIATECH
 Ph 61 8 9361 2596
 Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354874

ASSESSMENT

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

NEGATIVE

STREAMSED
 27.64 kgs
 10.5 grams
 -1.2+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 | | | Tr | | 1+0.25, dark grey-green, composite fragment, translucent, fresh. |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 68% | | Yellow-brown, red-brown, dull, rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 20% | | Platy, bright silvery-black, moderately fresh. |
| KYANITE | | | | | |
| LEUCOXENE | | | 10% | | Creamy-beige, dull, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Dull, dark grey, soft, friable. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | 2% | | Near spherical black-brown grains, reworked. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Colourless, pale yellow, pale orange, Fe-stained, ovate to near spherical, frosted to smooth. |
| COMMENTS: | -1.2+0.25 concentrate fully observed. | | | | Observed by: L.F. |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354875

ASSESSMENT

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

NEGATIVE

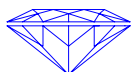
STREAMSED
26.76 kgs
287.2 grams
-1.2+0.25 mm

| 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 | | Pale grey-blue, blue, yellow-blue, subhedra, greasy lustre. |
| APATITE | | | | | |
| BARITE | | | Tr | | Very rare. White, sugary, opaque aggregates. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 20% | | Yellow-brown, red-brown, brown, dull, subangular to quite rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 80% | | Silvery black sub/anhedra, often platy, moderately worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Brown, grey, beige, blue-grey, dull to more polished, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | Tr | Tr | Tr | | Very rare. Orange-brown, orange, red-brown, subrounded to rounded opaques. |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki moderately fresh laths. |
| RUTILE | | | Tr | | Very rare. Silvery-black, rounded, anhedral. |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Pale orange, well rounded anhedra, very rare. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown near spherical grains. |
| ZIRCON | | Tr | Tr | | Colourless, Fe-stained, generally near spherical, transparent to translucent. |
| ROCK FRAGMENTS | | Tr | Tr | | Composite quartz/Fe-oxide, quartz/ilmenite 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: | -1.2+0.8 concentrate fully observed. | Observed by: B.G. |
| | -0.8+0.25 concentrate magnetically separated. | Date: July, 1999. |
| NM | -0.8+0.25 fully observed. | |
| M6/7 | -0.8+0.25 fully observed. | |
| M4/5 | -0.8+0.25 ¼ observed. | |
| M1/2/3 | Scalp not observed. | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354876

ASSESSMENT

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

NEGATIVE

STREAMSED
26.74 kgs
212.3 grams
-1.2+0.25 mm
-

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

| | % +0.8 | % +0.4 | % +0.25 | mm | BRIEF DESCRIPTION |
|-----------------------|-----------|-----------|------------|----|--|
| OTHER MINERALS | | | | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Several pale yellow, yellow-blue, grey-blue, broken tabular subhedra, moderately fresh to moderately worn, translucent, mottled. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare. Palest yellow, colourless, well worn, irregular, transparent, high vitreous lustre. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 25% | | Mid-brown, yellow-brown, pisolitic grains, dull. |
| GARNET | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 70% | | Abundance of silvery-black platy grains, moderately worn, some well worn and rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | After ilmenite, beige, moderately worn to worn, dull. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | Tr | Tr | Tr | | Soft, dull, grey-black nodules, friable. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale khaki brown, moderately worn, transparent. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | 5% | | Black-brown, well worn reworked grains. |
| XENOTIME | | | | | |

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

| | | | | |
|---|---|--|----|---|
| ZIRCON | | | Tr | Rare. Colourless but Fe-stained orange/yellow, well worn reworked grains. |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed L.F. by: Date: July, 1999. |
| | -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+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354877

ASSESSMENT

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

NEGATIVE

STREAMSED
21.04 kgs
147.3 grams
-1.2+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 | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|------|-----|----|---|
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Yellow-grey subhedra, translucent with dull sheen. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 20% | | Mustard yellow, red-brown, brown, dull earthy angular blocky to well rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 80% | | Silvery-black subhedra, tabular, blocky to rounded, smooth grooved to frosted, high metallic lustre some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Brown, beige, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |

| | | | | |
|--|--|--|----|--|
| TOURMALINE | | | Tr | Brown, black, ovate to well rounded, worn. |
| ZIRCON | | | Tr | Colourless, transparent, slight frosting. |
| COMMENTS: -1.2+0.25 concentrate fully observed. | | | | Observed by: J.D. Date: July, 1999. |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354878

ASSESSMENT

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

NEGATIVE

STREAMSED
26.38 kgs
370.7 grams
-1.2+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 | | Blue-grey, blue, subhedral, translucent to opaque with greasy lustre. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | White, frosted, tabular to rounded, granular opaques also some rosette crystals. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Brown, red-brown, tan, grey, dull rounded, blocky, earthy, angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, tabular, angular, subhedral, some grains partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Brown, beige, cream, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | Tr | | Caramel, red-brown, angular to more rounded, opaque with resinous lustre. |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale brown, angular, tabular, some with surface striations. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |

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

| | | | | |
|---|--|----|----|--|
| SULPHIDES | | | | |
| TOURMALINE | | Tr | Tr | Black, brown, well rounded, transparent to opaque. |
| ZIRCON | | | Tr | Colourless, ovate, slightly frosted. |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed J.D. by: Date: July, 1999. -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+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354879

ASSESSMENT

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

NEGATIVE

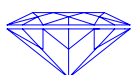
STREAMSED
22.62 kgs
237.8 grams
-1.2+0.25 mm
-

| 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 | | Blue-grey, blue, greyish-yellow, subhedral, subhedra, translucent to opaque with greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 40% | | Mustard yellow, red-brown, brown, grey, dull, rounded to broken angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 60% | | Silvery-black, blocky, angular to well rounded, high metallic lustre to more dull, frosted, some partly leucogenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, grey, blocky, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | Tr | | Black, cherry red, semi-metallic lustre, rounded. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |

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

| | | | | |
|---|---|----|----|---|
| SULPHIDES | | | | |
| TOURMALINE | | | Tr | Brown, black, worn, well rounded. |
| ZIRCON | | Tr | Tr | Colourless, transparent, glassy broken euhedra to rounded, frosted. |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed J.D. by: Date: July, 1999. |
| | -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+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354880

ASSESSMENT

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

NEGATIVE

STREAMSED
27.22 kgs
823.5 grams
-1.2+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 | | Grey-blue, blue, subhedral, translucent to opaque, greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare. Colourless, tabular subhedra, transparent vitreous grain. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Red-brown, mustard yellow, brown, grey, dull, well rounded, earthy, angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, platy, subhedral, angular, rounded, grooved, some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Cream, beige, brown, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | Tr | | Caramel, worn, angular, opaques, resinous lustre. |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale brown, transparent, elongate, jagged-edged. |
| RUTILE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |

| | | | | |
|---|---|----|----|---|
| TOURMALINE | | Tr | Tr | Black, brown, rare subhedra to well rounded reworked grains. |
| ZIRCON | | | Tr | Colourless, ovate, rounded, vitreous, transparent with slight frosting. |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed J.D. by: Date: July, 1999. |
| | -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+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354881

ASSESSMENT

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

NEGATIVE

STREAMSED
26.90 kgs
495.7 grams
-1.2+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 | | Tr | | | Rare, dark black-green, moderately fresh, fibrous aggregates. |
| ANATASE | | | Tr | | Dark blue, sky-blue, mottled yellow and grey, moderately fresh to moderately worn broken tabular subhedra, strong greasy lustre. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 60% | | Mustard yellow, mid-brown, mostly pisolitic. |
| GARNET | | | Tr | | Rare, almandine, well worn, palest pink, hummocky to smooth, transparent to frosted. |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Red-orange to red-brown, resinous to waxy irregular grains, smooth, well worn. |
| ILMENITE | | Tr | 40% | | Silvery-black, mostly platy, grooved, also some more blocky to rounded grains. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, after ilmenite, dull, opaque, some are well worn, polished. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki-brown, jagged moderately fresh laths, transparent. |
| RUTILE | | | Tr | | Rare, dark cherry-red to silvery-black, well worn. |
| SPHENE | | | | | |
| STAUROLITE | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown, black, reworked near spherical grains. |
| XENOTIME | | | | | |

| | | | | |
|---|---|--|----|--|
| ZIRCON | | | Tr | Rare, colourless, vitreous, reworked grains. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed LF |
| | | | | by: Date: July 99 |
| NM | -0.8+0.25 concentrate magnetically separated. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354882

ASSESSMENT

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

NEGATIVE

STREAMSED
22.06 kgs
734.8 grams
-1.2+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 | | Blue-grey, subhedra, opaque with greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 99% | | Red-brown, brown, tan, dull earthy, founded, blocky, angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 1% | | Silvery-black, platy, subhedral, rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, cream, angular, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | | | Rare. Pale brown, transparent, elongate. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Brown, rare subhedra to well rounded reworked grains. |
| XENOTIME | | | | | |

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

| | | | | |
|---|---|--|----|---|
| ZIRCON | | | Tr | Rare. Colourless, palest pink, rounded, ovate, frosted. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed J.D. |
| | | | | by: |
| | | | | Date: July, 1999. |
| NM | -0.8+0.25 concentrate magnetically separated. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354883

ASSESSMENT

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

NEGATIVE

STREAMSED
17.58 kgs
154.4 grams
-1.2+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 | | | | | |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | White, cream, opaque, frosted, granular grains. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 85% | | Brown, tan, red-brown, rounded, dull, earthy, angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 15% | | Silvery-black, tabular, angular, rounded, metallic lustre to rounded and frosted. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, brown, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | Tr | | Pale khaki brown, translucent, blocky. |
| PYROXENE | | | | | |
| RUTILE | | Tr | | | Black, elongate, opaque with dull metallic sheen. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | | Tr | | Black, brown, well rounded. |

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

| | | | | |
|--|--|--|--|--|
| XENOTIME | | | | |
| ZIRCON | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed J.D. by: Date: July, 1999. NM -0.8+0.25 concentrate magnetically separated. M6/7 -0.8+0.25 fully observed. M4/5 -0.8+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354884

ASSESSMENT

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

NEGATIVE

STREAMSED
25.82 kgs
86.5 grams
-1.2+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 | | | | | |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Cream, white, opaque, frosted, granular, tabular to more blocky. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Red-brown, tan, brown, dull, earthy. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, subhedra, tabular, blocky, rounded, dull frosted to metallic lustre, some partly leucogenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Dark brown, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale brown, translucent laths, surface striated, slightly frosted. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Brown, worn, well rounded. |

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

| | | | | |
|------------------|---|--|--|-----------------------|
| XENOTIME | | | | |
| ZIRCON | | | | |
| COMMENTS: | -1.2+0.8 concentrate fully observed. | | | Observed J.D. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: July, 1999. |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354885

ASSESSMENT

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

NEGATIVE

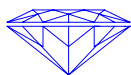
STREAMSED
30.14 kgs
114.1 grams
-1.2+0.25 mm
-

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 98% | | Dull, purple-brown, red-brown, yellow-brown, earthy. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Rare. Dark red-brown, smooth, resinous grains, well worn. |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 2% | | Platy, silvery-black grains, some well rounded, some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | Tr | Tr | Tr | | Dull, grey-black, irregular, soft fragments, some are nodular. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Rare. Well worn, orange-brown, translucent, smooth. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Well worn, reworked grains, black-brown. |
| XENOTIME | | | | | |

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

| | | | | |
|---|--|--|----|---|
| ZIRCON | | | Tr | Colourless, Fe-stained, near spherical reworked grains. |
| | | | | |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed L.F. by: Date: July, 1999. -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+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354886

ASSESSMENT

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

NEGATIVE

STREAMSED
46.66 kgs
170.9 grams
-1.2+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 | | Rare. Grey-blue, mottled yellow, worn subhedra. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Rare. Creamy white aggregates, opaque. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Pale lavender blue, colourless, well worn. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 83% | | Pisolitic, mid-brown to red-brown, smooth and polished, some grains are studded with fine quartz grains. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | Tr | | | l+0.4, spherical specular aggregate, red-brown, metallic tints. |
| ILMENITE | | Tr | 15% | | Silvery-black, platy to well rounded, some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Rare. Pale khaki brown laths, moderately fresh. |
| RUTILE | | | Tr | | Well worn, reworked grains, silvery-black to dark cherry red. |
| SPHENE | | | | | |
| STAUROLITE | | | Tr | | Orange-brown, well worn, transparent, small black inclusions. |
| SULPHIDES | | | | | |
| TOURMALINE | Tr | Tr | 2% | | Black-brown, well worn reworked grains, ovate to near spherical. |

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

| | | | | |
|---|---------------------------|--|----|--|
| ZIRCON | | | Tr | Colourless, often Fe-stained, ovate to near spherical reworked grains. |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed by: L.F. |
| -0.8+0.25 concentrate magnetically separated. | | | | Date: July, 1999. |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354887

ASSESSMENT

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

NEGATIVE

STREAMSED
22.44 kgs
714.3 grams
-1.2+0.25 mm
-

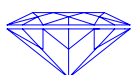
| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| 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 | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|------|------|----|---|
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Brown, red-brown, mustard-yellow, dull, well rounded, some grains are earthy, more angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, platy, subhedral, rounded, metallic lustre to more dull. |
| KYANITE | | | | | |
| LEUCOXENE | | | | | |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | Tr | | | | Very rare, pale brown, translucent, jagged laths. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | | Tr | | Brown, black, well rounded reworked grains. |

| | | | | |
|---|---|--|----|--|
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, pale yellow, transparent, ovate, frosted, well rounded |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed JD |
| | | | | by: Date: Aug 99 |
| | -0.8+0.25 concentrate magnetically separated. | | | |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.25 1/8 th observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354888

ASSESSMENT

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

NEGATIVE

STREAMSED
22.50 kgs
229.1 grams
-1.2+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, translucent, blocky, moderately worn. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Yellow-brown, red-brown, dull, subangular to more rounded, often quite earthy and nodular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, sub/anhedra, some platy, moderately worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Very rare, cream, blue-grey, dull to polished. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | Tr | Tr | | Very rare, cream mottled orange, brick-red, orange, yellow-brown, polished rounded opaques. |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Very rare, khaki-yellow, lath-like to more rounded, moderately fresh. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |

| | | | | |
|--|--|----|----|--|
| STAUROLITE | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, near spherical grains, reworked. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Very rare, colourless, near spherical, reworked. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed BG by: -0.8+0.25 concentrate magnetically separated. Date: July 99 NM -0.8+0.25 fully observed. M6/7 -0.8+0.4 fully observed, -0.4+0.25 ¼ observed M4/5 -0.8+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354889

ASSESSMENT

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

NEGATIVE

STREAMSED
17.38 kgs
96.8 grams
-1.2+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 | | Ice blue, opaque, rounded. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | White, rounded granular frosted opaques. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Brown, tan, red-brown, grey, dull, earthy, angular to rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-brown, smooth waxy lustre. |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black subhedra, blocky, tabular to rounded, grooved, frosted, high metallic lustre, some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, grey, angular polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |

| | | | | |
|---|--|--|----|--|
| SULPHIDES | | | | |
| TOURMALINE | | | Tr | Brown, transparent to opaque, worn rounded grains. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, transparent, well rounded. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed J.D. by: -0.8+0.25 concentrate magnetically separated. Date: July, 1999 NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 fully observed. M4/5 -0.8+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354890

ASSESSMENT

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

NEGATIVE

STREAMSED
21.56 kgs
122.4 grams
-1.2+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

| | % | % | % | | |
|-----------------------|------|------|-------|----|---|
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Rare. Pale grey, pearly, well worn, translucent. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Dull, mid-brown to yellow-brown, studded with fine quartz and tourmaline. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Mostly platy, silvery-black, others are well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, cream, worn to moderately worn, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |

| | | | | |
|--|--|----|----|---|
| TOURMALINE | | Tr | Tr | Ovate to near spherical, reworked, black-brown. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Rare. Colourless, Fe-stained, well worn, reworked grains. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed L.F. by: -0.8+0.25 concentrate magnetically separated. Date: July, 1999. NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 fully observed. M4/5 -0.8+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354891

ASSESSMENT

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

NEGATIVE

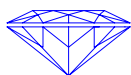
STREAMSED
16.28 kgs
72.6 grams
-1.2+0.25 mm
-

| 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 | | | Tr | | Black-green, elongate fibrous lath. |
| ANATASE | | | Tr | | Blue, blue-grey, subhedral to rounded, translucent to opaque. |
| ANDALUSITE | | | Tr | | Palest pink, transparent, smooth, glassy with tiny inclusions. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Palest blue, smooth glassy lustre with black inclusions. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 95% | | Tan, brown, red-brown, grey, dull, well rounded blocky, some angular fragments. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-brown, smooth, rounded. |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 3% | | Silvery-black, tabular, subhedra, blocky, smooth metallic lustre to more rounded, frosted, some partly leucogenised. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, rounded opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Palest brown, translucent to opaque. |
| RUTILE | | | Tr | | Dark cherry red, subhedra with semi-metallic lustre. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Orange-brown, transparent, rounded with slight frosting. |

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

| | | | | |
|--|--|----|----|---|
| SULPHIDES | | | | |
| TOURMALINE | | Tr | 2% | Black, brown rare subhedra to well rounded. |
| XENOTIME | | | | |
| ZIRCON | | | | |
| COMMENTS: -1.2+0.25 concentrate fully observed. | | | | Observed by: J.D. Date: July, 1999. |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354892

ASSESSMENT

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

NEGATIVE

STREAMSED
19.20 kgs
38.8 grams
-1.2+0.25 mm
-

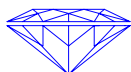
| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE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

% % %

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

| OTHER MINERALS | % | % | % | | |
|-----------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Palest pink, tabular fragment, rough frosted surface. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 98% | | Brown, tan, red-brown, grey, dull earthy, rounded, blocky. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 2% | | Silvery-black, tabular, grooved, subhedra, blocky to rounded, high metallic lustre, others more frosted. |
| KYANITE | | | | | |
| LEUCOXENE | | | | | |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Palest brown, transparent, angular. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Orange-brown, frosted with small black inclusions. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Brown, blue, black, transparent to opaque, well rounded. |
| XENOTIME | | | | | |

| | | | | |
|--|--|--|----|--|
| ZIRCON | | | Tr | Colourless, plum red, broken euhedra, vesicular inclusions to more rounded with slight frosting. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: Concentrate fully observed. | | | | Observed J.D. by: Date: July, 1999 |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354893

ASSESSMENT

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

NEGATIVE

STREAMSED
17.32 kgs
176.4 grams
-1.2+0.25 mm
-

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Colourless, transparent with small black inclusions, vitreous. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Brown, red-brown, mustard yellow, dull, rounded, earthy, angular. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, tabular, blocky, subhedral, dull metallic sheen, frosted, also some deeply grooved. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Brown, beige, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Brown, black, subhedral to well rounded. |
| XENOTIME | | | | | |

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

| | | | | |
|---|---|----|----|--|
| ZIRCON | | Tr | Tr | Colourless, transparent, well rounded, slightly frosted. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed J.D. |
| | | | | by: Date: July, 1999. |
| NM | -0.8+0.25 concentrate magnetically separated. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354894

ASSESSMENT

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

NEGATIVE

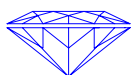
STREAMSED
22.14 kgs
42.7 grams
-1.2+0.25 mm
-

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | Silvery-grey, opaque greasy lustre. |
| APATITE | | | | | |
| BARITE | | | Tr | | White, rounded opaques, granular. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 79% | | Brown, tan, red-brown, dull well rounded, also angular fragments. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | | 20% | | Silvery-black, tabular, subhedra, rounded, high metallic lustre to matt black. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Brown, tan, blue-grey, angular polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Orange with small black inclusions, smooth, glassy. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | 1% | | Black, brown, grey, rare subhedra to well rounded. |

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

| | | | | |
|--|--|--|----|---|
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, pink, broken euhedra, vesicular inclusions, glassy. |
| COMMENTS: -1.2+0.25 concentrate fully observed. | | | | Observed J.D. by: Date: July, 1999 |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354895

ASSESSMENT

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

NEGATIVE

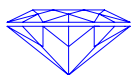
STREAMSED
18.42 kgs
118.4 grams
-1.2+0.25 mm
-

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | Silvery-grey, blue-grey, subhedra, tabular, translucent, opaque with greasy lustre. |
| ANDALUSITE | | | Tr | | Pale pink, blocky, transparent. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Colourless, vitreous with small inclusions. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 95% | | Brown, mustard yellow, red-brown, grey, dull, angular, earthy, grains to well rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 5% | | Black, dull, blocky, tabular, subhedral, some deeply grooved, often more pitted, some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, grey, tan, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | Tr | | Red-brown, caramel, opaque, resinous lustre. |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Orange, subhedral with slight frosting. |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Brown, black, subhedral to well rounded. |

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

| | | | | |
|--|--|--|----|---|
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, orange, translucent, transparent, rounded, ovate. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed J.D. by: -0.8+0.25 concentrate magnetically separated. Date: July, 1999. NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 fully observed. M4/5 -0.8+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354896

ASSESSMENT

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

NEGATIVE

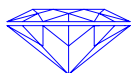
STREAMSED
18.86 kgs
103.7 grams
-1.2+0.25 mm
-

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | Very rare. Yellow subhedra, moderately worn, greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 98% | | Yellow-brown, red-brown, dull, rounded. |
| GARNET | | Tr | Tr | | Very rare. Andradite, yellow, brownish-orange, beige, eu/subhedra, moderately fresh to moderately worn. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 2% | | Silvery-black sub/anhedra, moderately worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, brown, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | Tr | | | Dull, grey, soft, rounded. |
| MONAZITE | | | | | |
| PHOSPHATES | | Tr | Tr | | Very rare. Orange-brown, rounded opaques. |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Very rare. Pale khaki, subangular grains. |
| RUTILE | | | Tr | | Very rare. Silvery-black, rounded anhedra. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| TOURMALINE | | | 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 ½ split) is 2 grains in a ½ split of the +0.25mm fraction

| | | | | |
|------------------|---|----|----|---|
| ZIRCON | | Tr | Tr | Colourless to Fe-stained near spherical grains. |
| COMMENTS: | -1.2+0.8 concentrate fully observed. | | | Observed by: B.G. |
| | -0.8+0.25 concentrate magnetically separated. | | | Date: July, 1999. |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354897

ASSESSMENT

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

NEGATIVE

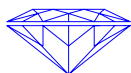
STREAMSED
20.72 kgs
162.4 grams
-1.2+0.25 mm
-

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | | | | |
| APATITE | | | | | |
| BARITE | | | Tr | | White, cream, tabular, rounded, transparent, deeply etched to more frosted, granular. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Brown, red-brown, tan, dull rounded, blocky, earthy fragments. |
| GARNET | | | Tr | | Rare. Andradite, orange-yellow, subhedra, transparent to translucent. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, tabular, subhedral, high metallic lustre to more dull, frosted. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Brown, cream, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PYROXENE | | | Tr | | Pale brown, pale green, elongate, translucent to opaque. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Rare. Orange, angular fragments, transparent. |
| TOURMALINE | | Tr | Tr | | Brown, black, well rounded. |
| XENOTIME | | | | | |
| ZIRCON | | | | | |

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

| | | | | |
|------------------|---|--|--|-----------------------|
| ROCK FRAGMENTS | | | | |
| COMMENTS: | -1.2+0.8 concentrate fully observed. | | | Observed J.D. |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: July, 1999. |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.25 ½ observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354898

ASSESSMENT

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

NEGATIVE

STREAMSED
26.40 kgs
4290.8 grams
-0.8+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 | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Colourless, palest yellow, quite vitreous, well worn, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | | 100% | 67% | | Mid-brown to dark-brown, smooth, polished, pisolitic. |
| GARNET | | Tr | 10% | | Andradite, yellow, orange, mottled to granular in appearance, translucent, mostly anhedral but some are broken euhedra, moderately worn to worn. |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 3% | | Silvery-black, platy, bright, grooved, moderately worn to worn, some grains are more rounded, dull. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | 5% | | After ilmenite, cream to beige, dull, moderately worn to worn. |
| MAGNETITE | | | | | |
| MICA | | | Tr | | Rare, pale to dark-brown, biotite. |
| MN OXIDE | | | Tr | | Soft, grey-black to brownish, worn friable aggregates. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Rare, mid-brown to pale khaki-brown, short black laths, transparent, smooth to jagged. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| TOURMALINE | | Tr | 5% | | Black-brown, black, ovate to near spherical, smooth to pitted and frosted. |
| XENOTIME | | | | | |

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

| | | | | |
|--|--|--|----|--|
| ZIRCON | | | | |
| ROCK FRAGMENTS | | | Tr | Colourless, well worn, transparent, frosted. |
| COMMENTS: -1.2+0.8 concentrate not observed. Observed LF by: Date: Aug 99 -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+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354899

ASSESSMENT

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

NEGATIVE

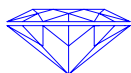
STREAMSED
21.48 kgs
567.2 grams
-1.2+0.25 mm
442

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Lavender blue, pale blue, colourless, well worn, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Mid-brown, yellow-brown, pisolitic. |
| GARNET | | | Tr | | 1+0.25mm, almandine, palest pink, worn, hummocky surface. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Platy, dull, silvery-black, moderately worn to worn, some well worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Dull, cream to beige, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale khaki-brown, transparent, moderately worn laths. |
| RUTILE | | | Tr | | Silvery-black, ovate reworked grains. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | Tr | Tr | | Rare, orange-brown, well worn, translucent. |
| TOURMALINE | | Tr | Tr | | Black-brown, near spherical reworked grains. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Rare, colourless, vitreous, near spherical reworked 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

| | | | | |
|------------------|---|--|--|-------------------|
| ROCK FRAGMENTS | | | | |
| COMMENTS: | -1.2+0.8 concentrate fully observed. | | | Observed LF |
| | -0.8+0.25 concentrate magnetically separated. | | | by: Date: July 99 |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354900

ASSESSMENT

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

NEGATIVE

STREAMSED
19.52 kgs
168.9 grams
-1.2+0.25 mm
442

| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| 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 | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare. Tabular, palest blue, transparent, highly vitreous, worn. |
| EPIDOTE | | Tr | 20% | | Sugary, dull, mottled, orange-brown, yellow, beige, translucent, worn. |
| FE OXIDE/HYDROXIDE | 100% | 100% | 73% | | Ovate to near spherical pisolites, mid-brown to purple-brown, studded with very fine-grained quartz. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 2% | | Worn, platy grains, grooved, silvery-black, moderately worn, dull. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | 5% | | Cream, dull, worn, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | Tr | Tr | | |
| MN OXIDE | | | | | |
| MOISSANITE | | Tr | | | 1+0.4mm, aqua-green, chipped and abraded, transparent, highly vitreous. |
| PHOSPHATES | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki brown, transparent, quite vitreous, moderately fresh, transparent. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown, near spherical to ovate, smooth to frosted. |
| ZIRCON | | | Tr | | Colourless, near spherical, reworked grains. |
| ROCK FRAGMENTS | Tr | | | | |

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: -1.2+0.8 concentrate fully observed.

Observed L.F.

by:

Date: July, 1999.

-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+0.25 fully observed.

M1/2/3 Scalp not observed.



DIATECH

Ph 61 8 9361 2596

Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354901

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

NEGATIVE

STREAMSED

34.32 kgs

227.1 grams

-1.2+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 | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Colourless, palest lavender blue, transparent and highly vitreous, small black inclusions. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 37% | | Mid-brown, well rounded, pisolitic grains. |
| GARNET | | Tr | | | 1+0.4mm almandine, pale pink, irregular, fine hummocky surface. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 60% | | Bright silvery-black, platy, grooved, moderately worn to worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | 1% | | Pale beige, grey, dull, moderately worn, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Soft, dull, friable, grey-black nodules. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Rare. Pale khaki brown laths, transparent, moderately worn. |
| RUTILE | | | Tr | | Rare. Silvery-black, ovate, reworked. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | Tr | | Orange-brown, well worn, frosted, translucent. |
| SULPHIDES | | | | | |
| TOURMALINE | Tr | Tr | 2% | | Black-brown, well worn reworked grains, ovate to near spherical, smooth to frosted. |

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

| | | | | |
|---|---------------------------|--|----|--|
| ZIRCON | | | Tr | Colourless, orange, yellow, ovate to near spherical reworked grains. |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed by: L.F. |
| -0.8+0.25 concentrate magnetically separated. | | | | Date: July, 1999. |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354902

ASSESSMENT

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

NEGATIVE

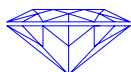
STREAMSED
19.56 kgs
190.0 grams
-1.2+0.25 mm
-

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

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

| | % | % | % | | |
|-----------------------|------|------|-------|----|--|
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| AMPHIBOLE | | | | | |
| ANATASE | | | Tr | | Rare. Pale grey-blue, translucent, well worn. |
| APATITE | | | | | |
| BARITE | | Tr | Tr | | Cream, rounded aggregates, opaque, worn. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Pisolitic, moderately brown to yellow-brown, smooth, polished. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Platy, silvery-black, some are well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | | | | |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki brown, jagged laths, transparent, moderately fresh. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | Tr | Tr | Tr | | Black-brown, well rounded, reworked. |
| XENOTIME | | | | | |
| ZIRCON | | | Tr | | Rare. Colourless, well worn, reworked. |

| | | | |
|------------------|---|----------|-------------------|
| COMMENTS: | -1.2+0.8 concentrate fully observed. | Observed | L.F. |
| | -0.8+0.25 concentrate magnetically separated. | by: | Date: July, 1999. |
| NM | -0.8+0.25 fully observed. | | |
| M6/7 | -0.8+0.25 fully observed. | | |
| M4/5 | -0.8+0.25 fully observed. | | |
| M1/2/3 | Scalp not observed. | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354903

ASSESSMENT

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

NEGATIVE

STREAMSED
18.62 kgs
737.7 grams
-1.2+0.25 mm
442

| 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 | | Dark-blue, ice-blue, silvery-grey, moderately worn to worn, translucent, greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 10% | 20% | | Brown, red-brown, grey, tan, pisolitic, smooth to irregular. |
| GARNET | | Tr | 60% | | Andradite, brownish-yellow, beige, grey, black, colourless, green, mottled to granular in appearance, many are also transparent, mostly anhedral, but also many euhedra and broken euhedra, moderately worn to well worn. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 20% | | Silvery-black, tabular subhedra, also some more rounded grains. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Cream, grey, polished, opaque. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PYROXENE | | Tr | Tr | | Khaki-brown, palest green, jagged to smooth blocky laths, translucent to transparent. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| STAUROLITE | | | | | |
| TOURMALINE | | Tr | Tr | | Black, brown, black-brown, pale orange, well rounded reworked grains, rare more fresh subhedra. |
| XENOTIME | | | | | |

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

| | | | | |
|---|-----------|-----------------|-------------------------|---|
| ZIRCON | | | Tr | Orange, colourless, yellow, Fe stained, well rounded reworked grains. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed JD |
| | | | | by: Date: Aug 99 |
| NM | -0.8+0.25 | concentrate | magnetically separated. | |
| M6/7 | -0.8+0.25 | fully observed. | | |
| M4/5 | -0.8+0.25 | 1/4 observed. | | |
| M1/2/3 | -0.8+0.25 | fully observed. | | |
| | Scalp | not observed. | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354904

ASSESSMENT

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

NEGATIVE

STREAMSED
26.28 kgs
588.0 grams
-1.2+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-blue, opaque, moderately worn. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Blue, colourless/blue banded, colourless, subhedral to more rounded, vitreous, transparent, some with small black inclusions. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 20% | | Brown, red-brown, dull, earthy, mostly pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 79% | | Black, subhedral, rounded, angular, platy, metallic lustre to quite dull. |
| KYANITE | | | Tr | | Blue, tabular, good cleavage. |
| LEUCOXENE | | | Tr | | Grey, beige, polished opaques. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | Tr | | Red-brown, rounded, resinous opaques. |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale brown, transparent, jagged laths. |
| RUTILE | | Tr | | | Black, cherry red, opaque, well rounded, reworked grains. |
| SPHENE | | | | | |
| SPINEL | | | | | |
| TOURMALINE | Tr | Tr | 1% | | Brown, blue, green, rare subhedra to well rounded. |

| | | | | |
|---|---|--|----|--|
| XENOTIME | | | | |
| ZIRCON | | | Tr | Orange, colourless, pale yellow, plum red, brown, ovate to well rounded, very rare subhedra. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed J.D. by: Date: July, 1999. |
| | -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+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354905

ASSESSMENT

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

NEGATIVE

STREAMSED
24.52 kgs
1051.5 grams
-0.8+0.25 mm
-

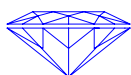
| | % | % | % | | |
|---------------------|------|------|-------|----|--------------------------|
| KEY MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE | | | | | |
| 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 | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|------|-------|----|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | Tr | | Dark black-green, fresh tabular laths, glassy with fine striations. |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | | 5% | 10% | | Pisolitic, mid-brown, smooth and polished to quite dull. |
| GARNET | | Tr | 3% | | Andradite, orange, yellow, translucent to transparent, mostly well worn to worn. |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 20% | | Silvery-black, platy to blocky, moderately worn to well worn. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Yellow-beige, after ilmenite, dull, worn. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | Tr | Tr | | Soft grey-black nodules. |
| MONAZITE | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | 15% | 67% | | Pale khaki-brown, mid-brown, rarely dark-brown or pale brownish green, moderately fresh laths, smooth to jagged, transparent. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |

| | | | | |
|--|--|-----|----|---|
| TOURMALINE | | Tr | Tr | Black-brown, black, near spherical to ovate, well worn. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, well worn reworked grains, vitreous, transparent. |
| ROCK FRAGMENTS | | 80% | Tr | Granular, mostly pyroxene aggregates, moderately fresh. |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed LF by: Date: Aug 99 -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 1/8 th observed. M4/5 -0.8+0.4 fully observed, -0.4+0.25 ¼ observed M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354906

ASSESSMENT

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

NEGATIVE

STREAMSED
23.40 kgs
112.5 grams
-1.2+0.25 mm
-

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|-----------------------|------|------|-------|-----------|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Lavender-blue, colourless, well worn vitreous fragments, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 98% | 33% | | Yellow-brown pisolites, smooth, polished. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 35% | | Silvery-black, mostly platy, worn, some partly leucogenised. |
| KYANITE | | | Tr | | Rare. Colourless but Fe-stained, bladed, worn. |
| LEUCOXENE | | Tr | 2% | | Beige, cream, grey-green, polished to dull, mostly after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | Tr | 2% | | Soft grey-black nodules. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | Tr | Tr | Tr | | Rare. Pale khaki brown, moderately fresh laths, transparent. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |

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 | | Tr | Tr | Rare. Dark orange-brown, well worn reworked grains, translucent to transparent, small black inclusions. |
| TOURMALINE | | 2% | 28% | Abundance of ovate to near spherical grains, black-brown. |
| ZIRCON | | | Tr | Colourless, well worn reworked grains. |
| ROCK FRAGMENTS | Tr | Tr | Tr | Pyroxene aggregates, pale khaki brown, moderately fresh. |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed L.F. by: Date: July, 1999 -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+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354907

ASSESSMENT

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

NEGATIVE

STREAMSED
25.06 kgs
70.7 grams
-1.2+0.25 mm
442

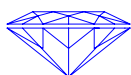
| KEY MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|---------------------|------|------|-------|-----------|--------------------------|
| | +0.8 | +0.4 | +0.25 | | |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| 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. Pale grey-blue, moderately worn subhedra. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Colourless, well worn, transparent, vitreous. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 95% | 25% | | Mustard yellow pisolites. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Rare. resinous, red-brown, smooth, worn. |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 40% | | Numerous silvery-black grains, platy to well rounded, some partly leucoxenised. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, blue-grey, after ilmenite, some well worn. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Dull soft grey-black nodules. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Rare. Pale khaki brown jagged laths, moderately worn. |
| RUTILE | | | Tr | | Rare. Dark cherry red to silvery-black, well rounded reworked grains. |
| SPHENE | | | | | |
| SPINEL | | | | | |

| | | | | |
|--|----|----|-----|---|
| STAUROLITE | | | | |
| SULPHIDES | | | | |
| TOURMALINE | Tr | 5% | 35% | Near spherical reworked grains, black-brown. |
| ZIRCON | | Tr | Tr | Near spherical reworked grains, colourless, Fe-stained. |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed L.F. by: -0.8+0.25 concentrate magnetically separated. Date: July, 1999. NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 fully observed. M4/5 -0.8+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354908

ASSESSMENT

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

NEGATIVE

STREAMSED
23.80 kgs
420.8 grams
-0.8+0.25 mm
442

| 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 | | Rare. Pale sky blue, moderately worn to worn broken subhedra, strong greasy lustre, translucent. |
| ANDALUSITE | | | Tr | | Rare. Palest peach-pink, smooth, worn, transparent. |
| BARITE | | Tr | Tr | | Creamy, white, opaque, numerous rounded sugary aggregates. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare. Pale lavender blue, colourless, worn, transparent, highly vitreous. |
| EPIDOTE | | | Tr | | Yellow, translucent, moderately worn. |
| FE OXIDE/HYDROXIDE | | 100% | 17% | | Mid-brown to yellow-brown pisolites, dull. |
| GARNET | | Tr | | | 1+0.4, almandine, palest pink, well worn, frosted. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 80% | | Abundance of platy silvery-black grains, moderately worn, some are well worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Cream, beige, grey, grey-blue, generally dull, some are more polished, worn, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki brown laths, transparent, moderately fresh. |
| RUTILE | | | Tr | | Rare. Dark cherry red to silvery-black. |
| SPINEL | | | | | |

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 | | | Tr | Well worn grains, orange-brown, frosted, some have small black inclusions. |
| TOURMALINE | | Tr | 3% | Black-brown, near spherical reworked grains. |
| ZIRCON | | | Tr | Colourless, Fe-stained, yellow and orange, mottled, ovate to near spherical reworked grains. |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed L.F. by: Date: July, 1999 |
| | -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+0.25 fully observed, -0.4+0.25 1/8 obs. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354909

ASSESSMENT

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

NEGATIVE

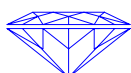
STREAMSED
22.56 kgs
136.0 grams
-1.2+0.25 mm
442

| 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 | | Rare. Yellow-blue, tabular subhedra, translucent with a strong greasy lustre, moderately worn. |
| ANDALUSITE | | | Tr | | 1+0.25, palest peach-pink, tabular, well worn, transparent, smooth. |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | Tr | | Rare. Pale yellow, quite vitreous, worn, chipped. |
| FE OXIDE/HYDROXIDE | 100% | 100% | 70% | | Mid-brown, dull pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | | 20% | | Platy, grooved, silvery-black, moderately worn, some are well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, tan, worn to well worn, dull, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Soft, friable, dark grey-black, worn. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki brown, jagged blocky laths, saw-tooth edges on some, but moderately worn, frosted to transparent. |
| RUTILE | | | | | |
| 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

| | | | | |
|---|---|----|-----|---|
| STAUROLITE | | | Tr | Rare. Dark orange-brown, well worn, translucent to more granular, some have small black inclusions. |
| TOURMALINE | | Tr | 10% | Black-brown, near spherical, reworked. |
| ZIRCON | | | Tr | Rare. Colourless, mottled, orange, Fe-stained, near spherical reworked grains. |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed L.F. by: Date: July, 1999. |
| | -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+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354910

ASSESSMENT

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

NEGATIVE

STREAMSED
25.54 kgs
566.2 grams
-1.2+0.25 mm
-

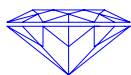
| KEY MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|-------------------|
| | +0.8 | +0.4 | +0.25 | | |
| DIAMOND | | | | | |
| PYROPE | | | | | |
| CHROMITE/CR SPINEL | | | | | |
| CHROME DIOPSIDE | | | | | |
| PICROILMENITE | | | | | |
| PHLOGOPITE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

% % %

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 65% | 80% | 15% | | Red-brown, grey, tan, dull, well rounded. |
| GARNET | | | Tr | | Andradite, bright orange-yellow, rounded, smooth to frosted, worn to well worn. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 20% | | Silvery-black tabular subhedra, angular to blocky, bright metallic lustre to quite dull and frosted. |
| KYANITE | | | | | |
| LEUCOXENE | | | | | |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | Tr | Tr | | Grey-black, dull, well rounded opaques. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | Tr | Tr | 50% | | Pale brown, pale green, greenish brown, mid-brown, elongate jagged laths to more rounded finely pitted grains, some striate. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| TOURMALINE | Tr | Tr | Tr | | Brown, black, well rounded, reworked. |

| | | | | |
|---|-----|-----|-----|---|
| XENOTIME | | | | |
| ZIRCON | | | Tr | Rare, orange, rounded, smooth translucent grains. |
| ROCK FRAGMENTS | 35% | 20% | 15% | Pyroxene aggregates. |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed JD by: Date: Aug 99 -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 1/8 th observed. M4/5 -0.8+0.4 ½ observed, -0.4+0.25 1/8 th observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354911

ASSESSMENT

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

NEGATIVE

STREAMSED
26.10 kgs
3.7 grams
-1.2+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 | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | | | | | |
| GARNET | 50% | 10% | Tr | | Yellow-brown, red-brown, pisolitic, studded with fine quartz grains. |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Dark red-brown, smooth, resinous, well worn. |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 70% | | Silvery-black, platy, moderately worn to well worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | 5% | | After ilmenite, beige, cream. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Grey-black, soft dull nodules. |
| MONAZITE | | | Tr | | Pale yellow, orange, well worn reworked grains, resinous. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Rare. Pale khaki brown laths, moderately fresh. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | 50% | 90% | 15% | | Numerous ovate to near spherical grains, smooth, reworked. |

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

| | | | | |
|--|--|----|-----|---|
| XENOTIME | | | | |
| ZIRCON | | Tr | 10% | Colourless, yellow, orange, orange-red, ovate to near spherical, well worn, reworked. |
| COMMENTS: -1.2+0.25 concentrate fully observed. | | | | Observed by: L.F. Date: July, 1999. |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354912

ASSESSMENT

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

NEGATIVE

STREAMSED
20.34 kgs
304.9 grams
-1.2+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 | | Tr | Tr | | White to creamy-white, globular, opaque. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Very rare, palest watery blue, small black inclusions, transparent, worn. |
| EPIDOTE | | | Tr | | Pale yellow to palest greenish-yellow, anhedral, rounded. |
| FE OXIDE/HYDROXIDE | 100% | 100% | Tr | | Yellow-brown, red-brown, grey-black, dull, well rounded. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 100% | | Abundant silvery-black grains, bright sub/anhedra, some quite platy, moderately worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | Tr | | | Very rare, orange, rounded, sub-resinous opaques |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki-brown, subangular to more jagged and lath-like, moderately fresh to moderately worn. |
| RUTILE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | Tr | Tr | | Very rare, dull orange-brown, well rounded anhedral, translucent. |
| TOURMALINE | | Tr | Tr | | Black-brown, near spherical grains, reworked. |

| | | | | |
|---|---|----|----|--|
| XENOTIME | | | | |
| ZIRCON | | Tr | Tr | Pale orange, orange-brown, colourless, yellow, generally near spherical, reworked. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed BG |
| | | | | by: Date: July 99 |
| | -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 observed, -0.4+0.25 1/32 observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354913

ASSESSMENT

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

NEGATIVE

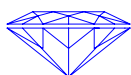
STREAMSED
26.00 kgs
18.2 grams
-1.2+0.25 mm
-

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

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

| | % | % | % | | |
|-----------------------|------|------|-------|----|---|
| OTHER MINERALS | +0.8 | +0.4 | +0.25 | mm | BRIEF DESCRIPTION |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare. Lavender blue, colourless, well worn, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 99% | 30% | 15% | | Dull red-brown, yellow-brown, earthy, irregular, the larger grains are pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | Tr | Tr | | Dark red-brown, resinous, smooth, well worn. |
| HAEMATITE | | | | | |
| ILMENITE | | 5% | 65% | | Silvery-black, tabular, platy, some are well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | Beige, cream, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Rare. Pale khaki brown, jagged laths. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |

| | | | | |
|---|---|-----|-----|--|
| TOURMALINE | 1% | 65% | 20% | Black-brown, near spherical reworked grains. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, yellow, orange, red-brown, Fe-stained. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. | | | | Observed L.F. |
| | | | | by: |
| | | | | Date: July, 1999. |
| NM | -0.8+0.25 concentrate magnetically separated. | | | |
| M6/7 | -0.8+0.25 fully observed. | | | |
| M4/5 | -0.8+0.25 fully observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354914

ASSESSMENT

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

NEGATIVE

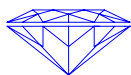
STREAMSED
26.88 kgs
268.3 grams
-1.2+0.25 mm
-

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|---|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | Tr | | Very rare, rounded, crystalline, opaque. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 90% | | Red-brown, grey-black, yellow-brown, sub-angular to quite rounded, dull, larger grains are pisolitic. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 10% | | Silvery-black, some are quite platy, generally subhedral to more rounded, moderately worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, grey, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | Tr | | | | Very rare, orange-brown, rounded, polished, opaque. |
| PREHNITE | | | | | |
| PYROXENE | | | | | |
| RUTILE | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |
| TOURMALINE | | Tr | Tr | | Black-brown, near spherical 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

| | | | | |
|---|--|--|----|---|
| XENOTIME | | | | |
| ZIRCON | | | Tr | Very rare, reddish brown, colourless near spherical grains. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed BG by: Date: July 99 -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+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354915

ASSESSMENT

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

NEGATIVE

STREAMSED
28.24 kgs
901.5 grams
-0.8+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 | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Rare, palest blue, tabular, vitreous, well worn, transparent. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | | 100% | 48% | | Red-brown, yellow-brown, mid-brown, smooth pisolitic grains, polished. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 50% | | Mostly platy bright silvery-black grains, others are more rounded, worn. |
| KYANITE | | | | | |
| LEUCOXENE | | | Tr | | After ilmenite; beige, cream, moderately worn to worn. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | Tr | Tr | | Soft, friable, grey-black. |
| MONAZITE | | | | | |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | Tr | | Pale khaki-brown, blocky laths, transparent, moderately worn. |
| RUTILE | | | Tr | | Silvery-black, strong semi-metallic lustre, well worn ovate to near spherical grains. |
| SPHENE | | | | | |
| TOURMALINE | | Tr | 2% | | Black-brown, black, near spherical to ovate, smooth, reworked, some are broken. |

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

| | | | | |
|---|--|----|----|--|
| XENOTIME | | | | |
| ZIRCON | | Tr | Tr | Colourless, palest pink, some are Fe stained, ovate to near spherical, reworked, vitreous, smooth. |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate not observed. | | | | Observed LF |
| | | | | by: Date: Aug 99 |
| | -0.8+0.25 concentrate magnetically separated. | | | |
| NM | -0.8+0.25 fully observed. | | | |
| M6/7 | -0.8+0.4 fully observed, -0.4+0.25 ¼ observed. | | | |
| M4/5 | -0.8+0.4 fully observed, -0.4+0.25 ¼ observed. | | | |
| M1/2/3 | Scalp not observed. | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354916

ASSESSMENT

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

NEGATIVE

STREAMSED
28.02 kgs
69.9 grams
-1.2+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 | | Tr | | | Rare. Brownish-grey, fibrous, square tabular grain, dull, moderately worn. |
| ANATASE | | | Tr | | Rare. Pale blue-grey, blue, pearly grey, moderately worn subhedra. |
| APATITE | | | | | |
| BARITE | Tr | Tr | Tr | | Creamy-white, finely granular aggregates. |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 97% | 50% | 14% | | Red-brown, yellow-brown, polished smooth worn grains. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, platy, some are well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Grey, tan, beige, polished and worn, opaque. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | Tr | Tr | | Near spherical, creamy-orange, resinous sheen, opaque. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | Tr | | | Rare. Pale khaki brown, transparent, irregular, moderately worn. |
| RUTILE | | | Tr | | Rare. Silvery-black, well worn reworked grains. |
| SPHENE | | | | | |
| SPINEL | | | | | |

| | | | | |
|--|----|-----|-----|---|
| STAUROLITE | | | Tr | Pale orange-brown, well worn, translucent. |
| SULPHIDES | | | | |
| TOURMALINE | 3% | 50% | 78% | Black-brown, near spherical reworked grains, rare grains are moderately fresh, prismatic. |
| ZIRCON | | Tr | 8% | Colourless, yellow, orange, red, near spherical reworked grains. |
| COMMENTS: -1.2+0.8 concentrate 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+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |
| | | | | Observed L.F. by: Date: July, 1999. |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354917

ASSESSMENT

Type of sample

Head Weight

Conc Weight -1.2+0.25mm

Size fractions observed

Disc No

NEGATIVE

STREAMSED

32.66

kgs

1610.1

grams

-0.8+0.25

mm

-

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

| OTHER MINERALS | % | % | % | mm | BRIEF DESCRIPTION |
|--------------------|------|------|-------|----|--|
| | +0.8 | +0.4 | +0.25 | | |
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | Tr | | Colourless, very pale lavender blue, well worn, transparent, vitreous. |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | | 100% | 83% | | Mid-brown, pisolitic, smooth. |
| GARNET | | | Tr | | Rare, andradite, bright yellow, moderately worn anhedral, transparent, glassy. |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 15% | | Platy, bright silvery-black, grooved, moderately worn. |
| KYANITE | | | Tr | | Rare, colourless, tabular bladed crystals, worn. |
| LEUCOXENE | | Tr | Tr | | Grey, beige, cream, smooth, dull to quite polished, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | Tr | 2% | | Soft, grey-black nodules, friable. |
| MONAZITE | | | Tr | | Beige, resinous, near spherical, smooth, subtranslucent. |
| PYROXENE | | Tr | Tr | | Pale khaki-brown, mid-brown, quite fibrous, translucent, moderately worn. |
| RUTILE | | | Tr | | Dark cherry-red, blocky but worn, strong semi-metallic lustre. |
| STAUROLITE | | | Tr | | Rare, dark honey-brown, orange-brown, well worn, anhedral, transparent. |

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

| | | | | |
|---|--|----|----|---|
| SULPHIDES | | | | |
| TOURMALINE | | Tr | Tr | Black-brown, black, ovate to near spherical, smooth, reworked. |
| ZIRCON | | Tr | Tr | Colourless, yellow, orange, Fe stained, rarely red-brown, pink. |
| ROCK FRAGMENTS | | Tr | Tr | Pyroxene aggregates, moderately worn. |
| COMMENTS: -1.2+0.8 concentrate not observed. Observed LF by: Date: Aug 99 -0.8+0.25 concentrate magnetically separated. NM -0.8+0.25 fully observed. M6/7 -0.8+0.25 1/4 observed. M4/5 -0.8+0.4 fully observed, -0.4+0.25 ¼ observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354918

ASSESSMENT

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

NEGATIVE

STREAMSED
53.38 kgs
37.5 grams
-1.2+0.25 mm
442

| 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, yellow, moderately worn to worn subhedra, translucent, greasy lustre. |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 27% | | Mustard yellow, red-brown, pisolitic to dull and earthy, rare pseudomorphs after pyrite. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | Tr | | Red-brown, well worn, smooth, resinous. |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | 63% | | Silvery-black, platy to well rounded. |
| KYANITE | | | | | |
| LEUCOXENE | | | 2% | | Cream, beige, grey, polished and rounded opaque grains, smooth, others are more dull. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | Tr | | Dull grey-black, soft nodules. |
| MONAZITE | | | Tr | | Pale yellow, orange, well worn resinous grains. |
| PHOSPHATES | | | | | |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Pale khaki brown laths, jagged, transparent. |
| RUTILE | | | | | |
| SPHENE | | | Tr | | Palest yellow, translucent, moderately worn tabular subhedra. |
| SPINEL | | | | | |

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 | | | Tr | Well worn, reworked, dark orange-brown, small black inclusions. |
| TOURMALINE | | Tr | 8% | Well rounded reworked grains, black, black-brown. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Colourless, orange, yellow, well worn, reworked grains. |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed L.F. by: Date: July, 1999. -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+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |



DIATECH
Ph 61 8 9361 2596
Fx 61 8 9470 1504

File: 99-018.doc

HEAVY MINERAL ANALYSIS SHEET

SAMPLE NO

354919

ASSESSMENT

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

NEGATIVE

STREAMSED
38.46 kgs
667.0 grams
-1.2+0.25 mm
-

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

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

| OTHER MINERALS | % +0.8 | % +0.4 | % +0.25 | mm | BRIEF DESCRIPTION |
|-----------------------|-----------|-----------|------------|-----------|---|
| AMPHIBOLE | | | | | |
| ANATASE | | | | | |
| APATITE | | | | | |
| BARITE | | | | | |
| CALCITE | | | | | |
| CASSITERITE | | | | | |
| CORUNDUM | | | | | |
| EPIDOTE | | | | | |
| FE OXIDE/HYDROXIDE | 100% | 100% | 100% | | Yellow-brown, red-brown, nodular to well rounded, dull. |
| GARNET | | | | | |
| GOLD | | | | | |
| GORCEIXITE | | | | | |
| HAEMATITE | | | | | |
| ILMENITE | | Tr | Tr | | Silvery-black, bright, sub/anhedra, moderately worn. |
| KYANITE | | | | | |
| LEUCOXENE | | Tr | Tr | | Beige, dull, after ilmenite. |
| MAGNETITE | | | | | |
| MICA | | | | | |
| MN OXIDE | | | | | |
| MONAZITE | | | | | |
| PHOSPHATES | | | Tr | | Very rare, orange-brown, smooth, polished opaque. |
| PREHNITE | | | | | |
| PYROXENE | | | Tr | | Very rare, khaki-yellow, lath-like, moderately fresh. |
| RUTILE | | | | | |
| SPHENE | | | | | |
| SPINEL | | | | | |
| STAUROLITE | | | | | |
| SULPHIDES | | | | | |

| | | | | |
|--|--|----|----|---|
| TOURMALINE | | Tr | Tr | Black-brown, near spherical grains. |
| XENOTIME | | | | |
| ZIRCON | | | Tr | Orange-brown, colourless, near spherical, reworked. |
| | | | | |
| | | | | |
| ROCK FRAGMENTS | | | | |
| COMMENTS: -1.2+0.8 concentrate fully observed. Observed BG by: Date: July 99 -0.8+0.25 concentrate magnetically separated. -0.8+0.25 fully observed. NM -0.8+0.25 1/4 observed. M6/7 -0.8+0.25 fully observed. M4/5 -0.8+0.25 fully observed. M1/2/3 Scalp not observed. | | | | |