

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS
Rosebery

Prospect: NRL
North Lake Rosebery

Northing: 5378392.8 mN
Easting: 379741.8 mE
RL: 386.5 mRL
CoordSys: MGA55 (GDA94)

Dip: -87.00
MAG_Azim: 66.00
Total Depth: 1573.2 m
DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
0															
10															
20															
30															
40															
50															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⊖ Vein quartz ⊖ Vein Carbonate ⊖ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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50															
60															
70															
80															
90															
100															

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100															
110															
120															
130															
140															
150															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ■ Hyaloclastite Breccia ▲ Pyroclastic Breccia ■ Vein quartz ■ Vein Carbonate ■ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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150															
160															
170															
180															
190															
200															

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200															
210															
220															
230															
240															
250															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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250															
260															
270															
280															
290															
300															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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300															
310															
320															
330															
340															
350															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
▲ Quartz Carbonate Vein	■ Slate	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone		

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350															
360															
370															
380															
390															
400															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
▲ Quartz Carbonate Vein	■ Slate	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone		

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400															
410															
420															
430															
440															
450															

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450															
460															
470															
480															
490															
500															

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500															
510															
520															
530															
540															
550															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ▲ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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550															
560															
570															
580															
590															
600	MBV	GRY	VDA	Extrusv	mas		si	Wedging off, full core from 600.6m							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▲ Felsic Flow ▲ Feldspathic porphyry ▲ Mafic Dyke ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Schist ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Disseminated Sulphides ▲ Quartz ▲ Limestone ▲ Dolomite ▲ Shale ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ▲ Intermediate flow ▲ Intermediate Volcaniclastic ▲ Lapilli Tuff ▲ Lithic Tuff ▲ Rhyolite ▲ Rhyolite Breccia ▲ Tuff Siltstone 	<ul style="list-style-type: none"> ▲ Undifferentiated Volcaniclastic ▲ Volcanic Breccia ▲ Volcanic Conglomerate ▲ Lapilli Tuff ▲ Volcanic Sandstone ▲ Volcanic Siltstone ▲ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▲ Background ▲ Elevated ▲ Anomalous ▲ Strongly Anomalous ▲ Sub-Grade
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600	MBV	GRY	VDA	Extrusv	mas	fph	si	Wedging off, full core from 600.6m							
	MBV	GRY	VDA	Extrusv	mas	fph	si si cb	Generally massive, feldspar phyric dacite lava. Some smaller intervals of autoclastic textures.							
610															
620															
630															
640															
650															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert 	<ul style="list-style-type: none"> ▬ Interbedded sandstone/siltstone ▬ Andesite ▬ Crystal Tuff ▬ Dacite ▬ Dacite Lapilli Tuff ▬ Felsic tuff ▬ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade
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650	MBV	GRY	VDA	▲▲▲▲	Extrusv	mas	fph	si cb	Generally massive, feldspar phyric dacite lava. Some smaller intervals of autoclastic textures.						
660															
670															
680	MBV	GRY	VAN	▲▲▲▲	Extrusv	mas		ch cb	Fine grained and massive intermediate lava (andesite?). Some smaller intervals of sandstone and occasional cross cutting dykes.						
690															
700															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Undifferentiated Volcaniclastic
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Volcanic Breccia
▲ Hyaloclastic Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Volcanic Conglomerate
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia
▲ Quartz Carbonate Vein	■ Slate	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone

Mineralisation	
■	Background
■	Elevated
■	Anomalous
■	Strongly Anomalous
■	Sub-Grade

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VAN	▲▲▲▲▲	Extrusv	mas		ch cb	Fine grained and massive intermediate lava (andesite?). Some smaller intervals of sandstone and occasional cross cutting dykes.							
MBV	GRY	VBX	▽▽▽	VolClas	brc		cb si	Dacite volcanoclastic breccia, predominantly autoclastic.							

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Undifferentiated Volcanoclastic	■ Background
■ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Volcanic Breccia	■ Elevated
■ Hyaloclastic Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Volcanic Conglomerate	■ Anomalous
■ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Strongly Anomalous
■ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Sub-Grade
■ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	
■ Quartz Carbonate Vein	■ Slate	■ Shale	■ Felsic Volcanoclastic Tuff Siltstone	■ Tuff Siltstone	
		■ Not logged			

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VBX	VolClas	brc		cb si		Dacite volcanoclastic breccia, predominantly autoclastic.							
MBV	GRY	VDA	VolClas	mas		cb ab		Predominantly dacite to rhyolite lavas, dacite to rhyolite clast dominant mass flows with occasional cross cutting mafic dykes.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⊖ Vein quartz ⊖ Vein Carbonate ⊖ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▲ Felsic Flow ▲ Feldspathic porphyry ▲ Mafic Dyke ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Schist ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Disseminated Sulphides ▲ Quartz ▲ Limestone ▲ Dolomite ▲ Shale ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcanoclastic Tuff 	<ul style="list-style-type: none"> ▲ Intermediate flow ▲ Intermediate Volcanoclastic ▲ Lapilli Tuff ▲ Lithic Tuff ▲ Rhyolite ▲ Rhyolite Breccia ▲ Tuff Siltstone 	<ul style="list-style-type: none"> ▲ Undifferentiated Volcanoclastic ▲ Volcanic Breccia ▲ Volcanic Conglomerate ▲ Volcanic Sandstone ▲ Volcanic Siltstone ▲ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▲ Background ▲ Elevated ▲ Anomalous ▲ Strongly Anomalous ▲ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VDA	VolClas	mas		cb ab		Predominantly dacite to rhyolite lavas, dacite to rhyolite clast dominant mass flows with occasional cross cutting mafic dykes.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▲ Felsic Flow ▲ Feldspathic porphyry ▲ Mafic Dyke ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Schist ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Disseminated Sulphides ▲ Quartz ▲ Limestone ▲ Dolomite ▲ Shale ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ▲ Intermediate flow ▲ Intermediate Volcaniclastic ▲ Lapilli Tuff ▲ Lithic Tuff ▲ Rhyolite ▲ Rhyolite Breccia ▲ Tuff Siltstone 	<ul style="list-style-type: none"> ▲ Undifferentiated Volcaniclastic ▲ Volcanic Breccia ▲ Volcanic Conglomerate ▲ Volcanic Sandstone ▲ Volcanic Siltstone ▲ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▲ Background ▲ Elevated ▲ Anomalous ▲ Strongly Anomalous ▲ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VDA	VolClas	mas		cb ab		Predominantly dacite to rhyolite lavas, dacite to rhyolite clast dominant mass flows with occasional cross cutting mafic dykes.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▲ Felsic Flow ▲ Feldspathic porphyry ▲ Mafic Dyke ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Schist ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Disseminated Sulphides ▲ Quartz ▲ Limestone ▲ Dolomite ▲ Shale ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ▲ Intermediate flow ▲ Intermediate Volcaniclastic ▲ Lapilli Tuff ▲ Lithic Tuff ▲ Rhyolite ▲ Rhyolite Breccia ▲ Tuff Siltstone 	<ul style="list-style-type: none"> ▲ Undifferentiated Volcaniclastic ▲ Volcanic Breccia ▲ Volcanic Conglomerate ▲ Volcanic Sandstone ▲ Volcanic Siltstone ▲ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▲ Background ▲ Elevated ▲ Anomalous ▲ Strongly Anomalous ▲ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VDA	VolClas	mas		cb ab		Predominantly dacite to rhyolite lavas, dacite to rhyolite clast dominant mass flows with occasional cross cutting mafic dykes.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⊖ Vein quartz ⊖ Vein Carbonate ⊖ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▲ Felsic Flow ▲ Feldspathic porphyry ▲ Mafic Dyke ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Schist ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Disseminated Sulphides ▲ Quartz ▲ Limestone ▲ Dolomite ▲ Shale ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ▲ Intermediate flow ▲ Intermediate Volcaniclastic ▲ Lapilli Tuff ▲ Lithic Tuff ▲ Rhyolite ▲ Rhyolite Breccia ▲ Tuff Siltstone 	<ul style="list-style-type: none"> ▲ Undifferentiated Volcaniclastic ▲ Volcanic Breccia ▲ Volcanic Conglomerate ▲ Volcanic Sandstone ▲ Volcanic Siltstone ▲ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▲ Background ▲ Elevated ▲ Anomalous ▲ Strongly Anomalous ▲ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VDA	VolClas	mas		cb ab		Predominantly dacite to rhyolite lavas, dacite to rhyolite clast dominant mass flows with occasional cross cutting mafic dykes.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⊖ Vein quartz ⊖ Vein Carbonate ⊖ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▲ Felsic Flow ▲ Feldspathic porphyry ▲ Mafic Dyke ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Schist ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Disseminated Sulphides ▲ Quartz ▲ Limestone ▲ Dolomite ▲ Shale ▲ Siltstone ▲ Gneiss 	<ul style="list-style-type: none"> ▲ Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ▲ Intermediate flow ▲ Intermediate Volcaniclastic ▲ Lapilli Tuff ▲ Lithic Tuff ▲ Rhyolite ▲ Rhyolite Breccia ▲ Tuff Siltstone 	<ul style="list-style-type: none"> ▲ Undifferentiated Volcaniclastic ▲ Volcanic Breccia ▲ Volcanic Conglomerate ▲ Volcanic Sandstone ▲ Volcanic Siltstone ▲ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▲ Background ▲ Elevated ▲ Anomalous ▲ Strongly Anomalous ▲ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VDA	VolClas	mas		cb ab		Predominantly dacite to rhyolite lavas, dacite to rhyolite clast dominant mass flows with occasional cross cutting mafic dykes.	D1395968	0.0	0.0	0.0	0.06		1.7
									D1395969	0.0	0.0	0.0	0.11		4.2
									D1395970	0.0	0.0	0.0	0.18		2.3
									D1395971	0.0	0.0	0.0	0.18		3.5
									D1395972	0.0	0.0	0.0	0.24		2.3

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert 	<ul style="list-style-type: none"> ▬ Interbedded sandstone/siltstone ▬ Andesite ▬ Crystal Tuff ▬ Dacite ▬ Dacite Lapilli Tuff ▬ Felsic tuff ▬ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Giltstone 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
MBV	GRY	VDA	VolClas	mas		cb ab		Predominantly dacite to rhyolite lavas, dacite to rhyolite clast dominant mass flows with occasional cross cutting mafic dykes.	D1395973	0.0	0.0	0.1	0.27		2.6
									D1395974	0.0	0.0	0.0	0.09		3.5
									D1395975	0.0	0.0	0.0	0.08		3.1
									D1395976	0.0	0.0	0.0	0.04		11.2
F	GRY-BUF	FTZ		brc	fol	cb se		Mt Black Fault occurs within this interval. Competent but foliated and strong Cb-Se altered rock.	D1395977	0.0	0.0	0.0	0.09		3.3
HW	GRY-BUF	VBX		brc	qph	cb se		Qz crystal rich volcaniclastic breccia. Still effected by the above fault, however, the Qz crystals are distinct, typically sub-rounded and 1-3mm.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert 	<ul style="list-style-type: none"> ▬ Interbedded sandstone/siltstone ▬ Andesite ▬ Crystal Tuff ▬ Dacite ▬ Dacite Lapilli Tuff ▬ Felsic tuff ▬ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
1250	HW	GRY-BUF	VBX		brc	qph	cb se	Qz crystal rich volcaniclastic breccia. Still effected by the above fault, however, the Qz crystals are distinct, typically sub-rounded and 1-3mm.	D1395978	0.1	0.1	0.0	1.84		2.8
	HW	GRY-GRN	VBX		brc	fia qph	cb ch	Pale green to grey, variably Cl-Cb altered Qz crystal bearing volcaniclastic breccia. Unit appears to start with a fine siltstone top @ 1252.5m, where it then grades into a predominantly Qz bearing volcaniclastic. Other clasts of siltstone and rare fiamme occur. Common Cl <1mm veining gives the interval a greenish tinge in parts.	D1395979	0.0	0.0	0.0	0.09		1.4
1260									D1395980	0.0	0.0	0.0	0.16		1.3
1270									D1395981	0.0	0.0	0.0	0.07		1.4
1280	HW	BUF-GRN	VSS		brc	san qph	cb ch	Pale green to buff, volcaniclastic siltstone to sandstone. This is a pretty non-descript unit. Dominantly a qz crystal rich sandstone with occasional finer intervals of siltstone material. Generally moderately sorted throughout interval, however possibly coarsening towards 1328 with rare siltstone clasts. Common 1mm Cl veining.	D1395982	0.0	0.0	0.0	0.05		1.6
1290															
1300															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
HW	BUF-GRN	VSS		brc	san qph	cb ch		Pale green to buff, volcanoclastic siltstone to sandstone. This is a pretty non-descript unit. Dominantly a qz crystal rich sandstone with occasional finer intervals of siltstone material. Generally moderately sorted throughout interval, however possibly coarsening towards 1328 with rare siltstone clasts. Common 1mm Cl veining.	D1395983	0.0	0.0	0.0	0.04		1.3
									D1395984	0.0	0.0	0.0	0.04		1.9
									D1395985	0.0	0.0	0.0	0.09		1.8
HW	BUF-GRN	VSL		brc	sil qph	cb ch		Pale buff to green, volcanoclastic siltstone, with common <1mm Cl veins and 2-4mm planar and erratic Cb veins. Similar to above unit however, generally finer grained and well sorted.	D1395986	0.0	0.0	0.0	0.93		2.4
									D1395987	0.0	0.0	0.0	0.07		2.2

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcanoclastic Tuff 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanoclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Northing: 5378392.8 mN
Easting: 379741.8 mE
RL: 386.5 mRL
CoordSys: MGA55 (GDA94)

Dip: -87.00
MAG_Azim: 66.00
Total Depth: 1573.2 m
DrillCompany: BLY

Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
1350	HW	BUF-GRN	VSL		brc	sil qph	cb ch	Pale buff to green, volcanoclastic siltstone, with common <1mm Cl veins and 2-4mm planar and erratic Cb veins. Similar to above unit however, generally finer grained and well sorted.	D1395988	0.0	0.0	0.0	0.06		1.3
1360									D1395989	0.0	0.0	0.0	0.03		1.1
1370	HW	GRY-GRN	VBX		brc	qph	ch qt	Grey to green, coarse grained volcanoclastic breccia, marked by large 5-15cm Fd-Qz phytic rhyolite clasts. Also rare 20-30mm siltstone clasts and flamme which occur in a Qz dominant matrix. Presumably this unit conformable coarsens down hole from the above siltstone unit.	D1395990	0.0	0.0	0.0	0.09		1.3
1380	HW	BUF	VSS		brc	fol qph	se cb	Pale buff to grey, moderate to strongly foliated, 1mm Qz rich volcanoclastic sandstone, with distinct thin 1-2 Se bands (pseudo-fiamme or fiamme?). Foliations generally 85-90 degrees to LCA.	D1395991	0.0	0.0	0.0	0.26		1.4
1390	HW	GRN-GRY	VBX		brc	qfp san	ch se	Green to grey, Qz-Fd crystal rich volcanoclastic sandstone to breccia. Sharp change in alteration to Cl 1383.2m and also lacks the distinct foliations, hence has been pulled out as a separate interval, however, arguably the same lithology. Fd>Qz in abundance now. Generally moderately sorted however, occasional 20-30mm siltstone clasts are visible.	D1395992	0.0	0.0	0.0	0.32		1.4
1400	HW	GRY-BUF	VSL		brc	pum sil	se cb	Pale grey to buff, generally well sorted and massive volcanoclastic siltstone with occasional pumice floats.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcanoclastic Tuff 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanoclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D3



Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 1573.2 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
HW	GRY-BUF	VSL		brc	pum sil	se cb		Pale grey to buff, generally well sorted and massive volcanoclastic siltstone with occasional pumice floats.	D1395993	0.0	0.0	0.0	0.20		3.7
HW	GRY-GRN	VBX		brc	qfp	si se		Grey, Se-Cb altered and silicified, Qz-Fd crystal dominant volcanoclastic breccia. This unit also contains occasional fiamme and 20-40cm siltstone clasts and 5-10cm rhyolite clasts.	D1395994	0.0	0.1	0.0	0.56		2.3
HW	BUF-GRY	VRA			qfp	se cb		Pale grey to buff, Qz-Fd phyric rhyolite lava. Possibly still a breccia however this may be a pseudo-breccia texture due to alteration. If the alteration is ignored the phenocrysts are quite uniform in occurrence. Regardless of it being coherent/clastic, this is a Qz-Fd rich unit with abundant 1-3mm crystals.	D1395995	0.2	0.1	0.0	2.39		2.2
HW	BUF-GRY	VRX		brc	qfp	se cb		Qz-Fd rich unit as above, however, it has possibly become volcanoclastic. However, this could be due to increased alteration with proximity to below fault creating a pseudo-breccia.	D1395996	0.0	0.1	0.0	0.12		1.6
F	BUF-GRY	FTZ		ftz		se cb		Rosebery Fault. The main zone of movement occurs at 1446.9 to 1447.1 where there is 15 to 20cm of dark grey sandy/puggy material and fault gouge.	D1395997	0.0	0.0	0.0	0.11		1.5
HW	YEL-GRY	VSL		mas	sil	se si		Pale yellow to grey, strongly silicified and Se altered, fine grained massive siltstone. Almost like a fine grained quartzite due to the silicification. Cleavage clearly changes here, to 10-20 degrees to LCA.							

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ● Hyaloclastic Breccia ▲ Pyroclastic Breccia ■ Vein quartz ■ Vein Carbonate ■ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcanoclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanoclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
HW	YEL-GRY	VSL		mas	sil	se si		Pale yellow to grey, strongly silicified and Se altered, fine grained massive siltstone. Almost like a fine grained quartzite due to the silicification. Cleavage clearly changes here, to 10-20 degrees to LCA.	D1395998	0.0	0.0	0.0	0.09		1.3
									D1395999	0.0	0.0	0.0	0.15		1.1
HOTS	GRY	VSL		mas	sil	si se	py	Grey, strongly silicified and Se-Py altered, fine grained volcaniclastic siltstone. Starting to see an increase in Py alteration now.							
									D1396000	0.0	0.0	0.0	2.44		2.0
									D1393305	0.0	0.5	0.0	4.29		1.1
HODS	BUF-YEL	VSL		bed	sil fol	se si	sp ga	Very pale grey to yellow, strongly silicified and variably Se-Py altered, fine grained volcaniclastic siltstone. Common 1-2cm "stringers" of Sp+/-Ga mineralisation are present, with the best interval a 15cm zone from 1491.6m and a 5cm zone from 1499.1m. Within in these larger "stringer" zones itself, the mineralisation is semi-massive. The Sp is always a very pale brown colour. Bedding or the foliation within this interval appears to change quite drastically.	D1395046	0.0	0.1	0.0	4.00	0.04	0.8
									D1395047	0.1	0.1	0.0	5.00	0.04	0.7
									D1395048	0.2	0.6	0.0	19.00	0.12	0.8
									D1395049	0.1	0.6	0.0	16.00	0.06	0.7
									D1395050	0.0	0.0	0.0	1.00	0.04	1.4
									D1395051	0.0	0.1	0.0	3.00	0.02	1.0
									D1395052	0.0	0.1	0.0	5.00	0.07	1.8
									D1395053	0.0	0.1	0.0	1.00	0.01	0.8
									D1395054	0.0	0.0	0.0	-1.00	0.01	0.7
									D1395055	0.2	0.4	0.0	23.00	-0.01	1.2
									D1393306	0.7	0.4	0.0	41.40		0.9
									D1395056	0.4	0.5	0.0	33.00	-0.01	2.2
									D1395057	1.9	6.8	0.2	170.00	1.24	3.5
									D1395058	0.0	0.3	0.0	8.00	0.06	1.0
									D1395059	0.0	0.0	0.0	1.00	0.04	1.8
									D1395060	0.0	0.1	0.0	4.00	0.04	1.9
									D1395061	0.0	0.2	0.0	4.00	0.02	1.5
									D1395062	0.1	0.2	0.0	15.00	0.05	2.7
									D1395063	0.0	0.2	0.0	3.00	0.01	1.4
									D1395064	0.7	0.8	0.0	88.00	0.30	2.2
									D1395065	0.2	0.2	0.0	14.00	0.04	1.6
									D1395066	0.2	1.5	0.0	12.00	0.08	2.1
									D1395067	0.0	0.0	0.0	1.00	0.02	0.9
									D1395068	1.0	3.9	0.0	37.00	0.18	2.2
									D1395069	0.0	0.1	0.0	1.00	0.03	0.9
									D1395070	0.2	1.9	0.0	14.00	0.14	1.6
									D1395071	0.0	0.3	0.0	4.00	0.03	0.6
									D1395072	1.3	3.1	0.0	47.00	0.17	1.6
									D1395074	0.1	0.4	0.0	9.00	0.03	0.6

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ○ Vein quartz ○ Vein Carbonate ○ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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Total Depth: 1573.2 m

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Rosebery

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North Lake Rosebery

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
HODS	BUF-YEL	VSL		bed	sil fol	se si	sp ga	Very pale grey to yellow, strongly silicified and variably Se-Py altered, fine grained volcanoclastic siltstone. Common 1-2cm "stringers" of Sp+/-Ga mineralisation are present, with the best interval a 15cm zone from 1491.6m and a 5cm zone from 1499.1m. Within in these larger "stringer" zones itself, the mineralisation is semi-massive. The Sp is always a very pale brown colour. Bedding or the foliation within this interval appears to change quite drastically.	D1395074	0.1	0.4	0.0	9.00	0.03	0.6
									D1393307	1.0	2.4	0.1	70.90		1.4
									D1395075	0.0	0.0	0.0	-1.00	-0.01	0.8
									D1395076	0.0	0.1	0.0	1.00	-0.01	0.8
									D1395077	0.0	0.1	0.0	2.00	-0.01	0.7
									D1395078	0.1	0.6	0.0	13.00	0.04	1.2
									D1395079	0.0	0.1	0.0	-1.00	-0.01	0.8
									D1395080	0.1	0.1	0.0	15.00	0.01	1.1
									D1395081	0.2	0.0	0.0	11.00	0.03	0.8
									D1395082	0.2	0.2	0.0	9.00	0.03	0.7
									D1395083	0.0	0.1	0.0	3.00	0.01	0.7
									D1395084	0.2	0.4	0.0	8.00	-0.01	0.6
									D1395085	0.2	0.8	0.0	8.00	0.01	0.8
									D1395086	0.2	0.4	0.0	12.00	0.03	0.8
									D1393308	0.1	0.1	0.0	3.76		0.7
									D1395087	0.0	0.0	0.0	4.00	-0.01	1.8
									D1395088	0.0	0.1	0.0	2.00	-0.01	1.0
									D1395089	0.0	0.1	0.0	1.00	-0.01	1.7
HOTS	GRY	VSS			san	se si	py	More of a sandstone here, Sp "stringers" have died out, however, there appears to be an increase in disseminated Py alteration.	D1395090	0.0	0.1	0.0	2.00	-0.01	2.0
									D1395091	0.0	0.0	0.0	2.00	-0.01	5.2
									D1395092	0.0	0.0	0.0	2.00	0.01	6.5
F	GRY	VSS		ftz	san	se si	py	Broken zone of core, probably not a serious fault, no puggy material - just broken core aligned with the cleavage of the rock.	D1395093	0.0	0.0	0.0	2.00	0.02	2.1
HOTS	GRY-BUF	VSS		bed	sil	se si	py	Grey to pale buff, Se-Py altered bedded volcanoclastic siltstone to sandstone.	D1395094	0.0	0.0	0.0	3.00	0.01	4.9
									D1395095	0.0	0.0	0.0	1.00	-0.01	1.5
									D1395096	0.0	0.0	0.0	2.00	0.01	2.5
									D1393309	0.0	0.0	0.0	1.44		2.5
									D1395097	0.0	0.0	0.0	2.00	-0.01	3.6
									D1395098	0.0	0.0	0.0	1.00	-0.01	1.8
									D1395099	0.0	0.0	0.0	1.00	-0.01	1.9
									D1395100	0.0	0.0	0.0	2.00	-0.01	1.9
HOTS	GRY	VSL		bed	sil	se cb	py	Dark grey, strongly Py altered and bedded volcanoclastic siltstone. The first 6m are borderline shale before it moves into a more sandy unit from about 1530m. Significant increase in the Py mineralisation.	D1393301	0.0	0.0	0.0	6.00	0.01	2.1
									D1393302	0.0	0.1	0.0	8.00	0.02	1.4
									D1393303	0.0	0.1	0.0	7.00	0.04	3.9
									D1393304	0.0	0.0	0.0	2.00	0.01	3.7
									D1393310	0.0	0.1	0.0	6.22		5.4
									D1393311	0.0	0.0	0.0	0.50		2.7
FW	GRN-YEL	VBX		brc	qph	se si	py ga	Yellow to green, strongly Se-Py altered Qz crystal rich pumiceous breccia. Typical "FW" as seen in this drilling. Of interest is the contact - which transitions sharply from the above host-like ash units. Does not appear to be faulted... possibly an erosional unconformity? The first 50-80cm of this unit is a laminar siltstone before it quickly coarsens into the breccia. Also of not are trace/small aggregates of Ga +/- Sp which appear to be vein related.							

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Undifferentiated Volcanoclastic
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Volcanic Breccia
▲ Hyaloclastic Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Volcanic Conglomerate
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia
▲ Quartz Carbonate Vein	■ Siltstone	■ Chert	■ Felsic Volcanoclastic Tuff/Siltstone	■ Tuff/Siltstone

Mineralisation	
Background	
Elevated	
Anomalous	
Strongly Anomalous	
Sub-Grade	

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North Lake Rosebery

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FW	GRN-YEL	VBX		brc	qph	se si	py ga	Yellow to green, strongly Se-Py altered Qz crystal rich pumiceous breccia. Typical "FW" as seen in this drilling. Of interest is the contact - which transitions sharply from the above host-like ash units. Does not appear to be faulted... possibly an erosional unconformity? The first 50-80cm of this unit is a laminar siltstone before it quickly coarsens into the breccia. Also of note are trace/small aggregates of Ga +/- Sp which appear to be vein related.	D1393312	0.0	0.0	0.0	4.15		2.7
									D1393313	0.0	0.0	0.0	1.15		1.1
									D1393314	0.0	0.0	0.0	1.30		1.2

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⊖ Vein quartz ⊖ Vein Carbonate ⊖ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	Mineralisation <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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