

Rimfire Minerals Corporation

**2004 GEOLOGICAL, GEOCHEMICAL
AND DIAMOND DRILLING REPORT
ON THE MOR 2 AND RDN 1-18 CLAIMS**

Volume IV - Figures

Located in the Eskay Creek Area
Liard Mining Division
NTS 104B/15E, 104G/2E
57° 00 North Latitude
130° 39' West Longitude

-prepared for-

RIMFIRE MINERALS CORPORATION
Suite 700, 700 West Pender Street
Vancouver, B.C., Canada
V6C 1G8

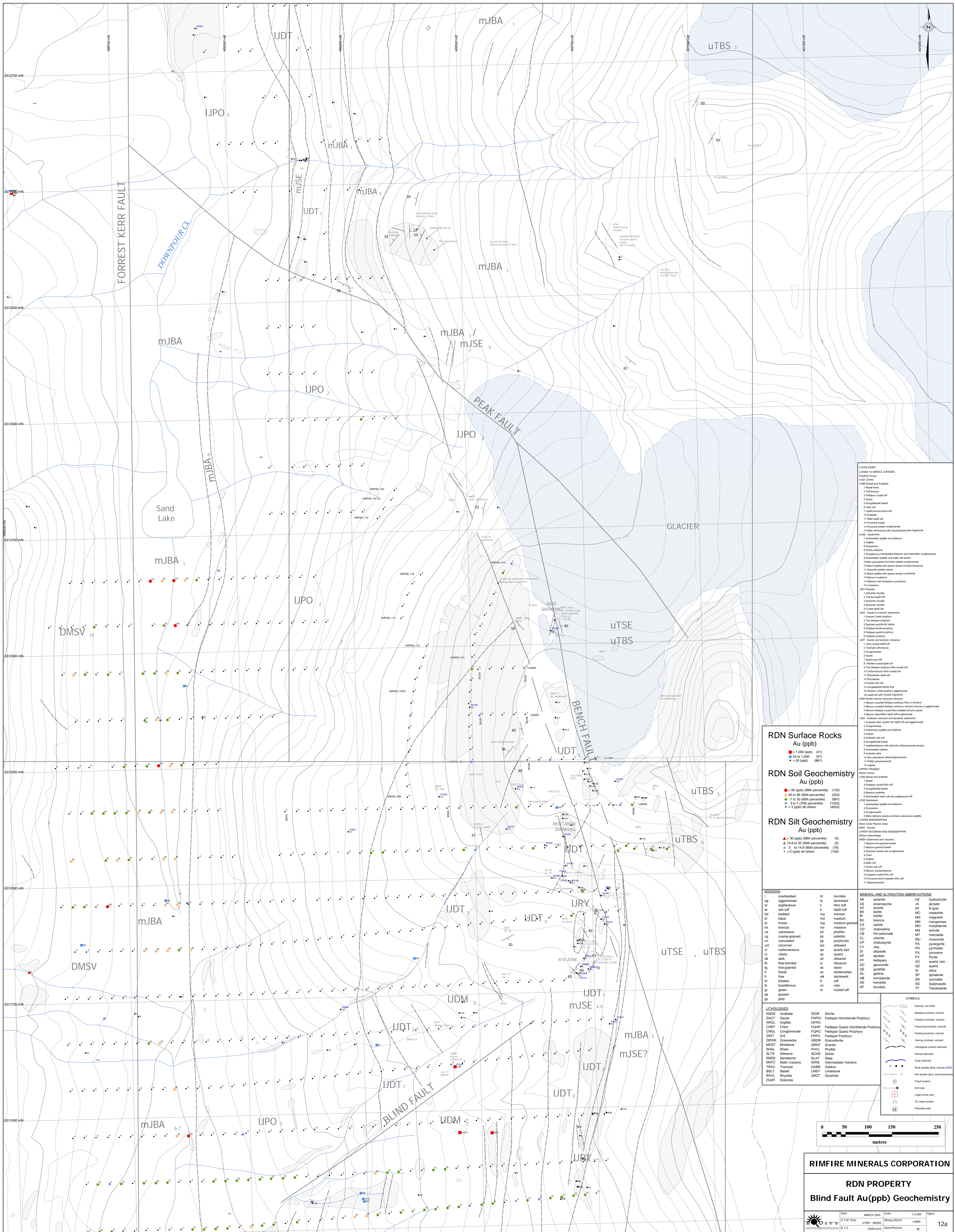
-prepared by-

Murray I. Jones, M.Sc., P.Geo.
EQUITY ENGINEERING LTD.
Suite 700, 700 West Pender Street
Vancouver, B.C., Canada
V6C 1G8

March 2005

LIST OF FIGURES

		<u>Page</u>
Figure 1	Location Map (1:9,090,000)	2
Figure 2	Claim Map (1:100,000)	3
Figure 3	Regional Geology (1:100,000)	8
Figure 4	RDN Property Geology (1:100,000)	Volume III
Figure 5a	Blind Fault Geology (1:2,500).....	Volume III
Figure 5b	Marcasite Gossan Area Geology (1:5,000).....	Volume III
Figure 5c	North Downpour-Top Area Geology (1:5,000).....	Volume III
Figure 5d	Arctic Grid Area Geology (1:5,000).....	Volume III
Figure 6	Whole Rock, Winchester-Floyd Plot.....	23
Figure 7	Whole Rock, Zr vs Y, All areas.....	24
Figure 8	Whole Rock, Al/Ti vs Alteration index.....	24
Figure 9	REE's Arctic Grid and 21 Zone Rhyolites.....	25
Figure 10	Drill Hole Location Map (1:20,000; 1:5,000).....	Volume III
Figure 11a	Wedge Section 9800N, RDN04-032 (1:500)	Volume III
Figure 11b	Wedge Section 9500N, RDN04-031 (1:500)	Volume III
Figure 11c	Wedge Section 9200N, RDN04-033 (1:500)	Volume III
Figure 11d	Wedge Section 9050N+9100N, RDN04-034,035,036 (1:500)	Volume III
Figure 11e	Jungle Section, RDN04-037 (1:500)	Volume III
Figure 11f	Marcasite Gossan Section, RDN04-038 (1:500)	Volume III
Figure 11g	Marcasite Gossan Section, RDN04-039 (1:500)	Volume III
Figure 12a	Blind Fault, Au Geochemistry (1:2,500).....	Volume IV
Figure 12b	Blind Fault, As Geochemistry (1:2,500).....	Volume IV
Figure 12c	Blind Fault, Pb Geochemistry (1:2,500).....	Volume IV
Figure 13a	North Downpour-Top, Au Geochemistry (1:5,000)	Volume IV
Figure 13b	North Downpour-Top, As Geochemistry (1:5,000)	Volume IV
Figure 13c	North Downpour-Top, Pb Geochemistry (1:5,000)	Volume IV
Figure 14a	Arctic Grid Area, Au Geochemistry (1:5,000)	Volume IV
Figure 14b	Arctic Grid Area, As Geochemistry (1:5,000)	Volume IV
Figure 14c	Arctic Grid Area, Pb Geochemistry (1:5,000)	Volume IV
Figure 14d	Arctic Grid Area, Hg Geochemistry (1:5,000)	Volume IV



RDN Surface Rocks Au (ppb)

- > 1,000 (ppb) (41)
- 50 to 1,000 (ppb) (91)
- < 50 (ppb) (861)

RDN Soil Geochemistry Au (ppb)

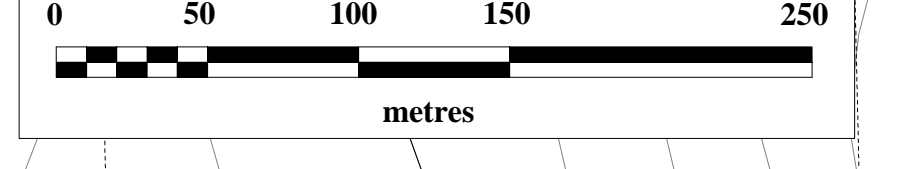
- > 95 (ppb) (95th percentile) (133)
- 30 to 95 (ppb) (50th percentile) (203)
- 7 to 30 (ppb) (25th percentile) (667)
- 5 to 7 (ppb) (75th percentile) (1100)
- < 3 (ppb) all others (4552)

RDN Silt Geochemistry Au (ppb)

- > 30 (ppb) (95th percentile) (5)
- 14.8 to 30 (ppb) (50th percentile) (5)
- 5 to 14.8 (ppb) (25th percentile) (100)
- < 5 (ppb) all others (100)

MODIFIERS		MINERAL AND ALTERATION ABBREVIATIONS	
ab	interbedded	hf	hornfels
ag	agglomerate	ls	laminated
ag	argillaceous	lt	lenticular
as	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	md	medium
br	brown	mg	medium-grained
br	brassy	ms	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
co	conglomerate	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qt	quartz
ch	cherty	qtz	quartzite
dk	dark	sh	sheared
fb	fine-bedded	sk	sheared
fg	fine-grained	sk	skarn
fl	flattish	sk	stockwork
fl	flow	st	streaked
fo	foliated	st	stockwork
fs	fossiliferous	st	stockwork
gr	green	st	stockwork
gs	gossan	st	stockwork
gv	grey	st	stockwork

LITHOLOGIES		SYMBOLS	
ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPQ	Feldspar Homblende Porphyry
ARGL	Argillite	FHPQ	Feldspar Quartz Homblende Porphyry
CHRT	Chert	FQHP	Feldspar Quartz Homblende Porphyry
CNGL	Conglomerate	FQHP	Feldspar Quartz Homblende Porphyry
GRIT	Grit	FQHP	Feldspar Quartz Homblende Porphyry
GRWK	Greyswacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLS	Siltstone	SCHS	Schist
SNS	Sandstone	SLAT	Slate
MFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	GRZT	Quartzite
DMT	Dolomite		



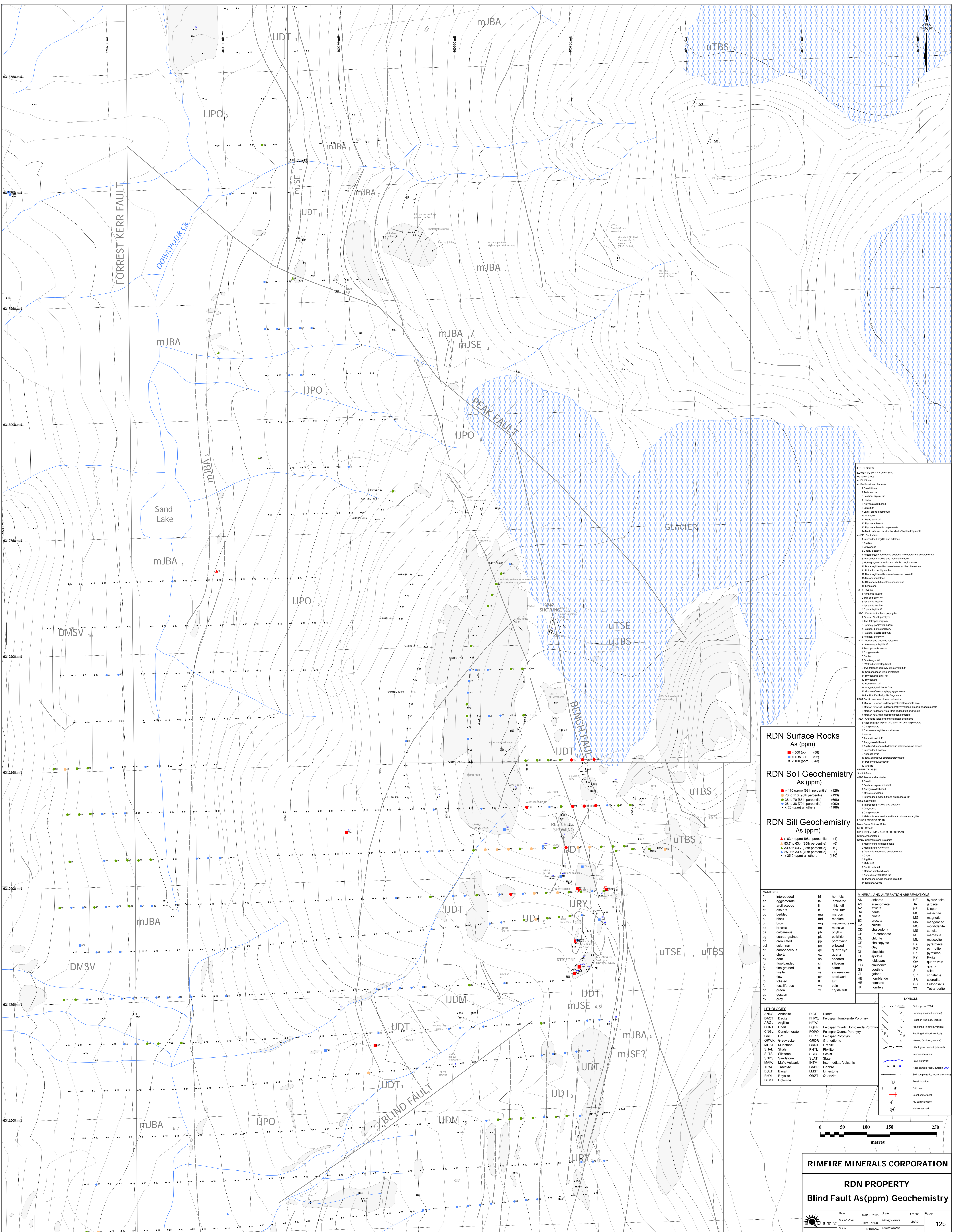
RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Blind Fault Au(ppb) Geochemistry

Date: MARCH 2005 Scale: 1:2,500 Figure: 12a

UTM: 104815G State-Province: BC



RDN Surface Rocks As (ppm)

- > 500 (ppm) (58)
- 100 to 500 (92)
- < 100 (ppm) (54)

RDN Soil Geochemistry As (ppm)

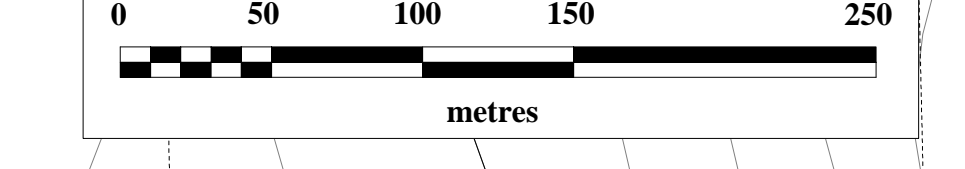
- > 110 (ppm) (95th percentile) (120)
- 70 to 110 (95th percentile) (153)
- 38 to 70 (50th percentile) (668)
- 25 to 38 (70th percentile) (952)
- < 25 (ppm) all others (4188)

RDN Silt Geochemistry As (ppm)

- > 63.4 (ppm) (95th percentile) (4)
- 53.7 to 63.4 (95th percentile) (6)
- 33.4 to 53.7 (50th percentile) (17)
- 25 to 33.4 (70th percentile) (29)
- < 25.9 (ppm) all others (150)

MODIFIERS		MINERAL AND ALTERATION ABBREVIATIONS	
ag	agglomerate	hf	hornfels
ag	argillaceous	ls	laminated
at	ash tuff	lt	lentic tuff
bd	bedded	lt	lapilli tuff
bl	black	ma	maroon
br	brown	mg	medium-grained
bt	block	ma	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
co	conglomerate	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qr	quartz eye
sh	shaly	qc	quartz
dk	dark	sc	siliceous
fb	fine-banded	sk	skarn
fg	fine-grained	sk	skarn
fi	fine	ss	stonksiderite
fo	flow	st	stockwork
fo	foliated	st	tuff
fo	fossiliferous	vt	vein
gr	green	vt	vein
gs	gossan	xt	crystal tuff
gy	gray		

LITHOLOGIES		SYMBOLS	
ANDS	Andesite	○	Quartz (ppm 2004)
DACT	Dacite	○	Rocking (inset, vertical)
ARGL	Argillite	○	Falsing (inset, vertical)
CHRT	Chert	○	Fracturing (inset, vertical)
CNGL	Conglomerate	○	Faulting (inset, vertical)
GRIT	Grit	○	Veining (inset, vertical)
GRWK	Greyswacke	○	Veining (inset, vertical)
MDST	Mudstone	○	Logarithmic contour (inset)
SHAL	Shale	○	Rock sample (ppt, outcrop, 2004)
SLTS	Siltstone	○	Fossil location
SNSD	Sandstone	○	Dirt hole
MAFC	Mafic Volcanic	○	Legal corner post
TRAC	Trachyte	○	Ply corner location
BSLT	Basalt	○	Highpass location
RHYL	Rhyolite	○	
DMT	Dolomite	○	



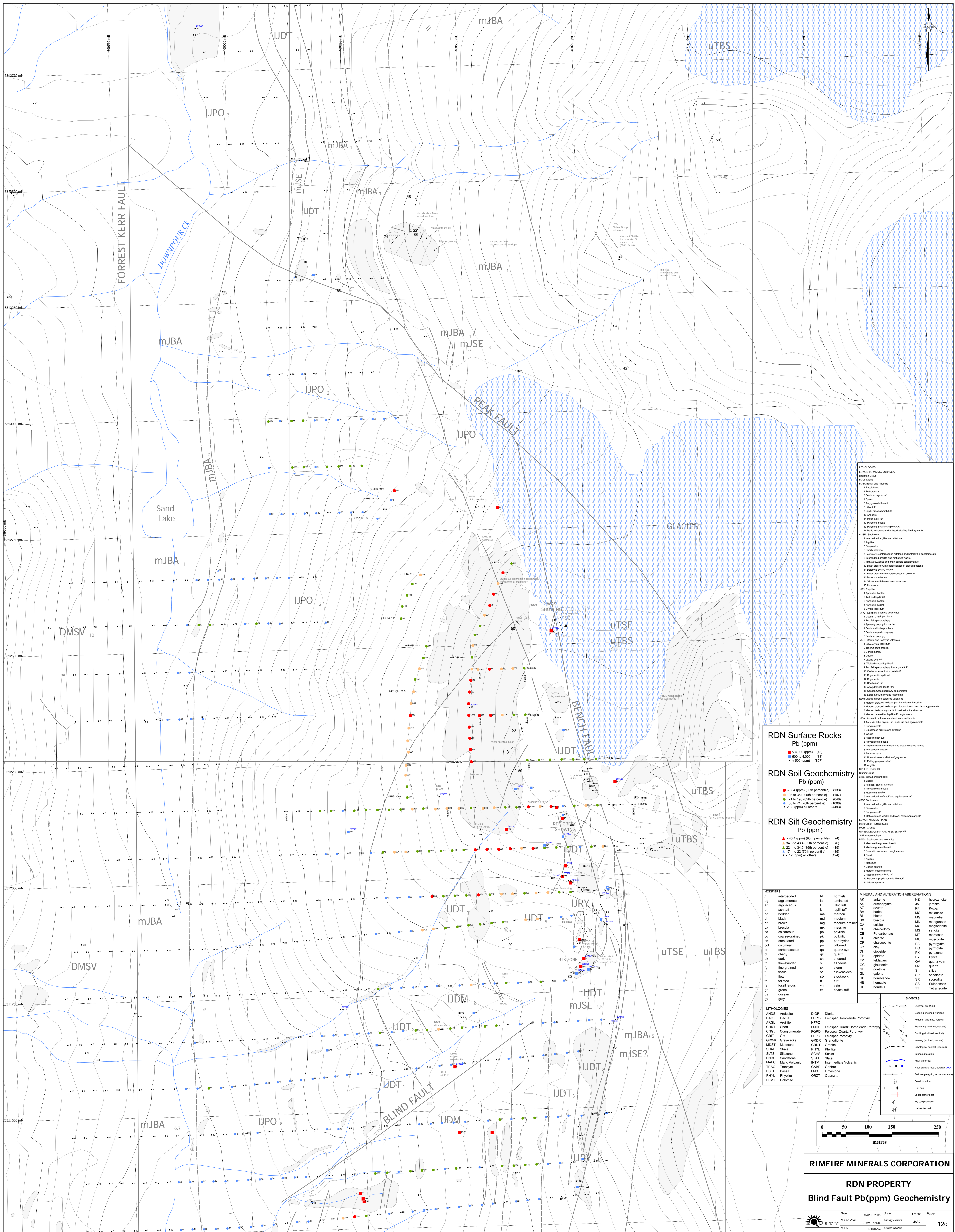
RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Blind Fault As(ppm) Geochemistry

Date: MARCH 2005 Scale: 1:2,500 Figure: 12b

UTM: 104815G State-Province: BC



RDN Surface Rocks Pb (ppm)

- > 4,000 (ppm) (48)
- 500 to 4,000 (ppm) (86)
- < 500 (ppm) (857)

RDN Soil Geochemistry Pb (ppm)

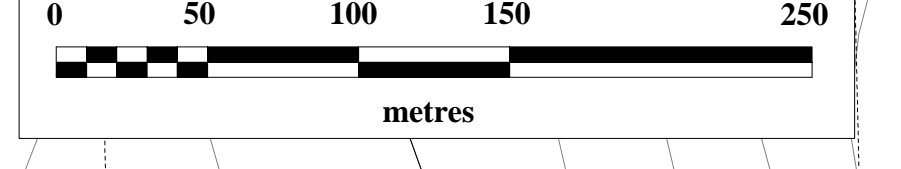
- > 364 (ppm) (98th percentile) (133)
- 198 to 364 (95th percentile) (197)
- 71 to 198 (90th percentile) (648)
- 33 to 71 (70th percentile) (1008)
- < 30 (ppm) all others (4493)

RDN Silt Geochemistry Pb (ppm)

- ▲ > 43.4 (ppm) (98th percentile) (4)
- ▲ 34.5 to 43.4 (95th percentile) (6)
- ▲ 22 to 34.5 (90th percentile) (19)
- ▲ 17 to 22 (70th percentile) (35)
- ▲ < 17 (ppm) all others (124)

MODIFIERS		MINERAL AND ALTERATION ABBREVIATIONS	
ag	agglomerate	hf	hornfels
ag	argillaceous	la	laminated
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	macon
bl	black	md	medium
br	brown	mg	medium-grained
ca	calcareous	ms	massive
cg	coarse-grained	pk	poikilitic
co	conglomerate	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qu	quartz eye
ch	cherty	qtz	quartz
dk	dark	sh	sheared
fb	fine-banded	sl	siliceous
fg	fine-grained	sk	skarn
fl	flake	sk	skolokoides
fo	flow	st	stockwork
fs	fossiliferous	t	tuff
g	green	vt	vesicular
gp	gossan	xt	crystal tuff
gy	grey		

LITHOLOGIES		SYMBOLS	
ANDS	Andesite	○	Outcrop (per 2004)
DACT	Dacite	○	Rocking (inward, vertical)
ARGL	Argillite	○	Rocking (outward, vertical)
CHRT	Chert	○	Fracturing (inward, vertical)
CNGL	Conglomerate	○	Fracturing (outward, vertical)
GRK	Gabbro	○	Veining (inward, vertical)
GRWK	Greyswacke	○	Veining (outward, vertical)
GRDR	Granodiorite	○	Log-splinter (crossed)
MDST	Mudstone	○	Linear crest (dashed)
SHAL	Shale	○	Rock sample (flat, outcrop, 2004)
SLTS	Siltstone	○	Soil sample (flat, outcrop, 2004)
SNS	Sandstone	○	Fossil location
MFC	Mafic Volcanic	○	Dirt hole
TRAC	Trachyte	○	Legal corner post
BSLT	Basalt	○	Property location
RHYL	Rhyolite	○	Highway location
DMT	Dolomite	○	

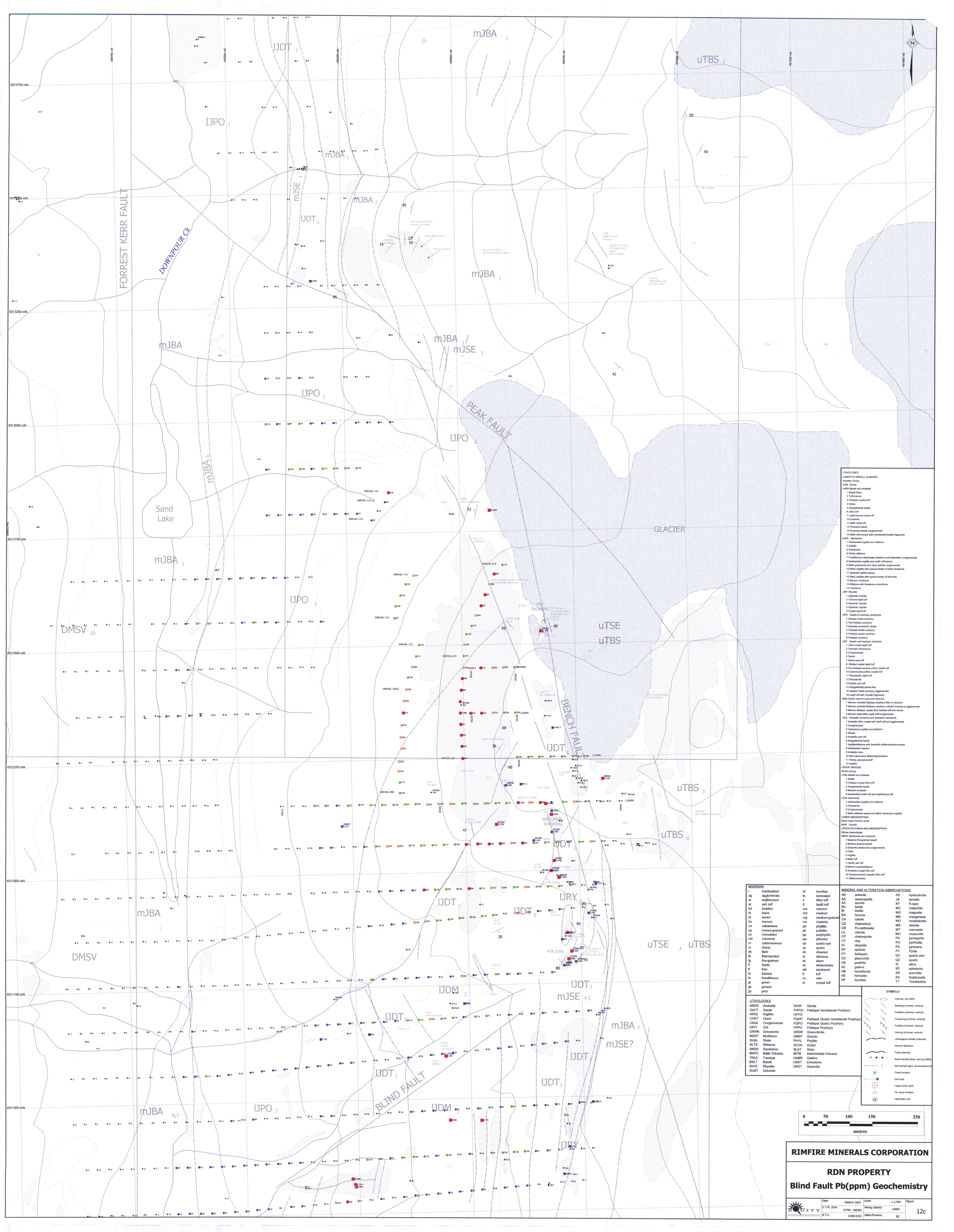


RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Blind Fault Pb(ppm) Geochemistry

Date: MARCH 2005 Scale: 1:2,500 Figure: 12c
 UTM Zone: 10S UTM Easting: 489000 UTM Northing: 6315000
 X.F.S. State-Province: BC



LITHOLOGIES

LOWER TO MIDDLE JURASSIC

1 Sandstone
2 Siltstone
3 Sandstone
4 Siltstone
5 Argillaceous sandstone
6 Siltstone
7 Laminated sandstone
8 Siltstone
9 Sandstone
10 Siltstone
11 Sandstone
12 Sandstone
13 Sandstone
14 Sandstone with rhyolite fragments
15 Sandstone

UPPER JURASSIC

16 Sandstone
17 Sandstone
18 Sandstone
19 Sandstone
20 Sandstone
21 Sandstone
22 Sandstone
23 Sandstone
24 Sandstone
25 Sandstone
26 Sandstone
27 Sandstone
28 Sandstone
29 Sandstone
30 Sandstone
31 Sandstone
32 Sandstone
33 Sandstone
34 Sandstone
35 Sandstone
36 Sandstone
37 Sandstone
38 Sandstone
39 Sandstone
40 Sandstone
41 Sandstone
42 Sandstone
43 Sandstone
44 Sandstone
45 Sandstone
46 Sandstone
47 Sandstone
48 Sandstone
49 Sandstone
50 Sandstone
51 Sandstone
52 Sandstone
53 Sandstone
54 Sandstone
55 Sandstone
56 Sandstone
57 Sandstone
58 Sandstone
59 Sandstone
60 Sandstone
61 Sandstone
62 Sandstone
63 Sandstone
64 Sandstone
65 Sandstone
66 Sandstone
67 Sandstone
68 Sandstone
69 Sandstone
70 Sandstone
71 Sandstone
72 Sandstone
73 Sandstone
74 Sandstone
75 Sandstone
76 Sandstone
77 Sandstone
78 Sandstone
79 Sandstone
80 Sandstone
81 Sandstone
82 Sandstone
83 Sandstone
84 Sandstone
85 Sandstone
86 Sandstone
87 Sandstone
88 Sandstone
89 Sandstone
90 Sandstone
91 Sandstone
92 Sandstone
93 Sandstone
94 Sandstone
95 Sandstone
96 Sandstone
97 Sandstone
98 Sandstone
99 Sandstone
100 Sandstone

MINERAL AND ALTERATION ABBREVIATIONS

ag	agglomerate	ht	hornfels	HC	hydrochlorite
arg	argillaceous	la	laminited	JC	jasrolite
at	ash tuff	li	lithic tuff	KC	kaolinite
bd	bedded	ma	marble	MC	malachite
br	breccia	md	medium	MN	manganese
ca	calcaneous	mg	medium-grained	CA	calcite
cg	coarse-grained	me	massive	CD	chalcodite
cn	concreted	ph	phyllitic	CB	Fe-carbonate
cr	crystalline	pk	poikilitic	CL	chlorite
ct	cherty	pp	porphyritic	CP	calcopryite
dk	dark	pw	pillowed	CY	clay
ep	epidote	qz	quartz	OP	opals
epk	epidote	qtz	quartz	EP	epidote
fb	fine-banded	sk	siliceous	FP	feldspars
fg	fine-grained	sl	slate	GC	glaucophane
fsl	fine-grained	skm	slate	GE	gossite
fsl	fine-grained	skm	slate	SI	silica
fsl	fine-grained	skm	slate	SP	sphalerite
fsl	fine-grained	skm	slate	SS	sulphur
fsl	fine-grained	skm	slate	ST	staurolite
fsl	fine-grained	skm	slate	TT	tetrahedrite

SYMBOLS

Overline, see-2004

Beating (inclined, vertical)

Foliation (inclined, vertical)

Fracturing (inclined, vertical)

Folding (inclined, vertical)

Veining (inclined, vertical)

Lithological contact (inferred)

Internal alteration

Fault (inferred)

Rock sample (Pb, outcrop 2004)

Soil sample (Pb, reconnaissance)

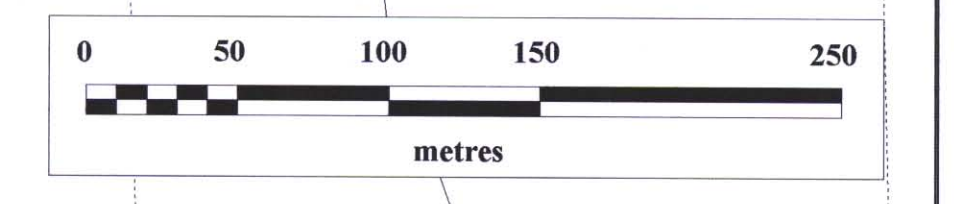
Fossil location

Dirt hole

Legal corner post

Ply ramp location

Handcapped post



RIMFIRE MINERALS CORPORATION

RDN PROPERTY

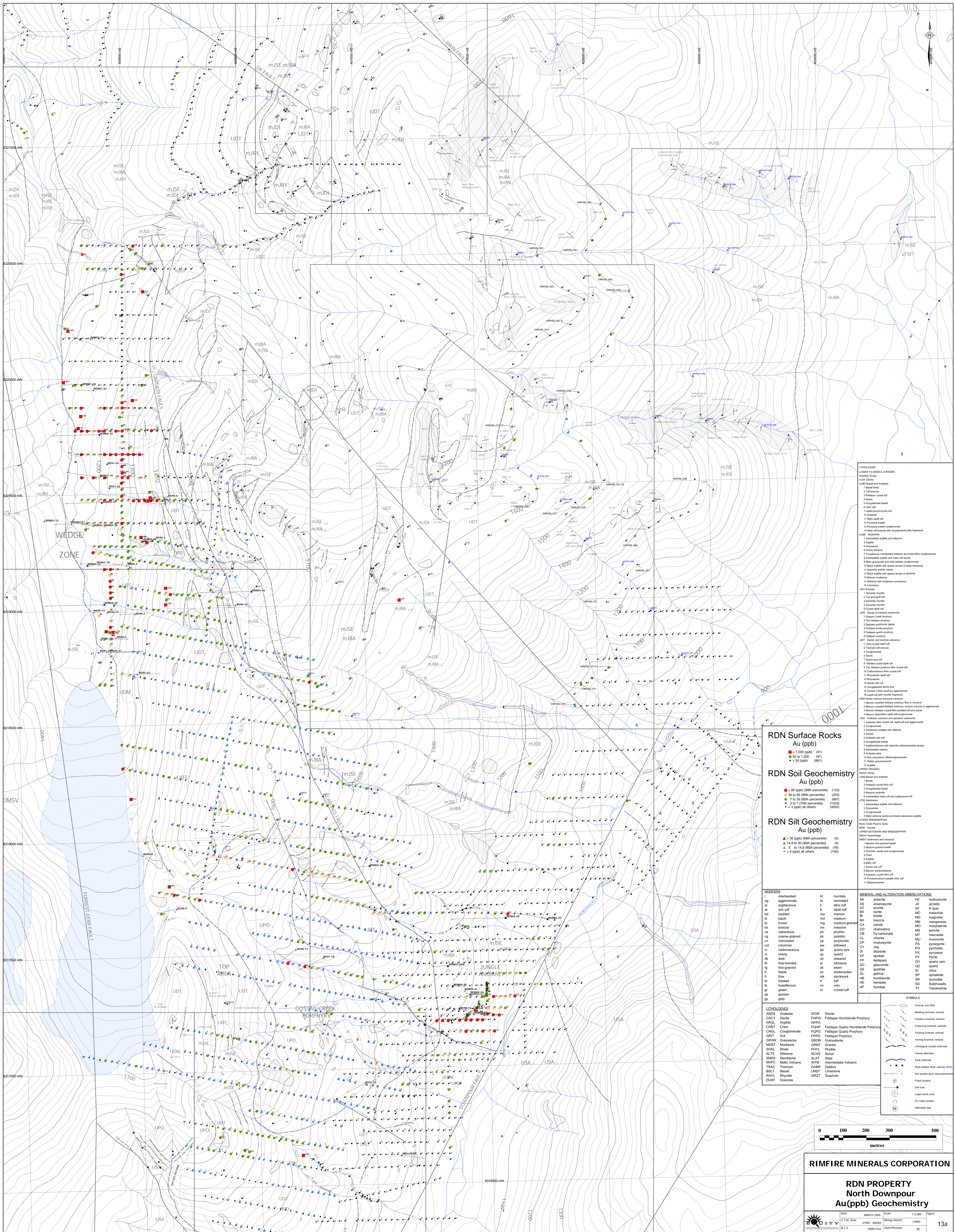
Blind Fault Pb(ppm) Geochemistry

Date: MARCH 2005 Scale: 1:2500

UTM Zone: UTM9 - NAD83 Mining District: LAMBO

ATS: 15461512 State Province: BC

12c



RDN Surface Rocks Au (ppb)

- > 1,000 (ppb) (41)
- 50 to 1,000 (ppb) (91)
- < 50 (ppb) (861)

RDN Soil Geochemistry Au (ppb)

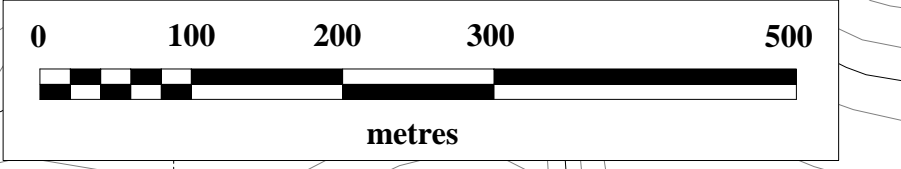
- > 30 (ppb) (98th percentile) (133)
- 30 to 95 (95th percentile) (203)
- 7 to 30 (85th percentile) (687)
- 3 to 7 (70th percentile) (1203)
- < 3 (ppb) all others (4552)

RDN Silt Geochemistry Au (ppb)

- ▲ > 30 (ppb) (98th percentile) (5)
- ▲ 14.8 to 30 (95th percentile) (5)
- ▲ 3 to 14.8 (85th percentile) (100)
- ▲ < 3 (ppb) all others (100)

MODIFIERS		MINERAL AND ALTERATION ABBREVIATIONS	
in	interbedded	hf	hornfels
ag	agglomerate	ls	laminated
ag	argillaceous	lt	lentic tuff
at	at ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	block	md	medium-grained
br	brown	mg	medium-grained
ca	calcareous	ms	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
co	conglomerate	po	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qu	quartz eye
ct	cherty	qt	quartz
dk	dark	sh	sheared
fb	fine-banded	sk	skarn
fg	fine-grained	sk	skarn
f	fine	ss	stonksiderite
fl	flow	st	tuff
fo	foliated	st	tuff
fs	foliated	st	tuff
g	green	vt	vein
gs	gossan	xt	crystal tuff
gr	grey		

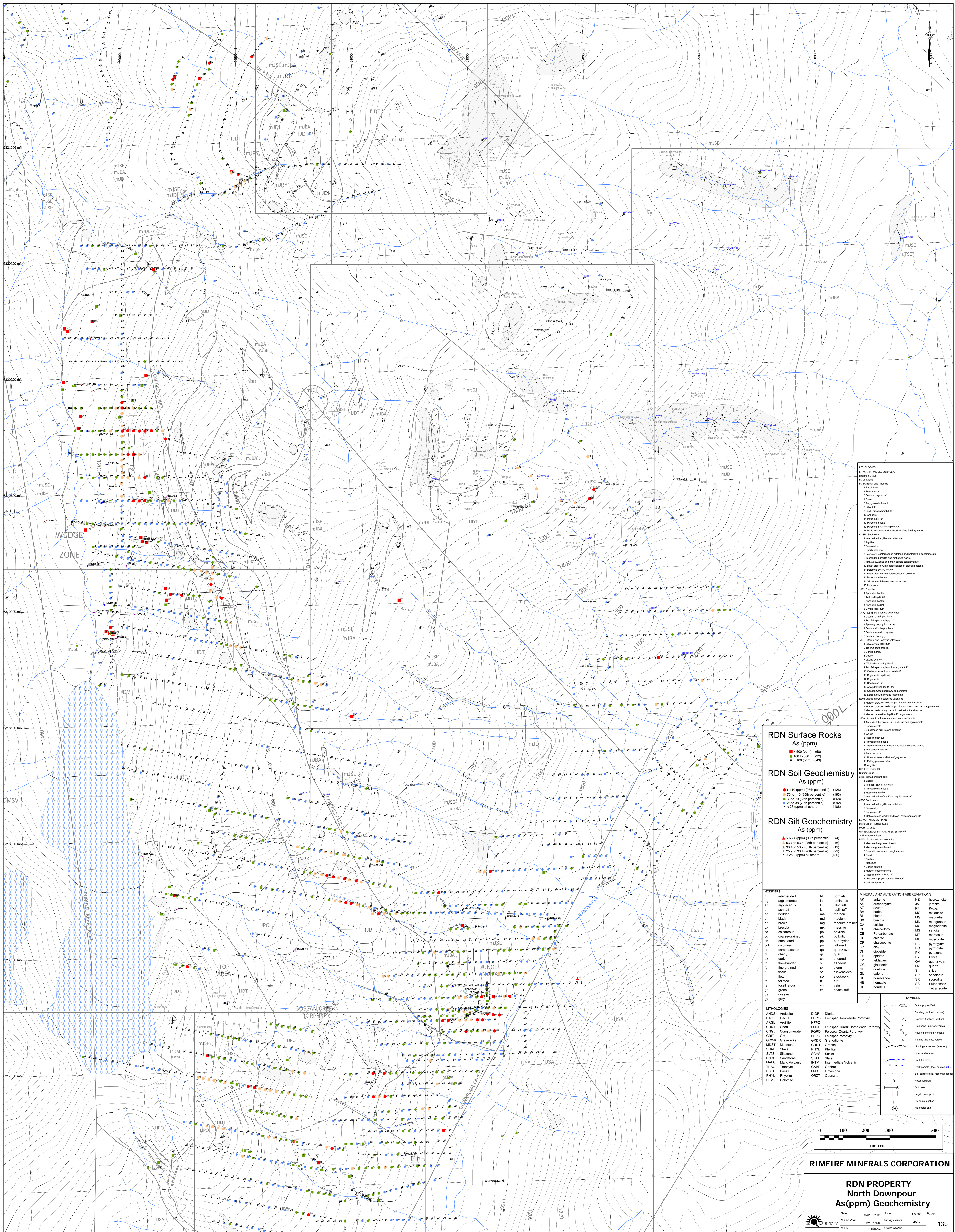
LITHOLOGIES		SYMBOLS	
ANDS	Andesite	DIOR	Diorite
DACT	Diabase	FHPQ	Feldspar Homblende Porphyry
ARGT	Argillite	FQHP	Feldspar Quartz Homblende Porphyry
CHRT	Chert	FQHP	Feldspar Quartz Porphyry
CNGL	Conglomerate	GRD	Granodiorite
GRK	Greenschist	GRD	Granodiorite
GRWK	Greyschist	GRD	Granodiorite
MDST	Mudstone	GRN	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNDS	Sandstone	SLAT	Slat
MFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
LSLT	Limestone	LSLT	Limestone
RHYL	Rhyolite	GRZT	Quartzite
DMT	Dolomite		



RIMFIRE MINERALS CORPORATION

RDN PROPERTY North Downpour Au(ppb) Geochemistry

Date: MARCH 2005 Scale: 1:5,000
 U.T.M. Zone: UTM-18N Map Sheet: L48D
 X.F.S. 1048152 State Province: BC 13a



- LITHOLOGIES**
- LOWER TO MIDDLE JURASSIC**
- mJDI Dacite
 - mJBA Basalt and Andesite
 - 1 Basalt flows
 - 2 Tuffaceous
 - 3 Feldspar crystal tuff
 - 4 Basalt
 - 5 Amphibolite basalt
 - 6 Silt tuff
 - 7 Lignite
 - 8 Lignite
 - 9 Lignite
 - 10 Pyroxene basalt
 - 11 Pyroxene basalt conglomerate
 - 12 Basalt tuffaceous with rhyolite/hyalite fragments
 - mJSE Basalt
 - 1 Interbedded argillite and siltstone
 - 2 Argillite
 - 3 Greywacke
 - 4 Cherty siltstone
 - 5 Fossiliferous interbedded siltstone and fossiliferous conglomerate
 - 6 Interbedded argillite and mafic siltstone
 - 7 Mafic greywacke and cherty siltstone conglomerate
 - 8 Mafic greywacke and cherty siltstone
 - 9 Basalt argillite with sparse lenses of black limestone
 - 10 Basalt argillite with sparse lenses of black limestone
 - 11 Basalt argillite with sparse lenses of black limestone
 - 12 Basalt argillite with sparse lenses of black limestone
 - 13 Basalt argillite with sparse lenses of black limestone
 - 14 Basalt with limestone concretions
 - 15 Limestone
- URJ Rhyolite**
- 1 Rhyolite
 - 2 Tuff and tuff tuff
 - 3 Basaltic rhyolite
 - 4 Andesitic rhyolite
 - 5 Basaltic rhyolite
- UPO Dacite to trachyte porphyries**
- 1 Dacite
 - 2 Tuff and tuff tuff
 - 3 Basaltic porphyry
 - 4 Feldspar quartz porphyry
 - 5 Feldspar quartz porphyry
 - 6 Feldspar quartz porphyry
 - 7 Feldspar quartz porphyry
 - 8 Feldspar quartz porphyry
 - 9 Feldspar quartz porphyry
 - 10 Feldspar quartz porphyry
 - 11 Feldspar quartz porphyry
 - 12 Feldspar quartz porphyry
 - 13 Feldspar quartz porphyry
 - 14 Feldspar quartz porphyry
 - 15 Feldspar quartz porphyry
 - 16 Feldspar quartz porphyry
 - 17 Feldspar quartz porphyry
 - 18 Feldspar quartz porphyry
 - 19 Feldspar quartz porphyry
 - 20 Feldspar quartz porphyry
 - 21 Feldspar quartz porphyry
 - 22 Feldspar quartz porphyry
 - 23 Feldspar quartz porphyry
 - 24 Feldspar quartz porphyry
 - 25 Feldspar quartz porphyry
 - 26 Feldspar quartz porphyry
 - 27 Feldspar quartz porphyry
 - 28 Feldspar quartz porphyry
 - 29 Feldspar quartz porphyry
 - 30 Feldspar quartz porphyry
 - 31 Feldspar quartz porphyry
 - 32 Feldspar quartz porphyry
 - 33 Feldspar quartz porphyry
 - 34 Feldspar quartz porphyry
 - 35 Feldspar quartz porphyry
 - 36 Feldspar quartz porphyry
 - 37 Feldspar quartz porphyry
 - 38 Feldspar quartz porphyry
 - 39 Feldspar quartz porphyry
 - 40 Feldspar quartz porphyry
 - 41 Feldspar quartz porphyry
 - 42 Feldspar quartz porphyry
 - 43 Feldspar quartz porphyry
 - 44 Feldspar quartz porphyry
 - 45 Feldspar quartz porphyry
 - 46 Feldspar quartz porphyry
 - 47 Feldspar quartz porphyry
 - 48 Feldspar quartz porphyry
 - 49 Feldspar quartz porphyry
 - 50 Feldspar quartz porphyry
 - 51 Feldspar quartz porphyry
 - 52 Feldspar quartz porphyry
 - 53 Feldspar quartz porphyry
 - 54 Feldspar quartz porphyry
 - 55 Feldspar quartz porphyry
 - 56 Feldspar quartz porphyry
 - 57 Feldspar quartz porphyry
 - 58 Feldspar quartz porphyry
 - 59 Feldspar quartz porphyry
 - 60 Feldspar quartz porphyry
 - 61 Feldspar quartz porphyry
 - 62 Feldspar quartz porphyry
 - 63 Feldspar quartz porphyry
 - 64 Feldspar quartz porphyry
 - 65 Feldspar quartz porphyry
 - 66 Feldspar quartz porphyry
 - 67 Feldspar quartz porphyry
 - 68 Feldspar quartz porphyry
 - 69 Feldspar quartz porphyry
 - 70 Feldspar quartz porphyry
 - 71 Feldspar quartz porphyry
 - 72 Feldspar quartz porphyry
 - 73 Feldspar quartz porphyry
 - 74 Feldspar quartz porphyry
 - 75 Feldspar quartz porphyry
 - 76 Feldspar quartz porphyry
 - 77 Feldspar quartz porphyry
 - 78 Feldspar quartz porphyry
 - 79 Feldspar quartz porphyry
 - 80 Feldspar quartz porphyry
 - 81 Feldspar quartz porphyry
 - 82 Feldspar quartz porphyry
 - 83 Feldspar quartz porphyry
 - 84 Feldspar quartz porphyry
 - 85 Feldspar quartz porphyry
 - 86 Feldspar quartz porphyry
 - 87 Feldspar quartz porphyry
 - 88 Feldspar quartz porphyry
 - 89 Feldspar quartz porphyry
 - 90 Feldspar quartz porphyry
 - 91 Feldspar quartz porphyry
 - 92 Feldspar quartz porphyry
 - 93 Feldspar quartz porphyry
 - 94 Feldspar quartz porphyry
 - 95 Feldspar quartz porphyry
 - 96 Feldspar quartz porphyry
 - 97 Feldspar quartz porphyry
 - 98 Feldspar quartz porphyry
 - 99 Feldspar quartz porphyry
 - 100 Feldspar quartz porphyry

- RDN Surface Rocks As (ppm)**
- > 500 (ppm) (56)
 - 100 to 500 (92)
 - < 100 (ppm) (54)

- RDN Soil Geochemistry As (ppm)**
- > 110 (ppm) (98th percentile) (120)
 - 70 to 110 (95th percentile) (153)
 - 38 to 70 (85th percentile) (668)
 - 26 to 38 (70th percentile) (205)
 - < 26 (ppm) all others (4188)

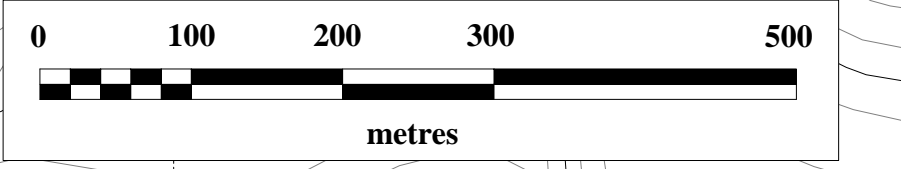
- RDN Silt Geochemistry As (ppm)**
- > 63.4 (ppm) (98th percentile) (4)
 - 53.7 to 63.4 (95th percentile) (6)
 - 33.4 to 53.7 (85th percentile) (118)
 - 25 to 33.4 (70th percentile) (23)
 - < 25.9 (ppm) all others (130)

MINERAL AND ALTERATION ABBREVIATIONS

AK	ankerite	HZ	hydrozincite
AS	azurite	JA	jasper
AZ	azurite	KF	K-feldspar
BA	barite	MC	malachite
BI	biotite	MG	magnetite
BU	bufoite	MN	manganese
CA	calcite	MO	malachite
CD	chalcocite	MS	sericite
CE	Fe-carbonate	MT	malachite
CH	chlorite	MU	muscovite
CI	chalcophyllite	PA	pyrite
CY	chrysotile	PD	pyrite
DI	diopside	PX	pyroxene
DP	diopside	PF	pyrite
EP	epidote	QZ	quartz vein
FP	feldspar	QU	quartz
GC	glaucophane	SE	sericite
GO	götschite	SI	silica
GP	gypsum	SR	sericite
GR	garnet	SS	sericite
GR	garnet	ST	staurolite
GR	garnet	TT	terehedrite

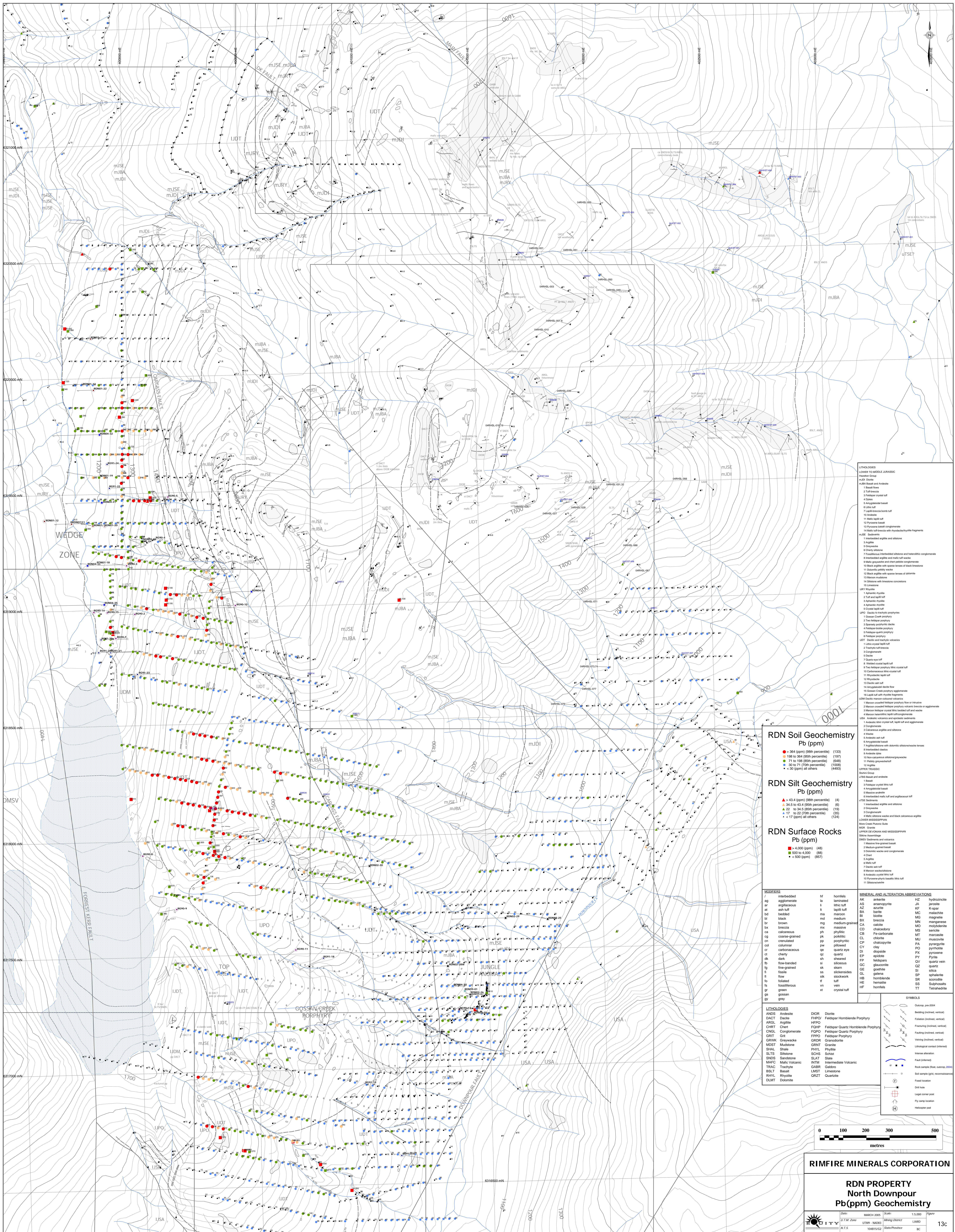
LITHOLOGIES

ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPQ	Feldspar Homblende Porphyry
ARGL	Argillite	FHPQ	Feldspar Homblende Porphyry
CHRT	Chert	FHPQ	Feldspar Homblende Porphyry
CNGL	Conglomerate	FHPQ	Feldspar Homblende Porphyry
GRT	Garnet	FHPQ	Feldspar Homblende Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Gneiss
SHAL	Siltstone	PHYL	Phyllite
SCHS	Schist	SCHS	Schist
SNDS	Sandstone	SLAT	Slate
MFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
LSLT	Limestone	LSLT	Limestone
RHYL	Rhyolite	GRZT	Quartzite
DMT	Dolomite		



RIMFIRE MINERALS CORPORATION

RDN PROPERTY North Downpour As(ppm) Geochemistry



RDN Soil Geochemistry Pb (ppm)

- > 364 (98th percentile) (133)
- 198 to 364 (95th percentile) (197)
- 71 to 198 (80th percentile) (546)
- 30 to 71 (70th percentile) (1008)
- < 30 (ppm) all others (4483)

RDN Silt Geochemistry Pb (ppm)

- > 43.4 (98th percentile) (6)
- 34.2 to 43.4 (95th percentile) (8)
- 22 to 34.2 (80th percentile) (19)
- 17 to 22 (70th percentile) (35)
- < 17 (ppm) all others (124)

RDN Surface Rocks Pb (ppm)

- > 4,000 (98th) (88)
- 500 to 4,000 (88)
- < 500 (ppm) (887)

MODIFIERS		MINERAL AND ALTERATION ABBREVIATIONS	
in	interbedded	hf	hornfels
ag	agglomerate	ls	laminated
ag	argillaceous	lt	lapilli tuff
at	ash tuff	ma	maroon
bd	bedded	md	medium-grained
bl	block	ms	massive
br	brown	mg	medium-grained
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
co	conglomerate	qp	quartzite
col	columnar	pw	pillowed
cr	carbonaceous	qr	quartzite
ct	cherty	qtz	quartz
dk	dark	sh	sheared
fb	fine-banded	sl	siliceous
fg	fine-grained	sk	skarn
f	fine	ss	siltstone
fo	foam	st	stockwork
fs	fine sandstone	t	tuff
g	green	vt	vein
gs	gossan	xt	crystal tuff
gr	grey		

LITHOLOGIES		SYMBOLS	
ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPQ	Feldspar Quartz Hornblende Porphyry
ARGL	Argillite	FQPD	Feldspar Quartz Porphyry
CHRT	Chert	FQPH	Feldspar Quartz Porphyry
CNGL	Conglomerate	GRDR	Granodiorite
GRWK	Greenschist	GRNT	Granite
MDST	Mudstone	PHYL	Phyllite
SHAL	Shale	SCHS	Schist
SLTS	Siltstone	SLAT	Slate
SNDS	Sandstone	INTM	Intermediate Volcanic
MFC	Mafic Volcanic	GABR	Gabbro
TRAC	Trachyte	LMST	Limestone
RSLT	Rhyolite	GRZT	Quartzite
RHYL	Rhyolite		
DMT	Dolomite		

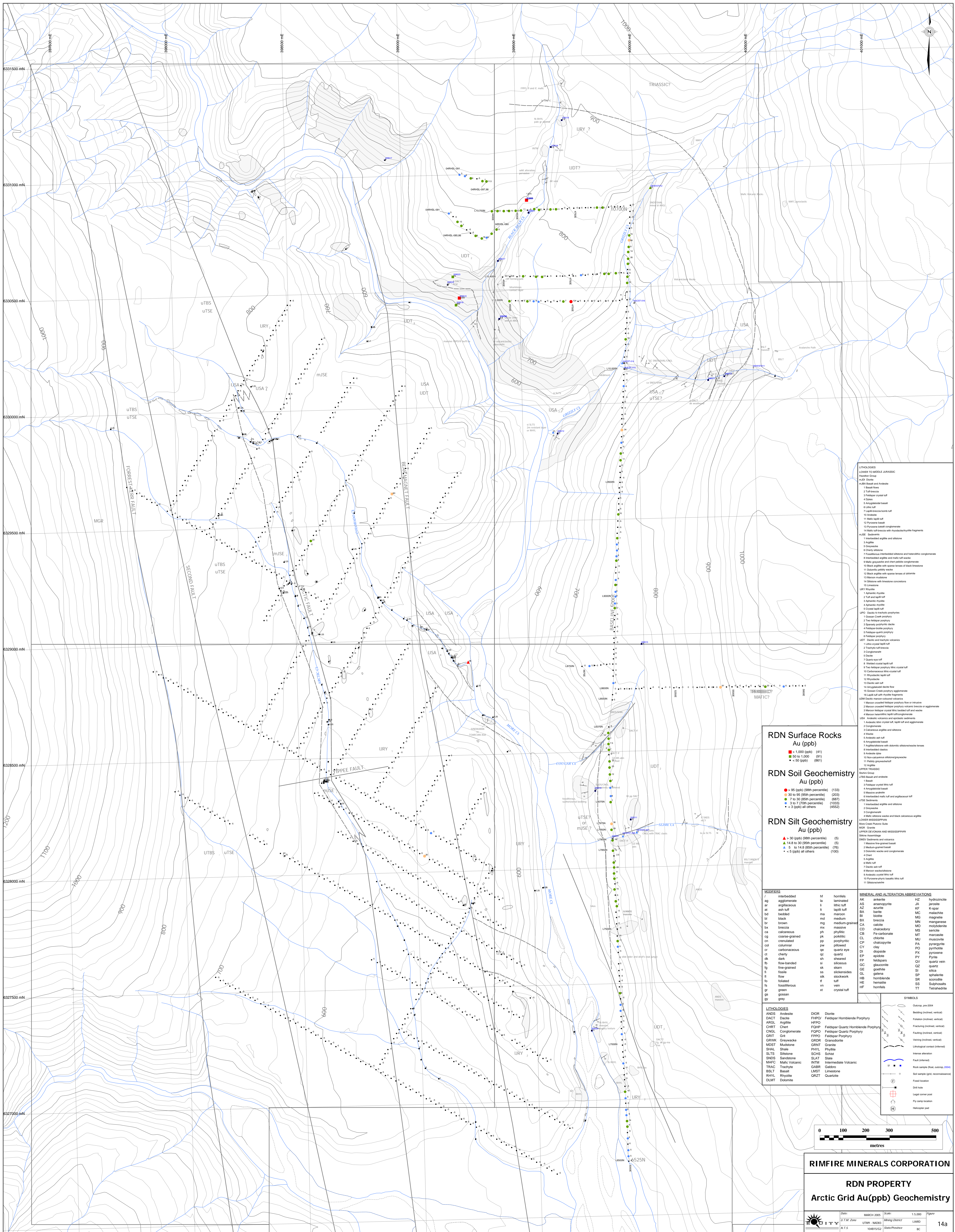
RIMFIRE MINERALS CORPORATION

RDN PROPERTY North Downpour Pb(ppm) Geochemistry

Date: MARCH 2005 Scale: 1:5,000 Figure: 13c

U.T.M. Zone: UTM-14N85 Map Sheet: L48D

N.T.S. 1048152 State Province: BC



RDN Surface Rocks Au (ppb)

- > 1,000 (ppb) (41)
- 50 to 1,000 (ppb) (91)
- < 50 (ppb) (861)

RDN Soil Geochemistry Au (ppb)

- > 95 (ppb) (99th percentile) (13)
- 30 to 95 (95th percentile) (203)
- 7 to 30 (95th percentile) (687)
- 3 to 7 (70th percentile) (1003)
- < 3 (ppb) all others (4552)

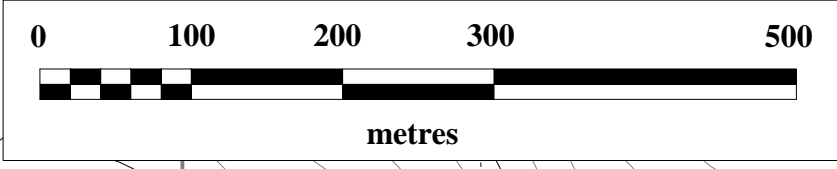
RDN Silt Geochemistry Au (ppb)

- > 30 (ppb) (99th percentile) (5)
- 14.8 to 30 (95th percentile) (5)
- 5 to 14.8 (95th percentile) (76)
- < 5 (ppb) all others (100)

MODIFIERS		MINERAL AND ALTERATION ABBREVIATIONS	
if	interbedded	hf	hornfels
ag	agglomerate	ls	laminated
ag	argillaceous	lt	lentic lens
at	ash tuff	ll	lapilli tuff
bd	bedded	ma	maroon
bl	black	mf	medium
br	brown	mg	medium-grained
br	br	ms	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
co	conglomerate	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qr	quartz eye
ct	cherty	qt	quartz
dk	dark	sh	sheared
fb	flow-banded	sk	skarn
fg	fine-grained	sk	skarn
fl	flake	sk	stockwork
fl	flow	st	tuff
fo	foliated	vt	vesicular
fs	fossiliferous	vt	vesicular
gr	green	xt	crystal tuff
gs	gossan		
gy	gyrate		

LITHOLOGIES		MINERAL AND ALTERATION ABBREVIATIONS	
ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPQ	Feldspar-Hornblende Porphyry
ARGL	Argillite	FHPQ	Feldspar-Hornblende Porphyry
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQHP	Feldspar Quartz Hornblende Porphyry
GRIT	Gravel	FQHP	Feldspar Quartz Hornblende Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNSL	Sandstone	SLAT	Slate
MFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
LSLT	Limestone	LSMT	Limestone
RHYL	Rhyolite	GRZT	Quartzite
DLMT	Dolomite		

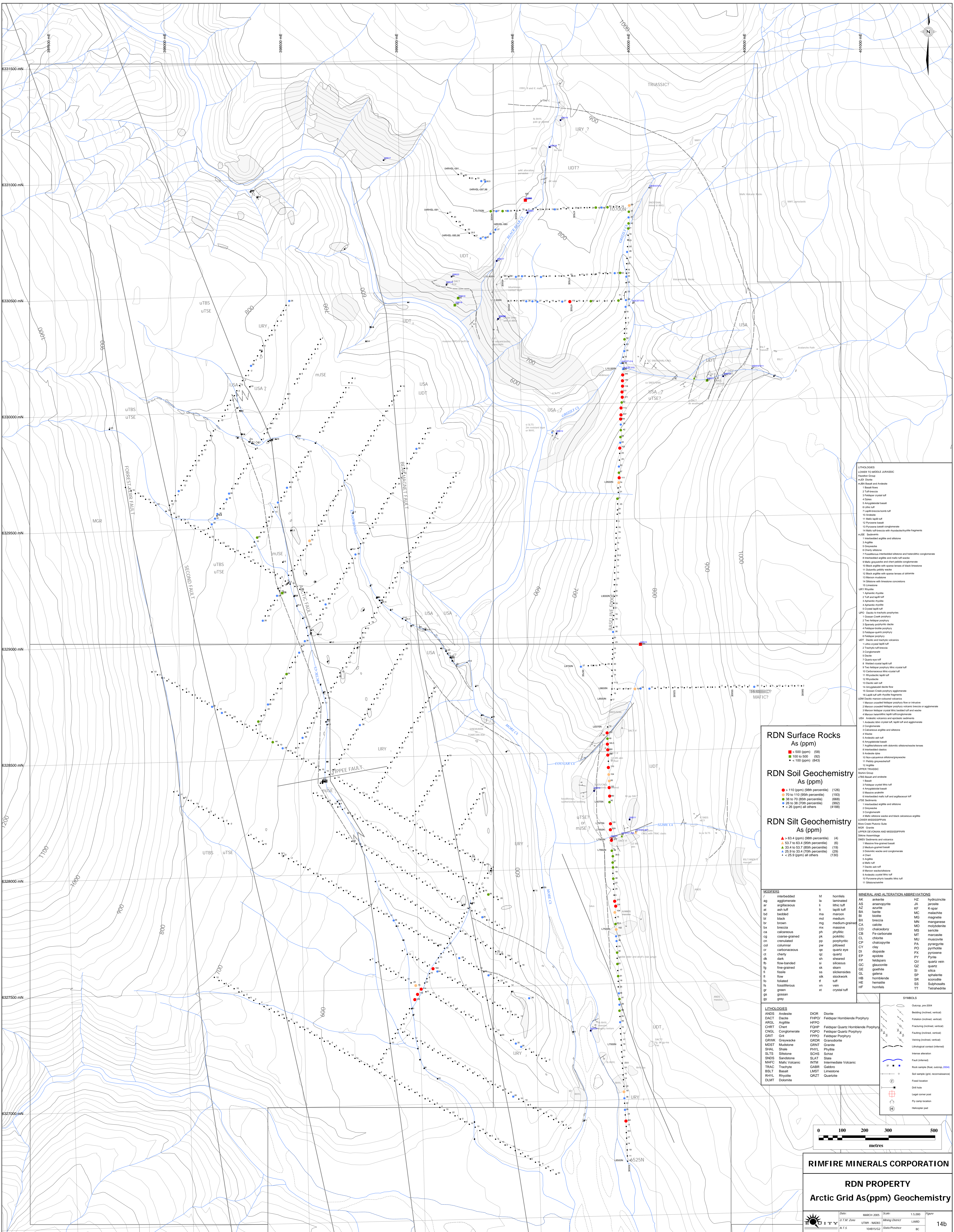
SYMBOLS	
	Outcrop (see 2004)
	Bedding (inclined, vertical)
	Fault (inclined, vertical)
	Fracturing (inclined, vertical)
	Faulting (inclined, vertical)
	Veining (inclined, vertical)
	Lithologic contact (inferred)
	Intense alteration
	Fault (inferred)
	Rock sample (flat, outcrop, 2000)
	Soil sample (ign, reconnaissance)
	Fossil location
	Drill hole
	Legal corner post
	Fire camp location
	Wellhead post

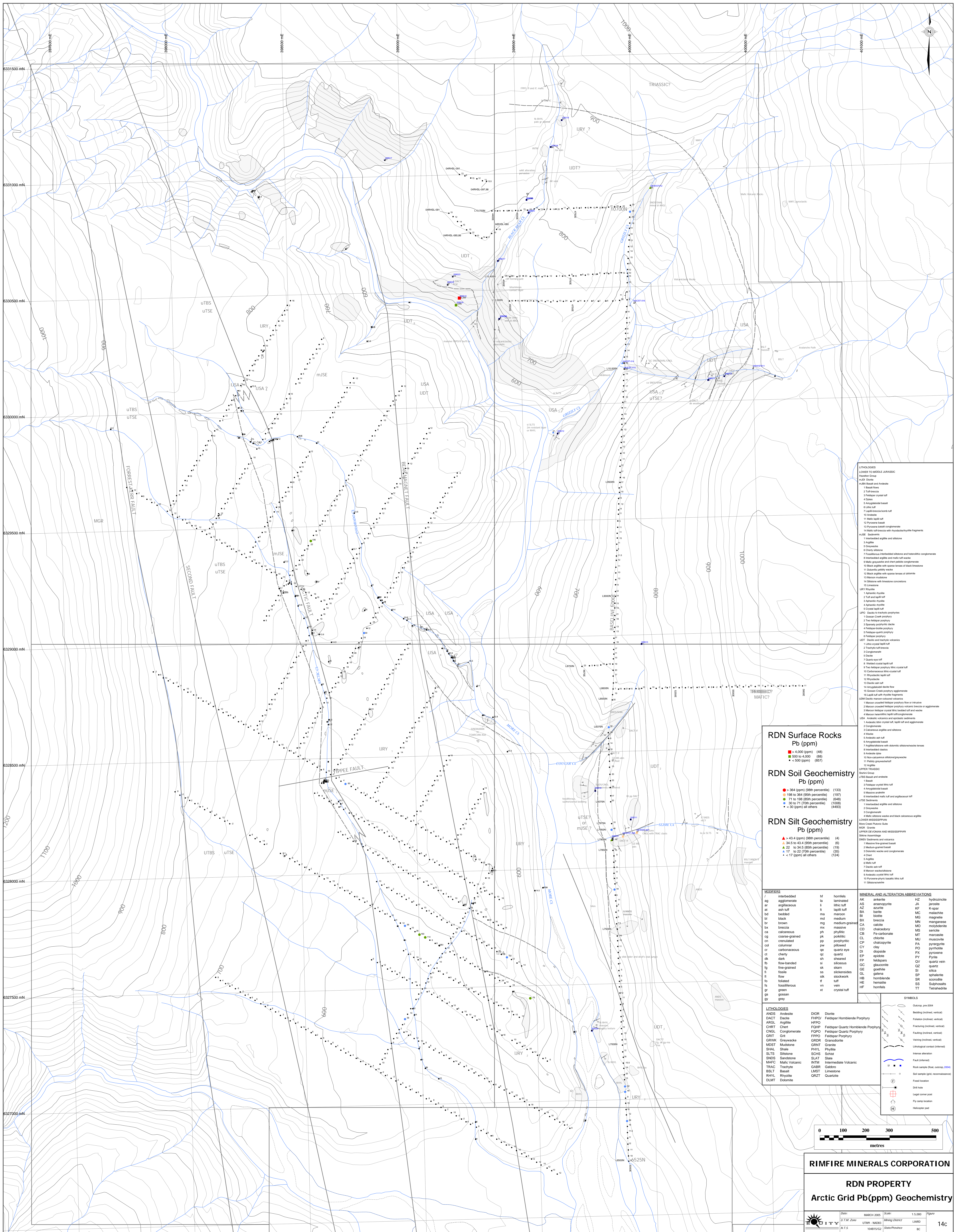


RIMFIRE MINERALS CORPORATION

RDN PROPERTY

Arctic Grid Au(ppb) Geochemistry





RDN Surface Rocks Pb (ppm)

- > 4,000 (ppm) (48)
- 500 to 4,000 (86)
- < 500 (ppm) (857)

RDN Soil Geochemistry Pb (ppm)

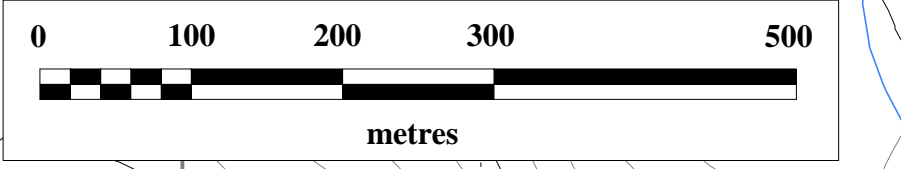
- > 364 (ppm) (98th percentile) (133)
- 198 to 364 (95th percentile) (197)
- 71 to 198 (90th percentile) (648)
- 33 to 71 (75th percentile) (1008)
- < 33 (ppm) all others (4493)

RDN Silt Geochemistry Pb (ppm)

- > 43.4 (ppm) (98th percentile) (4)
- 34.5 to 43.4 (95th percentile) (6)
- 22 to 34.5 (90th percentile) (19)
- 17 to 22 (75th percentile) (35)
- < 17 (ppm) all others (124)

MODIFIERS		MINERAL AND ALTERATION ABBREVIATIONS	
if	interbedded	hf	hornfels
ag	agglomerate	ls	laminated
ag	argillaceous	lt	lentic
at	ash tuff	lt	lapilli tuff
bd	bedded	ma	maroon
bl	black	mf	medium
br	brown	mg	medium-grained
br	brilliant	ms	massive
ca	calcareous	ph	phyllitic
cg	coarse-grained	pk	poikilitic
co	conglomerate	pp	porphyritic
col	columnar	pw	pillowed
cr	carbonaceous	qr	quartz eye
ch	cherty	qt	quartz
dk	dark	sh	sheared
fb	fine-bedded	sk	siliceous
fg	fine-grained	sk	skarn
fl	flattish	ss	streaked
fl	flow	st	stockwork
fo	foliated	t	tuff
fs	fossiliferous	vt	vesicular
g	green	vt	vesicular tuff
gs	gossan	cr	crystal tuff
gr	grey		

LITHOLOGIES		MINERAL AND ALTERATION ABBREVIATIONS	
ANDS	Andesite	DIOR	Diorite
DACT	Dacite	FHPQ	Feldspar-Hornblende Porphyry
ARGL	Argillite	FQHP	Feldspar Quartz Hornblende Porphyry
CHRT	Chert	FQHP	Feldspar Quartz Hornblende Porphyry
CNGL	Conglomerate	FQHP	Feldspar Quartz Hornblende Porphyry
GRIT	Gravel	FQHP	Feldspar Quartz Hornblende Porphyry
GRWK	Greywacke	GRDR	Granodiorite
MDST	Mudstone	GRNT	Granite
SHAL	Shale	PHYL	Phyllite
SLTS	Siltstone	SCHS	Schist
SNSD	Sandstone	SLAT	Slat
MVFC	Mafic Volcanic	INTM	Intermediate Volcanic
TRAC	Trachyte	GABR	Gabbro
BSLT	Basalt	LMST	Limestone
RHYL	Rhyolite	QRZT	Quartzite
DLMT	Dolomite		



RIMFIRE MINERALS CORPORATION
RDN PROPERTY
Arctic Grid Pb(ppm) Geochemistry

