



Date: 12/12/12 Supervising Geologist: MGC
Drilling Company: Bullion Sampler:
Rig: 2 Driller: (P)

General Rig Inspection		Safety		General		Comments
Crew		Work area clear of hazards?	<u>Y</u>	Any significant oil leaks? Y/N	<u>N</u>	
Correct PPE?	<u>Y</u>	Fire Extinguishes accessible?	<u>Y</u>	Rig & support vehicles roadworthy?	<u>Y</u>	
Fit for Work?	<u>Y</u>	Whipchecks attached?	<u>Y</u>	Safety signage clear & legible?	<u>Y</u>	
Inducted & trained?	<u>Y</u>	High pressure hoses marked?	<u>Y</u>	Main gauges clear & functional?	<u>Y</u>	

[illegible]

Downtime	Total Metres:	0
----------	---------------	---

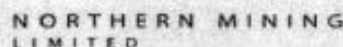
Duration	Details

Chargeable Items

[illegible]

Additional Comments:

[illegible]



Date: 13/12/2012

Geologist: *NAG-6*

Dip: 70

Text ID: FL24961

Sampler

Arithmetic:

[illegible]

Comments :-

Wardens
from 14m

all black

Chung from
57m

Button sold
works from
6-7m

Some ground
works from 82m



NORTHERN MINING
LIMITED

Area 2

Napplebar Yard RAB/aircore December 2012

Date: 14/12/2012
Ten ID: EL24961

Geologist: MGG
Sampler:

Dip:
Azimuth:

GDA94					Regolith 1				Regolith 2				Lithology 1				Lithology 2				Vein/sulphide			Comments
Drill Hole Info	From	To	Colour	Weathering	Reg 1 grain size	variant	mineral	Reg 2 grain size	variant	mineral	Lith 1 grain size	variant	mineral	Lith 2 grain size	variant	mineral	Type	Variant	%					
ID NPM12006	0	4	rd	hls	fg	SSD											Mn		0					
E 318879	4	6	wh	-	dm	SST											"		<1	? mn film				
N 7274194	6	11	rd	-	fg	SSD											"		0					
	11	15	wh	-	dm	SST											"		0	Minor acid figs				
	15	17	rd	-	fg	SSD											"		0					
	17	18	wh	-	dm	SST											"		0					
	18	23	rd	-	fg	SSD											"		0					
	23	27	gr	Sls		SST											"		0					
	27	28	wh	-	dm	SST											"		0	Minor acid figs				
	28	36	gr	-		SST											"		0					
	37	41	rd	Hls	fg	SSD											"		0					
	41	95	rdgr		fg	SSD + SST											"		0	variably interbedded				
	95	106	rdgr		? contamination - probably same unit as above but with cove-in.																0			
NPM12007	0	7	rdgr		fg	SSD + SST											Mn		0	variably interbedded				
318759	7	10	lgr	Hls?	dm	SST											"		<1	vigorous acid figs				
7274377	10	29	rdgr		fg	SSD + SST											"		0	variably interbedded				
	29	33	hls		dm	SST											"		0	minor acid figs				
	33	41	rdgr		fg	SSD + gr SST											"		0					
	41	58	gr		mg	SSD											"		0	rare acid figs				
	58	65			fg	SSD + gr SST											"		0	no acid figs				
	65	66			mg	SSD											"		0	"				
	66	77	rdgr		fg	SSD + gr SST											"		0	" - chocolate br mg fg SSD				



NORTHERN MINING
LIMITED

Area 2

Importance of water table - Concentrating Mn?
- drilling samples contain/washing

Napplebar Yard RAB/aircore December 2012

Date: 14/12/2012
Ten ID: EL24961

Geologist:
Sampler:

Dip:
Azimuth:

GDA94 Drill Hole Info	From	To	Colour	Weathering	Regolith 1				Regolith 2				Lithology 1				Lithology 2				Vein/sulphide			Comments
					Reg 1	grain size	variant	mineral	Reg 2	grain size	variant	mineral	Lith 1	grain size	variant	mineral	Lith 2	grain size	variant	mineral	Type	Variant	%	
NP112008	0	8	dkr		fg	SSD															Mn		0	
E 319202	8	10	br		50% clast + 50% fg	SSD															Mn		1%	
N 7274111	10	12	gr		clast or silified fg	SSD															Mn		5%	
	12	13	bk		mn-rich band																Mn		70%	
	13	26	rb		dk siltstone (pale & dark clasts)																Mn		<1%	moderate acid fzz
	26	33	gy		siltstone + 10% clast																Mn		0	
	33	42	dkr		a fg sandstone																-		0	
	42	43	gr		siltstone																-		0	
NP112009	0	13	dkr		fg SSD + 5% SST																Mn		0	
319182	13	16	gy		siltstone																-		0	
7274141	16	17	dkr		fg SSD + 5% SST																-		0	
	17	18	gy		siltstone																-		0	
	18	26	dkr		fg SSD + 5% SST																-		0	
	26	28	yb		dk SST + 20% clast																Mn		2	
	28	57	rb		dk SST (pale & dark clasts)								<5% fg SSD interbeds								-		0	moderate acid fzz
	57	63	lbr		limestone																-		0	vigorous acid fzz
	63	76	gy		limestone																-		0	"
NP112010																								
319300																								
7274231																								
Comments -																								

Wet sample from 40

