BC Geological Survey Assessment Report 32016



ASSESSMENT REPORT

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LOGICAL SURVEY BRAIN

TITLE:

### 2010 REPORT ON GEOLOGICAL MAPPING OF WHEATON LIME CLAIMS

CLAIMS WORKED: WHEATON LIME 1,3 and 4.

RECORD NUMBER: 672084, 672103, 672123

MINING DIVISION: LIARD

NTS MAP SHEET: 104I/06E

MINERAL TITLES REFERENCE MAP: M104I 035

LATITUDE: 58°18'

LONGITUDE: 128°04

CLAIM OWNER: HARD CREEK NICKEL CORP. FMC #103195

OPERATOR: HARD CREEK NICKEL CORP.

DATE SUBMITTED: 3 FEBRUARY, 2011

AUTHORS: GREG ROSS, TONY HITCHINS

Ministry of Energy, Mines & Petroleum Resources Mining & Minerals Division BC Geological Survey	ASSESSMENT REPORT TITLE PAGE AND SUMMAR
	ime Glannis AA 132520
AUTHOR(S) Tony Hitchink SIGNATURE(S) C	Artherey Hebble
NOTICE OF WORK PERMIT NUMBER(S)/DATE(S)	YEAR OF WORK 2010
STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 4-802	
PROPERTY NAME Wheaton Lime	
CLAIM NAME(S) (on which work was done) 672084 672103	672123
MINING DIVISION Liard NTS 104 [ ATITUDE 58 ° 18 ' LONGITUDE 128 ° 00 DWNER(S) Hard Creek Nickel Corp 2) MINERA (1) Hard Creek Nickel Corp 2) MINERA Rec'd	(at centre of work)
VAILING ADDRESS 1060-1090 West Georgis Vancouver, BC V6E 3V7	B O 8 2011
DPERATOR(S) [who paid for the work] ) Haved Greeke Nickel Corp 2)	
as above	
PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineraliz	

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(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area) Ground, mapping <u>1. 25,000</u>	2.5 km2	672084,672103	\$ 12,202.03
Photo interpretation		672084,672103 672123	
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
	6		
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for)			
Soil		2	
Silt			
Rock 14 samples for which Other and 23 elements	ruck, Lew sulphur	672084,672103	1050.
Other and 23 element	s for 4 and digesteris	672084,672103 672123	.,
DRILLING and ICP-ES			
(total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric			
Trench (metres)			
Underground dev. (metres)			
Other			
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Appendix D	Statement of Qualifications

#### INTRODUCTION

Hard Creek Nickel has been expanding the size of its nearby Turnagain nickel sulphide property and conducting a variety of metallurgical tests on core samples since 2003. As this work advanced, it was considered prudent to locate a local source of metallurgical limestone. Consequently, several claim blocks have been staked to cover exposed limestone located between the Turnagain property and the town of Dease Lake. Wheaton Lime is the latest claim block to be staked and sampled.

#### PROPERTY LOCATION, ACCESS and PHYSIOGRAPHY

The Wheaton Lime Property is located in the Liard Mining Division, 55 km east-southeast of the community of Dease Lake and 5 km east of Turnagain Lake (Figure 1). Coordinates for the centre of the claim group are 58°19' north latitude and 129°04' west longitude on NTS map sheet 104I/6E.

Although the resource access road in the Turnagain valley extends east from Highway 37 and passes 10 kilometres north of the property and placer access trails in Wheaton Creek reach within four kilometres, a helicopter based in Dease Lake was used for daily set outs during the mapping.

Elevations on the claims range from 1,230 metres to1,670 metres and the topography consists of rolling hills incised by drainages in the eastern and western portions of the property. Most of the property is overlain by till and fluvio-glacial material which supports an abundant growth of willow and alder near drainages and higher elevations with a dense growth of conifers in drier areas. Grass and sedge meadows are extensive in the headwaters of Wheaton Creek. Extensive bedrock was noted along several unnamed creeks, located immediately north of Settea Creek and flowing westerly, and in several tributaries of Wheaton Creek.

#### CLAIMS

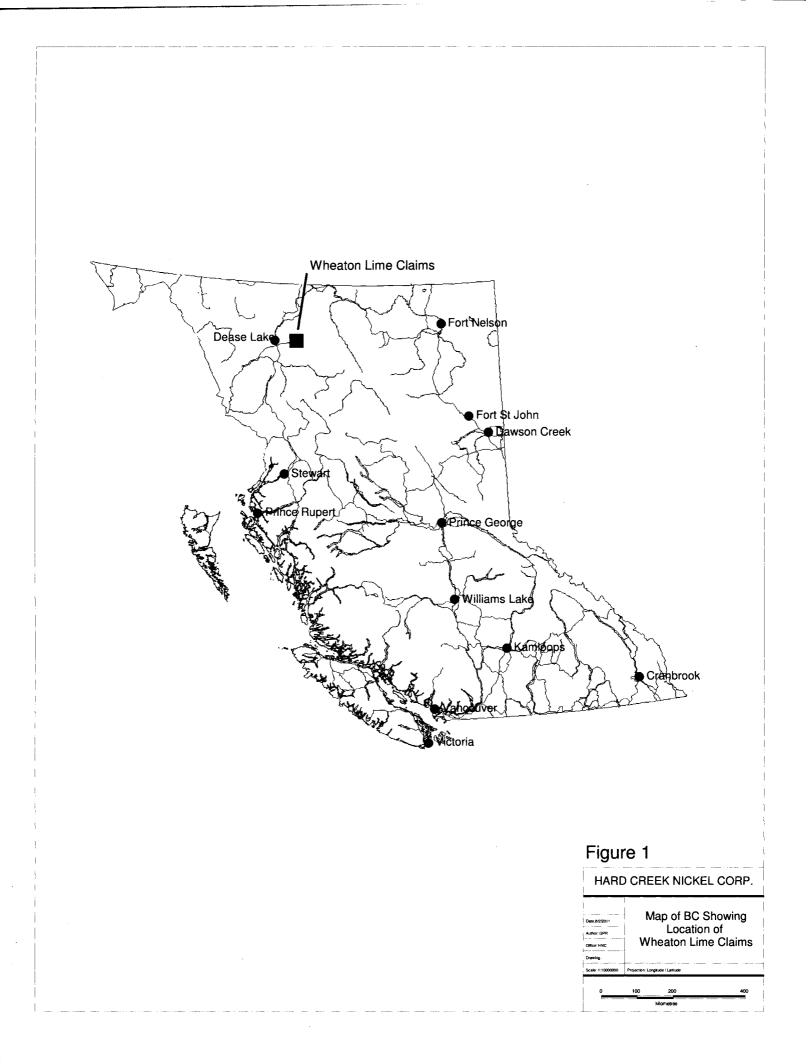
The property comprises the 1-4 Wheaton Lime claims (#672084, 672085, 672103 and 672123), staked electronically by Hard Creek Nickel Corp. on November, 20, 2009. Total area of the contiguous claims is 1360.3 hectares. Claim boundaries in relation to drainage features are shown in Fig. 2 and pertinent claim data is tabulated in Appendix A.

#### **PREVIOUS WORK**

Although the Turnagain River drainage has experienced a long history of small scale placer gold and jade mining, there has been limited exploration work reported in the area covered by the present four Wheaton Lime claims.

In 1980 Dupont Exploration conducted stream sediment sampling along a southwest flowing tributary of Settea Creek in response to an earlier 5000ppb heavy mineral gold anomaly. No anomalous results were reported from the additional sediment sampling and no further work was conducted (Strain, 1981).

Cameron Scott staked the Falcon claims in 1985 to cover reported silver and base metal mineralization in quartz stockworks and siliceous zones hosted by limestona, located in the headwaters of Wheaton Creek. Preliminary work in 1986 included geological mapping,geochemical soil sampling, VLF-EM and magnetic surveys on a 5 line-kilometre flagged grid. Three chip samples across 35-60 centimetre wide quartz veins with accessory tetrahedrite, galena, sphalerite and pyrite returned 103-435g/t silver and 0.38 to >1% copper. The geochemical soil survey indicated Au, Ag, As, Cu, Pb and Zn could be useful pathfinders for



locating additional, similar mineralization. The geophysical surveys outlined anomalies parallel to the main lithological contacts in the vicinity of the mineralization (Christopher, 1986).

The 1988 geochemical program on the Falcon claims was limited to analyzing the remaining samples originally collected during the 1986 program. No significant anomalies were reported (Scott, 1988) and there is no evidence of any additional work on the falcon claims.

The area around Wheaton Creek has had a long history of placer gold mining and recovering jade from both alluvial and bedrock prospects. The better known prospects are summarized below.

Wheaton (Boulder) Creek (Minfile #104I 004) has produced coarse placer gold intermittently from its discovery to the present day. Recent activity has been limited to 2-3 miners using a rock truck to haul gravel to a trommel. Crews drive daily a short distance from accommodation in Boulder City.

Settea Creek (Minfile #104I 087) placer workings are located immediately south of the Wheaton Lime claims. Minor placer gold production has occurred in the past and recent attempts were made in 2009 and 2010 to move equipment to the creek.

#### **GEOLOGICAL SETTING**

#### **Regional Geology**

The geology of the Cry Lake map sheet (104 I) and adjacent Dease Lake map sheet (104 J) was investigated by H. Gabrielse and others between 1956-1991 and eventually published as GSC Bulletin 504 in 1998 (Gabrielse, 1998). These map sheets are underlain by six discrete geological terranes, each bounded by regional faults and identified by unique stratigraphic and structural characteristics.

The granodiorite-quartz monzonite intrusions comprising the Cassiar Batholith and stratigraphy of Ancestral North America underlie the northeastern half of the Cry Lake sheet. The southwestern half of the Cry Lake sheet and most of the Dease Lake sheet are underlain by accreted terranes (Quesnellia, Cache Creek and Stikinia) added to Ancestral North America during Mesozoic time.

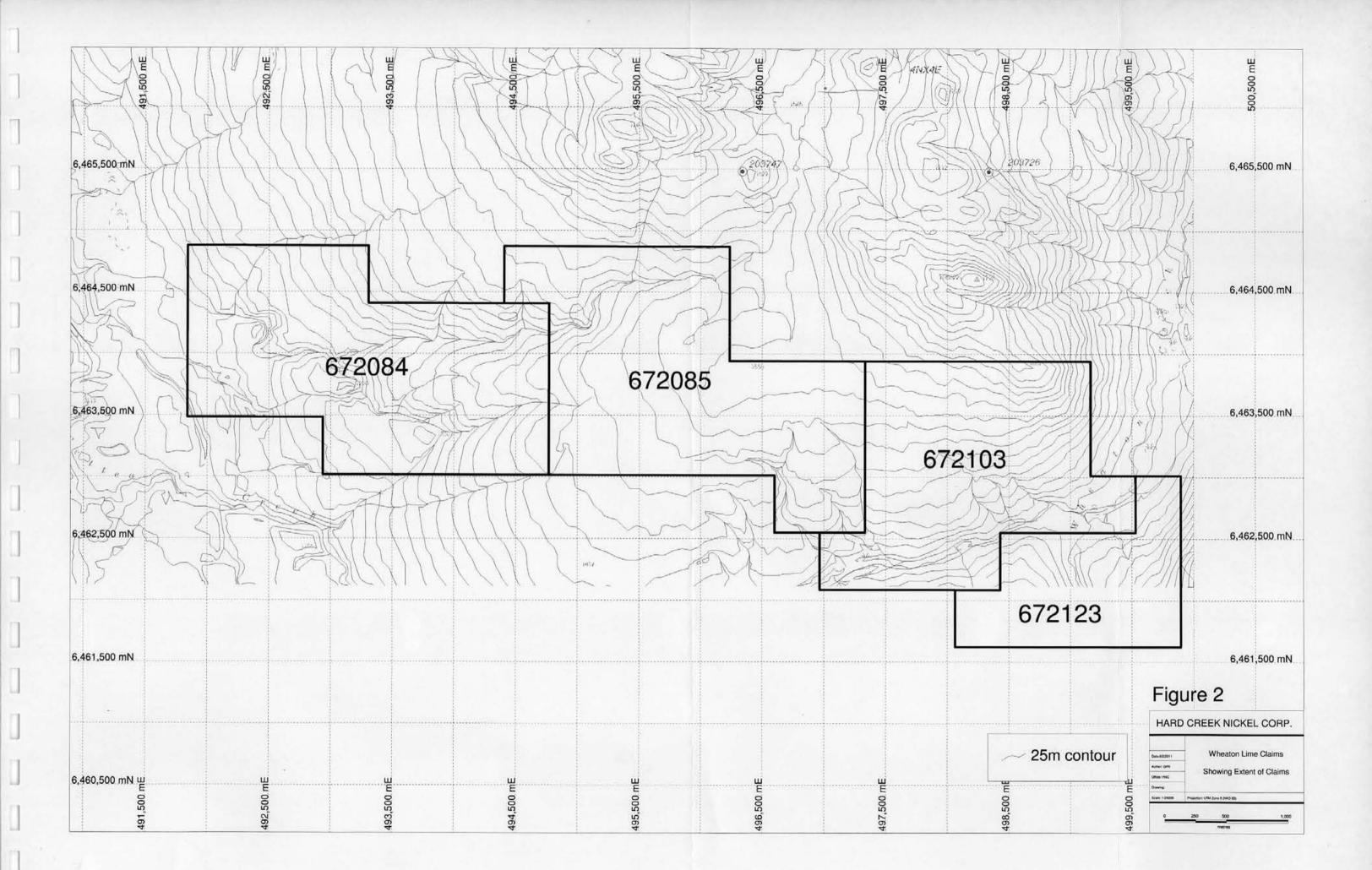
The Wheaton Lime claims are located 25 kilometres southwest of the fault contact between Ancestral North America and the accreted terranes in an area underlain by limestone and phyllitic rocks of the Cache Creek terrane.

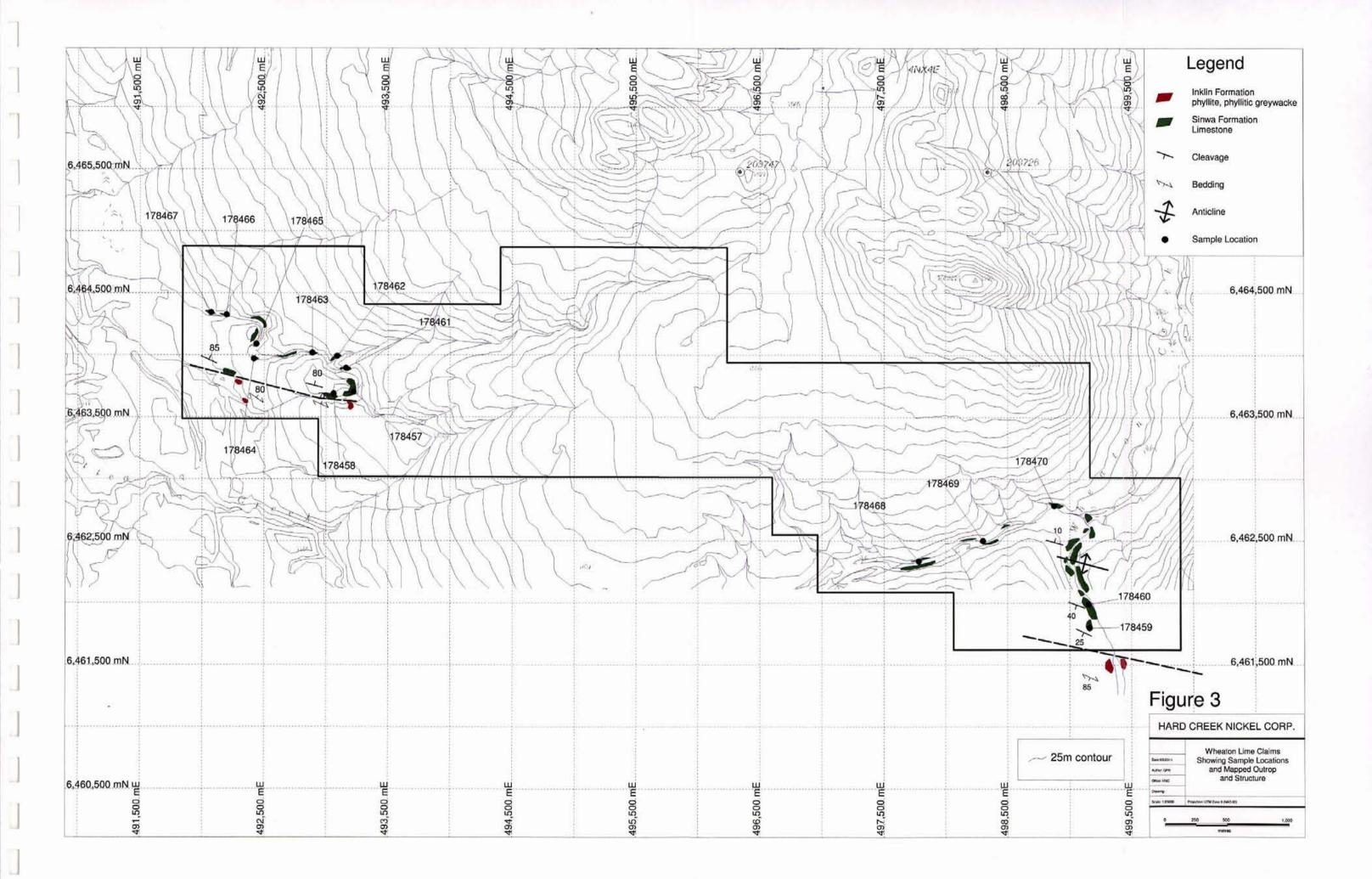
#### **Property Geology**

The claims were acquired to cover Sinwa Formation limestone of Upper Triassic age, exposed in the core of an anticline in an inlier surrounded by phyllitic slate and pebble conglomerate of the Lower Jurassic Inklin Formation.

Traverses were designed to concentrate on sections of the Sinwa limestone exposed in several well incised creeks, located immediately north of Settea Creek in the western portion of the claims, and in the headwaters of Wheaton Creek in the eastern portion of the property. Geology and sample locations appear in Fig 3. Limestone samples were collected and analyzed to investigate their suitability as a pH control in a metallurgical facility. Analytical results are documented in Appendix B.

The limestone is a light grey weathering, medium to dark grey on fresh surface, fetid and crystalline to fossiliferous. In several of the larger exposures, located north of Settea Creek, beds of massive, oolitic and fossiliferous limestone 20-500 centimetres thick are separated by platy weathering beds 10-20 centimetres thick. Pelecypod shell fragments to 10 centimetres in length were the most abundant fossils. Bedding in this area strikes approximately 115° with dips either vertical or steeply to the north.





Sinwa Formation limestone is exposed in the core of a broad anticline in the headwaters of Wheaton Creek, in the southeastern portion of the property. Several large limestone outcrops are cut by anastomosing white quartz vains generally 2-8 centimetres thick, but occassionally 30 centimetres, and quartz lenses up to 2 metres in size.

Thickness of the Sinwa Formation was not determined since the base is not exposed on the claims. Gabrielse (1998) noted the thickness to be variable and that tight folding has led to significant thickening of the unit but, estimated a thickness of up to 75 metres for exposures located 12 kilometres south east of the property.

Phyllitic slate and greywacke Inklin Formation overlies the Sinwa Formation, probably unconformably, (Gabrielse, 1998) but contacts are not exposed on the property.

#### SAMPLES

Fourteen samples of the Sinwa Limestone were collected from outcrops and analyzed by Acme Laboratories for 21 major oxides and elements by lithium metaborate fusion and 23 elements by four acid ICP-ES. Samples are tabulated below and analytical results are in Appendix B.

Sample #	Northing	Easting	Description
178457	6463702	493220	20m discontinuous chips, vertical orientation
178458	6463688	493060	20m discontinuous chips, across bedding
178459	6461800	499160	30m discontinuous chip, base of o/c
178460	6461990	499152	10m discontinuous chip, fetid
178461	6463894	493161	discontinuous chips over 1m x 1m panel
178462	6463992	493089	discontinuous chips over 1m x 1m panel
178463	6464018	492889	discontinuous chips over 1m x 1m panel
178464	6463970	492417	discontinuous chips over 1m x 1m panel
178465	6464089	492436	discontinuous chips over 1m x 1m panel
178466	6464325	492196	discontinuous chips over 1m x 1m panel
178467	6464343	492071	discontinuous chips over 1m x 1m panel
178468	6462336	497782	discontinuous chips over 1m x 1m panel
178469	6462501	498301	discontinuous chips over 1m x 1m panel
178470	6462785	498876	discontinuous chips over 1m x 1m panel

For all 14 rock samples sulphur values were less than 0.02%, total iron did not exceed 0.33% and the heavy metal values were low. CaO was between 51-56% except for three samples, 178457, 178459 and 178460, were the MgO content varied between 7.2 and 10.9% probably indicative of localized dolomitization of the limestone. SiO<sub>2</sub> content was generally less than 1% except for samples 178460,178464, 178468 and 176470, where higher silica could have been contribute by a combination of detrital quartz and occassional quartz veins.

#### CONCLUSION

Limestone of the Sinwa Formation has minimal impurities and is well exposed in stream valleys near the eastern and western claims of the Wheaton Lime property.

#### RECOMMENDATION

Additional exploration will be required to determine the thickness of the limestone and any continuity through the central portion of the claim block. However, prior to any additional exploration, limestone on the Wheaton Lime property should be compared, in terms of quality and ease of future access, to the limestone on the other properties held by Hard Creek Nickel Corp.

#### REFERENCES

- Christopter, P.A., 1986: Geological, Geochemical and Geophysical Report on the Falcon Property, Liard Mining Division, Tournagain Lake Area, B.C. Ministry of Energy and Mines Assessment Report #14954.
- Gabrielse, H., 1998: Geology of Cry Lake and Dease Lake Areas, North-Central British Columbia, Geological Survey of Canada Bulletin 504.
- Scott, T.C., 1988: Geochemical Assessment Report on the Falcon Property, Liard Mining Division, Tournagain Lake Area, B.C. Ministry of Energy and Mines Assessment Report #17490.
- Strain, D. M., 1981: Geochemical Report on the Y Claim Group, Liard Mining Division, B.C. Ministry of Energy and Mines Assessment Report #0933.

## APPENDIX A

LIST OF MINERAL CLAIMS

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
672084	WHEATON LIME 1	103195 (100%)	1041	2009/nov/20	2013/oct/01	425.0418
672085	WHEATON LIME 2	103195 (100%)	1041	2009/nov/20	2012/oct/01	425.0651
672103	WHEATON LIME 3	103195 (100%)	104	2009/nov/20	2013/oct/01	340.1173
672123	WHEATON LIME 4	103195 (100%)	104	2009/nov/20	2012/oct/01	170.0985

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## APPENDIX B

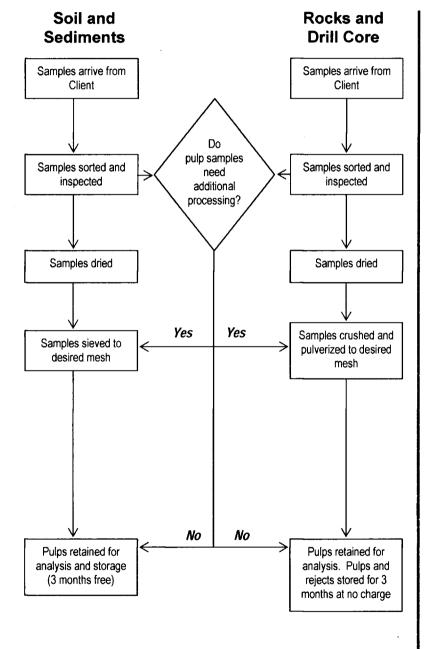
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### ANALYTICAL RESULTS AND METHODS





#### **GENERAL SAMPLE PREPARATION METHODS**



#### Comments

*Receiving:* Samples arrive via courier, post or by client drop-off; shipment inspected for completeness.

*Sorting and Inspection:* Samples sorted and inspected for quality of use (quantity and condition). Pulp samples inspected for homogeneity and fineness. Coarse pulps are screened or pulverized after getting client's approval.

*Drying:* Wet or damp samples are dried at 60°C (40°C if specified by the client).

*Sieving:* Soil and sediment sieved to -80 mesh ASTM (-177 microns) unless client specifies otherwise. Sieve cleaned by brush and compressed air between samples. Reference material G-1 (pulp made of granite blank) is carried as first sample in sequence (sieve>weigh>digest>analyse) to monitor background noise.

*Crushing and Pulverizing:* Rock and Drill Core crushed to 70% passing 10 mesh (2 mm), homogenized, riffle split (250 g subsample) and pulverized to 95% passing 150 mesh (100 microns). Crusher and pulverizer are cleaned by brush and compressed air between routine samples. Granite wash scours equipment after high-grade samples, between changes in rock colour and at end of each file. Granite is crushed and pulverized as first sample in sequence and carried through to analysis to monitor background noise.

*Compositing:* Equal weights of crushed, pulverized or sieved material from 2 or more samples are combined and pulverized for 60+ seconds to produce a homogeneous mixture.

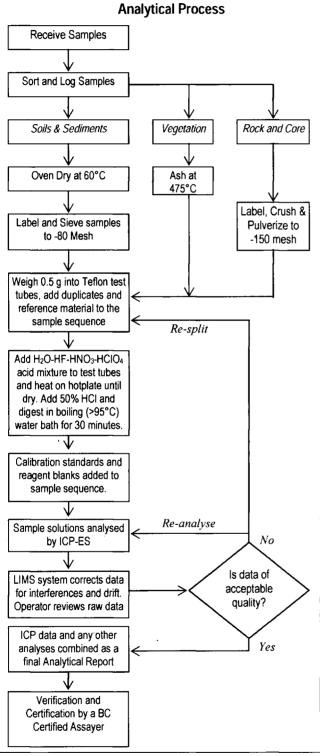
**Storage:** Pulp samples (up to 100g for soils or sediments and up to 250 g for rock and drill core) are archived for 3 months at no cost. Soil and sediment rejects are discarded immediately. Rock and drill core rejects are stored for 3 months at no charge. Client may request additional storage, return or disposal of pulps and rejects after initial free storage period.

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#### METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 7TD – MULTI-ELEMENT ASSAY BY ICP-ES • 4-ACID DIGESTION



#### Comments

#### Sample Preparation

All samples are dried at 60°C. Soil and sediment are sieved to -80 mesh (-177  $\mu$ m). Moss-mats are disaggregated then sieved to yield -80 mesh sediment. Vegetation is pulverized or ashed (475°C). Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100  $\mu$ m) in a mild-steel ring-and-puck mill. Pulp splits of 0.5 g are weighed into Teflon test tubes.

#### Sample Digestion

A 20 mL aliquot of the acid solution (2:2:1:1 H<sub>2</sub>O-HF-HClO<sub>4</sub>-HNO<sub>3</sub>) is added, heated until fuming on a hot plate and taken to dryness. A 16 mL aliquot of 50% HCl is added to the residue and heated in a hot-water bath (~95°C) for 30 minutes. After cooling the solutions are transferred to 100 mL volumetric flasks and made to volume with 5% HCl.

#### Sample Analysis

Solutions aspirated into a Spectro Ciros Vision ICP emission spectrograph are analysed for a 22 element package comprising: Ag, Al, As, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, W and Zn. Very high grade samples may require a 1 g to 250 mL or 0.25 g to 250 mL sample to solution ratio for accurate determination.

#### **Quality Control and Data Verification**

An Analytical Batch (1 page) comprises 36 samples. QA/QC protocol incorporates a sample-prep blank (G-1) carried through all stages of preparation and analysis as the first sample, a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and an aliquot of in-house Standard Reference Materials like STD R3 to monitor accuracy.

Raw and final data undergo a final verification by a British Columbia Certified Assayer who signs the Analytical Report before it is released to the client.

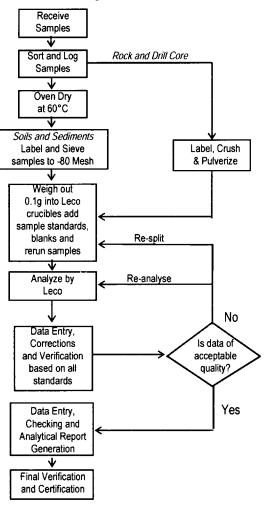
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## METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 2A: TOTAL CARBON & SULPHUR

#### **Analytical Process**



#### Comments

#### Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh ASTM (-177 microns), rocks and drill core are crushed and pulverized to -150 mesh ASTM (-100 microns). Moss-mat samples are dried (60°C), macerated then sieved to recover -80 mesh sediment or ashed at 550°C (upon a client's request). Sample splits (0.1 g) are placed in Leco crucibles. Duplicate splits of crushed (rejects duplicate) and pulverized (pulps duplicate) fractions are included with every 36 drill core or trench samples to define sample homogeneity (reject duplicate) and analytical precision (pulp duplicate). Duplicate pulp splits (only) are included in every batch of soil, sediment and routine rock samples. A blank and in-house standard material STD CSC are carried through weighing, ignition and analytical stages to monitor accuracy.

#### Sample Analysis

Analysis is by infrared adsorption using a Leco CS244 or CS200 Carbon-Sulphur analyser. After precise weighing, induction flux is added and the sample is ignited at >1650°C in an induction furnace. A carrier gas sweeps up released carbon and sulphur to be measured by adsorption in an infrared spectrometric cell. Results are total and attributed to the presence of carbon and sulphur in all forms.

#### **Data Evaluation**

Raw and final data from the Leco Carbon-Sulphur analyser undergoes a final verification by a British Columbia Certified Assayer who must sign the analytical report before release to the client.

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## METHOD SPECIFICATIONS GROUP 4A & 4B – LITHOGEOCHEMICAL WHOLE ROCK FUSION

Package Codes: Sample Digestion: Instrumentation Method: Applicability: 4A, 4B Lithium metaborate/tetraborate fusion ICP-ES (4A, 4B), ICP-MS (4B) Sediment, Soil, Vegetation, Moss-mat, Non-mineralized Rock and Drill Core

#### Method Description:

Prepared sample is mixed with LiBO<sub>2</sub>/Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub> flux. Crucibles are fused in a furnace. The cooled bead is dissolved in ACS grade nitric acid. Loss on ignition (LOI) is determined by igniting a sample split then measuring the weight loss. Total Carbon and Sulphur are determined by the Leco method (Group 2A).

Element	Group 4A Detection	Upper Limit	
SiO <sub>2</sub>	0.01 %	100 %	
Al <sub>2</sub> O <sub>3</sub>	0.01 %	100 %	
Fe <sub>2</sub> O <sub>3</sub>	0.04 %	100 %	
CaO	0.01 %	100 %	
MgO	0.01 %	100 %	
Na <sub>z</sub> O	0.01 %	100 %	
K <sub>2</sub> O	0.04 %	100 %	
MnO	0.01 %	100 %	
TiO <sub>2</sub>	0.01 %	100 %	
P <sub>2</sub> O <sub>5</sub>	0.01 %	100 %	
Cr <sub>2</sub> O <sub>3</sub>	0.002%	100 %	
LOI	0.1 %	100 %	
с	0.01 %	100 %	
S	0.01 %	100 %	

Element	Group 4A Detection	Group 4B Detection	Upper Limit
Au -		0.5 ppb	100 ppm
Ag		0.1ppm	100 ppm
As	(10)	1 ppm	10000 ppm
Ва	5 ppm	1 ppm	50000 ppm
Ве		1 ppm	10000 ppm
Bi	· ·	0.1 ppm	2000 ppm
Cd	101	0.2 ppm	2000 ppm
Со	20 ppm	0.2 ppm	10000 ppm
Cs		0.1 ppm	10000 ppm
Cu	5 ppm	0.1 ppm	10000 ppm
Ga		0.5 ppm	10000 ppm
Hf		0.1 ppm	10000 ppm
Hg	NUM STAR	0.1 ppm	100 ppm
Мо		0.1 ppm	2000 ppm
Nb	5 ppm	0.1 ppm	50000 ppm
Ni	20 ppm	0.1 ppm	10000 ppm
Pb		0.1 ppm	10000 ppm
Rb		0.1 ppm	10000 ppm
Sb		0.1 ppm	2000 ppm
Sc	1 ppm	-	10000 ppm
Se		0.5 ppm	100 ppm

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Fusio	Rock	Element	Group 4A Detection	Group 4B Detection	Upper Limit
	[	Sn	-	1 ppm	10000 ppm
	[	Sr	2 ppm	0.5 ppm	50000 ppm
		Та	annara loga	0.1 ppm	50000 ppm
	a second of	Th	iletano)/ lie	0.2 ppm	10000 ppm
		TI		0.1 ppm	1000 ppm
	[	U		0.1 ppm	10000 ppm
	ſ	v	-	8 ppm	10000 ppm
	1	w	-	0.5 ppm	10000 ppm
	(hornage)	n ny Y	3 ppm	0.1 ppm	50000 ppm
	ana ang ing ing ing ing ing ing ing ing ing i	Zn	5 ppm	1 ppm	10000 ppm
	m Grad A	Zr	5 ppm	0.1 ppm	50000 ppm
		La	-	0.1 ppm	50000 ppm
		Ce	30 ppm	0.1 ppm	50000 ppm
	REAR OF THE OF	Pr	-	0.02 ppm	10000 ppm
	1.0	Nd		0.3 ppm	10000 ppm
		Sm		0.05 ppm	10000 ppm
		Eu		0.02 ppm	10000 ppm
		Gd	-	0.05 ppm	10000 ppm
	100	Tb		0.01 ppm	10000 ppm
	and the second se	Dy		0.05 ppm	10000 ppm
		Но		0.02 ppm	10000 ppm
		Er		0.03 ppm	10000 ppm
		Tm		0.01 ppm	10000 ppm
		Yb		0.05 ppm	10000 ppm
		Lu		0.01 ppm	10000 ppm

Note: Highlighted elements by 1DX Aqua Regia - ICP-MS analysis

	4 100

AND CLASS OF CONTRACTOR

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SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Hard Creek Nickel Corporation 1060 - 1090 W. Georgia St. Vancouver BC V6E 3V7 Canada

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alytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

CERTIFICATE OF ANALYSIS

**CLIENT JOB INFORMATION** 

Submitted By:	Greg Ross
Receiving Lab:	Canada-Vancouver
Received:	August 19, 2010
Report Date:	September 08, 2010
Page:	1 of 2

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## VAN10004019.1

#### Number of Test Method **Code Description** Report Lab Wheaton Lime Project: Samples Code Wgt (g) Status Shipment ID: VAN R200-250 Crush, split and pulverize 250 g rock to 200 mesh 14 P.O. Number 0.2 Completed VAN 4A02 14 LiBO2/Li2B4O7 fusion ICP-ES analysis 14 Number of Samples: 7TD2 0.5 Completed VAN 14 4 Acid digestion ICP-ES analysis. SAMPLE DISPOSAL ADDITIONAL COMMENTS DISP-PLP Dispose of Pulp After 90 days DISP-RJT Dispose of Reject After 90 days Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return. Hard Creek Nickel Corporation Invoice To: 1060 - 1090 W. Georgia St. Vancouver BC V6E 3V7 Canada 000 HSILIN CC: CLARENCE LEONG **Tony Hitchins** GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. \*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

#### Hard Creek Nickel Corporation 1060 - 1090 W. Georgia St.

Vancouver BC V6E 3V7 Canada

Vancouver BC V6E 3V7 C

**Acme**Labs

Acme Analytical Laboratories (Vancouver) Ltd.

Project:	
Report Date:	

Wheaton Lime September 08, 2010

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This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval, preliminary reports are unsigned and should be used for reference only.

te: September

Page: 2 of 2 Part 1 CERTIFICATE OF ANALYSIS VAN10004019.1 Method WGHT 4A Y LOI TiO2 P205 Cr2O3 Ba Ni Sr Zr Nb Analyte Wat SIO2 AI203 Fe2O3 MgO CaO Na2O K20 MnO Sc Unit % % % % % % % % % % ppm % % ppm ppm ppm kg ppm ppm ppm MDL 0.04 5 20 2 5 3 5 1 -5.1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.002 624 <5 <3 <5 <1 44.8 178457 44.14 0.02 < 0.01 < 0.002 22 <20 Rock 1.87 0.74 0.21 0.12 9.64 0.02 0.06 0.01 48 <20 1651 <5 <3 <5 <1 44.0 178458 Rock 1.96 0.99 0.29 0.11 1.00 53.22 0.05 0.05 0.01 0.05 < 0.01 < 0.002 1.50 42.59 15 <20 384 <5 <3 <5 <1 45,2 178459 Rock 0.80 0.07 0.06 10,90 < 0.01 0.01 < 0.01 0.07 < 0.01 < 0.002 0.81 0.43 0.16 7.20 45.23 0.02 0.02 0.12 < 0.01 0.003 37 <20 1847 <5 4 <5 <1 45.3 178460 Rock 1.07 0.13 12 <5 <3 <5 <1 43.8 178461 Rock 0.44 0.54 0.08 0.05 0.15 55.11 <0.01 0.02 < 0.01 0.02 < 0.01 < 0.002 <20 1436 0.65 <3 <5 43.7 178462 Rock 0.09 0.06 0.05 0.48 55.46 < 0.01 0.01 < 0.01 0.04 < 0.01 < 0.002 13 <20 438 <5 <1 43.7 178463 Rock 1.30 0.23 0.07 < 0.04 0.29 55.56 0.01 0.01 < 0.01 0.03 0.02 < 0.002 9 <20 538 <5 <3 <5 <1 178464 Rock 0.58 6.97 0.60 0.23 0.62 50.42 0.02 0.11 0.02 0.03 0.01 < 0.002 24 <20 427 <5 3 <5 <1 40.9 178465 Rock 0.87 0.50 0.11 0.05 0.08 55.90 0.01 < 0.01 < 0.01 0.05 < 0.01 < 0.002 8 <20 465 <5 <3 <5 <1 43.2 178466 Rock 0.62 0.30 0.05 < 0.04 0.15 55.91 < 0.01 < 0.01 < 0.01 0.03 < 0.01 < 0.002 <5 <20 359 <5 <3 <5 <1 43.5 178467 Rock 1.22 0.76 0.20 0.09 0.17 55.49 0.03 0.03 < 0.01 0.05 < 0.01 < 0.002 16 <20 291 5 <3 <5 <1 43. 178468 Rock 0.68 1.17 0.28 0.15 0.46 54.17 < 0.01 0.08 0.02 0.01 < 0.01 < 0.002 13 <20 1141 <5 <3 <5 <1 43.5 178469 Rock 0.74 0.22 6 <20 320 <5 <3 <5 <1 43.3 0.03 0.06 0.16 56.17 < 0.01 < 0.01 < 0.01 0.06 < 0.01 0.003 178470 Rock 0.70 2.77 141 919 <5 3 <5 2 42.7 1.26 0.49 0.65 51.44 < 0.01 0.43 0.04 0.01 0.03 < 0.002 <20

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Report Date:	September 08, 2010

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Page: 2 of 2

Part 2 VAN10004019

## CERTIFICATE OF ANALYSIS

		Method	4A 2	A Leco 2	A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	711
		Analyte	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	c
		Unit	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	9
		MDL	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.00
178457	Rock		99.84	12.59	<0.02	< 0.001	<0.001	<0.02	<0.01	<2	<0.001	< 0.001	<0.01	0.07	<0.02	0.06	< 0.001	< 0.01	<0.01	31.42	<0.01	<0.00
178458	Rock		99.98	12.07	<0.02	<0.001	< 0.001	<0.02	< 0.01	<2	< 0.001	<0.001	<0.01	0.08	<0.02	0.16	< 0.001	< 0.01	<0.01	38.57	0.02	< 0.00
178459	Rock		99.81	12.89	<0.02	<0.001	<0.001	<0.02	< 0.01	<2	< 0.001	<0.001	<0.01	0.04	<0.02	0.04	< 0.001	<0.01	<0.01	30.80	0.03	<0.00
178460	Rock		99.87	13.10	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.11	<0.02	0.18	<0.001	<0.01	<0.01	32.83	0.05	0.00
178461	Rock		99.99	12.05	<0.02	<0.001	<0.001	<0.02	<0.01	<2	< 0.001	<0.001	<0.01	0.04	<0.02	0.14	<0.001	<0.01	<0.01	39.45	< 0.01	<0.001
178462	Rock		99.99	12.05	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.03	<0.02	0.05	<0.001	<0.01	<0.01	40.03	0.02	< 0.00
178463	Rock		99.99	11.60	<0.02	<0.001	<0.001	<0.02	< 0.01	<2	< 0.001	<0.001	0.01	0.03	<0.02	0.05	< 0.001	< 0.01	<0.01	39.61	0.01	<0.00
178464	Rock		99.99	11.30	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.16	<0.02	0.04	< 0.001	< 0.01	<0.01	36.69	0.01	<0.00
178465	Rock		99.99	12.20	<0.02	<0.001	<0.001	<0.02	<0.01	<2	< 0.001	<0.001	<0.01	0.03	<0.02	0.05	< 0.001	<0.01	<0.01	40.98	0.02	<0.00
178466	Rock		99.99	12.20	<0.02	<0.001	<0.001	<0.02	<0.01	<2	< 0.001	< 0.001	<0.01	0.04	<0.02	0.03	< 0.001	<0.01	<0.01	39,93	0.01	<0.00
178467	Rock		100.00	12.05	<0.02	< 0.001	< 0.001	<0.02	< 0.01	<2	<0.001	<0.001	<0.01	0.06	<0.02	0.03	< 0.001	<0.01	<0.01	39.61	0.02	<0.00
178468	Rock		99.99	12.00	<0.02	< 0.001	< 0.001	<0.02	< 0.01	<2	< 0.001	< 0.001	<0.01	0.10	<0.02	0.11	< 0.001	<0.01	<0.01	37.80	<0.01	<0.00
178469	Rock		100.01	12.16	<0.02	<0.001	<0.001	<0.02	<0.01	<2	< 0.001	<0.001	<0.01	0.02	<0.02	0.03	<0.001	<0.01	<0.01	38.83	0.02	<0.00
178470	Rock		99.98	11.75	<0.02	<0.001	<0.001	<0.02	< 0.01	<2	<0.001	<0.001	0.03	0.33	<0.02	0.09	<0.001	<0.01	<0.01	36.57	<0.01	<0.00
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## CERTIFICATE OF ANALYSIS

	Method Analyte	7TD Mg	7TD Al	7TD Na	7TD K	7TD W	7TD S							
	Unit	%	%	%	%	%	%							
170157	MDL	0.01	0.01	0.01	0.01	0.01	0.05							
178457	Rock	5.23	0.11	< 0.01	0.04	< 0.01	< 0.05							
178458	Rock	0.54	0.14	0.04	0.04	<0.01	<0.05							
178459	Rock	6.28	0.04	< 0.01	0.01	<0.01	< 0.05							
178460	Rock	3.91	0.22	0.02	0.10	< 0.01	<0.05						S	
178461	Rock	0.07	0.05	< 0.01	0.02	< 0.01	< 0.05							
178462	Rock	0.26	0.05	< 0.01	0.01	< 0.01	< 0.05							
178463	Rock	0.15	0.05	0.01	0.02	<0.01	<0.05							
178464	Rock	0.33	0.31	0.02	0.09	<0.01	< 0.05							
178465	Rock	0.04	0.07	< 0.01	<0.01	<0.01	<0.05							
178466	Rock	0.07	0.04	< 0.01	0.01	<0.01	< 0.05							
178467	Rock	0.09	0.12	0.02	0.03	<0.01	< 0.05							
178468	Rock	0.24	0.14	0.01	0.07	<0.01	<0.05							
178469	Rock	0.09	0.03	< 0.01	< 0.01	<0.01	< 0.05							
178470	Rock	0.35	0.66	0.01	0.33	< 0.01	< 0.05							
				0.01	0.00		0.00							

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Project:	Wheaton Lime
Report Date:	September 08, 2010

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## QUALITY CONTROL REPORT

	Method Analyte	WGHT Wat	4A SiO2	4A Al2O3	4A Fe2O3	4A MgO	4A CaO	4A Na2O	4A K2O	4A TiO2	4A P205	4A MnO	4A Cr2O3	4A Ba	4A Ni	4A Sr	4A Zr	4A Y	4A Nb	4A Sc	4A LOI
	Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	-5.1
Pulp Duplicates			2524	102																	
178466	Rock	0.62	0.30	0.05	<0.04	0.15	55.91	<0.01	<0.01	<0.01	0.03	<0.01	<0.002	<5	<20	359	<5	<3	<5	<1	43.5
REP 178466	QC	0055041																			
178468	Rock	0.68	1.17	0.28	0.15	0.46	54.17	<0.01	0.08	0.02	0.01	<0.01	<0.002	13	<20	1141	<5	<3	<5	<1	43.5
REP 178468	QC	24.20																			
Reference Materials					4.64	1000	110.	115				19169	1112	61155						0.08	Bau
STD CSC	Standard	24	10.11	100																	
STD OREAS131A	Standard					1.1.29			1.38	1.0	1.961					1.008	10.01	in the state	In test	10.16	d'rati
STD OREAS76A	Standard		6.5	1.52		^ ·															
STD R4T	Standard																				
STD SO-18	Standard		58,14	13.97	7.62	3.38	6,37	3.70	2.15	0.70	0.84	0.40	0.563	520	45	402	303	31	18	25	1.9
STD SO-18	Standard	1947.00	58.12	14.04	7.62	3.38	6.33	3.70	2.15	0.69	0.83	0.40	0.567	519	44	404	305	31	19	25	1.9
STD SO-18	Standard	1	58.12	14.03	7.65	3.38	6.35	3.67	2.15	0.69	0.85	0.40	0.560	525	45	402	305	31	19	25	1.9
STD SO-18	Standard	140.014	58.08	14.03	7.63	3.39	6.38	3.69	2.14	0.70	0.84	0.40	0.564	519	44	402	306	31	21	25	1.9
STD CSC Expected				10																	
STD OREAS76A Expected		La mai										1.00	0.111	11.21						0.03	100
STD R4T Expected	1000								- ush			100	1.1				1		100	1	
STD OREAS131A Expected	and and the strength	1.000		10118	100	12.91					04	1225	10			Ġч.	20		12.5	12	
STD SO-18 Expected		100	58.47	14.23	7.67	3.35	6.42	3.71	2.17	0.69	0.83	0.39	0.55	515	44	402	280	31	21.3	25	110
BLK	Blank	1.05	- inde																		
BLK	Blank	200 2	4																		
BLK	Blank		< 0.01	<0.01	< 0.04	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
BLK	Blank		< 0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.002	<5	<20	<2	<5	<3	<5	<1	0.0
Prep Wash							C. H. Carro	CHINA CON	AL												
G1	Prep Blank	<0.01	67.53	15.47	3.36	1.10	3.35	3.55	3.63	0.39	0.19	0.10	0.003	1035	<20	748	146	18	20	6	1.1
G1 1050 COMPANY	Prep Blank	<0.01	67.62	15.53	3.29	1.10	3.33	3.55	3.62	0.38	0.18	0.10	0.003	1060	<20	751	127	16	23	5	1.1

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## QUALITY CONTROL REPORT

	Method	4A 2	A Leco 2	A Leco	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	7TD	710
	Analyte	Sum	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	C
	Unit	%	%	%	%	%	%	%	gm/mt	%	%	%	%	%	%	%	%	%	%	%	9
	MDL	0.01	0.02	0.02	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.00
Pulp Duplicates																					
178466	Rock	99.99	12.20	< 0.02	< 0.001	< 0.001	< 0.02	<0.01	<2	< 0.001	< 0.001	< 0.01	0.04	< 0.02	0.03	< 0.001	< 0.01	< 0.01	39.93	0.01	<0.001
REP 178466	QC		128110	Der Oli	< 0.001	< 0.001	<0.02	<0.01	<2	<0.001	< 0.001	<0.01	0.03	<0.02	0.04	<0.001	<0.01	<0.01	40.39	0.01	<0.00
178468	Rock	99.99	12.00	<0.02	<0.001	< 0.001	<0.02	<0.01	<2	< 0.001	< 0.001	< 0.01	0.10	<0.02	0.11	< 0.001	< 0.01	< 0.01	37.80	< 0.01	<0.00*
REP 178468	QC		11.95	<0.02							1.1.1.1.1	0.00		1250			1000				
Reference Materials	2000 control																				
STD CSC	Standard		2.80	4.20																	
STD OREAS131A	Standard				< 0.001	0.033	1.81	2.99	32	0.003	0.002	0.18	6.03	< 0.02	< 0.01	0.009	< 0.01	< 0.01	5.63	0.06	0.002
STD OREAS76A	Standard		0.13	18.32									10000								
STD R4T	Standard				0.064	0.522	1.61	3.52	86	0.361	0.040	0.09	24.65	< 0.02	0.02	0.019	0.02	< 0.01	2.27	0.04	0.019
STD SO-18	Standard	99.90																			
STD SO-18	Standard	99.90			0.00		100.11	1000	1.5	0.405	6.4.		1.1			1.6					100
STD SO-18	Standard	99.91																			
STD SO-18	Standard	99.91	0.30	15/88	4.650	01.03	10.001		100		0.2011	10.00	16.00					10			100
STD CSC Expected			2.94	4.25																	
STD OREAS76A Expected			0.16	18	bbb #	6.51	10.00		(a)		14.6					-			-		
STD R4T Expected	Parity.		1.1.1		0.062	0.502	1.518	3.376	86	0.339	0.039	0.086	24.07	0.0087	0.0185	0.018	0.0138	0.0018	2.166	0.045	0.018
STD OREAS131A Expected	10000000	- an	BM/91	WINDS.	0.001	0.0322	1.72	2.83	30,9	0.0027	0.0023	0.1722	5.8166	0.0082	0.0028	0.0081	0.0047	0.001	5.286	0.0536	0.002
STD SO-18 Expected	V. Hora	ALC: NO.	10	1.00	ente	UN.			111									- 19	-	Level and	
BLK	Blank	-	<0.02	<0.02	2 10111	in me				1		1.1					1.1.2	instantin in			1.36
BLK	Blank	110150	Fronting		< 0.001	<0.001	<0.02	< 0.01	<2	<0.001	<0.001	< 0.01	< 0.01	<0.02	< 0.01	< 0.001	< 0.01	< 0.01	<0.01	< 0.01	<0.001
BLK	Blank	<0.01	12.010.00						2 -7 10												
BLK	Blank	<0.01												110.1		2012					
Prep Wash							AVA (DO14)	180.00	in .												_
G1 G1 G1	Prep Blank	99.99	<0.02	<0.02	<0.001	<0.001	<0.02	<0.01	<2	<0.001	< 0.001	0.08	2.35	< 0.02	0.08	< 0.001	< 0.01	< 0.01	2.42	0.08	<0.001
G1 LOSD COLGOAD 2	Prep Blank	100.00	<0.02	<0.02	< 0.001	< 0.001	<0.02	< 0.01	<2	<0.001	< 0.001	0.08	2.30	<0.02	0.08	< 0.001	< 0.01	< 0.01	2.46	0.08	

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Part 3

## QUALITY CONTROL REPORT

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	Method	7TD	7TD	7TD	7TD	7TD	710
	Analyte	Mg	AI	Na	к	w	5
	Unit	%	%	%	%	%	%
	MDL	0.01	0.01	0.01	0.01	0.01	0.05
Pulp Duplicates				-			
178466	Rock	0.07	0.04	<0.01	0.01	<0.01	<0.05
REP 178466	QC	0.07	0.04	<0.01	0.02	< 0.01	<0.05
178468	Rock	0.24	0.14	0.01	0.07	<0.01	<0.05
REP 178468	QC						
Reference Materials							
STD CSC	Standard						
STD OREAS131A	Standard	3.25	4.93	0.16	2.60	< 0.01	5.2
STD OREAS76A	Standard						
STD R4T	Standard	1.46	4.11	0.95	1.22	< 0.01	13.18
STD SO-18	Standard						
STD SO-18	Standard						
STD SO-18	Standard						
STD SO-18	Standard						
STD CSC Expected							
STD OREAS76A Expected							
STD R4T Expected		1.384	3.897	0.9	1.153	0.00016	12.9903
STD OREAS131A Expected		3.1182	4.6057	0.1501	3.1584	0.0005	4.8
STD SO-18 Expected							
BLK	Blank						
BLK	Blank	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.05
BLK	Blank						
BLK	Blank						
Prep Wash							
G1	Prep Blank	0.66	8.06	2.81	3.02	<0.01	<0.0
G1	Prep Blank	0.66	8.27	2,84	3.13	< 0.01	<0.0



## **APPENDIX C**

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### STATEMENT OF COSTS

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Tony Hitchins/geologist	Aug.2-5, 2010	4		\$2,160.00	
Greg Ross/geologist	Aug. 2-5,2010	4	\$464.00	\$1,856.00	
				\$4,016.00	\$4,016.00
Office Studies	List Personnel (note - Office on	ly, do not	include fie	days	
Report preparation Other (specify)	Tony Hitchins, Greg Ross			\$1,000.00	
		19 T 28		\$1,000.00	\$1,000.00
Ground Exploration Surveys Geological mapping	Area in Hectares/List Personnel				
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Rock	14 samples trace element and who		Ture	\$675.16	
	17 Samples vace clement and mit	ne roen	100312.222	\$675.16	\$675.16
Transportation		No.	Rate	Subtotal	
Helicopter (hours)	Set outsand pickups; 5.4 hrs		\$1,175.16	\$6,345.87	
				\$6,345.87	\$6,345.87
Accommodation & Food Hotel	Rates per day				
Camp	6 person days at Turnagain camp	6.00	\$160.00	\$960.00	
Meals		21=10 (C)	12.00.000	\$960.00	\$960.00
Miscellaneous		Low and the second		\$500.00	4500.00
Telephone	Internet, satellite telephone, radios			\$95.00	
Other (Specify)	Field equipment, flagging, sample b	ans		\$75.00	
ould (Spearly)	Theid equipment, hugging, sumple i	ago	and a starter	\$170.00	\$170.00
Freight, rock samples	Bandstra Transportation to Acme La	abs		\$85.00	411 0100
regin, rock samples				çosite	
		11 N 92		\$85.00	\$85.00

TOTAL Expenditures

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## APPENDIX D

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## STATEMENT OF QUALIFICATIONS

#### **Statement of Qualifications**

#### **GREGORY ROSS**

#### I, GREGORY ROSS, of 301-1209 Jervis St., Vancouver, B.C., hereby certify that:

- 1) I am a staff geologist with Hard Creek Nickel Corporation with offices at 1060- 1090 West Georgia St., Vancouver, B.C.
- 2) I hold a B. Sc. in Earth Science from the University of Victoria, awarded in 2006.
- 3) I hold the designation of Geoscientist-in -Training from the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- 4) I have prepared a portion of the report and performed a portion of the work reported herein as a geologist for Hard Creek Nickel Corp.

SPL \_ `

8 Feb 2011

Date

#### **Statement of Qualifications**

#### **ANTHONY HITCHINS**

## I, Anthony Hitchins, of 1648 Mayneveiw Terrace, North Saanich, B.C. hereby certify the following:

- 1) I graduated with a B.A.Sc. Degree in engineering geology from the University of Toronto in 1970 and a M.Sc in geology, also from the University of Toronto, in 1973.
- From 1970 until 1994 I worked in mineral exploration in Nova Scotia, Ontario, British Columbia and Yukon for the Amax-Canamax group of companies in positions of increasing responsibility from field geologist to project manager.
- 3) Between 1994 and 1998 I was district exploration manager for Cyprus Gold in Western Australia.
- 4) Between 1998 and 2002 I worked as project manager for junior exploration companies in Nevada and British Columbia.
- 5) From 2003 to the present I have worked for Hand Creek Nickel Corp. on the Turnagain ultramafic complex as project manager.
- 6) I have performed a portion of the work reported and have prepared a portion of this report.

Autory Helen

Anthony Hitchins

3Fob ZO11

Date