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Diamond Drilling Assessment Report
on the
Stoney Property

Fort Steele Mining Division

NTS 82G/4

Lat. 49° 10' N Long. 115° 55' W

Owner:

Minnova Inc.

Operator:

Minnova Inc.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

Colin Burge
Minnova Inc.

Vancouver, B.C.
February 12, 1992

22,233

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INTRODUCTION

The Stone East claim group consists of five claims totalling 96 units. The claims comprise the eastern half of the 301 unit Stoney property located 15 km northeast of Yahk, B.C.

The Stoney property is underlain by Proterozoic-age Aldridge formation sediments and intrusions which host the giant Sullivan Pb-Zn massive sulphide deposit 60 km to the north.

The Sullivan deposit occurs at the contact between the Lower and Middle Aldridge formations and this contact represents the principal target in the belt. The Stoney property covers Middle Aldridge stratigraphy and the Lower-Middle contact is believed to be present at shallow depths.

Location and Access

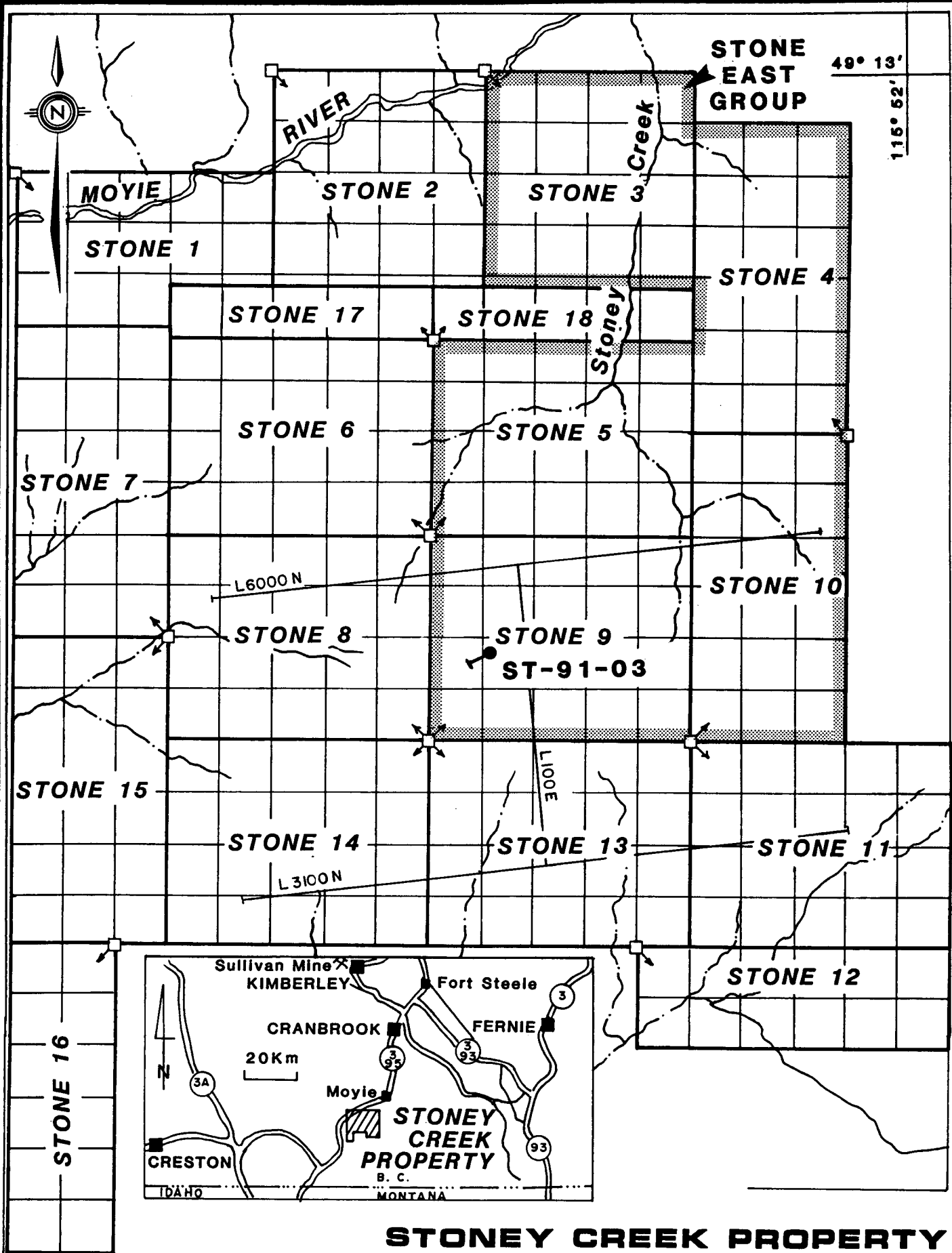
The Stoney property is located in the Purcell Mountains of southeastern B.C. The claims can be reached by proceeding east from the north end of Yahk, B.C. on the Hawkins Creek (Yahk Meadows) forestry road. At about the 12 km point the Cold Creek access road branches north and after proceeding north for 7 km the Ryan Creek road continues and provides access to the southern portion of the Stoney property. A number of other old, 4WD logging roads exist on the property in various states of decay.

Physiography

The property is situated in the Purcell Mountains and elevations range from 900 m in the Moyie River valley to over 1900 metres at the Stoney Mountain summit. Relief is quite gentle except for the slopes down to the Moyie River.

The forest cover consists of immature stands of fir and spruce as well as stands of alder.

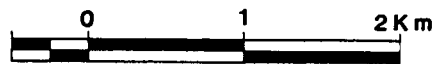
The climate is cool and dry without snow in the upper reaches between June and October



**STONEY CREEK PROPERTY
CLAIM CONFIGURATION**

NTS 82G/4

FIGURE 1



MINNOVA INC.

Property and Ownership

The Stoney Creek property consists of 18 contiguous claims totalling 301 units. All are 100% owned by Minnova Inc.

Table 1. Claim Status

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Hectares</u>	<u>Expiry Date</u>
Stone 1	2880	15	375	May 1, 1992
Stone 2	2881	20	500	May 1, 1992
Stone 3	2882	20	500	May 1, 1992
Stone 4	2883	18	450	May 1, 1992
Stone 5	2884	20	500	May 1, 1992
Stone 6	2885	20	500	May 1, 1992
Stone 7	2886	18	450	May 1, 1992
Stone 8	2887	20	500	May 1, 1993
Stone 9	2888	18	450	May 1, 1993
Stone 10	2889	18	450	May 1, 1992
Stone 11	2890	20	500	May 1, 1992
Stone 12	2891	12	300	May 1, 1992
Stone 13	2892	20	500	May 1, 1993
Stone 14	2893	20	500	May 1, 1993
Stone 15	2894	18	450	May 1, 1992
Stone 16	2895	12	300	May 1, 1993
Stone 17	2985	5	125	Sept 16, 1992
Stone 18	2986	5	125	Sept 16, 1992

History

Prior to 1987 when Minnova staked the property the only recorded exploration work on the Stoney property involved a soil survey carried out for Kennco Exploration in 1966 (A.R. 813).

The Mt. Mahon property, adjacent to and south of Stoney has undergone several episodes of exploration by Chevron Resources, Falconbridge Limited and St. Eugene Mining. They report bedded tourmalinite at or near the Lower Aldridge - Middle Aldridge contact.

Minnova mapped the Stoney property at a reconnaissance scale and completed geophysical surveys (CSAMT, gravity) in 1987

(A.R. 17633). Two holes totalling 519 metres were drilled in 1989 to test stratigraphy and geophysical anomalies.

In 1990 a contour soils program attempted to identify productive horizons in the Middle Aldridge and a narrow sulphide horizon was mapped out at the top of Stoney Mountain.

1991 WORK PROGRAM

One diamond drill hole (285.6 meters) was completed to test the above mentioned sulphide horizon and Middle Aldridge stratigraphy. Ten whole rock and two assays were collected to try and test for subtle changes in rock geochemistry due to alteration caused by hydrothermal activity.

GEOLOGY

Regional Geology

The Proterozoic-age Aldridge Formation covers a large part of southeast B.C. and the southwest corner of Alberta. The Aldridge consists of upper greenschist facies sediments and conformable gabbroic sills known as the Moyie intrusions. The package forms three main structural blocks in southern B.C. divided by the northeast trending Cranbrook and Moyie Faults. Each structural block forms broad open northeast plunging anticlines and it is the anticlinal axis of the northernmost structural block that the Sullivan deposit is situated. The Sullivan deposit is a 160 million ton >10% Pb-Zn, 68 g/t Ag massive sulphide sheet underlain by tourmalinization and overlain by an albite-chlorite alteration halo.

The Stoney claims are within the Moyie structural block, the southernmost block. The Sullivan time horizon (Lower - Middle Aldridge contact) is believed to be present to the south on Mt. Mahon and extends, with shallow dips, across the Stoney Property.

The only significant producer apart from the Sullivan in the Aldridge Formation is the former St. Eugene Mine. The St. Eugene produced 1 million tons of 14% Pb, 5% Zn and 240 g/t Ag from a steep dipping massive sulphide vein. The St. Eugene is about 10 km northeast of the Stoney property.

Property Geology

The Stoney claims are underlain by Middle Aldridge formation sediments and Moyie sills and dikes. The bedded rocks form an open NNE shallow plunging anticline.

The clastic assemblage is made up of predominantly medium bedded quartz-rich greywackes intercalated with thin bedded siltstones and mudstones. The finer material occasionally displays graded bedding, ripple marks and cross bedding. The package probably represents a turbidite sequence of considerable thickness.

The intrusive rocks range from diorite to gabbro and are medium to coarse grained. These units are well exposed at topographic highs on the property.

Geology and Mineralization

A narrow sulphide horizon outcrops at the top of Stoney Mountain and dips gently east beneath a gabbro sill which is well exposed on the east side of the Ryan Ck. road at the top of Stoney mountain. The sulphides consist mainly of pyrrhotite weakly anomalous in lead and zinc hosted by laminated siltstones and wackes.

1991 DIAMOND DRILLING

ST-91-03 was collared on the Ryan Ck. access road at the crest of Stoney Mountain. The hole was drilled steeply west to test a gently east dipping sulphide horizon exposed in trenches located a few hundred meters west.

Results

ST-91-03 collared in a massive, equigranular gabbro containing traces of magnetite. Below the sill, ST-91-03 cored a sequence of medium bedded quartz wackes intercalated with more argillaceous wackes and mudstones. These units represent accumulations of turbidites typical of the Middle Aldridge. Two periods where turbidite deposition ceases were intersected and resulting thinly bedded and laminated siltstones and quartzite layers form distinctive planar bedded zones indicative periods of exceptional quiescence.

The upper laminated sequence between 74.2 m and 82.5 m contained only trace amounts of disseminated sphalerite (222 ppm Zn/1.0 m). This zone probably correlates with the narrow sulphide horizon exposed on surface. The bedding ranges from 75 to 80 degrees to the core axis (hole dip is -85°) and only traces of pyrrhotite as disseminations and very fine laminations were observed in the sediments. A narrow quartz shear zone carrying chalcopyrite in trace amounts was intersected in the gabbro (Cu 734 ppm/.4 m).

Lithogeochemistry

Ten lithogeochemical and two geochemical samples were taken from the core. All were analyzed at Min-En Labs, North Vancouver. Litho samples were analyzed for SiO_2 , TiO_2 , CaO, MgO, Na_2O , K_2O , MnO_2 , Fe_2O_3 , (total iron), Al_2O_3 , Sr, Zn, and Ba by ICP

analysis of a crushed and digested bead formed by fusion with lithium borate. Ag, Cu, Pb, Zn, B, Sb and As were analyzed by standard ICP techniques using an aqua-regia digestion. F and B-Tot were analyzed by fusion methods with their respective specific ion electrode and ICP finish. Geochem samples were analyzed for Cu, Pb, Zn, Ag, Au by standard ICP techniques.

Lithogeochemical samples were taken routinely approximately every 30 m down the hole. Lithogeochemistry does not show any marked deviation from fresh Middle Aldridge sediment. The gabbro sills are typically high in calcium, iron and magnesium and are enriched in copper. The sediments are calcium poor and are high in potassium and silica.

CONCLUSIONS AND RECOMMENDATIONS

ST-91-03 cored 285.6 meters of Middle Aldridge turbidites and intrusive rock. Two intervals of laminated planar bedded material were intersected. The target sulphide horizon correlates with the upper planar bedded zone and only trace amounts of sphalerite were observed. Sulphide mineralization is limited to trace to 2% disseminations and fine laminae typical of the Aldridge formation. A narrow (1 meter) quartz shear zone was intersected in the gabbro and contains minor chalcopyrite mineralization. No base metal concentrations of any significance occur in the hole. No tourmalinization or coarse clastic rocks were observed.

The lack of significant mineralization or alteration in ST-91-03 suggests that showings on the Mt. Mahon summit are a local phenomena and are not distal expressions of a massive sulphide deposit. No further work is recommended in this part of the claim group.

Appendix I
Itemized Cost Statement

Stoney Property
Itemized Cost Statement

Drilling

Leclerc Drilling Ltd., Beaverdell 285.6 m @ 55.10/m	\$15,735.05
C. Burge 3 days @ \$350/day	1,050.00
S. McCallum 3 days @ \$120/day	360.00
Water haulage	2,330.00
	<u>19,475.05</u>

Geochemistry

Whole rock analyses 10 @ \$33.50	335.00
Geochems 2 @ 17.25	35.50
	<u>370.50</u>

Transportation

4 WD Truck 3 days @ \$50	150.00
Fuel	60.00
	<u>210.00</u>

Room and Board

Hotel and Meal, Fiddlers, Yahk 3 days @ \$100	300.00
	<u>300.00</u>

Report Preparation

C. Burge 2 days @ \$350/day	700.00
Typing, Drafting, Computer	150.00
	<u>850.00</u>


Total	<u>21,205.55</u>
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Appendix II
Statement of Qualifications

Statement of Qualifications

I, Colin Michael Burge hereby certify that:

1. I have worked as an exploration geologist since graduation from the University of Waterloo, Waterloo, Ontario with a BSc. in Earth Sciences (1981).
2. I am currently employed as a Project Geologist for Minnova Inc., 3rd Floor - 311 Water St., Vancouver, B.C. and have been with this company for five years.
3. I personally carried out or supervised the work reported herein.



Colin M. Burge

Date

March 24, 1992

Appendix III
Drill Log - ST-91-03

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

HOLE NUMBER: ST-91-03

PROJECT NAME: STONEY
PROJECT NUMBER: 623
CLAIM NUMBER: STONE 9
LOCATION: YAHK

PLOTTING COORDS GRID: IDEAL
NORTH:
EAST: 950.00W
ELEV: 1798.00

ALTERNATE COORDS GRID: SEISMIC
NORTH: 53+20N
EAST: 9+50W
ELEV: 1798.00

COLLAR DIP: -85° 0' 0"
LENGTH OF THE HOLE: 285.60m
START DEPTH: 0.00m
FINAL DEPTH: 285.60m

COLLAR GRID AZIMUTH: 270° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 260° 0' 0"

DATE STARTED: October 6, 1991
DATE COMPLETED: October 8, 1991
DATE LOGGED: October 8, 1991

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: LECLERC DRILLING LTD.
CASING: 3.7M
CORE STORAGE: FIDDLERS, 5km West of Yahk

PURPOSE: Will test the sulphide horizon exposed on Stoney Mt. for a large tonnage MS deposit.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
50.90	-	-86° 0'	ACID	OK		-	-	-	-	-	
108.81	-	-83° 0'	ACID	OK		-	-	-	-	-	
175.87	-	-78° 0'	ACID	OK		-	-	-	-	-	
233.78	-	-76° 0'	ACID	OK		-	-	-	-	-	
285.60	-	-74° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: ST-91-03

DATE: 13-February-1992

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.70	CASING					
3.70 TO 44.80	Gabbro «GAB»	Light green. Medium grained. Massive, feldspar-hblde rk. Medium grain doirite. Minor quartz veinlets frequent <1cm barren. Magnet. ‡11.5‡ «Flt» 3cm gouge. Minor carbonate veinlets at lower etc. ‡40.9-41‡ «Qtz + Shr» Gabbro finer grain for .5m zone at etc.		Nil.	Nil. ‡40.6-40.9‡ «Biot» ‡41-41.6‡ «Biot» Biotite over 10cm at etc.	Blocky broken ground near surface. Moderately magnetic. Litho: 36173: 23.5-26.5m. Geochem: 36357-36359: 40.6-41.6m.
44.80 TO 285.60	Quartz Wackes Interbedded With Argillaceous Wackes and Mudstone «WACKE/ARG»	Grey to black. Fine to u. fine grained. Contact indistinct. Massive fine grain siliceous biotitic quartz wacke beds interbedded with medium to thick argillite beds. Occasional band containing pink spots (up to 10cm wide) spots are probably retrograding garnets. Muscovite crystals common in trace amounts. 66.3m: Fault 2-3cm gouge. 69.3-74.2m: Predominately argillite with traces of pyrrhotite. ‡74.2‡ «Flt» 10cm gouge zone. 74.2-82.5m: Well preserved planar bedded zone. Alternating dark grey and light pinkish bands. 101.7-102.9m: Argillite. 104.7m: Minor quartz veinlet <1cm carrying 1-2% pyrrhotite. 154m: Argillite. Quartz veinlets <1cm run normal to core axis. Occasionally carry traces of pyrrhotite. 162.2m: Well preserved flames indicating tops	86	Nil. 53-57m: Minor carbonate veinlets <1cm. Weakly developed garnet zones. Rare siliceous patches.	«Tr Po» Argillites contain 2-3% pyrrhotite. ‡77.9-78.9‡ «Tr Sph» Trace amounts of disseminated brown sphalerite.	36174: 54-57m. 36360: 77.6-78.6m. 74.2-82.5m: Marker stratigraphy. ‡82.3‡ «B-Marker» Period of exceptional quiescence between deposition of turbidites. 98.6-98.9m: Possible marker horizon? 36175: 84.5-87.5m. Do not get flame structures. Lithos:

HOLE NUMBER: ST-91-03

DRILL HOLE RECORD

LOGGED BY: Colin Burge

PAGE: 2

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>uphole. Below 150m increase in proportion of argillaceous units.</p> <p>Below 184m alternating 10-20cm beds of fining upward wackes and argillaceous wackes.</p> <p>183.6m: Minor quartz patches over 20cm cut edge of veins? No sulphides.</p> <p>211.6m: Well preserved flames.</p> <p>220.15m: Fault 1cm gouge.</p> <p>230-250m: Begin planar bedded material 10-20cm alternating beds.</p> <p>253.5-253.9m: Planar beds 10-20cm creamy colour. Minor pyrrhotite laminae.</p> <p>Below 254m resume turbid conditions.</p> <p>256.1m: Flame structure - well preserved. alternating thin beds of grey wacke and argillaceous wacke.</p> <p>END OF HOLE.</p>		<p>{253.5-253.9} «M Ser» Moderate sericite.</p>	<p>{228.9} «Po Lam» 228.9m: Pyrrhotite horizon 1cm, siliceous, 20-25% po.</p> <p>{233.5} «Py Lam»</p> <p>269-273m: Trace to 1% pyrrhotite as laminae.</p>	<p>36176: 108.8-111.8m. 36177: 136.2-139.2m. 36178: 160.6-163.6m. 36179: 188.1-191.1m.</p> <p>36180: 212.4-215.5m. 36181: 236.8-239.8m.</p> <p>230-250m: Period of extreme quiescence between turbidites.</p> <p>{246} «Marker»</p> <p>245.7-246.1m: Marker sequence</p> <p>36182: 264.3-267.3m.</p>

HOLE NUMBER: ST-91-03

ASSAY SHEET

DATE: 13-February-1992

Sample	From (m)	To (m)	Length (m)	ASSAYS					GEOCHEMICAL										COMMENTS		
				Cu %	Pb %	Zn %	Ag gpt	Au gpt	Ag ppm	As ppm	Ba ppm	Cd ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb	B ppm		BaT ppm	F ppm
3c 57	40.60	41.00	0.40						0.7	630	461	0.1	734	38	1	211	22	67.6	432	1090	
3c 58	41.00	41.10	0.10						0.3	6	236	0.1	468	25	1	148	8	52.9	441	565	
3c 59	41.10	41.60	0.50						0.5	253	312	0.1	665	29	1	193	36	60.8	374	610	
3c 60	77.90	78.90	1.00						1.4	1	93	0.1	62	101	2	222	2	103.6	470	805	

HOLE NUMBER: ST-91-03

GEOCHEM. SHEET

DATE: 13-February-1992

Sample	From (m)	To (m)	Length (m)	Al2O3 %	Ba %	CaO %	Fe2O3 %	K2O %	MgO %	MnO2 %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOT %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppb	LOI %	B ppm	F ppm
36173	23.50	26.50	3.00	14.48	0.005	10.14	9.72	0.51	7.29	0.17	1.98	0.01	51.43	0.69	0.03	96.42	0.9	1	33	88	18	1	22	5	2.6		
36174	54.00	57.00	3.00	16.12	0.055	1.45	4.33	4.18	1.06	0.05	1	0.01	67.99	0.6	0.05	96.9	0.5	13	99	21	21	1	58	5	2.4	87.7	335
36175	84.50	87.50	3.00	20.46	0.07	0.66	5.01	5.44	1.23	0.07	1.78	0.01	61.03	0.72	0.3	96.77	0.2	1	88	24	21	1	79	5	2.6	96	455
36176	108.80	111.80	3.00	9.33	0.005	1.35	2.94	1.52	0.59	0.06	3.29	0.01	78.54	0.37	0.07	98.05	0.9	1	53	23	29	1	37	5	1.0	37.9	210
36177	136.20	139.20	3.00	15.47	0.035	1	5.68	3.67	1.23	0.06	2.5	0.01	67.4	0.54	0.08	97.68	0.6	1	106	33	23	1	83	10	1.5	74.4	505
36178	160.60	163.60	3.00	16.51	0.05	0.68	4.59	4.01	0.98	0.05	2.63	0.01	67.66	0.58	0.12	97.84	0.8	1	113	102	22	1	67	5	1.4	83.9	510
36179	188.10	191.10	3.00	15.43	0.045	0.86	4.2	3.82	0.96	0.06	2.33	0.01	69.18	0.58	0.06	97.53	1	1	122	24	21	1	59	5	1.5	65.7	480
36180	212.40	215.40	3.00	12.05	0.015	1.15	4.13	2.55	0.94	0.06	3.14	0.01	73.79	0.44	0.06	98.31	0.7	1	112	52	21	1	60	5	.9	52.3	380
36181	236.80	239.80	3.00	14.71	0.05	1.02	4.63	3.64	1.37	0.06	2.39	0.01	69.02	0.55	0.66	98.11	0.6	1	108	34	32	1	69	5	1.5	70.5	1100
36182	264.30	267.30	3.00	12.71	0.025	0.48	2.62	2.71	0.58	0.04	3.12	0.01	75.41	0.52	0.05	98.28	0.9	1	65	10	14	1	30	10	1.1	58.8	360

HOLE NUMBER: ST-91-03

GEOCHEM. SHEET

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Appendix IV
Geochemical Analytical Procedures



**MINERAL
• ENVIRONMENTS
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE FOR ASSESSMENT WORK

WHOLE ROCK ANALYSIS

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened to -80 mesh for analysis. Rock samples are crushed by a jaw crusher and pulverized to 90% -120 mesh.

A 0.200 gram subsample is fused using lithium metaborate, dissolved and diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon Type II Inductively Coupled Plasma Spectrometers.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621



**MINERAL
• ENVIRONMENTS
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR TRACE ELEMENT ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu,
Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb,
Sr, Th, U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621



**MINERAL
• ENVIRONMENTS
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE FOR ASSESSMENT WORK

Boron Geochem

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, employing the following procedures:

After drying the samples at 95 degrees celsius, soil and stream sediment samples are screened to -80 mesh for analysis. Rock samples are crushed by a jaw crusher and then pulverized to 90% -120 mesh.

A 0.500 gram sub-sample is fused using KOH, leached overnight and then dissolved using HCL. The solution is diluted to volume and mixed.

The solutions are analyzed by computer operated Jarell Ash 9000 ICAP or Jobin Yvon Type II Inductively Coupled Plasma Spectrometers. The results are compared to certified natural standards.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621



ANALYTICAL PROCEDURE FOR ASSESSMENT WORK

Fluorine Geochem

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, employing the following procedures:

After drying the samples at 95 degrees celsius, soil and stream sediment samples are screened to -80 mesh for analysis. Rock samples are crushed by a jaw crusher and then pulverized to 90% -120 mesh.

A 0.200 gram sub-sample is fused using NaOH, leached overnight with water and then dissolved using H₂SO₄. A buffer is added and the sample is adjusted to pH 7.0 using NaOH.

The solutions are analyzed using specific ion electrodes and compared to known certified natural standards.



**MINERAL
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Division of Assayers Corp. Ltd.

ANALYTICAL PRECEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR WET GOLD GEOCHEMICAL ANALYSIS

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

5.00 grams of sample is weighed into porcelain crucibles and cindered @ 800 C for 3 hours. Samples are then transferred to beakers and digested using aqua regia, diluted to volume and mixed.

Further oxidation and treatment of 75% of the above solution is then extracted for gold by Methyl Iso-butyl Ketone.

The MIBK solutions are analyzed on an atomic absorption spectrometer using a suitable standard set.

Appendix V
Geochemical Results

MINERAL ENVIRONMENTS LABORATORIES

(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 960-6614 OR (604) 966-4624
FAX (604) 960-9821

SMITHERS LAB.:
3178 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3006

Geochemical Analysis Certificate

1V-1265-RG1

Company: MINNOVA INC.
Project: 674
Attn: COLIN BURGE

OCT 25 1991

Date: OCT-22-91

Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 4 CORE samples submitted OCT-10-91 by COLIN BURGE.

Sample Number	B	BA-TOTAL	F
	PPM	PPM	PPM
36357	67.6	432	1090
36358	52.9	441	565
36359	60.8	374	610
36360	103.6	470	805

Certified by





**MINERAL
• ENVIRONMENTS
LABORATORIES**
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • CLERK/RECORDS

VANCOUVER OFFICE:
705 WEST 16TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4824
FAX (604) 980-9821

SMITHERS LAB.:
3178 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3006

Assay Certificate

1V-1264-RA1

Company: MINNOVA INC.
Project: 674
Attn: COLIN BURGE

Date: OCT-17-91
Copy 1. MINNOVA INC., VANCOUVER, B.C.

We hereby certify the following Assay of 17 CORE samples
submitted OCT-10-91 by COLIN BURGE.

Sample Number	LOI %
------------------	----------

36173	2.60
-------	------

36174	2.40
-------	------

36175	2.60
-------	------

36176	1.00
-------	------

36177	1.50
-------	------

36178	1.40
-------	------

36179	1.50
-------	------

36180	.90
-------	-----

36181	1.50
-------	------

36182	1.10
-------	------

Certified by

MIN-EN LABORATORIES



**MINERAL
• ENVIRONMENTAL
LABORATORIES**
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4824
FAX (604) 980-9821

SMITHERS LAB.:
3178 TATLOW ROAD
SMITHERS, B.C. CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Geochemical Analysis Certificate

1V-1264-RG1

Company: MINNOVA INC.
Project: 674
Attn: COLIN BURGE

Date: OCT-25-91

Copy 1. MINNOVA INC., VANCOUVER, B.C.

OCT 28 1991

We hereby certify the following Geochemical Analysis of CORE samples submitted OCT-10-91 by COLIN BURGE.

Sample Number	B	F
	PPM	PPM
36174	87.7	335
36175	96.0	455
36176	37.9	210
36177	74.4	505
36178	83.9	510
36179	65.7	480
36180	52.3	380
36181	70.5	1100
36182	58.8	360

57-91-03

Certified by _____

MIN-LEN LABORATORIES



STONE 6 STONE 5

4809 lb, Po.

87 lb, Po.

2

lb
4807

TRENCH B

4804 4803
4806, 4805 4802
12 lb, Po, Qtz.

STONEY MOUNTAIN

TRENCH A

4796 4795
lb, Po Qtz 4801
4798 4800
4797 4799

ST-91-03
(-85°)

288m

1

2

2

STONE 8 STONE 9

TRENCH C
4808

STONE 10

STONE 14 STONE 13

STONE 11

22,233
GEOLOGICAL BRANCH
ASSESSMENT REPORT

MINNOVA Inc.

STONEY CREEK PROPERTY

GEOLOGY &
1991 DRILL HOLE LOCATION

0 100 200 300 400 500m
SCALE: 1:5000

N.T.S. 82Q/4 MAP:
DRAWN BY: CMB
DATE: JAN. 1992

3

LEGEND

- ALDRICE FORMATION
- 1 SEDIMENTS
- 1a QUARTZ WACKE
- 1b SILTSTONE/MUDSTONE
- 2 GABBRO
- SULPHIDE HORIZON
- BEDDING MEASUREMENT
- CONFORMABLE CONTACT
- INTRUSIVE CONTACT
- Po PYRRHOTITE
- △ BRECCIA
- ▲ WHOLE ROCK ANALYSIS
- Qtz QUARTZ
- T TOURMALINITE
- TRENCH LOCATION
- 1991 DRILL HOLE LOCATION

RYAN CREEK ROAD

ST-89-01

ST-89-02