GEOLOGICAL REPORT

on the

ARGONAUT SOUTH CLAIM (513567)
Quinsam Lake Area, B.C.

NTS: 92F/13E(92F.083)

Latitude 49°51'44"N, Longitude 125°32'45"W

For

Homegold Resources Ltd.
#5-2330 Tyner St.
Port Coquitlam, B.C.
V3C 2Z1
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Prepared by

J. T. SHEARER, M.Sc., P.Geo.
Geologist

May 29, 2006

Fieldwork conducted between January 4 and May 15, 2006

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FIGURES

TABLES

SUMMARY

1. The South Argonaut Claim Tenure #513567 (12cells) and Tenure #513580 cover the former iron producer commonly referred to as the Argonaut Mine (Iron Hill).

2. Historic production from the Argonaut Mine between 1951 and 1957 totalled 3,657,168 tonnes of ore from which 1,990,288.66 tonnes of concentrate, running between 56% and 58% Fe, were shipped.

3. The area is located just east of upper Quinsam Lake, about 27km west of the community of Campbell River.

4. Magnetite mineralization is contained within the garnet/amphibole skarn with rare associated chalcopyrite and pyrite. The skarn consists of massive garnetite with minor amount of epidote, calcite and pyrite.

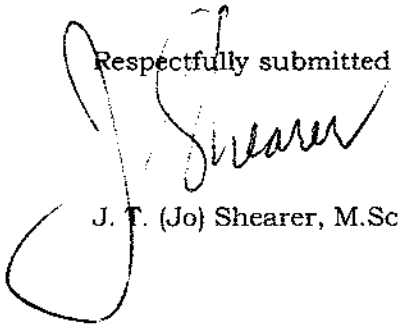
5. The mineralized skarn is near the contact of limestone of the Upper Triassic Quatsino Formation and mafic volcanic unit (pillow basalt) of the Upper Triassic Karmutsen Formation, all intruded by the early to Middle Jurassic Island Intrusions.

6. The deposit has been deformed into a west dipping overturned syncline whose north limb is overturned onto the south limb. The axial plane generally strikes east-west and dips north-northwest. Skarn is best developed and thickest in the hinge position of the syncline.

7. The tailings and waste piles contain fine-grained magnetite and garnet. The present study is focussed on characterization of parts the remaining concentrate and certain waste piles on the property.

8. Current results indicate that the concentrate assays 62.2% Fe. This level of concentration is supported by concentrating the upper coarse tailings which assayed 65.9% Fe.

Respectfully submitted



J. T. (Jo) Shearer, M.Sc., P.Geo.

INTRODUCTION

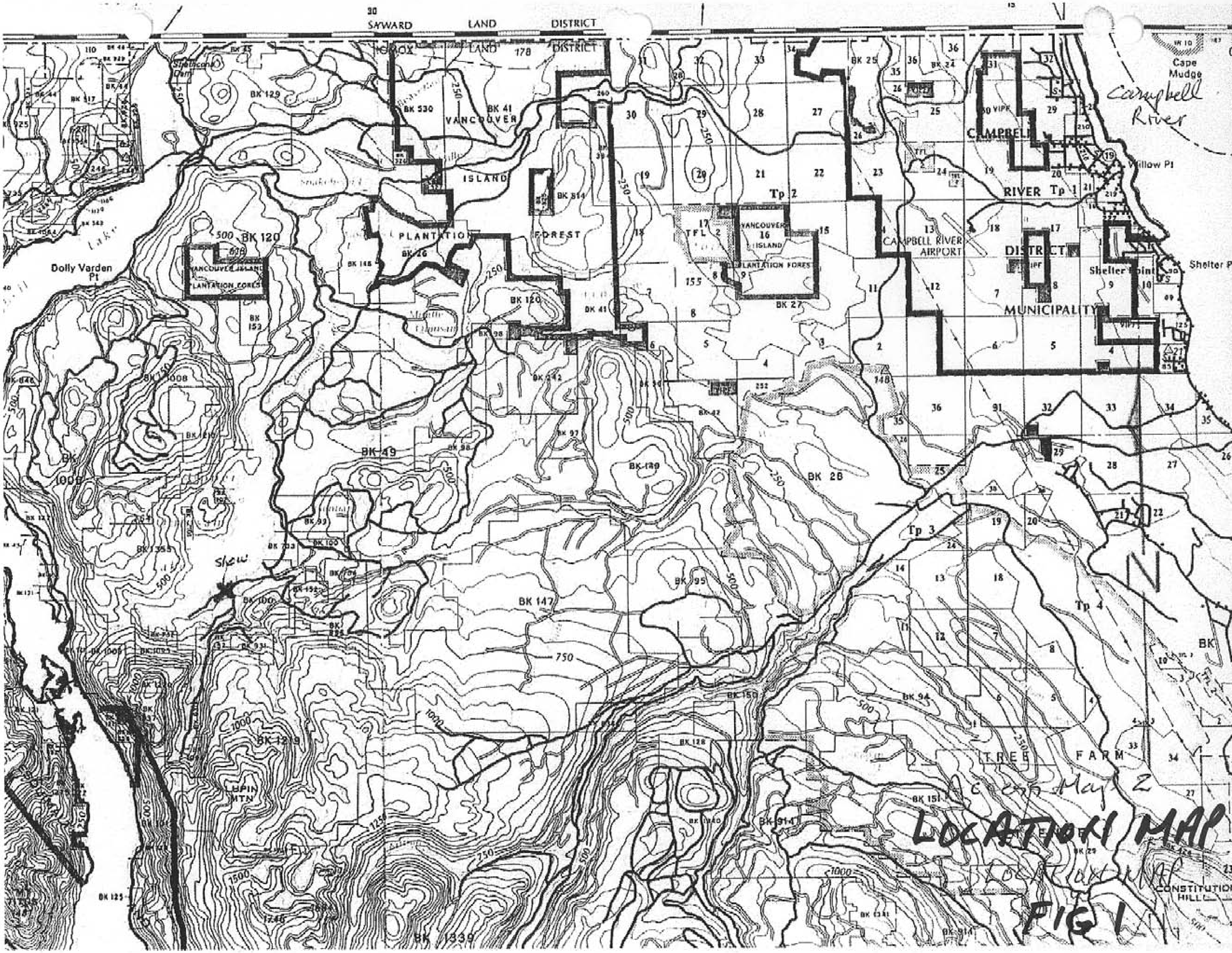
The Argonaut Project is approximately 3 km east of Upper Quinsam Lake or about 27 km west of the Community of Campbell River.

Past historic production from the Argonaut Mine between 1951 and 1957 totalled 3,657,168 tonnes of ore from which 1,990,288.66 tonnes of concentrate running between 56% to 58% Fe were shipped.

Much of the magnetite produced in British Columbia at the present time is from a relatively sophisticated reprocessing of tailings (Craigmont) or hit and miss reprocessing coarse waste dumps (Texada Island). Possible markets for magnetite are: heavy aggregate for high-density concrete, heavy media for coal washing, sandblasting abrasives, high-density filter media and radiation shielding aggregates. Two major construction projects that may start in early 2007 are the expansion of the sub-atomic research TRIUMF facility at the University of British Columbia and the Sumas-Duncan Natural Gas Pipeline (for pipe anchors) by BC Hydro and Williams Pipeline Company. There may also be increasing application to special designed heavy concrete foundations in areas of high hydrostatic ground pressure in areas like Richmond, B.C.

An alternative market may be as a raw material for cement plant use. The current supply from Anyox slag assays 36.4% SiO_2, 5.1% Al_2O_3 but only 45% Fe_2O_3. Anyox slag also assays typically about 3% SO_3 and has a relatively high Bond work index of >23.

The property was inspected by J. T. Shearer, M.Sc., P.Geo. on January 18 and 19, 2006 and samples were collected and assayed. The property is of significant interest because only a portion of the possible resources were mined before the operating company went ceased operation.



LOCATION MAP
FIG 1

LOCATION and ACCESS

The Argonaut Project is located 27km west of the community of Campbell River and 3km east of Upper Quinsam Lake.

All weather access is by highway for 18km from Campbell River to the Quinsam Coal Mine turnoff., then south along the AR Mainline logging road for 21 km to the old mine site.

Logging by Timberwest is currently taking place near the claim. Past mining was completed between 1400 to 1890 feet ASL.

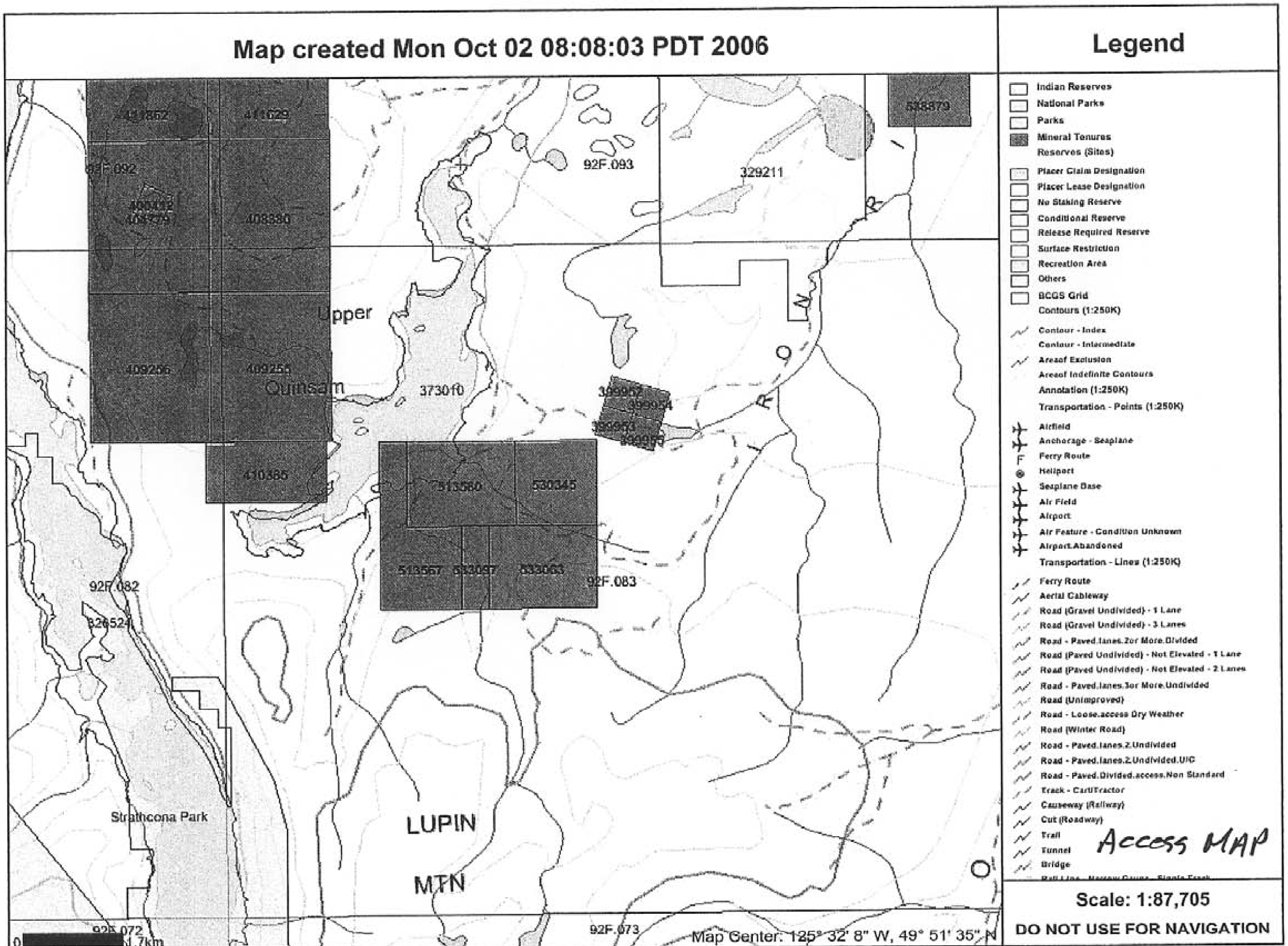

Map created Mon Oct 02 08:08:03 PDT 2006
Legend
Indian Reserves
National Parks
Parks
Mineral Tenures
Reserves (Sites)
Placer Claim Designation
Placer Lease Designation
No Staking Reserve
Conditional Reserve
Release Required Reserve
Surface Restriction
Recreation Area
Others
BCGS Grid
Contours (1:250K)
Contour - Index
Contour - Intermediate
Areaof Exclusion
Areaof Indefinite Contours
Annotation (1:250K)
Transportation - Points (1:250K)
Airfield
Anchorage - Seaplane
Ferry Route
Heliport
Seaplane Base
Air Field
Airport
Air Feature - Condition Unknown
Airport.Abandoned
Transportation - Lines (1:250K)
Ferry Route
Aerial Cableway
Road (Gravel Undivided) - 1 Lane
Road (Gravel Undivided) - 3 Lanes
Road - Paved.lanes.2or More.Divided
Road (Paved Undivided) - Not Elevated - 1 Lane
Road (Paved Undivided) - Not Elevated - 2 Lanes
Road - Paved.lanes.3or More.Undivided
Road (Unimproved)
Road - Loose.access Dry Weather
Road (Winter Road)
Road - Paved.lanes.2.Undivided
Road - Paved.lanes.2.Undivided.U/C
Road - Paved.Divided.access.Non Standard
Track - Cart/Tractor
Causeway (Railway)
Cut (Roadway)
Trail
Tunnel
Bridge
Access MAP
Scale: 1:87,705
DO NOT USE FOR NAVIGATION
411629
92F.092
408390
409206
409255
Upper
Quinsam
373010
410385
513560
530345
513567
533063
92F.093
329211
538879
399952
399954
399953
92F.083
92F.082
326524
Strathcona Park
LUPIN
MTN
92F.073
Map Center: 125° 32' 8" W, 49° 51' 35" N

FIGURE 2

PROPERTY (Claim Status)

The property consists of 5 mineral claims as shown on Table 1 and Figure 3, work done in 2006 is applied to 513567.

TABLE I

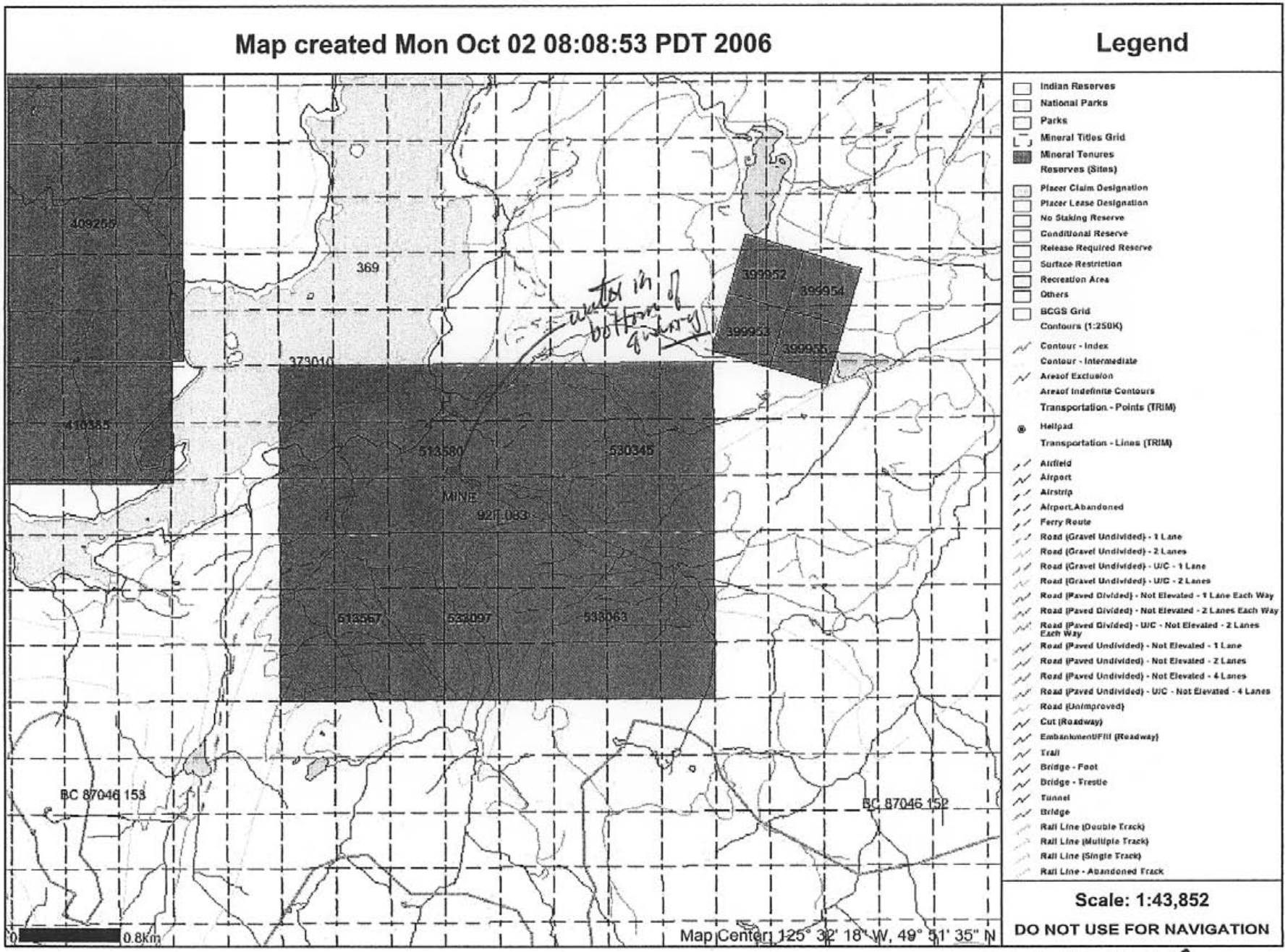
List of Claims

Claim Name	Tenure #	Cells	Area (ha)	Date Located	Current Anniversary Date	Owner
Argonaut South	513567	12	249.98	May 30, 2005	May 30, 2008	J. T. Shearer
Argonaut	513580	12	249.94	Dec. 25, 2003	Dec. 25, 2008	J. T. Shearer
Argonaut 4	530345	8	187.45	March 21, 2006	March 21, 2007	R. Billingsley
Argonaut 5	533063	12	250.00	April 26, 2006	April 26, 2007	R. Billingsley
Argonaut 6	533097	3	62.50	April 27, 2006	April 27, 2007	R. Billingsley
		47 Cells				

Since the surface rights are owned by Timberwest the legal description is Block 100, Comox Dist4rict, Vancouver Island. The precise division of rights conferred by mineral claims and surface rights is being investigated in detail.

Mineral title is acquired in British Columbia via the Mineral Act and regulations, which require approved assessment work to be filed each year in the amount of $4 per ha per year for the first three years and then $8 per ha per year thereafter to keep the claim in good standing.

Under the present status of mineral claims in British Columbia, the consideration of industrial minerals requires careful designation of the products end use. An industrial mineral is a rock or naturally occurring substance that can be mined and processed for its unique qualities and used for industrial purposes (as defined in the *Mineral Tenure Act*). It does not include "Quarry Resources". Quarry Resources includes earth, soil, marl, peat, sand and gravel, and rock, rip-rap and stone products that are used for construction purposes (as defined in the *Land Act*). Construction means the use of rock or other natural substances for roads, buildings, berms, breakwaters, runways, rip-rap and fills and includes crushed rock. Dimension stone means any rock or stone product that is cut or split on two or more sides, but does not include crushed rock.



CLAIM MAP
FIGURE 3

HISTORY

The Argonaut mine is a massive magnetite-magnetite/garnetite skarn situated on Iron Hill. From 1951 to 1957, 3,657,168 tonnes of ore were mined, from which 1,990,288,655 kilograms of concentrate was shipped. The dimension of the ore body measured about 400 by 150 by 120 metres, with a strike of 90 degrees and dip of 15 degrees north.

Several adits were driven into the hill in, or prior to, 1914. Coast Iron Company opened two quarries from which 4,886 tons of iron ore were shipped during the period December 1948 to March 1949, then the Argonaut Mine Division of Utah Company of the Americas took over the property. The property has been idle since October 1957.

Mill records show (from Fawley, 1962):

For the period December 1, 1953 to June 1, 1954, the average grade was 34.1% iron, and every 10 tons treated yielded 3.1 tons of concentrate averaging 56.2% iron (the tailings averaged 22.5% iron before reteatment).

For the period December 1, 1954 to June 1, 1955, the average grade was 42.6% iron, and every 10 tons treated yielded 6.2 tons of concentrate averaging 58.9% iron (the tailings averaged 18.7% iron before retreatment).

For the entire period 1951 to the end of operations in 1957, 1,887,985 tons of concentrates averaging 56% iron were produced from milling 3,619,349 tons of ore (i.e. every 10 tons yielded 5.2 tons concentrates). A further 77,762 tons of concentrates were obtained by retreating tailings.

In 1956, 437,572 tons of tailings that averaged 16.8% iron were retreated after grinding to minus ½ inch and yielded 72,862 tons of concentrate (i.e. every 10 tons yielded 1.67 tons of concentrates).

REGIONAL GEOLOGY Argonaut

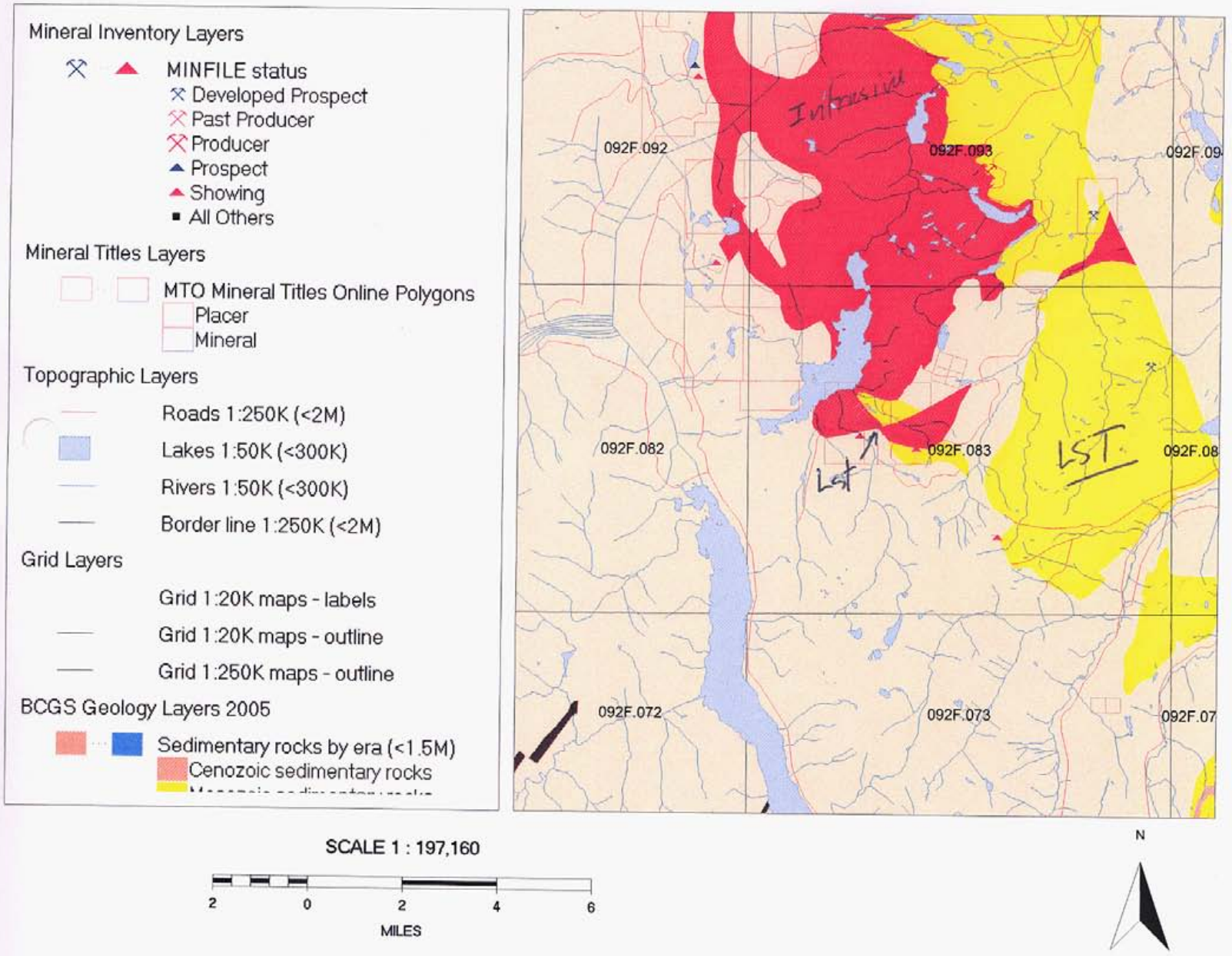


FIGURE 4

GEOLOGY

REGIONAL GEOLOGY

Regional geology has been mapped by Muller etal (1974) (92E) and is published as Geological Survey of Canada Bulletin 172 and Muller, Northcote and Carlise, 1974. Northern Vancouver Island and Adjacent Mainland has a complex structural history with frequent rejuvenation of previous structures. All Paleozoic rocks are affected by a series of southeast trending, upright to overturned, southwest-verging folds. An inspection of the regional geology map, Figure 4 (Roddick, 1980, O.F. 463), shows several elongate, fault-bounded slices of metasedimentary rocks sandwiched between separate plutons of the Coast Plutonic Complex.

The rocks underlying the claim group are part of a west dipping overturned of regional synclinal structure whose north limb is overturned on the south limb. The axial plane generally strikes east-west and dips north-northwest. Skarn is best developed and thickest in the hinge portion of the syncline. The oldest rocks are in the area of Late Triassic, pillowed and porphyritic basalt of the Karmutsen Formation. This formation is estimated to be greater than 3000m thick.

The Quatsino Formation conformably overlies the Karmutsen Formation. The formation consists of Limestone up to 900m thick. Granitic intrusives are common within the formation and the limestone has been, in places, converted to marble and skarn.

The early Jurassic Bonanza Formation conformably overlies the Quatsino limestone. The lower part of the formation is composed of carbonaceous shale, calcareous shale and greywacke, occasional tuff units are present. The upper half of the formation is composed of dacitic to andesitic lavas with tuffs and breccias.

LOCAL GEOLOGY and MINERALIZATION

Host rocks of the deposit are limestones of the Quatsino Formation. Limestone strata have been recrystallized or altered to garnetite. Intruding the limestones to the east and south is a large granodiorite body and associated with it are many diorite dykes which crosscut the limestone. Intrusion of the dykes predates the skarn event and so may represent an early phase of intrusion associated with the granodiorite.

LOCATION OF SAMPLES on Airphoto

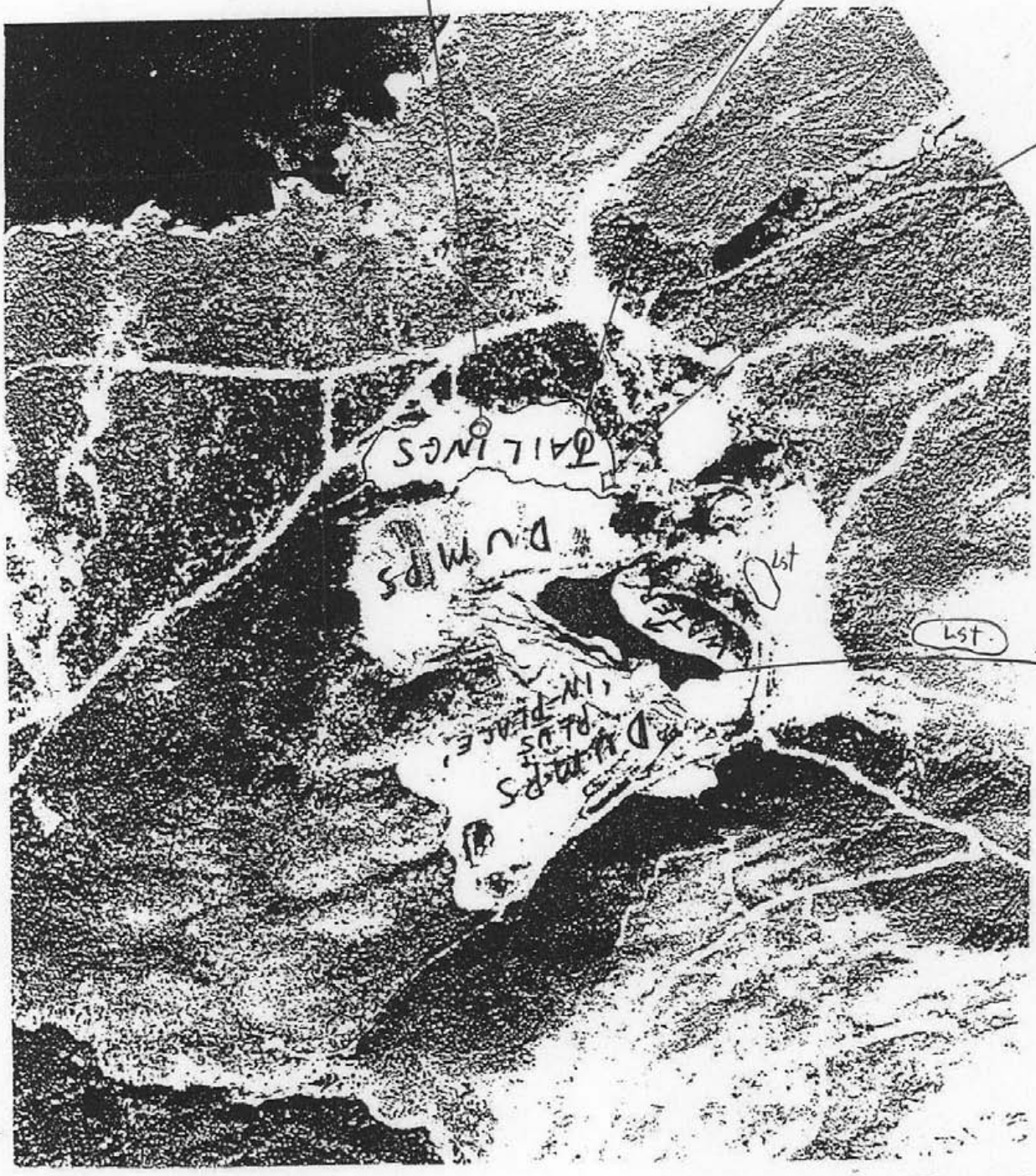


FIGURE 5a.
Sample Locations

MINERALIZATION and 2006 SAMPLING

The tailings area of the old Argonaut Mine was examined in January 2006 and several samples collected. It is apparent that the magnetite content of the various waste piles and tailings is variable, depending on the processing history of the material.

The upper coarse tailings after concentration (see Appendix III) and ICP assay sheet, assayed 65.9% Fe. The upper coarse tailings before concentration assayed 20.5% Fe. A sample of millsite concentrate Fe assayed 62.2%. This is nominal 6mm magnetite concentrate which was not shipped from the minesite. The specific gravity of the minus 325 fraction was (Appendix III) determined to be 4.7.

The lower coarse tailings assayed 35.4% Fe.

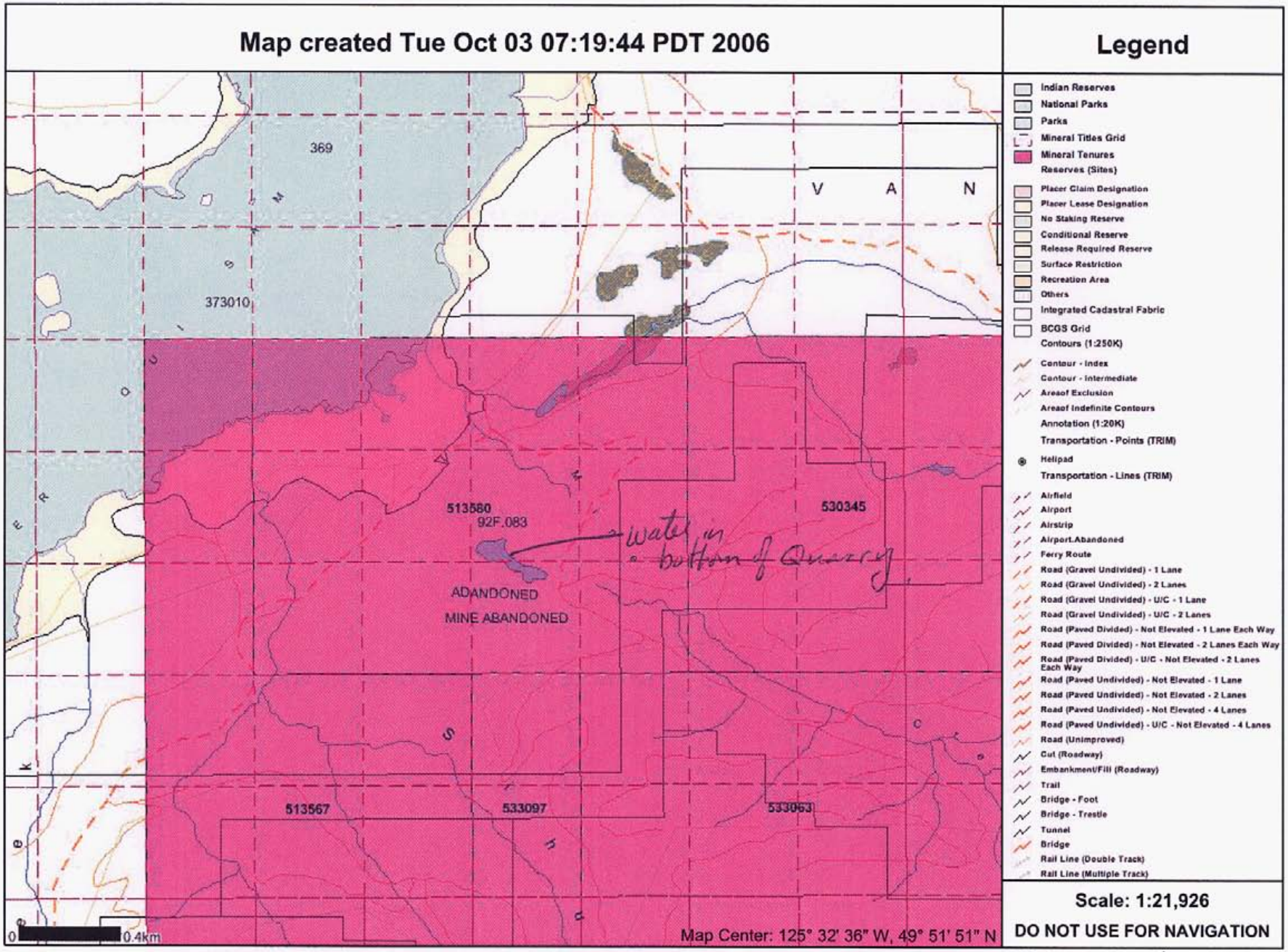


FIGURE 5b
Sample Locations

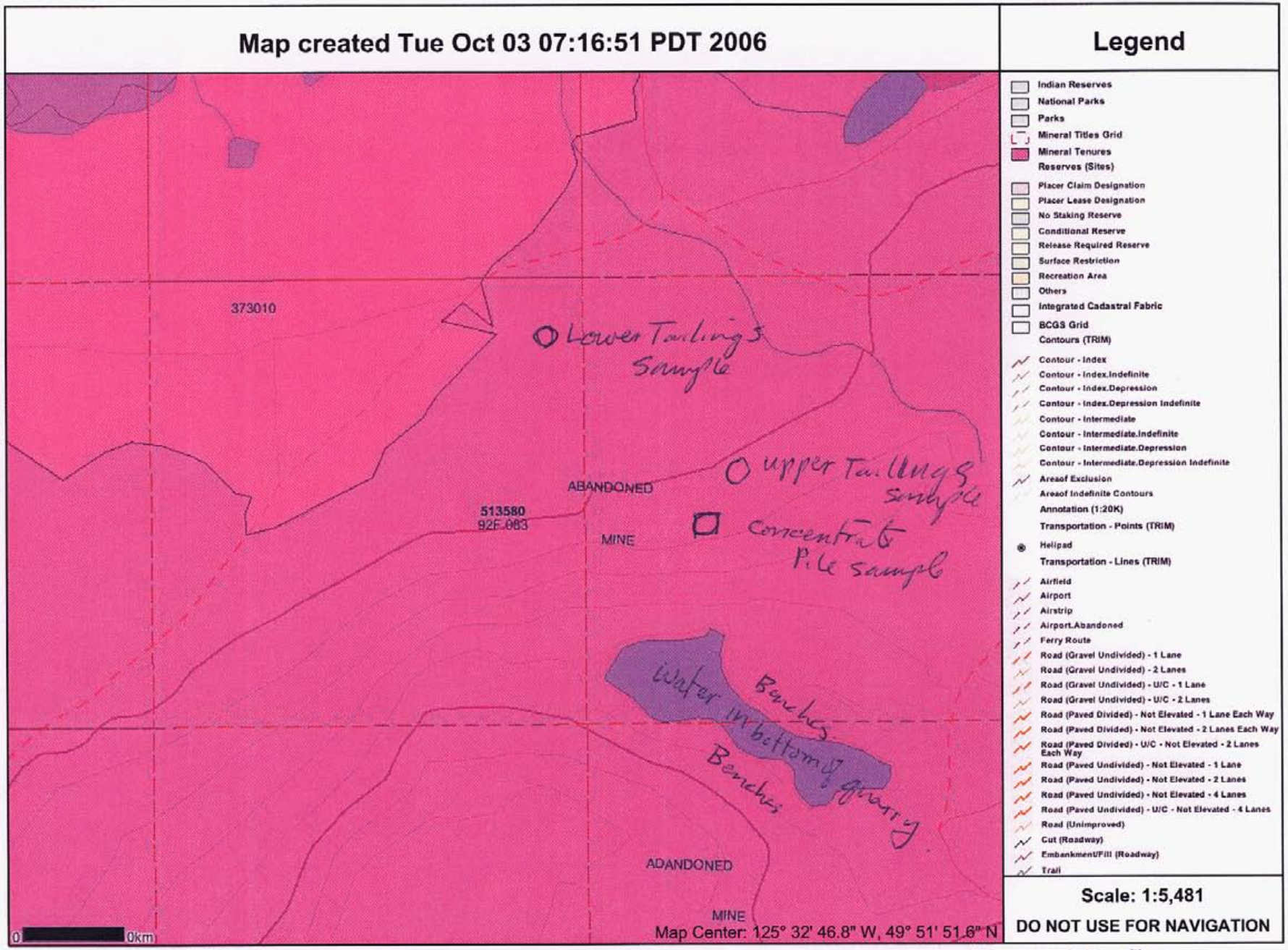


FIGURE 5c
Sample Locations

CONCLUSIONS and RECOMMENDATIONS

A large volume of waste rock and tailings are present on the Argonaut Project from mining during the 1950's. The present program completed in January 2006 demonstrates that the iron content of concentrates not shipped assays 62.2% Fe. The upper coarse tailings assayed 20.5% Fe and were able to be concentrated into a product assaying 65.9% Fe.

Further sampling of the tailings and waste piles is recommended, in conjunction with an examination of the hard rock potential at lower levels in the old quarry.

Respectfully submitted,

J. T. Shearer, M.Sc., P.Geo.

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APPENDIX I

STATEMENT OF COSTS

May 29, 2006

APPENDIX I
STATEMENT OF COSTS

Wages and Benefits		
J. T. Shearer, M.Sc., P.Geo, Geologist		
January 18 & 19, 2006, 2 days @ $500/day		$1,000.00
Graham Richards, Prospector		
January 18 & 19, 2006, 2 days @ $200/day		400.00
	GST	98.00
	Wages Subtotal	$ 1,498.00
Expenses		
Transportation		
Fully equipped 4x4 Trucks, 2 days @ $75/day		150.00
Gas		105.00
Hotel & Meals		165.00
Assays and Metallurgical Testing		1,475.00
Report Preparation		500.00
Word processing and Reproduction		210.00
	Subtotal	$ 2,605.00
	Grand Total	**$ 4,103.00**

APPENDIX II

STATEMENT OF QUALIFICATIONS

May 29, 2006

Appendix II

STATEMENT of QUALIFICATIONS

I, JOHAN T. SHEARER, of 3572 Hamilton Street, in the City of Port Coquitlam, in the Province of British Columbia, do hereby certify:

1. I am a graduate of the University of British Columbia (B.Sc., 1973) in Honours Geology, and the University of London, Imperial College (M.Sc., 1977).

2. I have over 30 years experience in exploration for base and precious metals and industrial mineral commodities in the Cordillera of Western North America with such companies as McIntyre Mines Ltd., J. C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd.

3. I am a fellow in good standing of the Geological Association of Canada (Fellow No. F439) and I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (Member No. 19,279) and a member of the CIMM and SEG (Society of Economic Geologists).

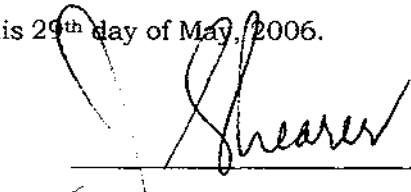
4. I am an independent consulting geologist employed since December 1986 by Homegold Resources Ltd. at #5-2330 Tyner St., Port Coquitlam, B.C.

5. I am the author of the present report entitled "Geological Report on the Argonaut South Claim, Quinsam Lake Area, B.C.: dated May 29, 2006.

6. I have visited the property on January 18 & 19, 2006. I have carried out sample collection and am familiar with the regional geology and geology of nearby properties. I have become familiar with the previous work conducted on the Argonaut Project by examining in detail the available reports and maps and have discussed previous work with persons knowledgeable of the area.

7. I own an interest in the South Argonaut Claims and own Homegold Resources Ltd.

Dated at Port Coquitlam, British Columbia, this 29th day of May, 2006.



J. T. Shearer, M.Sc., F.G.A.C., P.Geo.
Quarry Supervisor #98-3550

APPENDIX III

ASSAY CERTIFICATES

May 29, 2006

Eaton Capital DATE: Feb 21, 2006

SCREEN ANALYSIS & ASSAYING **W-06-01**

Client: **Eaton Capital** Project: **Argonaut / 06-07**

Sample: Argonaut upper coarse tailing sampled by Joe Shearer - early January 2006. This sample as 06-07 on assay certificate 06A0050.

Objective: Screen analaysis and mag separation. After screening, 2 finest fractions were subjected t magnetic separation, and after drying the coarse fractions were separated dry separation, magent in a bag. The coarse fractions were cleaned once since some small portion of no

As Received Upper Coarse Tailing / 06-07

	gm	
Mesh	**mags**	**non-mags**
	20.8	150.4
3		
	130.4	486.4
14		
	89.0	164.9
35		
	51.1	48.1
100		
	72.9	23.8
325		
	57.0	13.5
Total	421.2	887.1
Slimes		29.6
Wt % magnetics	**32.2**	

Assay of Magnetic Fractions

			Multi acid		Leco	ICP
Mesh	**gm**	**WT %**	**Fe %**	**Est mag %**	**S %**	**P %**
	20.8	4.9	56.4	77.9	0.04	0.036
3						
	130.4	31.0	64.8	89.5	0.03	0.023
14						
	89.0	21.1	68.3	94.3	0.03	0.021
35						
	51.1	12.1	70.4	97.2	0.02	0.018
100						
	72.9	17.3	66.4	91.7	0.04	0.020
325						
	57.0	13.5	63.4	87.6	0.06	0.027
Total	421.2	100.0	65.9	91.0	0.04	0.023
Upper limits for iron ore					0.05	0.05

: is referenced

:o wet
, all using a
n-mags was

Whole Rock SiO2	Whole Rock Al2O3
12.70	1.85
6.80	1.14
5.20	1.00
4.42	0.93
5.19	1.03
6.99	1.40
6.21	1.14
3.50	1.50

International Plasma Labs Ltd.
ISO 9001:2000 Certified Company

#200 - 11620 Horseshoe Way
Richmond, B.C.
Canada V7A 4V5

Phone: 604/879-7878 604/272-7818
Fax: 604/879-7898 604/272-0851
Website: www.ipl.ca
Email: info@ipl.ca

Certificate#: 06B0375
Client: Westcoast Mineral Testing Inc.
Project: Eaton
Shipment#:
PO#:
No. of Samples: 6
Analysis #1: ICP(AqR)30 in ppm Fe(T)
Analysis #2: S(T)
Analysis #3:
Comment #1:
Comment #2:
Date In: Feb 24, 2006
Date Out: Mar 02, 2006

Argonaut Upper Coarse Tailing Sample 06-07 - Mag Concentrate Screen Fractions

Sample Name	SampleType	Fe %	S(tot) %	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm
	Mag conc																
06-22A	+ 3 mesh	56.424	0.04	5473	<5	<5	43	<2	<0.2	65394	227	37	44	424016	<2	<2	1328
06-22B	3 x 14 mesh	64.785	0.03	2572	<5	<5	34	<2	<0.2	30069	55	36	35	382094	<2	<2	759
06-22C	14 x 35 mesh	68.283	0.03	2251	<5	<5	32	<2	<0.2	23597	48	44	43	438877	<2	<2	775
06-22D	35 x 100 mesh	70.385	0.02	2474	<5	23	41	<2	<0.2	23814	99	54	50	538429	<2	<2	857
06-22E	100 x 325 mesh	66.410	0.04	2766	<5	18	36	<2	<0.2	29986	46	51	78	493242	<2	<2	806
06-22F	- 325 mesh	63.441	0.06	4020	<5	35	37	<2	<0.2	37490	58	55	175	494543	<2	<2	1189
RE 06-22A	Repeat	56.091	0.04	5497	<5	5	44	<2	<0.2	69184	213	41	45	451393	<2	<2	1311
Minimum detection		0.001	0.01	100	5	5	2	2	0.2	100	1	1	1	100	2	2	100
Maximum detection		20	100	50000	2000	10000	10000	2000	2000	100000	10000	10000	10000	50000	10000	10000	100000
Method		AsyMuA	Leco	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Sample Name	Mn ppm	Hg ppm	Mo ppm	Ni ppm	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
06-22A	2344	<3	11	<1	364	400	<1	1.1	244	7	<10	166	9	39	71	13
06-22B	1604	<3	8	<1	231	285	<1	<0.1	191	4	<10	104	6	32	66	10
06-22C	1673	<3	10	<1	207	167	<1	0.4	197	4	<10	103	<5	38	83	11
06-22D	1943	<3	11	<1	178	233	<1	0.9	230	4	<10	122	10	55	99	14
06-22E	2142	<3	10	<1	200	176	<1	0.4	191	5	<10	147	7	48	88	13
06-22F	3181	<3	11	<1	272	222	<1	0.5	151	8	<10	207	8	53	98	15
RE 06-22A	2468	<3	11	<1	355	362	<1	1.2	244	7	<10	191	8	40	77	14
Minimum detection	1	3	1	1	100	100	1	0.1	100	1	10	100	5	1	1	1
Maximum detection	10000	10000	1000	10000	50000	100000	10000	100	100000	10000	1000	100000	1000	10000	10000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Certificate#: 06B0376
Client: Westcoast Mineral Testing Inc.
Project: Eaton
Shipment#:
PO#:
No. of Samples: 6
Analysis #1: SiO2 Al2O3
Analysis #2:
Analysis #3:
Comment #1:
Comment #2:
Date In: Feb 24, 2006
Date Out: Mar 02, 2006

Sample Name	SampleType	SiO2 %	Al2O3 %
	Mag conc		
06-22A	+ 3 mesh	12.70	1.85
06-22B	3 x 14 mesh	6.80	1.14
06-22C	14 x 35 mesh	5.20	1.00
06-22D	35 x 100 mes	4.42	0.93
06-22E	100 x 325 me	5.19	1.03
06-22F	- 325 mesh	6.99	1.40
RE 06-22A	Repeat	12.91	1.90
Minimum detection		0.01	0.01
Maximum detection		100	100
Method		WRock	WRock

Eaton Magnetite samples - January 2006 - Sampling by Joe Shearer

Row	Sample Name	SampleDescription	Fe %	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm
1	06-01	Benson # 1 - waste	--	17629	<5	<5	14	<2	<0.2	48309	62	34	3740	124917	<2	<2	10524
2	06-02	Benson # 2 - waste	--	18274	<5	<5	13	<2	<0.2	72705	60	37	3876	109019	2	<2	11546
3	06-03	Benson # 1 - tailing	--	5321	<5	<5	22	<2	<0.2	34945	29	23	886	254033	<2	<2	2869
4	06-04	Benson # 2 - tailing	--	9929	<5	<5	11	<2	<0.2	63852	34	35	875	125534	2	<2	5544
5	06-05	Benson # 3 - tailing	--	4992	<5	<5	21	<2	<0.2	34513	29	23	841	252096	<2	<2	2753
6	06-06	Argonaut lower coarse tailing	--	11213	<5	<5	12	<2	<0.2	110290	55	21	73	134799	<2	<2	2903
7	06-07	Argonaut upper coarse tailing	--	8978	<5	<5	19	<2	<0.2	84999	35	26	62	254133	<2	<2	1988
8	06-08	Argonaut ____ waste dump	--	17997	<5	<5	23	<2	<0.2	89222	50	9	33	82005	3	<2	3845
9	06-09	Argonaut middle waste dump	--	30873	<5	<5	42	<2	<0.2	65580	23	29	240	181310	2	<2	6994
10	06-10	Argonaut magnetite	62.2	3057	<5	<5	27	<2	<0.2	31520	21	48	65	368929	<2	<2	992
	06-10A	+ 3 mesh screen from 06-10	54.7	4159	<5	<5	26	<2	<0.2	54941	55	46	39	354945	<2	<2	1484
	06-10B	3x 14 mesh screen from 06-10	57.5	4802	<5	<5	32	<2	<0.2	54470	65	57	129	425450	<2	<2	2786
	06-10C	14 x 65 mesh screen from 06-10	65.4	3035	<5	<5	30	<2	<0.2	29912	39	55	62	421412	<2	<2	965
	06-10D	65x 325 mesh screen from 06-10	72.5	1976	<5	<5	38	<2	<0.2	16709	39	70	71	532500	<2	<2	771
	06-10E	-325 mesh screen from 06-10	74.3	1717	<5	31	49	<2	<0.2	6724	57	92	134	652175	<2	<2	708
	Minimum detection		0.001	100	5	5	2	2	0.2	100	1	1	1	100	2	2	100
	Maximum detection		100	50000	2000	10000	10000	2000	2000	100000	10000	10000	10000	50000	10000	10000	100000
	Method		AsyMuA	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

SampleDescription	Mn ppm	Hg ppm	Mo ppm	Ni ppm	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
Benson # 1 - waste	430	<3	6	47	438	616	2	1.7	1386	149	<10	989	<5	64	41	5
Benson # 2 - waste	473	<3	6	37	508	760	2	1.8	1416	323	<10	1101	8	57	52	5
Benson # 1 - tailing	479	<3	9	<1	239	412	<1	1.0	379	14	<10	646	10	44	17	8
Benson # 2 - tailing	814	<3	7	3	402	369	1	1.0	448	68	<10	647	7	32	33	8
Benson # 3 - tailing	472	<3	9	<1	214	417	<1	1.0	338	12	<10	530	10	42	18	7
Argonaut lower coarse tailing	3121	<3	4	<1	284	166	3	0.4	117	15	<10	648	<5	39	53	11
Argonaut upper coarse tailing	2648	<3	6	<1	297	<100	2	0.2	129	12	<10	396	<5	30	54	14
Argonaut ____ waste dump	2021	<3	6	6	772	200	3	0.8	398	52	<10	594	<5	184	50	12
Argonaut middle waste dump	1941	<3	6	10	449	255	3	0.6	2325	148	<10	634	<5	64	66	9
Argonaut magnetite	1637	<3	6	<1	195	<100	<1	0.2	129	6	<10	204	8	36	61	11
+ 3 mesh screen from 06-10	2057	<3	7	<1	237	181	<1	0.2	137	6	<10	246	10	46	54	11
3x 14 mesh screen from 06-10	2287	<3	8	3	262	180	<1	0.2	146	6	<10	305	9	50	73	14
14 x 65 mesh screen from 06-10	1767	<3	8	20	191	<100	<1	0.2	126	5	<10	216	14	44	67	13
65x 325 mesh screen from 06-10	1670	<3	6	<1	169	209	<1	0.2	134	3	<10	168	<5	54	72	15
-325 mesh screen from 06-10	1995	<3	9	<1	201	161	<1	0.4	117	4	<10	170	7	75	122	21
RE 06-01	464	<3	5	46	462	669	2	1.6	1463	151	<10	1235	<5	69	42	6
Minimum detection	1	3	1	1	100	100	1	0.1	100	1	10	100	5	1	1	1
Maximum detection	10000	10000	1000	10000	50000	100000	10000	100	100000	10000	1000	100000	1000	10000	10000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

Row	Comments
1 - 10	The ICP reported Fe grades are all above the upper reporting limit for ICP, so 1 - 9 will be repeated as Fe assays.
1 - 10	Low grades for Sb, As, Cd,, Cr, Pb, Hg, and Zn.
1- 5	Note the somewhat elevated Cu content. Not surprising given that this was a copper mine

W-06-01 Eaton Capital DATE: Jan 11, 2006

SCREEN ANALYSIS & SG DETERMINATION W-06-01

Client: **Eaton Capital** Project: **Argonaut**

Sample: Millsite magnetite sampled by Joe Shearer - January 2006. This is nominal minus 6 mm magnetite concentrate that was never shipped from the mine site. This sample is referenced as 06-10 on the accompanying assay

Objective: Screen analaysis of this HG magnetite product to determine the percentage of minus 325 material. Also SG of the minus 325 fraction.

As Received Magnetite Concentrate Screen Analysis

The estimated magnetite content was determined form the 72.4 % Fe in pure magnetite.

Mesh	gm	WT %	Fe %	Est mag %
	117.4	10.5	54.7	75.6
3				
	463.8	41.5	57.5	79.4
14				
	302.8	27.1	65.4	90.3
65				
	151.5	13.6	72.5	100.1
325				
	82.5	7.4	74.3	102.6
Total	1118.0	100.0	62.6	86.5
Original Sample			62.2	85.9

In addition to the above, the wash water contained 4.0 gm of "rock" (gangue) slimes.

Specific Gravity Determination - minus 325 mesh fraction

Original Sample

The SG was determined using a 10 ml precision (+/- 0.02 ml) volumetric flask
After adding the sample and nearly filling with water, the flask was boiled to exclude dissolved air, then refilled with water.

Pulverized Sample

A nominal 200 gm portion of sample 06-10 was pulverized, agitated in water, subjected to mag separation using a hand held permanent magnet, screened, and the minus 325 fraction was tested for

	Original Sample	Pulverized sample
Material	gm	
flask + solids + wate	32.2	35.0
flask + solids	25.8	29.4
flask	8.9	8.9
solids	16.9	20.5
water	6.4	5.6
volume solids	3.6	4.4
SG solids	**4.7**	**4.7**

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Certificate#: 06D0788
Client: Westcoast Mineral Testing Inc.
Project: Eaton
Shipment#:
PO#:
No. of Samples: 2
Analysis #1: Whole Rock Analysis
Analysis #2:
Analysis #3:
Comment #1:
Comment #2:
Date In: Apr 10, 2006
Date Out: Apr 13, 2006

Argonaut lower and upper coarse tailing, respectively, as sampled by Jo Shearer in Jan 06

Sample Name	SampleType	Al2O3 %	BaO %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	Total %
06-06	Pulp	5.20	0.52	30.27	27.35	0.64	1.06	0.86	0.44	0.03	30.04	0.65	2.05	99.12
06-07	Pulp	3.71	0.37	21.31	48.88	0.34	0.65	0.64	0.29	0.05	19.90	0.42	2.13	98.70
RE 06-06	Repeat	5.27	0.53	29.80	27.79	0.39	1.07	0.86	0.45	0.09	29.77	0.66	2.20	98.89
Minimum detection		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum detection		100	100	100	100	100	100	100	100	100	100	100	100	105
Method		WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	WRock	2000 F	WRock

** Values highlighted (in yellow) are over the high detection limit.*

Not consistent with 06A0175

Eaton Magnetite samples - January 2006 - Sampling by Joe Shearer

from IPL 06A0128

Sample Name	SampleDescription	Fe %	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm
06-06	Argonaut lower coarse tailing	20.5	11213	<5	<5	12	<2	<0.2	110290	55	21	73	134799	<2	<2	2903
06-07	Argonaut upper coarse tailing	35.4	8978	<5	<5	19	<2	<0.2	84999	35	26	62	254183	<2	<2	1988
Minimum detection		0.001	100	5	5	2	2	0.2	100	1	1	1	100	2	2	100
Maximum detection		100	50000	2000	10000	10000	2000	2000	100000	10000	10000	10000	50000	10000	10000	100000
Method		AsyMuA	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

SampleDescription	Mn ppm	Hg ppm	Mo ppm	Ni ppm	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
Argonaut lower coarse tailing	3121	<3	4	<1	284	166	3	0.4	117	15	<10	648	<5	39	53	11
Argonaut upper coarse tailing	2648	<3	6	<1	297	<100	2	0.2	129	12	<10	396	<5	30	54	14
Minimum detection	1	3	1	1	100	100	1	0.1	100	1	10	100	5	1	1	1
Maximum detection	10000	10000	1000	10000	50000	100000	10000	100	100000	10000	1000	100000	1000	10000	10000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP