

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU		
<b>HOLE NO.:</b> 00-001	<b>LENGTH: (m)</b> 327 m.	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b> Core stored at Lac des Iles mine site	
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b> 32338.88	<b>EASTING:</b> 32132.56				
<b>SECTION:</b> 600NR	<b>ZONE:</b> N. Roby	<b>ELEVATION:</b> 508.5				<b>DATE LOGGED:</b> June 17 - 22, 2000	
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b> PLANNED: 307°/-62.5°		<b>SURVEYED:</b> 307.070/-60.162				<b>LOGGED:</b> J. Rickard	<b>SIGNATURE:</b> <i>[Signature]</i>
<b>HOLE STARTED:</b> 11-Jun-00	<b>HOLE FINISHED:</b> 13-Jun-00	<b>MAG DECLINATION:</b> 2.1° W				S. Burgess <b>SHEET 1 OF 23</b>	

METERAGE		DESCRIPTION	Rock Code	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS									
FROM	TO			Plag	Pxr	Comp	Prop <sup>t</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %				
0.00	1.40			CASING OVERBURDEN																			
1.40	3.37	GABBRONORITE																					
		Medium grained, equigranular gabbronorite Relatively fresh Opx, brown, but pitted Core broken, ground surfaces, centered button						1	2			001	1.40	3.37	1.97	nil		0.02	0.00	0.01	0.008	0.004	0.002
3.37	18.69	GABBRONORITE																					
		Medium grained, altered to relatively fresh gabbronorite, alternating sections.						3	3			002	3.37	6.00	2.63	nil		0.01	0.00	0.00	0.007	0.003	0.002
		Altered zones marked by Cpx altered to actinolite, bleaching of Plag, epidote alteration of Plag						2	2			003	6.00	7.99	1.99	nil		0.00	0.00	0.00	0.007	0.004	0.002
		shiny Opx.						3	3			004	7.99	10.76	2.77	nil		0.00	0.00	0.00	0.011	0.003	0.002
		Contacts between zones gradational to sharp. Opx in relatively fresh zones is brown and pitted, Cpx moderately altered.						2	2			005	10.76	13.50	2.74	tr		0.01	0.00	0.00	0.008	0.004	0.002
		35-40% Opx, 15-20% Cpx, 40-45% Plag. Joints of 30-45° to core axis, slickensides, some oxidized surfaces, pyrite in joint. Occasionally magnetic throughout.						2	2			006	13.50	16.47	2.97	nil		0.01	0.00	0.00	0.008	0.004	0.002
								3	3			007	16.47	18.68	2.21	nil		0.01	0.00	0.00	0.008	0.004	0.002



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LAC DES ILES

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# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-001

LOGGED BY: **J.Rickard**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
29.87	31.66		<p><b>MELANOGABBRONORITE</b></p> <p>Medium grained melanogabbonorite, Opx dark brown/pitted; Cpx green, altered 50-55% Opx, 10-15% Cpx, 30-35% Plag. Weakly magnetic, no sulphides. Bleaching of Plag and epidote developed in fractures at 40° to core axis.</p>					011	29.87	31.66	1.79	nil		0.01	0.00	0.00	0.008	0.004
31.66	41.62	<p><b>GABBRONORITE</b></p> <p>Medium grained, altered gabbonorite. Moderate to weak foliation throughout at 50° - 80° to core axis. Bleached/saussuritized feldspar throughout, occasional epidote alteration of Plag. Pyroxene altered, dark green; difficult to identify Opx. Non-magnetic. Trace Pyrite specks throughout 34.45m - 34.69m - Mafic dike a 30° to core axis, fine grained, black, non-magnetic. Slightly sheared margins.</p>					012	31.66	34.45	2.79	tr		0.01	0.00	0.00	0.009	0.003	0.002
							013	34.45	36.72	2.27	tr		0.01	0.00	0.01	0.009	0.004	0.002
							014	36.72	39.67	2.95	tr		0.01	0.00	0.00	0.009	0.004	0.002
							015	39.67	41.62	1.95	tr		0.01	0.00	0.00	0.007	0.003	0.002



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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
52.60	65.34		<b>GABBRONORITE</b>  Medium grained, altered gabbronorite to melanogabbronorite similar to above, but slightly more mafic. 25-40% Plag, 30-35% Opx, 30-35% Cpx Pyroxene altered dark green; Opx pitted and shiny. Plag bleached to pink/brown, occasionally altered to epidote, approximately 1% epidote throughout. Non magnetic Joints of 40° to 45° to core axis, Occasional tiny fractures filled with epidote. Trace pyrite specks occasionally throughout.															
		3		3			020	52.60	54.35	1.75	tr		0.01	0.00	0.00	0.013	0.004	0.002
		3		3			021	54.35	57.00	2.65	tr		0.01	0.00	0.00	0.010	0.004	0.002
		3		3			022	57.00	59.83	2.83	tr		0.01	0.00	0.00	0.011	0.004	0.002
		3		3			023	59.83	62.65	2.82	tr		0.01	0.00	0.00	0.010	0.004	0.002
		3		3			024	62.65	65.34	2.69	tr		0.01	0.00	0.00	0.010	0.004	0.002
65.34	71.46	<b>GABBRO</b>  Medium grained, altered gabbro 5-7% Opx, 50-55% Plag, 40-45% Cpx. Trace chalcopyrite-pyrrhotite occurring together, trace pyrite occurring separately. Chalcopyrite/pyrrhotite only in quartz veins. Cpx altered to actinolite, variable amounts of Plag alteration, occasional epidote/saussurite alteration. Weak foliation at 60° to core axis. 69.08m - 69.20m - Diabase dike fine grained, dark green, Sharp, but irregular contacts. Upper contact approximately 45° to core axis, lower contact approximately 80° to core axis. < 0.2 cm breccia fragments within.																
			3	3			025	65.34	67.03	1.69	tr		0.01	0.00	0.00	0.008	0.004	0.002
			3	3			026	67.03	69.22	2.19	tr		0.01	0.00	0.00	0.009	0.004	0.002
			3	3			027	69.22	71.46	2.24	tr		0.01	0.00	0.00	0.008	0.005	0.002

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North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-001

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
71.46	77.61		<p><b>GABBRO</b></p> <p>Medium grained, gabbro, dark green, similar to above, not as altered. Moderate foliation at 60° to core axis, some thin shears parallel to foliation. 5 - 10% Opx, 40-45% Cpx, 35-40% Plag, 1% epidote. Pyrite specks throughout, trace, interstitial 75.70m - Quartz vein 2.0 cm wide at 45° to core axis. Biotite all along margins, fine grained.</p>															
			2	2			028	71.46	74.20	2.74	tr		0.01	0.00	0.00	0.007	0.004	0.001
			2	2			029	74.20	75.49	1.29	tr		0.01	0.00	0.00	0.009	0.004	0.002
			2	2			030	75.49	77.61	2.12	tr		0.01	0.00	0.00	0.008	0.004	0.002
77.61	83.15	<p><b>GABBRO TO GABBRONORITE</b></p> <p>Medium grained gabbro to gabbronorite, dark green/brown Feldspar pink-brown Fine grained epidote alteration throughout, along pyroxene feldspar margin and on thin fractures, up to 1.5 -2.0% epidote. Opx green and pitted, Cpx green.</p>																
			2	2			031	77.61	80.26	2.65	tr		0.01	0.00	0.00	0.008	0.004	0.002
			2	2			032	80.26	83.15	2.89	tr		0.01	0.00	0.00	0.008	0.005	0.002
83.15	87.93	<p><b>GABBRO</b></p> <p>Medium grained, equigranular, altered gabbro. Plag pink/brown Trace specks of pyrite Occasionally magnetic, pyroxene green, altered Joints at 45° to 55° to core axis. 87.57m - Quartz vein at 30° to core axis, 1.0 cm wide, Brown colouring, fine grained, biotite alteration.</p>																
			2	3			033	83.15	85.85	2.70	Tr		0.01	0.00	0.01	0.009	0.005	0.002
			2	3			034	85.85	87.93	2.08	Tr		0.02	0.00	0.00	0.008	0.005	0.002

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METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
			Plag	Pxr													Com	Prop
87.93	97.25	<b>GABBRO</b>  Medium grained, weakly altered gabbro, dark green to dark green with speckling of white Plag. Occasionally slightly magnetic 5-7% Opx, 50-55% Plag, 40-45% Cpx Plag bleached to pink/brown Occasional 0.5 cm quartz veins at 85° to subparallel to core axis with long, black amphiboles? Minor epidote and bleached feldspar around small fractures. 96.82m - 96.82m - Quartz vein at 40° to core axis, sharp contacts. 2.0 mm wide pyrite blebs along one contact margin.																
			2	3			035	87.93	90.13	2.20	tr		0.01	0.00	0.00	0.007	0.004	0.001
			3	3			036	90.13	93.00	2.87	tr		0.01	0.00	0.00	0.007	0.004	0.002
			2	3			037	93.00	95.82	2.82	tr		0.01	0.00	0.00	0.006	0.004	0.002
			3	3			038	95.82	97.25	1.43	tr		0.01	0.00	0.00	0.007	0.004	0.002
97.25	99.14	<b>GABBRO</b>  Medium grained, dark green and white/pink gabbro. Non magnetic 99.20m - 99.28m and 99.51m - 99.52m. Two stringers of fine grained to medium grained, black/grey microgabbroic material cross cut coarser grained gabbro at 30° to 40° to core axis, sharp contacts. Magnetic, 1.0cm and 4.0cm wide. All cross cut by a 1-2 cm wide quartz vein at 10° to subparallel to core axis.																
			2	3			039	97.25	99.14	1.89	nil		0.01	0.00	0.00	0.006	0.004	0.001











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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
147.03	155.11		<b>VARITEXTURED GABBRONORITE (continued)</b>  Trace pyrite specks Plag altered, pink/brown Joints at 45° and 65° to core axis, occasionally carbonate filled.															
155.11	165.01	<b>VARITEXTURED GABBRONORITE</b>  Medium grained to coarse grained, varitextured gabbro Occasional trace pyrite specks Extensive alteration of pyroxene, Opx shiny, Plag pink/brown, in colour. Talc alteration of pyroxene, powdery, greasy feel. Joints 35° to core axis, occasionally carbonate filled One 0.4 cm, subhedral blue quartz crystal found in gabbro. Variation from medium grained to coarse grained rock is gradational. 157.88m - 159.07m -Mafic dike fine grained, dark green, Weakly magnetic, diffuse contacts.																
			3	4			062	155.11	157.88	2.77	nil		0.82	0.14	0.07	0.016	0.014	0.002
			2	3			063	157.88	160.75	2.87	tr		0.51	0.07	0.09	0.008	0.009	0.002
			2	3			064	160.75	162.31	1.56	nil		0.15	0.04	0.02	0.006	0.011	0.002
			3	4			065	162.31	165.01	2.70	nil		0.38	0.06	0.03	0.005	0.009	0.002





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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
182.23	196.05	<p><b>MELANOGABBRONORITE BRECCIA (continued)</b></p> <p>Occasional 2-3 cm wide zone of alteration, associated with carbonate filled joints to pervasive pseudomorphing of pyroxene by chlorite, actinolite, bright green.</p> <p>Occasional epidote alteration of Plag throughout, wide zone at 186.93m - 187.21m.</p> <p>30-50% Opx, 30-60% Plag, 5-25% Cpx.</p> <p>Contacts between matrix and clasters are sharp.</p> <p>Zones of matrix 6-40 cm wide.</p> <p>Pyrrhotite/chalcopyrite blebs rare, 0.8-1.0 cm wide, 2:1 pyrrhotite:chalcopyrite ratio, interstitial to silicates.</p> <p>Joints at 40°, 50° and 20° to core axis, carbonate filled.</p> <p>190.20m - 190.27m - Fault at 70° to core axis, angular, black breccia fragments, &lt;1.0 cm, chlorite alteration throughout.</p>																
196.05	200.39	<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Medium grained to pegmatitic, altered varitextured gabbronorite.</p> <p>Occasional trace specks of pyrite.</p> <p>Contacts between medium grained and coarse grained rocks are gradational.</p> <p>Opx altered to tremolite, large, white, bladed crystals visible, with 2 cleavages at 124° and 56°, some talc?</p> <p>Cpx green, altered to actinolite.</p> <p>Plag occasionally altered to fine grained, dark green chlorite.</p>																
			2	4			080	196.05	198.90	2.85	nil		0.60	0.07	0.03	0.004	0.007	0.001
			2	4			081	198.90	200.39	1.49	tr		0.37	0.07	0.07	0.029	0.017	0.002

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
196.05	200.39	<b>VARITEXTURED GABBRONORITE (continued)</b>  5-40% Opx, 10-40% Cpx, 30-50% Plag. Little to none of the primary minerals remain																
200.39	210.10	<b>VARITEXTURED GABBRONORITE</b>  Medium grained to coarse grained, varitextured gabbonorite, mostly medium grained, approximately 5% coarse grained. Abrupt upper contact, marked by grain size reduction over 3-5 cm. Trace pyrite specks and blebs, blebs subround, 0.5-1.0 cm. Opx altered to tremolite, talc, very soft Cpx green, altered to actinolite. 203.49m - Fault gouge at 60° to core axis, narrow zone of powdered and granular carbonate. Greenish chlorite? alteration. 208.14m - 208.42m - Shear at 30° to core axis, pervasive dark orange/red hematite alteration. Core broken, joints at 40°, 30°, 50° to core axis, carbonate filled, granular. Hematite mostly in Plag. 210.00m - 210.10m and 208.95 to 209.13m - Sheared at 70° to 80° Fine grained shears, light green, epidote alteration Some hematite alteration.																
			3	3			082	200.39	203.16	2.77	tr		0.26	0.05	0.02	0.011	0.013	0.003
			3	3			083	203.16	206.08	2.92	nil		0.17	0.03	0.01	0.004	0.009	0.001
			4	4			084	206.08	208.24	2.16	tr		0.20	0.03	0.01	0.002	0.014	0.002
			4	4			085	208.24	210.10	1.86	nil		0.15	0.03	0.01	0.001	0.017	0.002





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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
221.34	235.26	<b>VARITEXTURED GABBRONORITE</b>  Medium grained to coarse grained varitextured gabbronorite More mafic units, slightly magnetic	2	3			090	221.34	222.00	0.66	nil		0.13	0.02	0.00	0.001	0.008	0.001	
			2	3			091	222.00	225.00	3.00	nil		0.17	0.03	0.01	0.002	0.007	0.001	
			3	3			092	225.00	228.00	3.00	tr		0.60	0.04	0.00	0.003	0.007	0.001	
			3	3			093	228.00	231.00	3.00	tr		0.12	0.03	0.01	0.008	0.008	0.002	
			3	4			094	231.00	234.00	3.00	tr		0.56	0.08	0.02	0.006	0.009	0.001	
			3	3			095	234.00	235.26	1.26	nil		0.81	0.07	0.04	0.013	0.011	0.002	
235.26	262.51	<b>VARITEXTURED GABBRONORITE</b>  Medium grained - coarse grained Dull grey/black/white mottled, local brownish hue. Basically coarse grained varitextured gabbronorite to 251 meters, then medium to very coarse grained locally, sections approaching melanogabbronorite and leucogabbronorite. 30-70% Plag, 20-60% Cpx, 10-35% Opx, magnetite trace to 2% Very patchy magnetism Rare felsic dikes, veins - over top 15 meters. Weak to moderate alteration, very weak saussuritization Rare, patchy, potassium feldspar. Shears rare, usually with biotite, for example, 243.36m - 245.41m (20°); 245.41m - 245.42m (40°) Moderate actinolite/tremolite alteration; local chlorite and rare hornblende rims on pyroxene crystals. 241.64m - 241.87m - Diabase dike, fine to fine/medium grained. Almost microporphyritic. Weakly magnetic. Also occasional "fresh" Opx mixed with actinolite; green- black striations to lamellar. Occasional dull bluish hue to Opx - for example 254.00m - 255.00 cm.																	
			2	2			096	235.26	237.50	2.24	tr		0.90	0.11	0.01	0.006	0.011	0.002	
			2	3			097	237.50	240.00	2.50	0.25	1:1	0.46	0.08	0.02	0.008	0.010	0.001	
			2	3			098	240.00	243.00	3.00	tr		0.22	0.04	0.01	0.006	0.006	0.001	
			2	3			099	243.00	246.00	3.00	tr		0.16	0.03	0.01	0.005	0.005	0.001	
			2	3			100	246.00	249.00	3.00	tr		0.11	0.03	0.01	0.003	0.006	0.001	
			2	3			101	249.00	252.00	3.00	tr		0.59	0.04	0.03	0.009	0.008	0.001	
			2	3			102	252.00	255.00	3.00	0.25	1:1	1.29	0.11	0.05	0.013	0.011	0.001	
			2	3			103	255.00	258.00	3.00	0.50	3:1	3.38	0.25	0.09	0.030	0.014	0.002	
			2	3			104	258.00	260.50	2.50	nil		1.27	0.14	0.03	0.010	0.009	0.001	
			2	3			105	260.50	262.51	2.01	nil		1.68	0.23	0.11	0.014	0.024	0.002	

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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-001

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES						ASSAYS					
FROM	TO		Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
			Plag	Pxr													Com	Prop
235.26	262.51	<p><b>VARITEXTURED GABBRONORITE (continued)</b></p> <p>Pyroxenite alteration increases with depth, also fine-medium grained epidote crystals appear in last 3 meters. Gradational to diffuse contacts.</p>																
262.51	268.33	<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Medium grained Dull-dark grey, mottled Unit is 1/3 varitextured gabbro-norite, 1/3 varitextured melanogabbro-norite, 1/3 gabbro-norite, medium grained. 25-60% Plag,(medium grained 40-45%), 30-40% Cpx, 10-25% Opx throughout unit. Much less grain size variation than varitextured units above, or below May in fact, be lens within much larger unit. Similar units and of this size, appear downhole too. These units, including this one, are quite broken up, sheared. Ends at dike,contact at 70 to 75° to core axis.</p>					2	262.51	264.50	1.99	0.25		0.71	0.18	0.46	0.087	0.062	0.002
							2	264.50	266.50	2.00	0.50		0.38	0.11	0.14	0.114	0.093	0.004
							2	266.50	268.33	1.83	0.25		0.24	0.10	0.32	0.108	0.088	0.003
268.33	272.95	<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Coarse to very coarse grained. Light grey, mottled. 45-65% Plag, 20-40% Cpx, 10-30% Opx Weak to moderate alteration. Similar to unit as at 262.51m Gradational contact.</p>					2	268.33	270.50	2.17	0.25	1:1	0.11	0.02	0.01	0.003	0.008	0.001
							3	270.50	272.95	2.45	0.50	1:1	0.03	0.02	0.06	0.057	0.033	0.002









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor				<b>DRILLING COMPANY:</b> CHIBOUGAMAU					
<b>HOLE NO.:</b> 00-002	<b>LENGTH: (m)</b> 420.0m	<b>CORE SIZE:</b> NQ	<b>DEPTH</b> <b>DIP</b> <b>AZM</b>		<b>DEPTH</b> <b>DIP</b> <b>AZM</b>		<b>REMARKS:</b> Core stored at Lac des Iles mine site				
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b> 32307.929	<b>EASTING:</b> 32173.708								
<b>SECTION: 600 NR</b>		<b>ZONE:</b> N. Roby	<b>ELEVATION:</b> 506.626				<b>DATE LOGGED:</b> June 17, June 22, 2000				
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b> PLANNED: 307/-60°		<b>SURVEYED:</b> 307.846/-59.790				<b>LOGGED:</b> S. Burgess		<b>SIGNATURE:</b> <i>[Signature]</i>			
<b>HOLE STARTED:</b> June 14, 2000		<b>HOLE FINISHED:</b> 18-Jun-00		<b>MAG DECLINATION:</b> 2.1° w				J. Rickard <b>SHEET 1 OF 28</b>			

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS									
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr	Comp												
0.00	3.00	<b>OVERBURDEN</b>																
3.00	17.17	<b>GABBRO</b>  " East gabbro" Medium grained, locally equigranular. Local foliation at 50-65° to core axis. Dull grey-green, mottled. Occasional lighter/paler sections, up to 10 cm. Plag 45-55%, Cpx 45-55%, trace magnetite, trace Opx. Top 2 meters weakly sheared - almost crenulated, locally bleached (saussuritized). 3.40m - 3.60m - Possible melanogabbronorite lens (sharp contacts, but rounded core-boulder?) 5.00m - 5.10m - Shear, with small Plag flooding zone 60° shear at 5.00 m 60° contact																
			2	2		001	3.00	6.00	3.00	nil		0.03	0.00	0.00	0.005	0.004	0.002	
			2	2		002	6.00	9.00	3.00	nil		0.06	0.00	0.00	0.004	0.006	0.002	
			2	2		003	9.00	12.00	3.00	nil		0.11	0.00	0.00	0.005	0.006	0.002	
			2	2		004	12.00	15.00	3.00	nil		0.10	0.00	0.00	0.005	0.008	0.002	
			2	2		005	15.00	17.17	2.17	nil		0.09	0.00	0.00	0.007	0.009	0.003	
17.17	28.15	<b>HETEROLITHIC GABBRO BRECCIA</b>  Physical breccia from lots of diabase, granite and other felsic dikes. Unit quite broken up. Diabase usually magnetic, and pyritic. A total of 6 diabase dikes, from 10-70 cm. Most diabase dikes must be related - all have sharp, 50° to core axis contacts.																
			2	2		006	17.17	20.00	2.83	tr		0.04	0.00	0.00	0.008	0.012	0.003	
			3	2		007	20.00	22.00	2.00	0.25		0.04	0.00	0.00	0.004	0.008	0.002	
			3	2		008	22.00	24.00	2.00	0.25		0.10	0.16	0.00	0.006	0.011	0.002	
			2	3		009	24.00	26.50	2.50	0.25		0.08	0.01	0.02	0.023	0.018	0.005	
			2	3		010	26.50	28.15	1.65	tr		0.08	0.00	0.00	0.012	0.008	0.002	





# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
17.17	28.15	<p><b>HETEROLITHIC GABBRO BRECCIA (continued)</b></p> <p>Ranges from very fine grained (diabase) to very coarse grained (gabbro to leucogabbro) Unit much more fractured than rock above, below this unit especially 23.00m - 24.00m .</p>																
28.15	44.83	<p><b>GABBRO TO GABBRONORITE</b></p> <p>Medium grained, equigranular dark green/grey. Variable alteration throughout, Plag bleached and epidotized, Cpx altered to actinolite, Opx shiny with pitted texture. Moderate foliation, at 50° to 60- to core axis, determined by orientation of pyroxenite. 30.00m - 31.15m and 40.65m - 44.83m -Gabbro, medium grained, homogeneous, equigranular. Trace pyrite specks. 50-55% Cpx, 40-45 % Plag, 31.15m - 40.65 m -Gabbronorite, moderately altered, trace pyrite specks. 10-25% Opx, 35-40% Plag, 35-40% Cpx. 44.07m - 44.24m - Diabase dike - fine grained to fine grained, porphyritic, Sharp contacts at 45° to core axis. Plag phenocrysts up to 0.9cm, euhedral, moderate saussurite Magnetic.</p>	3	2			011	28.15	30.00	1.85	nil		0.03	0.00	0.00	0.005	0.007	0.002
			2	2			012	30.00	33.00	3.00	nil		0.01	0.00	0.00	0.020	0.004	0.002
			2	2			013	33.00	36.00	3.00	tr		0.01	0.00	0.00	0.009	0.003	0.002
			2	2			014	36.00	39.00	3.00	tr		0.00	0.00	0.00	0.007	0.003	0.002
			3	2			015	39.00	42.00	3.00	tr		0.00	0.00	0.00	0.007	0.003	0.002
			3	2			016	42.00	44.83	2.83	tr		0.01	0.00	0.00	0.010	0.003	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
44.83	54.00	<b>GABBRO TO GABBRONORITE</b>  Medium grained, relatively equigranular, foliated at 45-50° to core axis. Moderately altered throughout, feldspar saussuritized. Gradational contacts between gabbro and gabbronorite Epidote alteration around fractures, occasional pyrite filled fractures subparallel to core axis. Plag 35-45%, Opx 5-20%, Cpx 35-50% Joints at 30°, 45° to core axis, pyrite specks throughout. 44.83m - 46.92m -Porphyritic diabase dike - Fine grained to coarse grained, dark green/grey Upper contact irregular at 90° to subparallel to core axis. Lower contact at 90° to subparallel to core axis, very sharp. Plag phenocrysts up to 1.0 cm.																	
			3	3			017	44.83	48.00	3.17	tr		0.00	0.00	0.00	0.008	0.003	0.003	
			3	3			018	48.00	51.00	3.00	tr		0.00	0.00	0.00	0.008	0.003	0.002	
			3	3			019	51.00	54.00	3.00	tr		0.00	0.00	0.00	0.008	0.003	0.002	
54.00	64.78	<b>GABBRONORITE</b>  Medium grained, dark green occasionally sheared at 50° to 60° to core axis. Shears defined by grain size reduction, increased alteration, saussuritization and uralization. Occasional fracture surrounded by epidote. Significant increase in degree of alteration around mafic dike contacts, pinking of Plag near contacts. Joints at 30° and 45° to core axis. Opx 10-20%, Plag 40-45%, Cpx 35-45%																	
			2	2			020	54.00	57.00	3.00	tr		0.00	0.00	0.00	0.008	0.003	0.002	
			3	3			021	57.00	60.00	3.00	0.25		0.00	0.00	0.00	0.006	0.004	0.002	
			3	3			022	60.00	63.00	3.00	tr		0.00	0.00	0.00	0.007	0.003	0.002	
			2	3			023	63.00	64.78	1.78	tr		0.00	0.00	0.00	0.008	0.003	0.002	

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
54.00	64.78	<b>GABBRONORITE ( continued)</b>																
		58.49m - 60.25m - Diabase - Fine grained to medium grained, pale to medium green. Saussurite/hematitization of Plag throughout. Non magnetic ,5% pyrite specks throughout, coarser grained at center of dike. Upper contact and lower contact sharp at 30° to core axis Upper contact brecciated, breccia fragments angular, <10 cm.																
64.78	82.76	<b>GABBRONORITE</b>																
		Medium grained, dark green, relatively homogeneous, with zones of varying alteration, and Opx content. Moderate foliation throughout at 60° to 70° to core axis. Joints at 45° and 60° to core axis, few joints throughout.																
		64.78m - 69.30m - Moderately to strongly altered. bleached Plag throughout Opx brown green to green and shiny.																
		79.87m - 80.62m - Least altered zone Opx brown and relatively fresh, Cpx partially altered to actinolite, Plag brown/pink. Remainder of section has sporadic degree of alteration. Opx 10-30%, Plag 30-45% Cpx 20-45% Trace pyrite spikes throughout, occasional euhedral cubes <1.0mm																
			2	3			024	64.78	66.00	1.22	tr		0.00	0.00	0.00	0.009	0.004	0.002
			3	3			025	66.00	69.00	3.00	tr		0.00	0.00	0.00	0.010	0.003	0.002
			3	2			026	69.00	72.00	3.00	tr		0.00	0.00	0.00	0.011	0.002	0.002
			2	3			027	72.00	75.00	3.00	tr		0.00	0.00	0.00	0.008	0.003	0.001
			3	3			028	75.00	78.00	3.00	tr		0.00	0.00	0.00	0.008	0.003	0.001
			2	2			029	78.00	81.00	3.00	tr		0.00	0.00	0.00	0.009	0.004	0.002
			3	2			030	81.00	82.76	1.76	tr		0.00	0.00	0.00	0.011	0.004	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
64.78	82.76	<b>GABBRONORITE (continued)</b>  70.05m - 70.25m - 3.0 cm wide quartz vein at 25° to core axis. Thin shears at contacts 0.5 mm wide zone of pyroxenite along length of lower contact.																
82.76	95.10	<b>GABBRO TO GABBRONORITE</b>  Medium grained, dark green to brown Transition from gabbro to gabbronorite is gradational, not well defined. Foliation throughout, weak to moderate at 60° to 70° to core axis. 4 narrow diabase dikes, spaced throughout section, 4.0-6.0 cm wide, sharp contacts at 40° to 45° to core axis. all are magnetic. Fine grained, dark grey/green, one with Plag phenocrysts <0.5 cm long. 82.75m - 84.00m - Strongly altered, broken core from 82.84m - 83.46m. Quartz vein at top of section 2-4 cm wide at 30° to core axis. Bleached Plag throughout, occasional epidote alteration. 45-55% Plag, 5-35% Opx, 15-45% Cpx. Occasional trace pyrite specks. Joints at 30° and 40° to core axis. Occasional magnetic zones.																
			4	3			031	82.76	84.00	1.24	nil		0.01	0.00	0.00	0.005	0.005	0.003
			3	3			032	84.00	87.00	3.00	tr		0.00	0.00	0.00	0.009	0.004	0.002
			3	3			033	87.00	90.00	3.00	tr		0.00	0.00	0.00	0.009	0.004	0.002
			3	3			034	90.00	93.00	3.00	tr		0.00	0.00	0.00	0.010	0.004	0.002
			3	3			035	93.00	95.10	2.10	nil		0.00	0.00	0.00	0.010	0.004	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
95.10	105.65	<b>GABBRONORITE AND NORITE</b>  Alternating zones of gabbronorite and norite Relatively sharp contacts between units. Contacts at 90° to 45° to core axis. 95.10m - 97.35m and 101.01m - 102.34m and 104.47m - 105.65m Norite Relatively fresh Opx, brown pitted 45 to 50% Opx, <5% Cpx, 45-55% Plag Plag dark brown/grey alteration. Magnetic. 97.35m - 101.01m and 102.34m - 104.47m - Gabbronorite Moderately altered, bleached Plag Opx pitted and shiny, Cpx altered to fine grained actinolite. Magnetic. 10-15% Opx, 45-55% Plag, 35-40% Cpx. Joints at 45° and 30° to core axis.																	
				2	2			036	95.10	97.35	2.25	nil		0.01	0.00	0.00	0.012	0.005	0.001
				3	3			037	97.35	100.01	2.66	nil		0.00	0.00	0.00	0.009	0.004	0.002
				2	2			038	100.01	102.68	2.67	nil		0.00	0.00	0.00	0.011	0.005	0.002
			2	2			039	102.68	105.65	2.97	nil		0.01	0.00	0.00	0.010	0.004	0.002	
105.65	122.92	<b>GABBRONORITE</b>  Medium grained, dark green/grey, relatively homogeneous. trace to no sulfide, pyrite specks. Sheared and narrow diabase dikes from 106.48m - 106.85m. Shears and dikes at 60° to 40° to core axis, slightly more alteration in this zone. 122.41m - 122.92m - Less altered zone, moderately altered Opx. Opx brown and pitted, margins of grains greenish and more altered.																	
				3	3			040	105.65	108.00	2.35	nil		0.01	0.00	0.00	0.011	0.005	0.002
				3	3			041	108.00	111.00	3.00	tr		0.01	0.00	0.00	0.011	0.004	0.002
				3	3			042	111.00	114.00	3.00	tr		0.01	0.00	0.00	0.011	0.005	0.002
				3	3			043	114.00	117.00	3.00	nil		0.01	0.00	0.00	0.011	0.005	0.002
				3	3			044	117.00	120.00	3.00	nil		0.01	0.00	0.00	0.011	0.005	0.002
			3	3			045	120.00	122.92	2.92	nil		0.01	0.00	0.00	0.008	0.004	0.001	

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
105.65	122.92	<b>GABBRONORITE (continued)</b>  Most of the section is slightly magnetic, the above less altered zone is more strongly magnetic. Opx 10-30%, Plag 45-55%, Cpx 25-40% Weak foliation at 60° to 80° to core axis. occasional thin shears at 40° to core axis. Joints at 30° and 50° to core axis. Core ground by drilling at 115.55m.																
122.92	137.58	<b>GABBRONORITE TO GABBRO</b>  Medium grained, green/grey Weak to moderate foliation throughout. 125.22m - 125.68m - Sheared at 50° to core axis, more altered than surrounding rock Plag altered to epidote. Some minor biotite. Trace pyrite specks throughout, Occasional alteration around fractures, defined by bleaching of Plag and epidote. Plag often brown/pink in colour. 124.51m - Pink to white, quartz feldspar vein at 40° to core axis. Non magnetic throughout Transition from gabbronorite to gabbro, gradational 133.69m and 135.10m - Two fine grained dark grey/green, mafic dikes 2.0 cm and 3.5 cm wide at 50° to core axis. Sharp contacts, both magnetic.	2	3			046	122.92	124.73	1.81	tr		0.01	0.00	0.00	0.010	0.005	0.002
			3	3			047	124.73	126.00	1.27	tr		0.01	0.00	0.00	0.008	0.004	0.002
			3	3			048	126.00	129.00	3.00	tr		0.01	0.00	0.00	0.008	0.004	0.002
			2	3			049	129.00	132.00	3.00	tr		0.01	0.00	0.00	0.008	0.004	0.002
			3	3			050	132.00	135.00	3.00	tr		0.01	0.00	0.00	0.009	0.005	0.002
			3	3			051	135.00	137.58	2.58	tr		0.01	0.00	0.00	0.007	0.004	0.002











# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
194.66	201.10		<b>GABBRONORITE (continued)</b>  Sulfide interstitial. Opx 10-20%, Plag 45-55%, Cpx 25-35% Occasional epidote. Plag dark brown/grey, gives rock a very dark appearance. 200.46m - 200.69m - Diabase dike, fine grained, dark green. Sharp contact, upper contact at 90° to core axis, lower contact at 70° to core axis. Non magnetic.															
201.10	211.67	<b>VARITEXTURED GABBRONORITE</b>  Medium grained to coarse grained, mottled dark green, grey/white. Trace pyrite specks throughout. Occasional epidote alteration of Plag. Gradational contacts between medium grained and coarse grained gabbronorite. Some melanogabbronorite zones between 201.10m and 203.36m. Opx 10-15%, Cpx 30-80%, Plag 10-60% Some Cpx are dark green at core, with a very narrow white alteration rim around the crystal margin. Rare brownish Opx, most altered to tremolite. Quartz-feldspar veins at 201.90m and 202.50m, 45° to core axis, sharp contacts, biotitic, up to 40% biotite.	2	3			076	201.10	204.00	2.90	tr		0.25	0.04	0.01	0.014	0.010	0.003
			2	3			077	204.00	207.00	3.00	tr		0.09	0.04	0.00	0.005	0.006	0.002
			2	3			078	207.00	210.00	3.00	tr		0.68	0.13	0.02	0.008	0.007	0.002
			2	3			079	210.00	211.67	1.67	tr		0.87	0.07	0.03	0.012	0.012	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
228.54	236.67	<b>VARITEXTURED GABBRONORITE</b> (continued)																
		235.47m - 235.65m - Fault - at 65° to core axis, core broken along joints parallel to center. Dark green/black, very fine grained to medium grained, sheared. Increased alteration in vicinity of fault, chlorite (?) and actinolite. Minor carbonate.																
236.67	249.11	<b>VARITEXTURED NORITE TO GABBRONORITE</b>																
		Fine grained/medium grained dark brown/green and white/grey, mottled. Opx 10-45%, Plag 45-60%, Cpx <5 - 35%																
		236.67m - 240.50m - Coarse grained norite - Opx is brownish, altered along margins and along internal cleavage planes, leaving remnants of fresh Opx.																
		238.03m - 239.37m - Fine grained to medium grained gabbro-norite Relatively fresh Opx, brownish. Distinct contacts with norite, upper contact at 35° to core axis, and lower contact at 70° to core axis. Likely a brecciated contact, Opx crystals in norite are broken off at the contact. Magnetic, unlike the norite.																
			2	2			090	236.67	238.18	1.82	nil		0.16	0.00	0.00	0.003	0.006	0.001
			2	2			091	238.18	240.00	3.00	tr		6.32	0.30	0.04	0.006	0.006	0.001
			3	3			092	240.00	243.00	3.00	nil		1.95	0.14	0.02	0.007	0.008	0.001
			2	2			093	243.00	246.00	3.11	tr		0.69	0.08	0.02	0.006	0.008	0.001
			3	2			094	246.00	249.11	0.00	tr		1.60	0.01	0.16	0.010	0.016	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
236.67	249.11		<b>VARITEXTURED NORITE TO GABBRONORITE (continued)</b>  240.50m - 249.11m - Gabbronorite with occasional quartz/feldspar dikes -  Fine grained/medium grained to coarse grained, transition between grain sizes is gradational. Trace pyrite is interstitial Medium grained to coarse grained biotite in quartz/feldspar dikes Opx and Cpx is more strongly altered, no fresh crystals. Plag altered to epidote, saussurite. Joints at 45° and 65° to core axis, occasionally carbonate filled.															
249.11	258.11	<b>GABBRONORITE BRECCIA</b>  Fine grained to medium grained, dark grey/black matrix with coarse grained, mottled dark green and white/green clasts. Matrix is typically magnetic, and contains most of the sulfide. Sharp contacts between matrix and clasts, contacts from 90° to subparallel to core axis. Joints at 30°, 60°, 45°, occasionally carbonate filled, smooth Upper part of section is more altered, Opx altered to tremolite, Plag epidotized.	2	3			095	249.11	252.00	2.89	0.25	1:1	1.53	0.17	0.08	0.039	0.035	0.003
			2	2			096	252.00	255.00	3.00	tr	nil	0.24	0.05	0.05	0.016	0.013	0.002
			2	2			097	255.00	258.11	3.11	tr	0:1	0.83	0.09	0.13	0.022	0.018	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
249.11	258.11		<p><b>GABBRONORITE BRECCIA (continued)</b></p> <p>250.81m - 251.50m - Sheared at 30° to core axis. decrease in grain size, fine grained. Highest amount of sulfide in this section, 0.5% pyrite specks. Opx 15-45%, Plag 45-60%, Cpx 10-40% Opx near bottom of section, only altered along crystal margins.</p>															
258.11	271.54	<p><b>VARITEXTURED GABBRONORITE TO LEUCOGABBRONORITE.</b></p> <p>Medium grained to coarse grained, dark green to light green, most of section is coarse grained. Non magnetic to slightly magnetic. Alteration varies throughout, Opx is occasionally brown with altered crystal margins, and Cpx is occasionally dark black/green. Plag is grey/white to light green, epidote alteration is sporadic. Opx 5-49%, Cpx 10-35%, Plag 45-80%</p> <p>265.30m - 265.76m - Sheared/faulted gabbro Sheared at 80° to subparallel to core axis. Medium grained gabbro has been juxtaposed in contact with coarse grained gabbro. Plag is white to dark green.</p>	2	2			098	258.11	261.00	2.89	nil		0.23	0.05	0.04	0.009	0.009	0.001
			3	3			099	261.00	264.00	3.00	nil		0.32	0.04	0.02	0.005	0.009	0.001
			2	2			100	264.00	267.00	3.00	nil		1.12	0.11	0.04	0.013	0.014	0.002
			2	3			101	267.00	270.00	3.00	nil		0.40	0.04	0.02	0.006	0.007	0.001
			2	3			102	270.00	271.54	1.54	nil		0.15	0.04	0.01	0.003	0.006	0.001



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
258.11	271.54		<p><b>VARITEXTURED GABBRONORITE TO LEUCOGABBRONORITE.</b> (continued)</p> <p>268.65m - 269.78m - Shear at 30° to core axis, 1.5cm wide, fine grained to medium grained. Narrow quartz vein parallel to shear. Very fine grained biotite throughout, brown colour. Contacts sharp.</p>															
271.54	280.77	<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Fine grained to coarse grained, dark green to white/grey May be a breccia, some very sharp contacts between some units. Trace pyrite specks throughout, but 2-3 specks/blebs of chalcopyrite, all sulfide interstitial. Opx and Cpx are relatively fresh, occasionally more altered grains. Plag white to brown/grey, but often has fine grained green chlorite/amphiboles.</p> <p>276.95m - 278.00m - Melanogabbrogonorite -fine grained upper contact at 45° to core axis. lower contact marked by a shear and quartz vein at 35° to core axis. Biotite in quartz vein Melanogabbrogonorite is magnetic Development of coarse grained, black amphibole, chalcopyrite specks within amphiboles.</p>																
			2	2			103	271.54	273.00	1.46	tr		0.12	0.02	0.04	0.013	0.009	0.001
			2	2			104	273.00	276.00	3.00	tr		0.20	0.03	0.04	0.013	0.007	0.001
			2	2			105	276.00	279.00	3.00	tr		0.29	0.02	0.01	0.009	0.010	0.002
			2	2			106	279.00	280.77	1.77	tr	1:0	0.47	0.07	0.04	0.010	0.009	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE N. Roby HOLE # 00-002

LOGGED BY: S. Burgess/J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
287.65	293.70	<b>ALTERED GABBRO TO GABBRONORITE</b>  Dark green/grey, pervasively altered Pyrite specks throughout, trace pyrrhotite. 292.42m - 293.70m - Fault zone, strongly altered, abundant hematite. Fault at 293.36m - at 45° to core axis, carbonate filled. 8.0 cm zone of very fine grained sericite (?) and epidote. Some breccia fragments above this, angular, <2.0 cm.																
			3	3			110	287.65	290.43	2.78	tr	0:1	0.22	0.01	0.02	0.010	0.011	0.002
			3	3			111	290.43	292.42	1.99	0.25		0.63	0.09	0.12	0.054	0.023	0.006
			4	4			112	292.42	293.70	1.28	nil		0.09	0.02	0.03	0.014	0.014	0.002
293.70	309.00	<b>VARITEXTURED GABBRO TO GABBRONORITE</b>  Medium grained to coarse grained, dark green to white mottled. Trace pyrite specks, rare chalcopyrite/pyrrhotite blebs. Transition from gabbro to gabbronorite gradational. Cpx is 15-50%, Opx <5-30%, Plag 40-70% Some gabbro leucocratic. 296.75m - 297.43m and 193.06m - 298.14m - Diabase Very fine grained, dark green, homogeneous. Sharp contacts at 30° to 90° to core axis, irregular. Trace pyrite specks within, along joint planes. Magnetic. 301.05m - 301.46m - Breccia, structural, healed. Breccia fragments subangular, up to 3.0 cm Upper contact and lower contact at 85°, sharp.																
			3	3			113	293.70	295.13	1.43	nil		0.12	0.02	0.02	0.019	0.012	0.003
			3	3			114	295.13	297.00	1.87	nil		0.15	0.01	0.01	0.005	0.008	0.002
			3	3			115	297.00	300.00	3.00	tr		1.20	0.14	0.04	0.013	0.015	0.002
			3	3			116	300.00	303.00	3.00	tr		1.19	0.14	0.03	0.012	0.020	0.002
			2	3			117	303.00	306.00	3.00	0.25		0.67	0.09	0.03	0.016	0.013	0.002
			3	3			118	306.00	309.00	3.00	tr		0.39	0.06	0.06	0.040	0.032	0.003



















2.23510

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>			Maxibor	<b>DRILLING COMPANY:</b>			CHIBOUGAMAU				
<b>HOLE NO.:</b>	00-003	<b>LENGTH: (m)</b>	351.0m	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b>	Core stored at Lac des Iles mine site		
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b>	32377.01	<b>EASTING:</b>	32132.63										
<b>SECTION:</b>	700NR	<b>ZONE:</b>	N.Roby	<b>ELEVATION:</b>	507.69							<b>DATE LOGGED:</b>	June 11 - 14, 2000		
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b>	307/-62.5	<b>SURVEYED:</b>	307.00/-62.907							<b>LOGGED:</b>	J. Rickard		
<b>HOLE STARTED:</b>	08-Jun-00	<b>HOLE FINISHED:</b>	11-Jun-00	<b>MAG DECLINATION:</b>	2.1° w							<b>SIGNATURE:</b>	<i>[Signature]</i>		
											K. Nelson	<b>SHEET</b>	1	<b>OF</b>	29

METERAGE		DESCRIPTION	Rock Code	Bx Matrix				SAMPLES					ASSAYS							
FROM	TO			Alt <sup>n</sup>	Comp	Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
				Plag	Pxr															
0.00	3.03	<b>CASING/OVERBURDEN</b>																		
3.03	3.24	<b>DIABASE DIKE</b> Ground core, smooth, centered button on core ends. Very fine grained to aphanatic, dark green/black diabase dike. Contacts destroyed, no sulfides.				2	2		001	3.03	3.24	0.21	nil		0.06	0.01	0.01	0.015	0.015	0.002
3.24	6.15	<b>MELANOGABBROTORITE</b> Medium grained, altered melanogabbrotonite, equigranular. Pyroxene altered to fine grained actinolite. 45-55% Opx; 10-15% Cpx; 25-35% Plag. Plag dark brown/colourless, occasionally epidote altered. Opx pitted, dark brown altered, Cpx fine grained, dark green.				3	3		002	3.24	6.15	2.91	nil		0.00	0.00	0.00	0.008	0.005	0.002
6.15	6.78	<b>DIABASE DIKE</b> Fine grained, dark green, diabase dike, salt and pepper colouring. Weak fabric at 80° to core axis. Contacts sharp at 75° to core axis. Joints at 50° to core axis, carbonate filled. Possible chlorite alteration throughout.							003	6.15	6.78	0.63	nil		0.03	0.02	0.00	0.016	0.006	0.002



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# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
6.78	11.57	<b>GABBRONORITE/MELANOGABBRONORITE</b>  Medium grained gabbronorite to melanogabbronorite. Trace pyrite specks. Occasional zones of Plag altered to epidote, up to 10 to 15cm wide. Plag cumulus, pyroxene intercumulus. Grades into melanogabbronorite toward bottom. Non-magnetic. Joints at 60° to core axis.	3	2			004	6.78	9.67	2.89	nil		0.00	0.00	0.00	0.008	0.003	0.002
			2	2			005	9.67	11.57	1.90	tr		0.00	0.00	0.00	0.008	0.004	0.002
11.57	14.96	<b>GABBRONORITE</b>  Medium grained gabbronorite, magnetic, likely magnetite bearing. Occasional zone of bleached Plag and epidote, especially associated with fractures/joints. 20-40% Opx; 30-50% Plag; 20-25% Cpx. Plag occasional brown coloured. Joints at 30°, epidote alteration, carbonate filled.	2	2			006	11.57	14.09	2.52	nil		0.00	0.00	0.00	0.008	0.004	0.002
			2	2			007	14.09	14.96	0.87	nil		0.00	0.00	0.00	0.013	0.004	0.002
14.96	15.14	<b>INTERMEDIATE DIKE</b>  Quartz-feldspathic dike, medium grained to coarse grained. Green amphibole filled vein cross cuts it parallel to strike. Contacts at 40° to core axis, sharp. Moderate serpentine and epidote alteration, minor hematite staining. Occasional granophyric texture.	2				008	14.96	15.14	0.18	nil		0.00	0.00	0.00	0.009	0.004	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
36.29	36.51	<b>FAULT ZONE</b> Remnants of a carbonate vein, likely a fault zone. Chalky, powdered carbonate. Contacts at 30° to core axis, 2.5cm wide.	4				018	36.29	36.51	0.22	nil		0.01	0.00	0.00	0.007	0.006	0.001
36.51	37.73	<b>MELANOGABBRONORITE</b> Medium grained melanogabbronorite. Very weak foliation at 60° to core axis. 10-15% Opx; 30-40% Cpx; 30-35% Plag. Joints at 45° to core axis, chlorite, slickensides.	2	3			019	36.51	37.73	1.22	nil		0.01	0.00	0.00	0.011	0.004	0.002
37.73	38.60	<b>MELANOGABBRONORITE</b> Medium grained, dark green/brown, equigranular melanogabbronorite. Gradational, inferred contacts. Magnetic, probably magnetite, no visible sulfides. Opx dark brown to green, some with fresher cores.	2	2			020	37.73	38.60	0.87	nil		0.00	0.00	0.00	0.010	0.004	0.002
38.60	41.76	<b>GABBRONORITE</b> Medium grained, gabbronorite, dark green. Plag altered to epidote sporadically throughout. Two narrow diabase dikes at 40.75m and 40.84m, 2.0cm and 3.0cm wide, sharp contacts, very fine grained black/green. Pervasive epidote alteration at the upper contact of one dike. One 3.0cm long zone of epidote alteration, pitted, weathered out. Very weak foliation at 45° to core axis.	3				021	38.60	40.63	2.03	nil		0.02	0.00	0.00	0.007	0.004	0.002
			3				022	40.63	41.76	1.13	nil		0.01	0.00	0.00	0.003	0.004	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
41.76	41.87		<b>DIABASE DIKE</b> Very fine grained, dark green/grey diabase dike. Sharp contacts at 75° to core axis. Magnetic. Homogeneous, equigranular.					023	41.76	41.87	0.11	nil		0.00	0.00	0.00	0.021	0.004
41.87	43.61	<b>GABBRONORITE</b> Medium grained, equigranular gabbonorite. Very weak fabric at 70° to core axis. Occasional epidote alteration. Joints at 40° to core axis, carbonate, chlorite within.	2	3			024	41.87	43.61	1.74	nil		0.00	0.00	0.00	0.012	0.003	0.002
43.61	43.75	<b>DIABASE DIKE</b> Very fine grained, non-magnetic, dark green diabase dike. Very sharp contacts at 30° to core axis. Green colour likely due to alteration. No visible sulfides. 3.0cm long, subangular, quartz inclusions within.					025	43.61	43.75	0.14	nil		0.00	0.00	0.00	0.012	0.004	0.002
43.75	45.98	<b>GABBRONORITE</b> Medium grained to coarse grained varitextured gabbonorite. Typically medium grained except for a 15.0cm long coarse grained pod of pyroxene and Plag. Plag altered to sericite. 0.5% pyrite found locally in coarse grained pod, no sulfide in rest of section.	2	3			026	43.75	45.98	2.23	tr		0.00	0.00	0.00	0.015	0.004	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
45.98	46.28		<b>DIABASE DIKE</b> Fine grained diabase dike, homogeneous. Contacts sharp at 45° to core axis. Heavily jointed at 20° to 40° to core axis, carbonate infilling.					027	45.98	46.28	0.30	nil		0.00	0.00	0.00	0.007	0.009
46.28	48.76	<b>GABBRONORITE</b> Medium grained, altered gabbronorite. Variable amounts of Opx throughout. Opx 5-25%; 10-30% Cpx; 35-45% Plag. Trace pyrite specks. Pyroxene altered to actinolite, dark green. Plag yellow/green throughout, epidote altered. Joints at 20° and 30° to core axis. Broken core from 47.80m - 47.90m. Sheared throughout at ~45° to core axis.	3	3			028	46.28	48.76	2.48	tr		0.00	0.00	0.00	0.015	0.004	0.002
48.76	49.00	<b>DIABASE DIKE</b> Very fine grained, dark green diabase dike. Strongly altered, chloritic, broken core through most of section. Numerous fractures throughout. Sharp contacts at 45°-50° to core axis.					029	48.76	49.00	0.24	tr		0.00	0.00	0.00	0.003	0.005	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
49.00	61.94		<b>GABBRONORITE/MELANOGABBRONORITE</b> Medium grained, dark green gabbronorite to melanogabbronorite. Moderate shear fabric throughout at 45° to 70° to core axis. Stronger shear and alteration between 53.23m and 53.69m, fine grained epidote and sericite? alteration, many very fine grained anastomizing veinlets of epidote/sericite? throughout zone, possible sausseritization of feldspar. Trace pyrite specks throughout section. More Opx-rich toward bottom of section. Joints at 20° to 45° to core axis, carbonate filled. Narrow 2.0cm wide diabase dike at 55.30m, sharp contacts at 20° to core axis.	3	3			030	49.00	51.73	2.73	tr		0.01	0.00	0.00	0.013	0.004
			3	3			031	51.73	53.23	1.50	tr		0.01	0.00	0.00	0.019	0.004	0.002
			3	4			032	53.23	53.69	0.46	tr		0.00	0.00	0.00	0.003	0.004	0.001
			2	3			033	53.69	56.57	2.88	nil		0.01	0.00	0.00	0.011	0.004	0.002
			2	3			034	56.57	59.49	2.92	tr		0.01	0.00	0.00	0.014	0.004	0.002
			3	3			035	59.49	61.94	2.45	tr		0.01	0.00	0.00	0.008	0.004	0.002
61.94	62.32	<b>DIABASE DIKE</b> Fine grained, dark green, 2.5cm wide diabase dike. Sharp contacts at 20° to core axis. Quartz/feldspar veins along both contact margins and cut into the dike. Biotite alteration with veins. 0.1% pyrite specks in dike.					036	61.94	62.32	0.38	0.10		0.00	0.00	0.00	0.024	0.003	0.003
62.32	67.01	<b>GABBRONORITE</b> Medium grained, equigranular gabbronorite. Pyroxene altered to actinolite. Trace pyrite specks throughout, also found in thin shear at 45° to core axis. Difficult to distinguish Opx, but appears to be dominant pyroxene. Opx 35-45%; 10-20% Cpx; 35-40% Plag. Shear from 65.31m - 65.35m, at 45° to core axis.	2	3			037	62.32	64.75	2.43	tr		0.01	0.00	0.00	0.007	0.004	0.002
			2	3			038	64.75	67.01	2.26	tr		0.01	0.00	0.00	0.007	0.004	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

LOGGED BY: J. Rickard/K. Nelson

SIGNATURE

PROPERTY LDI ZONE

Roby

HOLE #

00-003

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
67.01	67.49		<b>DIABASE DIKE</b> Fine grained, dark green diabase dike with 1% 1-2mm feldspar phenocrysts. Porphyritic texture. Two separate dikes in gabbronorite as above. Sharp contacts at 70° to 20° to core axis. Minor epidote alteration within and around the dikes. Trace pyrite specks.					039	67.01	67.49	0.48	tr		0.01	0.00	0.00	0.007	0.003
67.49	69.00	<b>MELANOGABBRONORITE</b> Medium grained, altered melanogabbronorite. 30-35% Plag; 35-45% Opx; 10-15% Cpx. Epidote alteration around fractures that cross cut core at 20°-40° to core axis. Trace pyrite specks. Joints at 45° to core axis.	2	3			040	67.49	69.00	1.51	tr		0.01	0.00	0.00	0.008	0.004	0.002
69.00	71.35	<b>GABBRONORITE</b> Medium grained, strongly altered gabbronorite, pink/white to green. Upper part of zone is pervasively altered, Plag is chalky white and epidote is spread sporadically throughout. Alteration decreases toward the bottom of the section. Chalky white, thin shears are seen at 50° to core axis throughout the top of the section. Epidote alteration more distinct in less altered section. Difficult to distinguish in less altered sections. Alteration dike at 70.10m, 1.0-2.0cm wide, 20° to core axis, sharp contacts. Joints at 45° to core axis, carbonate filled.	4	4			041	69.00	71.35	2.35	tr		0.01	0.00	0.00	0.009	0.005	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxt	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
86.74	91.81		<b>GABBRONORITE</b> Medium grained, equigranular gabbro-norite to melanogabbro-norite. Trace pyrite specks throughout. Pyroxene altered to fine grained actinolite. Few joints at 45° to core axis.	2	3			049	86.74	89.36	2.62	tr		0.02	0.00	0.00	0.007	0.005
			2	3			050	89.36	91.81	2.45	tr		0.02	0.00	0.00	0.008	0.005	0.002
91.81	91.95	<b>SHEAR</b> Shear at 20° to core axis, centre of shear is a 2.0cm wide quartz vein. Epidote and hematite alteration at margins of shear. Massive brown biotite with the quartz vein, parallel to shear. Carbonate fill in joint planes parallel to shear.					051	91.81	91.95	0.14	nil		0.01	0.00	0.01	0.014	0.004	0.002
91.95	97.37	<b>GABBRONORITE</b> Medium grained, altered gabbro-norite. Small leucocratic pod in gabbro-norite between 96.49m and 96.59m, 80% Plag, 27% pyroxene, 2-3% epidote. Alteration of Plag to epidote, diffuse contact margins. Occasional joints of 30° and 45° to core axis.	2	3			052	91.95	94.61	2.66	tr		0.02	0.00	0.00	0.008	0.005	0.002
			2	3			053	94.61	97.37	2.76	tr		0.02	0.00	0.00	0.008	0.005	0.002
97.37	97.57	<b>FELSIC DIKE</b> Medium grained, equigranular, speckled white/brown, quartz/feldspar dike. May be a tonalitic melt body. Sharp contacts at 45° to core axis, 2.0cm wide. Development of medium grained biotite and epidote. Epidote within the dike and the host gabbro-norite.	2				054	97.37	97.57	0.20	nil		0.01	0.00	0.00	0.007	0.004	0.002























# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
193.60	196.22		<p><b>MICROGABBRO DIKE</b></p> <p>Black, fine grained to very fine grained. Plag 30-50% but generally around the 40% amount (uncertain in the very fine grained sections). Cpx 50-70%. Pyroxene dominates the colour of the rock and the Plag is dark grey as well. Non-magnetic. Weak to moderate sausseritization with the occasional orange-pink potassic alteration. 1% pyrite mainly as small blebs &lt;1mm but up to 5mm. Sharp bottom contact at 25° to core axis.</p>	1	2			098	193.60	196.22	2.62	1.00		0.00	0.00	0.00	0.011	0.005
196.22	198.62	<p><b>ALTERED/SHEARED POPCORN GABBRO</b></p> <p>Porphyritic to very coarse grained. Yellow-green/black. Plag 40-60%; Cpx 40-60%. Non-magnetic. Moderate sausserite alteration. Weak actinolite (much of pyroxene appears dark grey to black) to locally moderate. Local dark orange-pink potassic alteration to Plag. Core is generally strongly altered - i.e. indistinct grains. Trace pyrite, possible trace pyrrhotite. Occasional, black hairline fractures, randomly oriented with some strong shearing.</p> <p>197.18m - 197.67m - Main sheared and altered zone. Upper contact at 30° to core axis, lower contact at 40° to core axis but crosses core in opposite direction. Strong sausserite in this section. Strong potassic, orange staining is in first 20cm. Strongly bleached.</p>	3	3			099	196.22	198.62	2.40	tr		2.28	0.10	0.01	0.002	0.010	0.002









# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
248.72	297.00		<p><b>MEDIUM GRAINED GABBRONORITE</b></p> <p>Medium grained. Colour varies from a brownish or dark greyish green to a lighter greyish green depending on degree of alteration. Plag is 40-50%; Opx 10-40%; Cpx 20-40%. Actinolite alteration is generally moderate (pervasive dark green colour). Tremolite alteration is weak to moderate. Plag alteration is generally weak with patchy moderate pink potassic alteration, otherwise it is white. &lt;5% felsic dikelets, a few mm to &lt;2cm thick, generally 25-50° to core axis, often with brown (biotite) alteration along margins, sharp contacts. Sulfide content ranges from trace to 0.75%. Pyrite is disseminated to small blebs. Pyrrhotite and chalcopyrite tend to be small interstitial blebs but range up to 8mm across.</p> <p>248.72m - 265.18m - Core is the darker brownish-green colour due to lesser altered Opx (they are mostly the brownish, pitted type). It also has a fairly consistent, equigranular look to it. Patchy, strong potassic alteration.</p> <p>To 253.15m the core is very brown, with strong pink potassic alteration consistent throughout.</p> <p>This section is well mineralized with 0.25 to 0.75% sulfides.</p> <p>265.18m - 283.16m - This sub-section is more varitextured. Has long sections of the medium grained gabbronorite, but is broken up by 25-30% coarse grained. Core is the lighter greyish-green due to Opx as the translucent tremolite instead of the brownish type in the above section. Patchy, strong dark orange-pink (potassic) staining to felsic dikelets. Less mineralized than above section.</p>	3	2			119	248.72	250.90	2.18	tr	1:4	0.39	0.13	0.33	0.052	0.041
						120	250.90	253.15	2.25	tr	1:4	0.16	0.08	0.25	0.041	0.031	0.002	
						121	253.15	255.00	1.85	0.25	1:3	0.14	0.07	0.23	0.083	0.052	0.002	
						122	255.00	258.00	3.00	0.25	1:3	0.10	0.04	0.14	0.125	0.078	0.003	
						123	258.00	261.00	3.00	0.50	1:4	0.04	0.02	0.08	0.128	0.072	0.004	
						124	261.00	264.00	3.00	0.50	1:2	0.11	0.10	0.32	0.125	0.079	0.004	
						125	264.00	265.18	1.18	0.75	1:3	0.52	0.18	0.37	0.203	0.170	0.004	
						126	265.18	267.00	1.82	tr		0.26	0.10	0.16	0.076	0.064	0.003	
						127	267.00	270.00	3.00	tr	1:1	0.40	0.13	0.11	0.034	0.029	0.003	
						128	270.00	273.00	3.00	tr	1:1	0.23	0.08	0.04	0.015	0.014	0.002	
						129	273.00	276.00	3.00	tr	1:1	0.30	0.14	0.10	0.018	0.016	0.002	
						130	276.00	279.00	3.00	tr	1:3	0.25	0.07	0.02	0.033	0.027	0.002	
						131	279.00	282.00	3.00	tr		0.07	0.03	0.01	0.010	0.009	0.001	
						132	282.00	283.16	1.16	tr		0.21	0.06	0.02	0.022	0.023	0.002	
						133	283.16	285.00	1.84	tr		0.18	0.06	0.03	0.026	0.018	0.002	
						134	285.00	288.00	3.00	tr		0.06	0.03	0.02	0.009	0.008	0.001	
						135	288.00	291.00	3.00	tr		0.06	0.03	0.02	0.008	0.008	0.002	
						136	291.00	294.00	3.00	tr		0.08	0.03	0.01	0.010	0.010	0.002	
						137	294.00	297.00	3.00	tr		0.06	0.02	0.01	0.010	0.007	0.001	







# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-003

LOGGED BY: J. Rickard/K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
334.08	342.02	<b>HETEROLITHIC MELANOGABBRO BRECCIA (continued)</b>																
		339.50m - 340.24m - Felsic dike splay (largest in this unit). Breccia with wall rock for first 15cm. Well-foliated at 60° to core axis, and laminated with dark green-black speckly amphibole. Sharp bottom contact at 70° to core axis.																
342.02	351.00	<b>FELSIC DIKE (TONALITE ?)</b>																
	EOH	Well foliated. Varies from green and white foliated to light to dark pink and green foliated with some quartz and amphibole. ~5% is fine grained. Foliation 40-50° to core axis. 50% Plag; 25% quartz; 25% amphibole. Strongly altered - moderate to patchy potassic alteration of Plag, moderate to strong patchy sausserite alteration. Trace (just a few specks) of pyrite. Unit has a very gneissic look to it. Plag crystals are all rounded anhedral.																
			4				155	342.02	345.00	2.98	tr	0.00	0.00	0.00	0.003	0.001	0.001	
			4				156	345.00	348.00	3.00	tr	0.00	0.00	0.00	0.003	0.001	0.001	
			4				157	348.00	351.00	3.00		0.00	0.00	0.00	0.004	0.001	0.001	



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor				<b>DRILLING COMPANY:</b> CHIBOUGAMAU
<b>HOLE NO.:</b> 00-005	<b>LENGTH: (m)</b> 237m	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b> Core stored at Lac des Iles mine site
<b>LOCATION - MINE GRID</b>	<b>NORTHING:</b> 32356.09	<b>EASTING:</b> 32160.19				1st hole, phase 1C
<b>SECTION:</b> 700NR	<b>ZONE:</b> North Roby	<b>ELEVATION:</b> 507.87				<b>DATE LOGGED:</b> 5-Jun--7-Jun-00
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b> PLANNED: 307°/-62.5°	<b>SURVEYED:</b> 307.320/-62.574					<b>LOGGED:</b> S. Burgess
<b>HOLE STARTED:</b> 31-May-00	<b>HOLE FINISHED:</b> 2-Jun-00	<b>MAG DECLINATION:</b> 2.1° w				<b>SIGNATURE:</b> <i>[Signature]</i>
						<b>SHEET 1 OF 9</b>

METERAGE		DESCRIPTION	Rock Code	SAMPLES						ASSAYS								
FROM	TO			Alt <sup>n</sup>	Bx Matrix													
			Plag	Pxr	Comp	Prop <sup>t</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
0.00	4.14	<b>OVERBURDEN</b>																
4.14	37.42	<b>GABBRONORITE + GABBRO</b>  Combination of 65% gabbronorite, 35% gabbro; gabbro decreases with depth Medium grained Dull grey green to white/black, Plag white to cream to light yellow, black hornblende, Opx Weak to moderate alteration, gabbronorite appears less altered than gabbro Moderate actinolite, local weak tremolite (rare moderate to strong Opx/Cpx --> tremolite) Occasional hornblende, epidote, weak to locally moderate/strong saussuritization, very patchy K-spar (weak to moderate) Local bleached sections (10-50cm); occasional with clay minerals Occasional coarse epidote crystal aggregates (to 2cm) In rare circumstances, core rusty around epidote crystals, veinlets Plag 45-55%, Cpx 25-45%, Opx 5-25%, 0-4% magnetite																
			2	2			001	4.14	6.00	1.86	nil		0.04	0.00	0.00	0.010	0.006	0.002
			3	2			002	6.00	9.00	3.00	nil		0.05	0.01	0.00	0.010	0.007	0.002
			3	2			003	9.00	12.00	3.00	nil		0.02	0.01	0.00	0.010	0.007	0.002
			3	3			004	12.00	15.00	3.00	nil		0.01	0.00	0.00	0.017	0.003	0.001
			3	2			005	15.00	18.00	3.00	nil		0.01	0.00	0.00	0.010	0.003	0.002

20  
25  
25  
1-0





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-005

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
4.14	37.42	<b>GABBRONORITE + GABBRO (continued)</b>																
		36.81 - 37.22m Very fine grained microgabbro dike Sharp, 40° contacts, black-dark green, weak, faint bands Colour lightens (pales) with depth																
		37.22 - 37.42m Quartz vein, barren, 40° contacts																
		40° contact, Quartz vein																
37.42	84.84	<b>MELANOGABBRONORITE + GABBRONORITE</b>																
		Mix of approx. 2/3 melanogabbro, 1/3 gabbro Bands of 3m melanogabbro, 1-3m bands of gabbro alternating dark green/brown and cream/black Medium grained, local foliation at 45-50° to core axis, relatively massive Plag 20-55%, Cpx 20-55%, Opx 5-30%, magnetite 0-5%, patchy Melanogabbro mostly weakly magnetic; occasionally weak and occasionally strong Gabbro usually non-magnetic Still rare 2-3cm microgabbro dikes at 45-50° - sharp contacts, no chills Trace mineralization at best Weak to moderate saussurization, K-spar, actinolite, rare tremolite, occasional epidote, chlorite, calcite in shears...																
			3	2			013	37.42	40.00	2.58	nil		0.00	0.00	0.00	0.008	0.004	0.002
			2	3			014	40.00	42.00	2.00	nil		0.00	0.00	0.00	0.008	0.004	0.002
			3	3			015	42.00	45.00	3.00	nil		0.01	0.00	0.00	0.009	0.004	0.002
			3	3			016	45.00	48.00	3.00	nil		0.01	0.00	0.00	0.009	0.004	0.002
			2	3			017	48.00	51.00	3.00	nil		0.00	0.00	0.00	0.009	0.004	0.002
			3	2			018	51.00	54.00	3.00	nil		0.01	0.00	0.00	0.008	0.004	0.002
			3	3			019	54.00	57.00	3.00	nil		0.00	0.00	0.00	0.009	0.004	0.002
			3	2			020	57.00	60.00	3.00	nil		0.01	0.00	0.01	0.009	0.005	0.002
			2	2			021	60.00	63.00	3.00	nil		0.00	0.00	0.01	0.016	0.004	0.002
			2	2			022	63.00	66.00	3.00	nil		0.00	0.00	0.00	0.010	0.004	0.002
			2	2			023	66.00	69.00	3.00	nil		0.01	0.00	0.00	0.010	0.004	0.002
			2	2			024	69.00	72.00	3.00	nil		0.01	0.00	0.00	0.011	0.004	0.002
			2	2			025	72.00	75.00	3.00	nil		0.01	0.00	0.00	0.010	0.004	0.002
			2	2			026	75.00	78.00	3.00	nil		0.01	0.00	0.00	0.011	0.005	0.002
			2	2			027	78.00	81.00	3.00	nil		0.01	0.00	0.00	0.013	0.004	0.002
			2	2			028	81.00	82.77	1.77	nil		0.01	0.00	0.00	0.011	0.005	0.002
			2	2			029	82.77	84.84	2.07	nil		0.01	0.00	0.00	0.011	0.005	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-005

LOGGED BY: **S. Burgess** SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
37.42	84.84		<p><b>MELANOGABBRONORITE + GABBRONORITE</b></p> <p>69.00 - 73.00m Strong foliation, shearing (ductile at 0-30°)                      81.00 - 81.05m Quartz-epidote vein, &gt;75° contacts, chlorite along contacts</p> <p style="text-align: right;">Gradational contact</p>															
84.84	122.91	<p><b>GABBRO</b></p> <p>Medium grained                      Dull grey green, locally darker                      Patchy Opx (to 15%, over 25cm) in lenses and magnetite                      Weakly to moderately magnetic                      Plag 40-55%, Cpx 45-60%, Opx 0-15% (average &lt;&lt;5%)                      magnetite trace to 5%                      Weak to moderate saussuritization, K-spar alteration, rare hematite along shears; patchy, moderate epidote - mostly in shears...                      Moderate uralitization, rare serpentine on slicks                      Occasional actinolite, rare tremolite - silver, platy when present - ie. 104.50 - 106.00m                      Unit more broken up than others seen in hole; more dikes, shears...                      Foliation in top 5-10m of unit, moderate, at 45° becomes very weak and angle to core axis increases with depth</p>	2	2			030	84.84	87.00	2.16	tr		0.01	0.00	0.00	0.011	0.004	0.002
			2	2			031	87.00	90.00	3.00	tr		0.01	0.00	0.00	0.009	0.004	0.001
			2	2			032	90.00	93.00	3.00	tr		0.01	0.00	0.00	0.010	0.005	0.002
			2	2			033	93.00	96.00	3.00	nil		0.01	0.00	0.00	0.009	0.004	0.002
			2	2			034	96.00	99.00	3.00	nil		0.01	0.00	0.00	0.009	0.005	0.002
			3	3			035	99.00	102.00	3.00	tr		0.01	0.00	0.00	0.009	0.005	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-005

LOGGED BY: S. Burgess SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
122.91	138.00	<b>GABBRONORITE + GABBRO (continued)</b>																
		132.33 - 135.25m Alteration zone around microgabbro dike, moderate to strong saussuritization, hematite alteration, local bleaching, both in surrounding gabbro and in dike Dike is brownish grey, bleached from top (133.12m) to 133.43m																
		Dike 133.12 - 134.53m - 30° bottom contact, top contact offset by series of microshears at 30°, offsets at 40°, dextral (RH)																
		132.96 - 133.12m Possible dike material, beige/yellow totally saussuritized Offsets contacts as above Dike up to 8% pyrite in clusters																
		132.33 - 132.96m Strongly altered gabbro - hematite, saussuritized, epidote and local clay mineral stringers, at all angles																
		Gradational contact Unit (at 138°)																
138.00	169.23	<b>GABBRO</b>																
		Mix of 50% gabbro, 50% altered gabbro; alteration increases with depth	2	2			051	138.00	141.00	3.00	nil		0.01	0.00	0.00	0.007	0.005	0.002
		Medium grained, local fine to medium patches (more altered)	2	2			052	141.00	144.00	3.00	nil		0.02	0.00	0.00	0.008	0.005	0.002
		Grey-green to black-white, locally purple hued, due to K-spar	2	2			053	144.00	147.00	3.00	tr		0.02	0.00	0.00	0.005	0.004	0.002
		Plag 45-55%, Cpx 45-55%, trace Opx, trace magnetite	2	2			054	147.00	150.00	3.00	tr		0.02	0.00	0.00	0.005	0.004	0.001
			2	2			055	150.00	152.51	2.51	nil		0.02	0.00	0.00	0.006	0.005	0.002
			3	3			056	152.51	154.60	2.09	tr		0.01	0.00	0.00	0.006	0.004	0.002
			3	2			057	154.60	156.35	1.75	nil		0.02	0.00	0.00	0.006	0.005	0.002
			3	2			058	156.35	159.00	2.65	nil		0.02	0.00	0.00	0.007	0.005	0.001
			3	2			059	159.00	161.83	2.83	nil		0.02	0.00	0.00	0.010	0.004	0.001
			3	3			060	161.83	164.83	3.00	nil		0.02	0.00	0.00	0.006	0.005	0.002







# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-005

LOGGED BY: **S. Burgess**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
169.23	204.64	<b>HETEROLITHIC GABBRO BRECCIA (continued)</b>  194.70 - 196.57m Very mafic fine to medium grained rocks, websterite to possible microgabbro-like rocks Good sulfide in medium grained sections Gradational contacts, dark grey to black, finer grained material almost aphanitic  202.50 - 204.64m Alteration zone, increased saussuritization, actinolite, chlorite  204.00 - 204.27m Intensely saussuritized, shear zone, yellow, green Minor hematite along 50° bottom contact to zone Strong chlorite, top of shear at 35°  65° bottom contact	3	3	M	10	071	192.00	195.00	3.00	0.50	1:1	0.27	0.04	0.02	0.009	0.010	0.002
			3	3	M	10	072	195.00	198.00	3.00	0.75	2:3	0.49	0.06	0.02	0.019	0.018	0.003
			3	3	M	10	073	198.00	201.00	3.00	0.50	1:1	0.40	0.04	0.02	0.016	0.014	0.002
							074	201.00	202.82	1.82			3.35	0.17	0.07	0.020	0.014	0.002
							075	202.82	204.64	1.82			1.69	0.10	0.04	0.009	0.018	0.003
204.64	237.00	<b>VARITEXTURED GABBRO</b>  Coarse to very coarse grained Light grey-green Local varitextured gabbro-norite lenses Plag 45-60%, Cpx 30-55%, Opx 0-40% (average <10%) Weak to locally strong saussuritization, actinolite, weak to moderate tremolite, patchy K-spar, less epidote than seen previously in hole Occasional 1-3mm biotite altered dikes, most at 35-50°  209.13 - 211.22m Norite and varitextured gabbro-norite, norite Plag 40-50%, Opx 40-50%, Cpx <10%	3	3			076	204.64	207.00	2.36	0.25	1:1	0.21	0.02	0.01	0.002	0.010	0.001
			2	2			077	207.00	209.63	2.63	tr		2.59	0.19	0.01	0.005	0.012	0.002
			2	3			078	209.63	211.22	1.59	tr		6.01	0.31	0.02	0.003	0.006	0.001
			3	3			079	211.22	213.00	1.78	tr		1.06	0.12	0.02	0.012	0.007	0.001
			2	2			080	213.00	216.00	3.00	0.50	1:1	0.22	0.04	0.09	0.013	0.016	0.001
			2	2			081	216.00	219.00	3.00	0.75	2:3	0.54	0.08	0.17	0.029	0.044	0.002
			3	2			082	219.00	222.00	3.00	0.75	1:1	1.44	0.16	0.05	0.008	0.014	0.002
			2	2			083	222.00	225.00	3.00	0.25	1:1	1.85	0.15	0.03	0.005	0.011	0.002
			2	2			084	225.00	228.00	3.00	tr		0.52	0.08	0.04	0.008	0.014	0.002
			2	2			085	228.00	231.00	3.00	tr		0.34	0.05	0.01	0.003	0.011	0.002
			2	2			086	231.00	234.00	3.00	tr		0.34	0.05	0.02	0.006	0.013	0.002
							087	234.00	237.00	3.00	tr		0.44	0.08	0.01	0.005	0.008	0.001

EOH

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU				
<b>HOLE NO.:</b> 00-010	<b>LENGTH: (m)</b> 312.0M	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b> Core stored at Lac des Iles mine site
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b> 32382.55	<b>EASTING:</b> 32175.69						
<b>SECTION:</b> 800NR	<b>ZONE:</b> North Roby	<b>ELEVATION:</b> 507.77				<b>DATE LOGGED:</b> June 9 - 10, 2000			
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b> PLANNED: 307/-46.5		<b>SURVEYED:</b> 306.750/-46.656				<b>LOGGED:</b> J. Rickard		<b>SIGNATURE:</b> <i>J. Rickard</i>	
<b>HOLE STARTED:</b> 05-Jun-00	<b>HOLE FINISHED:</b> 8-Jun-00	<b>MAG DECLINATION:</b> 2.1° w					<b>SHEET 1 OF 29</b>		

METERAGE		DESCRIPTION	Rock Code	Bx Matrix				SAMPLES					ASSAYS							
FROM	TO			Alt <sup>n</sup>	Comp	Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
				Plag	Pxr															
0.00	8.56	CASING/OVERBURDEN																		
8.56	19.67	MAGNETITE GABBRO																		
		Medium grained, equigranular, altered gabbro, medium green/grey, actinolite, chlorite alteration. 35-45% Cpx; 54% Plag; 1-4% magnetite. Cpx is altered to fine grained actinolite+/-chlorite. Rare epidote alteration. Magnetite interstitial to Plag, pyroxenes. Trace specks interstitial chalcopyrite. At 14.10m - ~60° north east, carbonate filled, chlorite.																		
						2	3		001	8.56	9.92	1.36	nil		0.20	0.05	0.01	0.010	0.025	0.007
						2	3		002	9.92	12.00	2.08	nil		0.05	0.00	0.00	0.009	0.016	0.006
						2	3		003	12.00	15.00	3.00	tr		0.04	0.00	0.00	0.007	0.013	0.005
						2	3		004	15.00	17.83	2.83	nil		0.02	0.00	0.00	0.002	0.017	0.006
						2	3		005	17.83	19.67	1.84	nil		0.16	0.01	0.01	0.019	0.033	0.009



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# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
38.23	57.00		<b>GABBRO</b>  Medium grained to coarse grained altered gabbro, dark green/grey and pink/white. Sporadic feldspathic veins, often sausseritized and with coarse grained epidote. Cumulus Plag, intercumulus Cpx. Cpx altered to actinolite/chlorite. Plag chalky white, extensive epidote alteration. Joint at 30° to core axis. 45.56m - 45.76m - Sheared, actinolite/chlorite alteration.	2	3			015	38.23	40.94	2.71	tr		0.01	0.00	0.00	0.007	0.003
			2	3			016	40.94	43.84	2.90	tr		0.01	0.00	0.00	0.013	0.003	0.002
			2	3			017	43.84	45.21	1.37	nil		0.00	0.00	0.00	0.007	0.003	0.002
			2	3			018	45.21	45.94	0.73	nil		0.00	0.00	0.00	0.005	0.002	0.001
			2	3			019	45.94	48.00	2.06	nil		0.00	0.00	0.00	0.012	0.003	0.002
			2	3			020	48.00	51.00	3.00	0.20		0.00	0.00	0.00	0.013	0.003	0.002
			2	3			021	51.00	54.00	3.00	tr		0.00	0.00	0.00	0.009	0.004	0.002
			2	3			022	54.00	57.00	3.00	tr		0.00	0.00	0.00	0.009	0.004	0.002
57.00	57.37	<b>BRECCIA DIKE</b>  Very fine grained, brecciated, grey/green, breccia dike. Upper contact at 40° to core axis, dip shallow to NE, lower contact parallel to upper contact. Breccia fragments 2mm - 3.0cm. Extensive chlorite alteration throughout, especially in anastomizing fractures. Centre of dike sheared at 40° to core axis.	2	2			023	57.00	57.37	0.37	nil		0.00	0.00	0.00	0.002	0.006	0.002
57.37	66.19	<b>GABBRO</b>  Medium grained to coarse grained gabbro, generally equigranular, some fine grained to medium grained sections. Dark green with white/pink feldspar crystals. Epidote alteration of feldspar pervasive, but mottled throughout. Plag also sausseritized pink/brown.	2	3			024	57.37	60.00	2.63	tr		0.00	0.00	0.00	0.016	0.004	0.002
			2	3			025	60.00	63.00	3.00	tr		0.00	0.00	0.00	0.010	0.003	0.002
			2	3			026	63.00	64.81	1.81	0.10	1:1	0.01	0.01	0.00	0.015	0.003	0.002
			2	3			027	64.81	66.20	1.39	nil		0.00	0.00	0.00	0.013	0.004	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
57.37	66.19						<b>GABBRO (continued)</b>  2-3% feldspathic veins throughout, 0.5-2.0cm in width, sausseritized with coarse grained epidote, 40-45° to core axis. Trace chalcopyrite/pyrrhotite restricted to small shears, occasionally weakly disseminated. 40-50% Cpx; 5% Opx; 2% epidote; 43-45% Plag. Weak foliation at 70-75° to core axis.											
66.19	70.85	<b>GABBRO</b>  Medium grained, dark green gabbro, equigranular. Some tabular, euhedral Plag, Plag sausseritized, altered to epidote, occasional sericitization. Similar to above unit, but wider felsic dikes/veins. Dikes: 80-85% Plag; 5-7% quartz; <4-5% amphibole; 1-2% epidote. Gabbro: 5% Opx; 35-50% Cpx; 40-45% Plag; 1-2% epidote. Dike contacts 45-90° to core axis (core not oriented). Trace chalcopyrite/pyrrhotite.	2	2			028	66.19	68.68	2.49	tr		0.00	0.00	0.00	0.020	0.003	0.001
			2	2			029	68.68	70.85	2.17	tr		0.00	0.00	0.00	0.009	0.004	0.002
70.85	71.11	<b>FELSIC DIKE</b>  Medium grained, biotitic, quartz-feldspathic dike Carbonate and chlorite infilled lower contact. Contacts 30-35° to core axis. Chlorite/epidote at contacts. Lower contact finer grained, slightly sheared. 55-60% quartz; 30-35% biotite; 5% feldspar.					030	70.85	71.11	0.26	nil		0.00	0.00	0.00	0.001	0.002	0.001



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
76.80	85.47		<b>GABBRO</b>  Medium grained gabbro, similar to above unit, but slightly more mafic. Plag altered brown/pink, sausseritized and epidotized. Trace pyrrhotite/chalcopyrite, pyrrhotite as specks, chalcopyrite as tiny veinlets. Two 1-2cm wide feldspathic dikes at 45° to core axis, both epidotized and sausseritized with epidote patches up to 1.0cm. Weak foliation throughout at 85° to core axis. One pyrite bleb 2.0cm long, 2mm wide, cubic crystals. Quartz vein at 83.20m, 1-2cm wide at 55° to core axis. Adjacent chlorite shear at 50° to core axis, perpendicular to vein. 50-55% Cpx; 2-3% Opx; <1% epidote; 45% Plag. Cpx altered to tremolite.															
		3		2			034	76.80	79.50	2.70	0.10	1:5	0.01	0.00	0.00	0.009	0.004	0.002
		3		2			035	79.50	82.52	3.02	0.10		0.01	0.00	0.00	0.017	0.004	0.002
		3		2			036	82.52	85.47	2.95	tr		0.01	0.00	0.00	0.014	0.004	0.002
85.47	87.80	<b>LEUCOGABBRO</b>  Medium grained to coarse grained leucogabbro, dark green to light green. 30% Cpx; 1-2% Opx; 60-70% Plag. Plag altered to sericite, chalky white, epidote throughout. Pyroxene altered to amphibole. Joints at 5° and 10° to core axis, carbonate filled. Fractures throughout, at 35° to core axis, filled with chlorite and epidote.																
			3	2			037	85.47	87.80	2.33	nil		0.01	0.00	0.00	0.010	0.005	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
87.80	88.35		<b>FAULT</b>  Fault at 40° to core axis, muddy fault gouge, adjacent to chloritic shear and 1.0cm wide pink calcite vein - all parallel to fault. Top of zone characterized by a 14.0cm wide zone of breccia in a very fine grained chlorite/ epidote matrix. Sheared at 40-45° to core axis.					038	87.80	88.35	0.55	nil		0.00	0.00	0.00	0.001	0.004
88.35	90.75	<b>GABBRO</b>  Medium grained gabbro, similar to that between 85.47m and 87.80m. Dark and light zone defined by varying amounts of epidote and sausserite alteration. 1.0cm wide, epidote filled fault/vein at 89.77m, at 45-50° to core axis.	3	2			039	88.35	90.75	2.40	nil		0.01	0.00	0.00	0.007	0.005	0.002
90.75	91.62	<b>DIABASE DIKE</b>  Fine grained to very fine grained, dark green diabase dike. Upper contact at 60° to core axis, lower contact at 65-70° to core axis. 4.0cm long breccia fragment of adjacent gabbro at lower contact. 1.5% pyrite throughout dike, typically within fractures at 40° and 10° to core axis. Pyrite euhedral, cubic. Dike chloritized. One joint at 65° to core axis, carbonate filled.					040	90.75	91.62	0.87	1.50		0.00	0.00	0.00	0.017	0.007	0.005





# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
94.67	95.66		<b>GABBRO</b>  Medium grained gabbro, dark green/brown. Plag altered pink/brown. Opx altered to actinolite. Pyrite occasionally disseminated throughout, <1% total. Occasional stringer of diabase, 3-4cm long. 40-45% Cpx; 2-3% Opx; 50-55% Plag - trace epidote.	2	2			043	94.67	95.66	0.99	<0.1		0.01	0.00	0.00	0.009	0.004
95.66	109.40	<b>GABBRO</b>  Medium grained, dark green gabbro, with occasional gabbroonorite. Occasional fractures throughout at 45° and 20°, surrounded by bleached and epidotized Plag. Opx 5-20%; 20-45% Cpx; 45-50% Plag. Pyroxene altered to actinolite. Occasional sausseritization of Plag. Coarse grained quartz/feldspar dike at 103.19m to 103.35m, at 85° to core axis, some fine grained amphibole and medium grained epidote. Quartz/feldspar dike at 102.61m - 102.67m, 85° to core axis. Trace sulfides	2	2			044	95.66	98.45	2.79	tr		0.01	0.00	0.00	0.008	0.004	0.002
			2	2			045	98.45	101.16	2.71	tr		0.01	0.00	0.00	0.009	0.004	0.002
			2	2			046	101.16	102.58	1.42	0.10		0.01	0.00	0.00	0.010	0.004	0.001
			2	2			047	102.58	103.35	0.77	tr		0.00	0.00	0.00	0.012	0.003	0.001
			2	2			048	103.35	106.37	3.02	tr		0.02	0.00	0.00	0.012	0.004	0.001
			2	2			049	106.37	109.40	3.03	tr		0.01	0.00	0.00	0.012	0.004	0.001



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
122.15	123.10	<b>GABBRO</b>  Medium grained, dark green gabbro. Top of interval weakly sheared at 40° to core axis, defined by slight grain size reduction, fine grained chloritic shears, and bleaching of the feldspar. Joints at 75-85° to core axis, infilled with carbonate. Trace pyrite weakly disseminated throughout. Lower part of section weakly foliated at 70° to core axis. Pyroxene altered to actinolite.	3	3			055	122.15	123.10	0.95	tr		0.01	0.00	0.00	0.006	0.005	0.002
123.10	130.46	<b>GABBRO</b>  Medium grained, dark green gabbro. Pyroxene altered to actinolite, no fresh grains. Plag grey to brown/pink in colour, altered. Some euhedral, tabular Plag crystals. 40-45% Cpx; ~5% Opx; 50% Plag, epidote <1% Joints at 45° to core axis, some carbonate infilling and chlorite alteration. Epidote distributed sporadically. Trace pyrite. Occasionally weakly magnetic.	2	3			056	123.10	126.00	2.90	tr		0.01	0.00	0.00	0.008	0.005	0.002
			2	3			057	126.00	128.70	2.70	tr		0.01	0.00	0.00	0.007	0.004	0.002
			2	3			058	128.70	130.47	1.77	tr		0.01	0.00	0.00	0.006	0.005	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
137.85	138.80	<b>GABBRO</b> Medium grained, equigranular, gabbro. Occasionally magnetic. Upper 10cm bleached, near diabase. 25-40% Cpx; 2-3% Opx; 60-65% Plag; 1.5% epidote. Trace pyrite specks. Two 0.5cm quartz veins at 45° to core axis. Pyroxene altered to actinolite, minor sausseritization/ epidotization of Plag.	2	3			063	137.85	138.80	0.95	tr		0.02	0.00	0.00	0.007	0.004	0.002
138.80	139.98	<b>GABBRO</b> Fine grained to medium grained gabbro, with varying amounts of mafic minerals. Non-magnetic. Whole section is weakly sheared, with smaller strongly sheared zones. Sheared at 45° and 80° to core axis. grain size reduction near shears. Epidote and chlorite alteration along shears. Pyroxene altered to actinolite, Plag sericitized and sausseritized. No sulfides.	2	3			064	138.80	139.98	1.18	nil		0.01	0.00	0.00	0.004	0.004	0.002
139.98	144.13	<b>GABBRO</b> Medium grained, dark green gabbro. Pyroxene altered to actinolite. Weak foliation at 50-60° to core axis. Trace pyrite specks. Joints at 45° and 60° to core axis, carbonate filled. 40-45% Cpx; 60% Plag; 1% epidote.	2	3			065	139.98	141.77	1.79	tr		0.02	0.00	0.00	0.007	0.004	0.002
			2	3			066	141.77	144.13	2.36	tr		0.02	0.00	0.00	0.007	0.004	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
144.13	145.08		<b>GABBRO/ALTERED</b> Medium grained, strongly altered and sheared gabbro, medium to light green/yellow. Sheared and locally brecciated at 35-40° to core axis. Fine grained carbonate and epidote infill around breccia fragment. Degree of alteration greatest in centre of zone. Pyroxene altered to actinolite, Plag sericitized. Joints at 45° and sub-parallel to core axis.	3	3			067	144.13	145.08	0.95	nil		0.01	0.00	0.00	0.003	0.006
145.08	149.29	<b>GABBRO</b> Fine grained to medium grained gabbro, similar to above unit, but less altered. Variable mafic and felsic phases. Pyrite weakly disseminated, blebs up to 2mm, 0.1% total. 25-45% Cpx; 50-70% Plag. Occasional leucogabbro zones. Joints at 45° and 75° to core axis, occasionally carbonate filled. Quartz-feldspar dikes at 146.80m, at 45° to core axis, 1.5cm wide.	2	2			068	145.08	147.00	1.92	0.10		0.02	0.01	0.00	0.009	0.006	0.003
			2	2			069	147.00	149.29	2.29	0.10		0.04	0.02	0.02	0.017	0.008	0.002
149.29	156.90	<b>GABBRONORITE/GABBRO BRECCIA</b> Matrix of breccia is gabbroic at the top of the section, then grades into gabbronorite toward bottom, varies in grain size from medium grained to very coarse grained, with Opx crystals up to 2.0cm. Cpx is altered to fine grained actinolite, Opx progressively more altered, sharp texture.	2	3	m	90	070	149.29	151.03	1.74	nil		0.08	0.01	0.01	0.012	0.008	0.002
				3			071	151.03	151.56	0.53	nil		0.25	0.04	0.00	0.001	0.014	0.003
			2	4			072	151.56	153.96	2.40	nil		0.11	0.00	0.00	0.003	0.009	0.002
			2	3			073	153.96	154.03	0.07	tr		0.02	0.00	0.03	0.051	0.006	0.004
			3	4			074	154.03	155.32	1.29	nil		0.11	0.01	0.00	0.007	0.007	0.001
			3	4			075	155.32	155.45	0.13	nil		0.10	0.03	0.00	0.002	0.014	0.003
			3	4			076	155.45	156.90	1.45	tr		2.15	0.22	0.04	0.021	0.015	0.003

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
149.29	156.90		<p><b>GABBRONORITE BRECCIA (continued)</b></p> <p>Blue quartz present at upper contact. Plag occasionally sausseritized. Breccia clasts typically melanogabbro to pyroxenite, sharp contacts. Pyrite specks in melanogabbro clast.</p> <p>151.03m - 151.56m - Pyroxenite clast, medium grained to coarse grained, with an amphibole-bearing quartz vein cross-cutting at 90° to core axis. No sulfide present. Pyroxene and Plag become more coarse grained toward bottom of section, large pyroxene surrounded by smaller Plag crystals. Joints at 85° and 50° to core axis, occasionally carbonate filled. Quartz-feldspar vein from 150.55m to 150.95m, at 40° to core axis, some chlorite/epidote alteration.</p>															
156.90	159.18	<p><b>GABBRONORITE</b></p> <p>Coarse grained, gabbronorite, dark green/brown. Trace pyrite specks. Pyroxene strongly altered, Opx has dark green rims and pale green cores. 30-40% Opx; 5-7% Cpx; 50-55% Plag. Narrow mafic, fine grained to medium grained breccia dike at 157.18m, 1.5cm wide. Plag rarely bleached, mostly pink/brown. No jointing.</p>	3	4			077	156.90	159.18	2.28	tr		5.20	0.46	0.26	0.007	0.012	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

SHEET 17 OF 29

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-010

LOGGED BY: J. Rickard SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
166.82	178.76		<p><b>GABBRONORITE</b></p> <p>Medium grained to coarse grained varitextured gabbronorite, dark green to pale green/white. Pegmatitic, irregular pods suggest varitextured gabbronorite. 35-40% Opx; 5-10% Cpx; 35-55% Plag. Quartz-feldspar vein at 173.51m, 60° to core axis, pink/white, hematite altered. Pyroxene altered to actinolite, alteration increases down hole in the section. Joints at 10°, 45°, 60° to core axis, occasionally carbonate filled. Weak shear fabric at 75° to core axis at bottom of section. Trace pyrite, euhedral cubes.</p>															
		2		3			082	166.82	169.44	2.62	nil		0.12	0.03	0.01	0.005	0.006	0.001
		2		3			083	169.44	172.33	2.89	nil		0.42	0.05	0.01	0.006	0.008	0.002
		2		3			084	172.33	175.23	2.90	nil		0.56	0.05	0.01	0.006	0.008	0.002
		3		4			085	175.23	176.16	0.93	nil		0.10	0.01	0.01	0.004	0.010	0.002
		3		4			086	176.16	178.76	2.60	tr		0.25	0.02	0.01	0.004	0.008	0.002
178.76	183.40	<p><b>GABBRONORITE BRECCIA</b></p> <p>Dark green, fine grained to coarse grained, melanogabbro to melanogabbronorite clasts in a medium grained to coarse grained matrix. Matrix - 30-40% Opx; 5-10% Cpx. Feldspar alteration, becomes more epidotized down the section. Matrix becomes coarse grained down section. Clasts - Magnetic, trace pyrite. 10% Plag; 75-80% Opx/Cpx. Pyroxene more altered than that in the matrix. Clasts 8.0-15.0cm long.</p>																
			2	3			087	178.76	181.50	2.74	nil		0.57	0.04	0.00	0.005	0.011	0.002
			3	3			088	181.50	183.40	1.90	tr		0.45	0.03	0.01	0.007	0.011	0.003

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
183.40	183.56	<b>FAULT GOUGE</b> Fault gouge, white, chalky powder - talc? Does not react with hydrochloric acid. Chloritic shear at upper contact and lower contact, at 45° to core axis. Zone completely broken-up, with intermixed gabbronorite breccia fragments.					089	183.40	183.56	0.16	nil		0.25	0.03	0.00	0.001	0.009	0.001
183.56	188.53	<b>GABBRONORITE</b> Medium grained to coarse grained, varitextured gabbronorite. Opx 10-35%; Cpx 5-40%; Plag 50-65%. Rapidly changing medium grained to pegmatitic zones, variable Plag contents with some zones leucocratic. Opx crystals up to 3 or 4 cm long. Pyroxene altered to actinolite, Plag sausseritized. Trace pyrite specks. Occasional shears at 20° to core axis, greater degree of alteration around shears. Many joints throughout, at 70° and 45° to core axis, carbonate filled.	3	4			090	183.56	186.00	2.44	tr		1.23	0.12	0.03	0.005	0.013	0.002
			3	3			091	186.00	188.53	2.53	tr		0.50	0.11	0.05	0.006	0.015	0.002
188.53	189.00	<b>GABBRONORITE TO LEUCOGABBRONORITE</b> Coarse grained. Upper part of section defined by shear/fault at 80° to core axis, intruded by 1.0cm carbonate vein, altered to chlorite, and hematized. Lower part of section contains up to 80% Plag, with epidote altered. Plag above and below shear is altered.	4	4			092	188.53	189.00	0.47	nil		0.11	0.02	0.01	0.001	0.013	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
189.00	190.35		<b>GABBRONORITE</b> Strongly sheared gabbronorite at 50° to core axis. Dark green, fine grained, with some pegmatitic zones. Trace pyrite specks. Plag almost completely altered, epidote and hematite alteration. Opx strongly altered, dark green, some crystals up to 3.0cm. Joints sub-parallel to shear, carbonate filled.	4	4			093	189.00	190.35	1.35	tr		0.86	0.08	0.08	0.019	0.027
190.35	196.90	<b>GABBRONORITE BRECCIA</b> Alteration decreases from top of section to bottom, upper section sheared at 60° to core axis, is locally fine grained, and altered to chlorite/amphibole. 15-20% Opx; 20-40% Cpx; 40% Plag (matrix) - Pyroxene altered to actinolite. Clasts are medium grained to coarse grained, 5-20cm long, fairly sharp contact with matrix. Gabbronorite in composition. Plag is altered throughout.	4	4			094	190.35	193.18	2.83	nil		0.12	0.03	0.04	0.011	0.016	0.002
			3	3			095	193.18	194.05	0.87	nil		0.15	0.03	0.02	0.010	0.018	0.003
			2	3			096	194.05	196.90	2.85	1.00		0.32	0.05	0.02	0.012	0.015	0.002
196.90	197.30	<b>LEUCONORITE</b> Pegmatitic leuconorite pod. Contact with surrounding gabbronorite breccia sharp. Tabular Plag up to 2.0cm, altered to epidote with hematite staining or sausserite. Opx strongly altered, dark green. 20% Opx; 76-78% Plag; 2-4% epidote. No visible sulfides.	3	4			097	196.90	197.30	0.40	nil		0.04	0.00	0.01	0.009	0.005	0.001



# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
			Plag	Pxr													Com	Prop
207.00	213.78	<b>GABBRONORITE</b> Medium grained to coarse grained gabbronorite with occasional zone of fine grained to medium grained melanogabbronorite. 15-20% Opx; 20-30% Cpx. Plag altered, epidotized, Plag is cumulate. Opx, Cpx altered, both appear intercumulate. Trace pyrite in bottom of section. Joints at 45° to core axis. Biotite alteration in occasional quartz/Plag rich weak shears at 70° to core axis, <1.0cm wide.																
			2	3			103	207.00	209.71	2.71	nil		0.14	0.04	0.01	0.004	0.008	0.001
			2	3			104	209.71	211.63	1.92	nil		0.38	0.07	0.01	0.005	0.011	0.001
			2	3			105	211.63	213.78	2.15	tr		1.18	0.11	0.02	0.003	0.012	0.002
213.78	213.95	<b>SHEAR</b> Fine grained, strong shear at 50° to core axis. Chlorite, epidote, and hematite alteration. No apparent sulfides. Minor carbonate infilling.																
			4	4			106	213.78	213.95	0.17	nil		0.05	0.01	0.00	0.001	0.013	0.002
213.95	222.30	<b>GABBRONORITE</b> Medium grained to coarse grained gabbronorite - possibly varitextured. Alteration increases and grain size decreases towards bottom of section. Plag altered to epidote at top of section, at bottom is dark pink/brown from hematization? Occasional quartz/feldspar-rich shear displaying biotite alteration. 10-15% Opx; 20-30% Cpx; 35-45% Plag. Pyroxene up to 2.0cm at top of section, within small "pods" suggesting varitextured gabbronorite.																
			2	2			107	213.95	216.41	2.46	nil		0.11	0.03	0.00	0.002	0.008	0.001
			2	2			108	216.41	219.34	2.93	nil		0.28	0.06	0.00	0.002	0.009	0.001
			3	3			109	219.34	222.30	2.96	tr		0.22	0.04	0.01	0.009	0.011	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
213.95	222.30		<b>GABBRONORITE (continued)</b>  Trace pyrite specks. Joints at 60° and 50° to core axis, carbonate and chlorite smearing.															
222.30	223.35	<b>MELANOGABBRONORITE</b>  Fine grained to medium grained melanogabbronorite. 35-40% Opx; 15-20% Plag; 30-40% Cpx (difficult to determine, fine grained). Trace interstitial pyrite specks. Grain sizes change from fine grained to medium grained in sections. Contacts with surrounding gabbronorite fairly sharp. May be the matrix to a breccia.	2	3			110	222.30	223.35	1.05	tr		0.10	0.02	0.01	0.006	0.014	0.003
223.35	234.74	<b>VARITEXTURED GABBRONORITE (BRECCIA?)</b>  Alternating units of medium grained to coarse grained gabbronorite with fine grained to medium grained melanogabbronorite, contacts are diffuse. The melanogabbronorite contains the high percentage of sulfide specks of pyrite and lesser pyrrhotite - 0.1-0.2% total. Larger specks of pyrrhotite/pyrite are found in coarse grained gabbronorite. Gabbronorite is varitextured, with small "pods" of pegmatitic pyroxene/Plag, crystals up to 3.0cm. Joints at 45° to 30°, carbonate filled. 10-45% Plag; 20-30% Opx; 25-30% Cpx.	3	3			111	223.35	226.10	2.75	0.10		0.18	0.04	0.03	0.024	0.010	0.002
			2	2			112	226.10	227.00	0.90	nil		0.23	0.05	0.01	0.004	0.007	0.001
			2	2			113	227.00	228.40	1.40	nil		0.13	0.03	0.02	0.017	0.010	0.002
			2	2			114	228.40	230.38	1.98	0.10		0.62	0.11	0.03	0.022	0.021	0.003
			3	3			115	230.38	231.00	0.62	0.20		2.20	0.33	0.15	0.063	0.039	0.004
			3	3			116	231.00	232.30	1.30	tr		0.46	0.09	0.05	0.024	0.019	0.003
			3	3			117	232.30	234.74	2.44	nil		0.46	0.07	0.02	0.008	0.010	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
234.74	236.65		<b>GABBRONORITE</b> Medium grained to coarse grained, with a number of quartz/ feldspar dikes intruded into it. One dike of 20° to core axis, at 234.74m - 235.05m , Plag at core is pink/orange, sausseritized, minor fine grained biotite alteration at margins. Other sporadic dikes at 20° to 30° to core axis, show biotite alteration.	2	2			118	234.34	236.65	2.31	nil		0.08	0.02	0.01	0.009	0.006
236.65	246.36	<b>GABBRONORITE</b> Medium grained to coarse grained gabbro norite, with occasional melanogabbro norite zones. 10-20% Opx; 10-60% Plag; 20-30% Cpx. Variable alteration throughout, dependent on shearing. Pyrrhotite specks in melanogabbro norite. Interstitial pyrite specks throughout. Weakly sheared between 240.40m - 243.00m, at 40° to core axis, defined by grain size reduction and increase in actinolite alteration. Feldspar-rich shear at 239.10m - 239.21m, biotite alteration and hematization. Joints at 50°, 60° to core axis, carbonate filled.	2	3			119	236.65	239.21	2.56	tr		0.17	0.03	0.02	0.019	0.013	0.002
			2	3			120	239.21	242.14	2.93	0.10		0.70	0.13	0.08	0.037	0.024	0.003
			2	3			121	242.14	242.63	0.49	0.20		0.13	0.03	0.05	0.019	0.015	0.003
			2	2			122	242.63	244.50	1.87	tr		0.26	0.04	0.03	0.012	0.012	0.002
			3	2			123	244.50	246.36	1.86	tr		0.63	0.06	0.04	0.015	0.017	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
257.35	257.43		<b>DIABASE DIKE</b> Very fine grained to fine grained, dark green/black, sheared diabase dike. Defined by internal foliation, gabbro host is not sheared, sharp contacts between the two. Contacts at 85° to core axis. Fine grained Plag set in an altered groundmass.	3	3			130	254.77	257.35	2.58	tr		0.01	0.00	0.01	0.014	0.023
257.43	266.20	<b>GABBRONORITE</b> Medium grained to coarse grained gabbronorite, varitextured. Opx increases towards bottom of section, and grain size decreases. Occasional pegmatitic Opx, Cpx, Plag. Alteration decreases towards bottom of section. Occasional specks of pyrrhotite with pyrite, intergrown, as interstitial sulfides. Sulfides mostly found in coarse grained and pegmatitic areas. 15-40% Opx; 10-20% Cpx; 35-50% Plag.	3	3			131	257.43	260.13	2.70	nil		0.21	0.04	0.01	0.004	0.008	0.001
			2	3			132	260.13	261.50	1.37	nil		0.32	0.07	0.07	0.017	0.013	0.001
			2	3			133	261.50	264.35	2.85	0.30		0.30	0.09	0.25	0.050	0.042	0.002
			2	2			134	264.35	266.20	1.85	tr		0.09	0.05	0.19	0.060	0.042	0.002
266.20	267.42	<b>GABBRONORITE</b> Medium grained gabbronorite with medium grained, irregular shaped tonalite melt bodies. Tonalite is approximately 15-20% quartz, 70-75% Plag; 5-10% biotite sporadically with tonalite, and denser at the margins, up to 35cm long, sharp contacts with gabbronorite. Joints at 20° to core axis.	2	2			135	266.20	267.42	1.22	tr		0.10	0.04	0.05	0.026	0.022	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
267.42	270.00	<b>GABBRONORITE</b> Medium grained to coarse grained gabbronorite. Specks of pyrrhotite/pyrite throughout, but on large mass of interstitial sulfide in coarse grained gabbronorite. Quartz/feldspar dike at 269.90m, 2.0cm wide at 20° to core axis, epidote and sausserite alteration.	2	2			136	267.42	270.00	2.58	0.10		0.11	0.02	0.03	0.038	0.023	0.002
270.00	271.22	<b>MAFIC DIKE/BRECCIATED</b> Fine grained, dark green to pale green breccia dike. Fine grained matrix, with medium grained gabbroic clasts. Entire unit is epidotized, pervasive. One 20cm long clast shows sausserite alteration. Clast/matrix boundaries are well defined. Clasts vary in size from <10cm to 20.0cm, all euhedral. Dike contacts are diffuse, inferred.	3	3	M	50	137	270.00	271.22	1.22	nil		0.05	0.02	0.01	0.007	0.019	0.003
271.22	274.31	<b>VARITEXTURED GABBRONORITE</b> Varitextured gabbronorite, medium grained to coarse grained. Coarse grained pods of Plag and pyroxene. Unit shows pervasive epidote alteration. 10-20% Opx; 20-40% Cpx; 40-50% Plag	3	3			138	271.22	273.00	1.78	tr		0.08	0.09	0.14	0.060	0.049	0.004
			3	3			139	273.00	274.31	1.31	nil		0.05	0.03	0.03	0.014	0.014	0.002
274.31	274.98	<b>MAFIC DIKE/BRECCIATED</b> Fine grained, dark green/black breccia dike. Clasts medium grained, gabbronorite to felsic, subround to subangular. Sharp contacts between clasts and matrix. Sharp dike contacts at 60° to core axis. Epidote alteration throughout. Clasts 1.0cm to 19.0cm long.	3	3	M	20	140	274.31	274.98	0.67	nil		0.09	0.07	0.05	0.029	0.012	0.004

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METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
274.98	280.12	<b>GABBRONORITE</b> Medium grained, dark green/brown gabbronorite. Occasional pod of coarse grained pyroxenite/feldspar. Opx 30-40%; Plag 40-50%; Cpx 10-20%. Trace pyrrhotite, pyrite specks. Epidote alteration at top of section.	3	3			141	274.98	277.88	2.90	tr		0.21	0.07	0.04	0.016	0.014	0.002
			3	3			142	277.88	280.12	2.24	tr		0.10	0.05	0.03	0.018	0.014	0.002
280.12	291.77	<b>GABBRONORITE</b> Medium grained to coarse grained gabbronorite, more felsic than the above unit, but variable alteration results in colour variation with depth. Trace pyrrhotite/pyrite specks. 282.96m - 288.77m - Plag is dark pink/brown. 2-3cm wide diabase dike at 289.11m, at 40° to core axis. Joints at 30°, 45° 60° to core axis, carbonate filled. 10-30% pyroxene, 10-25% Cpx, 35-50% Plag.	2	2			143	280.12	282.96	2.84	tr		0.12	0.05	0.02	0.011	0.013	0.002
			3	3			144	282.96	285.82	2.86	tr		0.10	0.07	0.03	0.016	0.012	0.002
			3	3			145	285.82	288.77	2.95	tr		0.12	0.04	0.03	0.015	0.014	0.003
			2	2			146	288.77	291.77	3.00	tr		0.05	0.02	0.01	0.008	0.008	0.002
291.77	298.23	<b>GABBRONORITE</b> Medium grained gabbronorite. Opx is getting more abundant and fresher looking, brownish. Bleached zone of Plag around a fracture at 291.90m, 30° to core axis, epidote alteration. Trace pyrite and chalcopyrite. Opx 25-35%; Cpx 10-20%; 35-50% Plag. Joints at 10°, 45° and 70° to core axis. Quartz vein at 296.13m, at 20° to core axis, biotite alteration.	3	3			147	291.77	293.15	1.38	nil		0.07	0.03	0.01	0.008	0.010	0.002
			3	3			148	293.15	295.33	2.18	tr		0.04	0.02	0.01	0.008	0.008	0.002
			2	2			149	295.33	298.23	2.90	tr		0.05	0.02	0.01	0.013	0.010	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-010

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
298.23	304.41		<b>GABBRONORITE</b> Medium grained gabbronorite, dark brown/green. Slightly more Opx. Opx 30-40%; Cpx 5-15%; 35-50% Plag. Pyrrhotite and pyrite specks most abundant between 300.86m and 302.65m. Pyrrhotite forms small masses of interstitial sulfide.	2	2			150	298.23	300.86	2.63	nil		0.03	0.00	0.01	0.008	0.007
			2	2			151	300.86	302.65	1.79	0.20		0.05	0.02	0.01	0.020	0.020	0.002
			2	2			152	302.65	304.41	1.76	nil		0.08	0.02	0.01	0.013	0.011	0.002
304.41	304.64	<b>DIABASE DIKE</b> Fine grained, dark green, diabase dike. Upper contact at 70° to core axis, lower contact at 45° to core axis, sharp contacts. Minor bleaching of feldspar along tiny fractures at 60° and 80° to core axis.					153	304.41	304.64	0.23	nil		0.02	0.00	0.01	0.022	0.009	0.004
304.64	307.32	<b>VARITEXTURED GABBRONORITE</b> Varitextured gabbronorite, medium grained to coarse grained. Narrow diabase dike at 305.28m, 4.0cm wide, at 70° to core axis, sharp contacts with gabbronorite. Quartz-filled shears at 305.65m and 305.76m, both at 20-30° to core axis, 2-3cm wide. Narrow shear at 307.22m to 307.27m, at 45° to core axis, broken core.					154	304.64	307.32	2.68	nil		0.08	0.02	0.01	0.005	0.009	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

LOGGED BY: J. Rickard

SIGNATURE

PROPERTY LDI ZONE Roby HOLE # 00-010

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
307.32	308.23	<p><b>DIABASE DIKE/DIABASE BRECCIA</b></p> <p>Fine grained dark grey/green diabasic matrix with medium grained to coarse grained gabbronorite clasts. Upper contact sharp at 40° to core axis, lower contact diffuse at 45° to core axis. One coarse grained, 2-3cm long gabbronorite clast at centre of dike, clast/matrix boundary diffuse. Smaller medium grained clasts at margins, &lt;5.0cm, subround, sharp clast/matrix boundaries. Neither clasts nor matrix are magnetic. No visible sulfides.</p>	2	2	M	40	155	307.32	308.23	0.91	nil		0.07	0.03	0.00	0.013	0.015	0.002
308.23	311.85	<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Medium grained to coarse grained, varitextured gabbronorite. Small pods of coarse grained Plag and pyroxene. 15-25% Opx; 10-20% Cpx; 40-50% Plag. Trace pyrrhotite specks. At the top of the section, the Plag is white and not extremely altered, but alteration increases down the section, becoming epidotized. Pyroxene at top of section is altered to actinolite, Opx down through the section becomes less shiny, and is more brownish. Few joints at 85-90° to core axis, chlorite and carbonate filled.</p>	2	3			156	308.23	309.56	1.33	tr		0.04	0.02	0.00	0.007	0.007	0.001
	EOH		3	2			157	309.56	311.85	2.29	nil		0.08	0.03	0.01	0.007	0.007	0.001

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY:	LAC DES ILES	CLAIM NUMBER:	253	DOWNHOLE SURVEY METHOD:	Maxibor	DRILLING COMPANY:	CHIBOUGAMAU
HOLE NO.:	00-015	LENGTH: (m)	279.00m	CORE SIZE:	NQ	REMARKS:	Core stored at Lac des Iles mine site
LOCATION - MINE GRID		NORTHING:	32445.19	EASTING:	32143.19		
SECTION:	900NR	ZONE:	N. Roby	ELEVATION:	511.05	DATE LOGGED:	June 15, 2000
COLLAR ORIENTATION (AZIMUTH / DIP);	PLANNED:	307/-58.5	SURVEYED:	306.610/-58.269		LOGGED:	K. Nelson
HOLE STARTED:	11-Jun-00	HOLE FINISHED:	14-Jun-00	MAG DECLINATION:	2.1° w	SIGNATURE:	<i>MP</i>
						SHEET	1 OF 12

METERAGE		DESCRIPTION	Rock Code	SAMPLES						ASSAYS								
FROM	TO			Alt <sup>m</sup>	Bx Matrix													
			Plag	Pxr	Comp	Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
1.17	65.50	<b>COARSE GRAINED GABBRO</b>																
		Coarse grained, equigranular gabbro. Dark greenish-grey with a very mottled look due to the Plag. Some sections are yellowy green due to saussurite alteration while others are purplish-pink due to potassium feldspar alteration of the Plag. The colors grade in and out of each other throughout the length of the unit. Plag 50-60%, Cpx 40-50%, generally no Opx except in the sections noted below. Generally non magnetic. 1-2% black, hairline, healed fractures and white 2-4 mm felsic dikelets. Both are at steep angles to core axis, generally 20-30° to core axis, but the black ones can be steeper, up to 10° to core axis. Weak to moderate actinolite. Alteration grades in and out throughout core, some sections appear quite fresh, others have moderate potassium feldspar alteration to Plag, others have a yellowish green tint due to saussurite alteration. No one alteration typically predominates. Trace disseminated pyrite throughout with the occasional tiny crystal seen. The unit also grades through short sections of gabbronorite which are 45-55% Plag, 15-30% Opx, 20-30% Cpx; trace disseminated pyrite in these sections as well. The gabbronorite sections also tend to be magnetic.																
			2	2			001	1.17	3.93	2.76	tr		0.00	0.00	0.00	0.008	0.004	0.002
			2	2			002	3.93	6.00	2.07	tr		0.00	0.00	0.00	0.007	0.004	0.002
			2	2			003	6.00	9.00	3.00	tr		0.00	0.00	0.00	0.007	0.003	0.002
			2	2			004	9.00	12.00	3.00	tr		0.00	0.00	0.00	0.020	0.004	0.003
			2	2			005	12.00	15.00	3.00	tr		0.01	0.00	0.01	0.007	0.004	0.002
			2	2			006	15.00	18.00	3.00	tr		0.00	0.00	0.00	0.010	0.004	0.002
			2	2			007	18.00	21.00	3.00	tr		0.00	0.00	0.00	0.011	0.004	0.002
			2	2			008	21.00	24.00	3.00	tr		0.00	0.00	0.00	0.011	0.004	0.002
			2	2			009	24.00	27.00	3.00	tr		0.01	0.00	0.00	0.010	0.004	0.003
			2	2			010	27.00	30.00	3.00	tr		0.01	0.00	0.00	0.010	0.004	0.002
			2	2			011	30.00	33.00	3.00	tr		0.01	0.00	0.00	0.010	0.005	0.002
			2	2			012	33.00	36.00	3.00	tr		0.01	0.00	0.00	0.009	0.005	0.002
			2	2			013	36.00	39.00	3.00	tr		0.01	0.00	0.00	0.010	0.005	0.002
			2	2			014	39.00	42.00	3.00	tr		0.01	0.00	0.00	0.009	0.005	0.002
			2	2			015	42.00	45.00	3.00	tr		0.02	0.00	0.00	0.007	0.004	0.001
			2	2			016	45.00	48.00	3.00	tr		0.01	0.00	0.01	0.016	0.004	0.003
			2	2			017	48.00	51.00	3.00	tr		0.01	0.00	0.01	0.025	0.004	0.002
			2	2			018	51.00	54.00	3.00	tr		0.01	0.00	0.00	0.011	0.004	0.002
			2/3	2/3			019	54.00	57.00	3.00	tr		0.01	0.00	0.03	0.016	0.005	0.002
			2/3	2/3			020	57.00	60.00	3.00	tr		0.01	0.00	0.01	0.015	0.004	0.002
			2/3	2/3			021	60.00	63.00	3.00	tr		0.01	0.00	0.00	0.011	0.004	0.002
			2/3	2/3			022	63.00	65.50	2.50	tr		0.01	0.00	0.00	0.010	0.005	0.002



52H04NE2012 2.23510 LAC DES ILES

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# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-015

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS								
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
160.28	203.10	<p><b>COARSE GRAINED GABBRONORITE</b></p> <p>Coarse grained to very coarse grained, generally equigranular to slightly porphyritic. Grain outlines well altered. Moderate greyish-green to brownish-green, some sections mottled purplish-pink. 45-60% Plag, 15-30% Opx, 15-30% Cpx. Patchy magnetic in parts, but mainly non magnetic. Only hairline felsic and mafic dikelets. Trace pyrite as tiny disseminations. Moderate actinolite, weak to moderate tremolite (Opx varies from brown to silver, but silver predominates) Weak to patchy moderate potassium feldspar (pink) alteration to Plag.</p> <p>106.28m - 160.69m - Weak to moderate shearing through this section at 60° to core axis. Weak shears occasional down to 165.00m.</p> <p>178.90m - 185.85m - 25% fine grained, melanogabbro dikes with trace chalcopyrite and pyrrhotite, up to 1.2m long, contacts sharp but varying angles.</p> <p>192.17m - 192.43m - Fault zone - Clayey, sheared at 40° to core axis as are the sharp upper and lower contacts, calcareous, dark red iddingsite throughout, slightly brecciated.</p> <p>192.89m - 193.15m - Zone with weak shears similar to previous, each a couple of cm wide.</p> <p>199.58m - 199.73m - Quartz-diorite dike with hornblende(?) crystals. Sharp contacts at 40°, (upper), and 30° (lower) to core axis.</p> <p>Bottom contact taken where first section of finer grained material appears.</p>																		
			2	3			060	160.28	162.00	1.72	nil		0.24	0.03	0.02	0.007	0.012	0.002		
			2	3			061	162.00	165.00	3.00	nil		0.16	0.03	0.00	0.002	0.010	0.002		
			2	3			062	165.00	168.00	3.00	tr		0.35	0.04	0.01	0.003	0.009	0.001		
			2	3			063	168.00	171.00	3.00	tr		0.15	0.02	0.00	0.002	0.007	0.001		
			2	3			064	171.00	174.00	3.00	nil		0.18	0.03	0.01	0.006	0.007	0.001		
			2	3			065	174.00	177.00	3.00	tr		0.13	0.02	0.01	0.005	0.006	0.001		
			2	3			066	177.00	180.00	3.00	tr	1:1	0.35	0.04	0.02	0.014	0.012	0.001		
			2	3			067	180.00	183.00	3.00	tr	1:1	0.15	0.02	0.02	0.010	0.008	0.001		
			2	3			068	183.00	186.00	3.00	tr		0.20	0.02	0.01	0.008	0.008	0.001		
			2	3			069	186.00	189.00	3.00	tr		0.14	0.03	0.00	0.002	0.007	0.001		
			2/3	3			070	189.00	192.00	3.00	tr		0.11	0.02	0.01	0.006	0.008	0.002		
			2	3			071	192.00	195.00	3.00	tr		0.35	0.05	0.03	0.012	0.014	0.002		
			2	3			072	195.00	198.00	3.00	tr		0.23	0.05	0.03	0.015	0.010	0.002		
		2	3			073	198.00	201.00	3.00	tr		0.15	0.04	0.01	0.004	0.009	0.001			
		2	3			074	201.00	203.10	2.10	tr		0.25	0.04	0.01	0.008	0.010	0.001			



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-015

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
203.10	279.00	<b>VARITEXTURED GABBRONORITE (continued)</b>																
		210.95m - 211.03m - Quartz-diorite dike with dark greenish-black mafic specks, (hornblende?) Sharp top and bottom contacts at 40° to core axis. Dike is 5-6cm thick.																
		216.00m - 218.00m - Sulfides pick up again. Blebs (interstitial) of several mm common. Large clot at 217.90m.																
		222.00m - Start to pick up small, (1-4mm) irregular, blueish quartz blebs. Fresher looking than rest of core but looks like it is part of the gabbronorite (ends at 227.00m)																
		227.05m - The coarse grained, rapidly changing varitextured gabbronorite ends about here.																
		227.05m - 261.35m - This section of varitextured gabbronorite grades in and out over longer core lengths, anywhere from 50cm to 3.0m. It is being kept in the varitextured unit because there is not a significant amount of any one type to place it in it's own unit. The main grain size(s) is(are) indicated in the sample descriptions and they constitute from 75-100% of the sample taken.	2	3			084	227.05	229.75	2.70	0.25	1:3	0.10	0.08	0.27	0.065	0.041	0.002
			2	3			085	229.75	232.68	2.93	0.25	1:3	0.06	0.06	0.22	0.084	0.060	0.003
			2	3			086	232.68	234.00	1.32	tr		0.07	0.05	0.05	0.019	0.014	0.002
			2	3			087	234.00	236.74	2.74	tr	1:4	0.17	0.00	0.14	0.052	0.028	0.002
			3	3			088	236.74	238.00	1.26	tr	1:2	0.11	0.02	0.04	0.020	0.012	0.002
			3	3			089	238.00	240.00	2.00	tr		0.18	0.05	0.04	0.020	0.014	0.002
			3	3			090	240.00	243.00	3.00	tr	1:2	0.11	0.03	0.02	0.010	0.008	0.001
		227.05m - 229.75m - Fine grained sulfides disseminated throughout and sometimes occurring as small blebs.	3	3			091	243.00	244.65	1.65	tr		0.15	0.06	0.03	0.018	0.014	0.002
		231.80m - 231.60m - Quartz-diorite dike with weak saussurite alteration. Sharp contacts: upper at 25° to core axis, and lower at 50° to core axis.	3	3			092	244.65	247.33	2.68	tr		0.12	0.05	0.04	0.021	0.015	0.002
		234.00m -236.74m - As per 227.05m -229.75m. At 234.87m there is a 1x5 cm section with a 1/3 chalcopyrite and pyrrhotite	2	3			094	249.72	251.62	1.90	tr		0.05	0.00	0.01	0.005	0.007	0.001
			3	3			095	251.62	254.47	2.85	tr		0.04	0.01	0.01	0.008	0.007	0.002
		239.00m -Start to pick up occasional blueish quartz again. Continues to end of hole.	2	3			096	254.47	257.32	2.85	tr		0.09	0.02	0.02	0.016	0.012	0.002
			3	3			097	257.32	258.98	1.66	tr	1:1	0.07	0.02	0.01	0.014	0.010	0.002
		242.45m -approximately 2cm square section with fine grained bleby chalcopyrite and pyrrhotite.	3	3			098	258.98	261.35	2.37	tr	1:1	0.13	0.02	0.01	0.009	0.008	0.001







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY:	LAC DES ILES	CLAIM NUMBER:	253	DOWNHOLE SURVEY METHOD:	Maxibor	DRILLING COMPANY:	CHIBOUGAMAU
HOLE NO.:	00-019	LENGTH: (m)	219	CORE SIZE:	NQ	REMARKS:	Core stored at Lac des Iles mine site
LOCATION - MINE GRID		NORTHING:	32417.49	EASTING:	32180.01		Oriented core 75 Samples
SECTION:	900NR	ZONE:	North Roby	ELEVATION:	507.49	DATE LOGGED:	7-Jun--8-Jun-00
COLLAR ORIENTATION (AZIMUTH / DIP);	PLANNED:	307°/-58.5°	SURVEYED:	307.030/-58.119		LOGGED:	S. Burgess
HOLE STARTED:	2-Jun-00	HOLE FINISHED:	4-Jun-00	MAG DECLINATION:	2.1° w	SIGNATURE:	<i>[Signature]</i>
						SHEET	1 OF 9

METERAGE		DESCRIPTION	Rock Code	Bx Matrix				SAMPLES					ASSAYS									
FROM	TO			Alt <sup>n</sup>	Plag	Pxr	Comp	Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
0.00	9.20	<b>CASING / OVERBURDEN</b>																				
9.20	9.34	<b>BOULDERS - NOT BEDROCK, therefore not sampled</b>																				
9.34	103.62	<b>GABBRO, ALTERED</b>																				
		Predominantly east gabbro, with varying degrees of alteration present, from moderate to intense As in hole 00-005 (68m south) top 12-13m almost is breccia Overall: Medium grained, weak to moderate foliation Dull grey green to more commonly cream/black Plag 30-55%, Cpx 45-70%, Opx 0-5%, 0-2% magnetite - very patchy Numerous shears, faults over top 54m Very scattered, weak mineralization: pyrite > chalcopyrite > pyrrhotite Weak to intense saussuritization, actinolite, chlorite Patchy K-spar, epidote, rare tremolite Serpentine, chlorite, local carbonate along shears, veins contacts... 9.34 - 10.40m Very strongly saussuritized/bleached gabbro, Plag crystal boundaries not very clear, strongest alteration in unit																				
								4	2		001	9.34	12.00	2.66	nil	nil	0.11	0.02	0.00	0.002	0.012	0.004
								2	2		002	12.00	14.10	2.10	nil	nil	0.11	0.00	0.01	0.005	0.009	0.003
								3	3		003	14.10	16.00	1.90	nil	nil	0.01	0.00	0.00	0.007	0.008	0.002
								3	2		004	16.00	17.85	1.85	nil	nil	0.00	0.00	0.00	0.011	0.006	0.002
								3	2		005	17.85	21.00	3.15	nil	nil	0.01	0.00	0.00	0.012	0.003	0.002
								3	2		006	21.00	24.00	3.00	nil	nil	0.01	0.00	0.00	0.006	0.003	0.002
								3	2		007	24.00	27.00	3.00	nil	nil	0.00	0.00	0.00	0.006	0.003	0.002
								2	2		008	27.00	30.00	3.00	nil	nil	0.01	0.00	0.00	0.008	0.003	0.002
								2	2		009	30.00	33.00	3.00	nil	nil	0.01	0.00	0.00	0.007	0.003	0.002
											010	33.00	36.00	3.00	nil	nil	0.01	0.00	0.00	0.008	0.003	0.002



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LAC DES ILES

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# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-019

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix						SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %				
103.62	146.26		<p><b>GABBRO + GABBRONORITE</b></p> <p>Mix of 60% gabbro, 30% gabbronorite, 10% melanogabbronorite (trace melanogabbro) Locally magnetic (weak) Green-grey --&gt; dark green-grey, mottled Medium grained, local foliation at 60-70° to core axis Very patchy, very weak mineralization</p> <p>105.42 - 105.72m Diabase dike, black, fine grained, magnetic Top contact, dextral offset - contact at 75°, offset at 50° Bottom contact 80°, irregular</p> <p>Plag 40-60%, Cpx 35-55%, Opx 5-20%, magnetite trace to 3% Opx slowly increases with depth to 135m, then decreases Magnetite strongest in middle of unit, less at each end Relatively massive down to approx. 130m, then brittle shears, dikes...</p> <p>129.77 - 133.00m Shear/alteration zone, shears dip steeply northwest Numerous light pink/cream coloured felsic dikes - especially 130.21 - 130.62m, pink anorthosite dike &gt;90% Plag, lesser epidote, trace hornblende, chlorite at contact, porous, irregular contacts with chlorite, carbonate, contacts mostly at 30-50° - series of dikes 129.85 - 130.75m - too blocky for oriented core Locally very crumbly, blocky - drill induced Occasional quartz veins Strong epidote, saussurite, hematite alteration throughout zone, shears mostly at 50, 30°; increased carbonate/chlorite than elsewhere in unit</p>	2	2			034	103.62	105.40	1.78	tr	nil	0.01	0.00	0.00	0.008	0.004	0.002			
						035	105.40	108.00	2.60	tr	nil	0.01	0.00	0.00	0.008	0.005	0.002					
						036	108.00	111.00	3.00	tr	nil	0.01	0.00	0.00	0.007	0.005	0.002					
						037	111.00	114.00	3.00	tr	nil	0.06	0.00	0.00	0.012	0.005	0.002					
						038	114.00	117.00	3.00	tr	nil	0.01	0.00	0.00	0.007	0.005	0.002					
						039	117.00	120.00	3.00	tr	nil	0.01	0.00	0.01	0.009	0.006	0.002					
						040	120.00	123.00	3.00	tr	nil	0.02	0.00	0.00	0.007	0.004	0.002					
						041	123.00	126.00	3.00	tr	nil	0.01	0.00	0.00	0.006	0.004	0.002					
						042	126.00	129.00	3.00	tr	nil	0.01	0.00	0.00	0.006	0.004	0.002					
						043	129.00	132.00	3.00	tr	nil	0.03	0.00	0.00	0.005	0.004	0.002					
						044	132.00	135.00	3.00	tr	nil	0.02	0.00	0.00	0.006	0.004	0.001					
						045	135.00	138.00	3.00	tr	nil	0.01	0.00	0.01	0.006	0.005	0.002					
						046	138.00	141.00	3.00	tr	nil	0.01	0.00	0.00	0.006	0.005	0.002					
						047	141.00	144.00	3.00	tr	nil	0.02	0.00	0.00	0.007	0.005	0.002					
						048	144.00	146.26	2.26	tr	nil	0.01	0.00	0.00	0.007	0.004	0.001					

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-019

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
103.62	146.26		<b>GABBRO + GABBRONORITE (continued)</b>  Massive gabbro with minor melanogabbro, melanogabbronorite to 146.26m Sharp irregular contact, >75°															
146.26	168.46	<b>VARITEXTURED GABBRO</b>  Coarse to very coarse grained (medium grained --> pegmatitic) All shades of grey/green and black; mottled Predominantly coarse to very coarse grained gabbro, local coarse to very coarse grained gabbronorite, occasional medium grained pyroxenite Plag <10% (pyroxenite) to 60%; Cpx 40 to >90%, Opx trace to 35%, increases with depth, trace magnetite Weak to moderate saussuritization, very patchy K-spar Moderate actinolite, local moderate to intense tremolite Patchy talc, as rims on tremolite altered pyroxenes Local moderate to intense epidote +/- epidote chlorite zones, in shears - >50° to core axis and as coarse epidote crystal aggregates 146.26 - 151.75m Shear zone with strong chlorite, epidote alteration Shears at at >50° to core axis Below 159.00m occasional diabase fragments to xenoliths, not dikes - not enough variety yet to change from varitextured to breccia	3	3			049	146.26	148.13	1.87	tr	nil	0.17	0.03	0.01	0.019	0.014	0.004
			3	3			050	148.13	150.00	1.87	0.25	1:2	0.20	0.03	0.00	0.007	0.013	0.003
			3	3			051	150.00	153.00	3.00	tr	nil	0.20	0.02	0.01	0.005	0.011	0.002
			3	3			052	153.00	156.00	3.00	tr	nil	0.14	0.03	0.00	0.003	0.009	0.002
			3	3			053	156.00	159.00	3.00	0.25	1:1	0.76	0.04	0.01	0.002	0.008	0.001
			3	3			054	159.00	162.00	3.00	tr	nil	0.91	0.09	0.02	0.004	0.008	0.002
			3	3			055	162.00	164.15	2.15	tr	nil	0.08	0.01	0.02	0.004	0.006	0.001
			3	3			056	164.15	166.30	2.15	tr	nil	0.11	0.02	0.05	0.004	0.006	0.001
			3	3			057	166.30	168.46	2.16	tr	nil	2.15	0.16	0.04	0.010	0.007	0.001



# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-019

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
146.26	168.46	<b>VARITEXTURED GABBRO</b>  Overall unit has poor mineralization Tremolite more intense with depth, silvery, platey, occasionally with chlorite rims Rocks become almost soapy  Gradational contact, based on fragment boundaries, shear																
168.46	201.31	<b>HETEROLITHIC GABBRONORITE BRECCIA, ALTERED</b>  Moderately to very intensely altered Fine grained - pegmatitic All colours Plag <5-70%, Cpx 30-70%, Opx 5-45%, trace magnetite (patchy) Moderate to intense tremolite, actinolite, local moderate to strong saussurite, epidote, chlorite present in shears and as rims on pyroxene crystals Local talc rims, rocks locally with soapy feel, moderate serpentine 168.46 - 170.23m Best (only!) sulfide, in, or proximal to strongest alteration (either tremolite/talc, or epidote) Alteration zones: 168.46 - 170.23m (tremolite/talc); 177.7 - 178.0m (epidote, actinolite); 181.50 - 182.40m (tremolite, chlorite) Unit starts in weak shear 168.46 - 168.60m, 50° to core axis; dips shallowly to south	4	4	M	<10	058	168.46	171.00	2.54	0.50	1:2	2.72	0.10	0.04	0.010	0.008	0.001
			3	3	M	<10	059	171.00	174.00	3.00	tr	nil	0.27	0.03	0.01	0.005	0.006	0.001
			3	3	M	<10	060	174.00	177.00	3.00	tr	nil	1.89	0.15	0.02	0.007	0.007	0.001
			3	3	M	<10	061	177.00	180.00	3.00	0.25	1:1	0.19	0.02	0.00	0.003	0.008	0.001
			3	3	M	<10	062	180.00	183.00	3.00	tr	nil	1.20	0.10	0.01	0.006	0.009	0.002
			3	3	M	<10	063	183.00	186.00	3.00	tr	nil	2.18	0.19	0.05	0.005	0.011	0.002
			3	3	M	<10	064	186.00	189.00	3.00	0.50	1:1	0.41	0.08	0.29	0.075	0.077	0.002
			3	3	M	<10	065	189.00	192.00	3.00	1.00	2:3	0.36	0.06	0.16	0.063	0.079	0.003





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU		
<b>HOLE NO.:</b> 00-027	<b>LENGTH: (m)</b> 237.00m	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b> Core stored at Lac des Iles mine site	
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b> 32483.18	<b>EASTING:</b> 32143.5				
<b>SECTION:</b> 1000NR	<b>ZONE:</b> N. Roby	<b>ELEVATION:</b> 508.33				<b>DATE LOGGED:</b> June 18-21, 2000	
<b>COLLAR ORIENTATION (AZIMUTH / DIP); PLANNED:</b> 307/-60		<b>SURVEYED:</b> 306.550/-60.229					<b>LOGGED:</b> K. Nelson
<b>HOLE STARTED:</b> 14-Jun-00	<b>HOLE FINISHED:</b> 16-Jun-00	<b>MAG DECLINATION:</b> 2.1° w					<b>SIGNATURE:</b> <i>[Signature]</i>
						<b>SHEET</b> 1	<b>OF</b> 18

METERAGE		DESCRIPTION	Rock Code	Bx Matrix				SAMPLES					ASSAYS						
FROM	TO			Alt <sup>n</sup>	Comp		Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr														
0.00	3.00	CASING/OVERBURDEN																	
3.00	12.02	ALTERED AND FAULTED COARSE GRAINED GABBRO																	
		Coarse grained. Moderate greyish-green, bleached looking in large parts, well mottled orangey-pink (Plag alteration) and mottled yellowy-green from saussurite alteration.																	
		Equigranular.																	
		Weakly foliated at 50-60° to core axis.																	
		Moderate actinolite, strong potassium feldspar, weak to patchy moderate saussurite alteration.																	
		Just about equal proportions of Plag and Cpx, 45-55% of each.																	
		Core is fractured and sheared probably due to the underlying dike.																	
		Only trace disseminated pyrite throughout.																	
		5.46m - 5.78m - Fault zone -																	
		Core in small pieces with clayey gouge. Upper contact sharp at 20° to core axis.																	
		6.44m - Start of a 1 cm wide fault filled with clay																	
		7.34m - 30 cm of small core pieces with clayey gouge.																	
		10.44m - 2 cm shear zone (clayey) at the top of a piece of the underlying dike. Alteration extends for 8 cm down core including minor reddish iddingsite.																	
		Shear contact sharp at 40° to core axis.																	















# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-027

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
38.78	89.13	<p><b>MEDIUM GRAINED GABBRO (MAGNETIC) (continued)</b></p> <p>Some highly altered areas where grains blur together and some areas which are weakly foliated and bleached. Sulfide content also picks up, especially in the 87.70m - 88.58m range(&lt; 0.25% here).</p> <p>88.58m - 88.95m - Quartz vein. Upper contact is irregular and wavy but averages approximately 20° to core axis. Contains 10-20% gabbro wall rock inclusions. Lower contact very irregular.</p> <p>88.95m - 89.13m - Quartz-gabbro breccia. Fine grained gabbroic rock is brecciated by 25-30% quartz vein material. Sharp bottom contact at 45° to core axis.</p>																
89.13	105.25	<p><b>VARITEXTURED GABBRONORITE (COARSE GRAINED)</b></p> <p>Dark greyish-green to mottled with purplish-pink. Generally coarse grained with enough sections of very coarse and medium grained to make it varitextured. Generally typical gabbronorite with both Plag content and pyroxene content varying 40-60% (only 1 melano section approximately 25 cm long near the top of the unit). Opx is 10-20%.</p> <p>Unlike previous section, it is not magnetic. Alteration is generally moderate actinolite, moderate tremolite. Weak to patchy moderate purplish-pink potassium feldspar alteration.</p> <p>Weak to occasional moderate patchy yellowy-green saussurite alteration.</p>					034	89.13	91.20	2.07	tr		0.59	0.07	0.00	0.004	0.011	0.003
			3	3			035	91.20	93.39	2.19	tr		0.12	0.03	0.00	0.003	0.006	0.002
			2	3			036	93.39	95.89	2.50	tr		0.11	0.05	0.00	0.002	0.007	0.002
			2	3			037	95.89	96.43	0.54	tr		0.34	0.04	0.01	0.002	0.008	0.002
			2	3			038	96.43	97.45	1.02	tr		0.04	0.02	0.00	0.008	0.007	0.002
			3	3			039	97.45	100.00	2.55	tr		0.11	0.04	0.00	0.002	0.009	0.002
			3	3			040	100.00	102.00	2.00	tr		0.10	0.05	0.00	<0.001	0.009	0.002
			3	3			041	102.00	104.41	2.41	tr		0.15	0.05	0.00	0.001	0.009	0.002
			2	2			042	104.41	105.27	0.86	tr		0.01	0.00	0.00	0.008	0.008	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-027

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
105.27	124.62	<p><b>HETEROLITHIC VARITEXTURED GABBRONORITE BRECCIA</b></p> <p>This unit is composed mainly of the varitextured coarse grained gabbonorite similar to the previous section, but is broken up by "clasts" of pyroxenite, norite and melanogabbonorite. The gabbonorite makes up approximately 70% of the unit and has moderate actinolite, moderate tremolite and weak to moderate purplish-pink potassium feldspar.</p> <p>Also has small patches of weak to moderate saussurite. Since it's a heterolithic breccia, the percentage of minerals varies widely. Plag 5-70%, pyroxene 30-95%. One note though is that the amount of Opx is higher here than in the previous section - within the gabbonorite sections tremolite is 15-25%, and brown Opx can be as high as 40% in some almost noritic "clasts".</p> <p>Generally only weakly magnetic with some of the strong brown Opx section strongly magnetic. The "clasts" have sharp contacts with the gabbonorite.</p> <p>Only occasional felsic dikelets (up to 1 cm) at variable angles within the gabbonorite.</p> <p>Top contact sharp at 55° to core axis, and taken where last micro gabbro dike ends and brecciation starts.</p> <p>105.28m - 4cm long stringer of chalcopyrite blebs (along microfractures) very fine grained.</p> <p>105.41m - 106.28m - Greenish-black pyroxenite "clast" . Last 15-20 cm is fractured into small pieces with minor amount of clay.</p> <p>109.67m - 109.82m - Zone of intense shearing at 60-70° to core axis. One fracture within this zone has clayey material.</p>	2	3	G-N	5%	043	105.27	106.28	1.01	tr		9.42	0.50	0.20	0.011	0.025	0.004
			2	3	G-N	60%	044	106.28	108.00	1.72	tr	3.58	0.32	0.03	0.001	0.014	0.002	
			2	3			045	108.00	111.00	3.00	tr	1.92	0.19	0.02	0.003	0.013	0.002	
			3	3	G-N	90%	046	111.00	114.00	3.00	tr	2.21	0.18	0.01	0.003	0.010	0.002	
			3	3	G-N	75%	047	114.00	117.00	3.00	tr	3.27	0.22	0.02	0.003	0.011	0.002	
			3	3	G-N	90%	048	117.00	120.00	3.00	tr	1.56	0.17	0.17	0.009	0.012	0.002	
			3	3	G-N	90%	049	120.00	123.00	3.00	tr	0.32	0.07	0.04	0.010	0.012	0.002	
			3	3	G-N	30%	050	123.00	124.62	1.62	tr	1:4	0.14	0.12	0.08	0.037	0.031	0.002













# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-027

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
160.00	180.09	<b>VARITEXTURED GABBRONORITE BRECCIA (continued)</b>																
		177.74m - Fracture with clayey gouge at 20° to core axis and a second one 2cm downhole.																
		178.95m - 179.55m - Highly sheared/laminated felsic dike with minor inclusions of wall rock. Sections of strong orangey-pink potassium feldspar alteration and lesser amount of saussurite alteration. Biotite-hornblende tonalite (?) Sharp upper contact at 40° to core axis, and sharp lower contact at 25° to core axis. Shearing within generally 40-45° to core axis. Bottom contact sharp and taken where consistently coarse grained appears.																
180.09	190.85	<b>COARSE GRAINED GABBRONORITE</b>																
		Coarse grained and generally consistent looking. Minor amounts of varitexturing (very coarse and medium grained). Moderate greyish-green colour. About equal amounts of Plag and pyrite. Plag 45-55%, Opx 10-30% Cpx 20-40%. Moderate actinolite, moderate tremolite, (almost all Opx is tremolite, not the fresher brown variety) Weak and moderate purplish-pink potassium feldspar alteration. Crystal outlines are well altered and core, again, has a lighter, bleached look.																
			2	3			073	180.09	183.02	2.93	tr		0.10	0.05	0.00	0.004	0.009	0.002
			3	3			074	183.02	186.00	2.98	tr		0.18	0.06	0.00	0.005	0.011	0.003
			3	3			075	186.00	189.00	3.00	nil		0.43	0.09	0.00	0.002	0.010	0.002
			3	3			076	189.00	190.86	1.86	tr		0.08	0.05	0.00	<0.001	0.009	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-027

LOGGED BY: K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
180.09	190.85	<p><b>COARSE GRAINED GABBRONORITE (continued)</b></p> <p>Patchy weak to moderate saussurite alteration. Only structures are a couple of mm sized felsic dikelets with brownish (biotite) alteration.</p> <p>182.95m - 3 cm felsic dike, sheared/laminated, sharp upper and lower contacts at 30° to core axis.</p> <p>184.06m - 184.17m - Strongly sheared/laminated. Apple-green colour to much of the core with strong brownish-red staining (iddinsite?) and strongly calcereous. Sharp top and bottom contacts and shearing at 45° to core axis.</p> <p>185.02m - 185.06m - 3cm thick diabase dike Plag porphyritic diabase dikelet. Magnetic, greenish-black, fine grained, approximately 10-15% tiny, anhedral Plag crystals. Bottom contact sharp where first section of medium grained appears at 25° to core axis.</p>																
190.85	206.63	<p><b>VARITEXTURED GABBRONORITE (MEDIUM GRAINED)</b></p> <p>About 60-70 % of the unit is medium grained with short (&lt;0.5m) of equigranular material. The rest of the core is short (2-20cm long) sections of coarse to very coarse grained core. These sections generally grade in and out of each other.</p> <p>Dark greyish-green (darker than previous unit). Generally 45-55% Plag, Opx is 15-30% ( higher content</p>	3	3			077	190.86	192.69	1.83	tr		0.89	0.06	0.01	0.006	0.011	0.002
			3	3			078	192.69	194.00	1.31	tr	1:3	1.04	0.25	0.41	0.046	0.036	0.003
			2	3			079	194.00	196.67	2.67	tr	1:4	0.12	0.08	0.20	0.043	0.043	0.004
			2	3			080	196.67	199.38	2.71	tr	1:4	0.36	0.09	0.13	0.043	0.031	0.004
			2	3			081	199.38	201.00	1.62	tr	1:3	0.34	0.09	0.17	0.146	0.113	0.006
			2	3			082	201.00	202.52	1.52	tr	1:2	0.12	0.04	0.08	0.055	0.035	0.003
			2	3			083	202.52	204.19	1.67	tr	1:3	0.09	0.03	0.03	0.035	0.026	0.003
			3	3			084	204.19	206.63	2.44	tr	1:4	0.06	0.07	0.12	0.055	0.036	0.003



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE N. Roby HOLE # 00-027

LOGGED BY: K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
190.85	206.63		<p><b>VARITEXTURED GABBRONORITE (MEDIUM GRAINED) (continued)</b></p> <p>Bottom of unit is taken where the more consistently medium grained gabbronorite appears. Contact is gradational and approximate as there are short units of the varitexturing in the lower unit.</p>															
206.63	237.00	<p><b>MEDIUM GRAINED GABBRONORITE</b></p> <p>EOH</p> <p>Same medium grained gabbronorite as described in the previous section but it has graded into a moderately equigranular medium grained unit with only approximately 10% coarse grained varitexturing.</p> <p>From dark greyish-green mottled to purplish-pink to brown-green. Purplish-pink potassium feldspar alteration is a bit stronger in this unit.</p> <p>Mineralization as described above to 210.98m and then is mainly just very trace as tiny disseminations to the end of hole.</p> <p>208.41m - 3-4 cm wide, sheared/foliated felsic dike with sharp contacts at 30° (upper) and 20° (lower). Well altered. Probably a biotite-hornblende-tonalite dike.</p> <p>218.70m - 219.50m - Weak to moderate patchy saussurite alteration.</p> <p>235.00m - 235.45m - Parallel fractures with a small amount of clay at 30-35° to core axis.</p>																
			3	3			085	206.63	208.73	2.10	tr	1:3	0.06	0.10	0.11	0.043	0.036	0.003
			3	3			086	208.73	210.98	2.25	0.25	1:3	0.11	0.10	0.16	0.091	0.063	0.004
			3	3			087	210.98	213.00	2.02	tr		0.02	0.06	0.05	0.020	0.016	0.002
			3	3			088	213.00	216.00	3.00	tr	1:1	0.06	0.08	0.04	0.016	0.013	0.002
			3	3			089	216.00	219.00	3.00	tr		0.06	0.06	0.02	0.008	0.010	0.002
			3	3			090	219.00	222.00	3.00	tr		0.09	0.08	0.02	0.010	0.010	0.002
			3	3			091	222.00	225.00	3.00	tr		0.15	0.10	0.04	0.016	0.016	0.002
			3	3			092	225.00	228.00	3.00	tr		0.06	0.02	0.02	0.013	0.013	0.002
			3	3			093	228.00	231.00	3.00	tr		0.04	0.00	0.01	0.007	0.009	0.002
			3	3			094	231.00	234.00	3.00	tr		0.04	0.00	0.01	0.010	0.009	0.002
			3	3			095	234.00	237.00	3.00	tr		0.03	0.03	0.01	0.006	0.008	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY: LAC DES ILES	CLAIM NUMBER: 253	DOWNHOLE SURVEY METHOD: Maxibor			DRILLING COMPANY: CHIBOUGAMAU	
HOLE NO.: 00-033	LENGTH: (m) 258m	CORE SIZE: NQ	DEPTH	DIP	AZM	REMARKS: Core stored at Lac des Iles mine site
LOCATION - <u>MINE GRID</u>	NORTHING: 32522.037	EASTING: 32142.547				
SECTION: 1100 NR	ZONE: N. Roby	ELEVATION: 506.879				DATE LOGGED: June 22-26, 2000
COLLAR ORIENTATION (AZIMUTH / DIP);	PLANNED: 307	SURVEYED: 306.165				LOGGED: K. Nelson SIGNATURE: <i>[Signature]</i>
HOLE STARTED: 16-Jun-00	HOLE FINISHED: 19-Jun-00	MAG DECLINATION: 2.1° w				SHEET 1 OF 14

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS									
FROM	TO			Alt <sup>n</sup>	Bx Matrix													
			Plag	Pxr	Comp	Prop	No.	FROM	TO	LENG	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
0.00	2.70	OVERBURDEN/CASING																
2.70	58.27	<b>MEDIUM GRAINED GABBRO (magnetic)</b> Dark greyish green with most of unit having the purplish-pink color to it. Mostly medium grained, equigranular with a few patches of coarser grained. The core is consistently magnetic. Equal amounts of Plag and pyroxene. Plag 45-55%, Cpx 45-55%. Grains are moderately altered. Weak to moderate actinolite, mostly moderate to weak purplish-pink (potassium feldspar) alteration to Plag. Patchy weak saussurite throughout. Fairly homogeneous unit with few structures - <5% mm to 1 cm thick felsic dikelets +/- brownish (biotite) alteration. Similar to the medium grained gabbro near top of holes 00-015 and 00-027 but has more sections which grade through white Plag instead of the purplish-pink alteration. Mineralization is very weak - trace (a few specks here and there) of very fine grained pyrite disseminations throughout. Hairline black to light green (with clay) fractures, generally healed. Pyrite occurs as "stringers", along fractures. 8.10m - 8.90m - approximately 25% of unit is blebs/splays of the underlying dike. Sharp, irregular contacts. 8.90m - 9.44m - Black, very fine grained, diabase dike. Magnetic, moderately foliated at 25-30° to core axis. Contacts the same.																
			3	3			001	2.70	5.57	2.87	tr		0.01	0.00	0.00	0.009	0.004	0.002
			3	3			002	5.57	8.10	2.53	tr		0.01	0.00	0.00	0.010	0.004	0.002
			3	3			003	8.10	9.44	1.34	tr		0.00	0.00	0.00	0.008	0.002	0.002
			3	3			004	9.44	12.00	2.56	tr		0.01	0.00	0.00	0.010	0.004	0.002
			3	3			005	12.00	15.00	3.00	tr		0.01	0.00	0.00	0.009	0.004	0.002
			3	3			006	15.00	18.00	3.00	tr		0.01	0.00	0.00	0.008	0.003	0.001
			3	3			007	18.00	21.00	3.00	tr		0.01	0.00	0.00	0.005	0.003	0.001
			3	3			008	21.00	24.00	3.00	tr		0.01	0.00	0.00	0.007	0.003	0.001
			3	3			009	24.00	27.00	3.00	tr		0.01	0.00	0.00	0.009	0.005	0.002
			3	3			010	27.00	30.00	3.00	tr		0.01	0.00	0.00	0.008	0.005	0.002
			3	3			011	30.00	33.00	3.00	tr		0.01	0.00	0.00	0.011	0.005	0.002
			3	3			012	33.00	36.00	3.00	tr		0.01	0.00	0.00	0.007	0.005	0.002
			3	3			013	36.00	39.00	3.00	tr		0.01	0.00	0.00	0.007	0.005	0.002
			3	3			014	39.00	41.63	2.63	tr		0.02	0.00	0.00	0.006	0.004	0.001
			3	3			015	41.63	42.43	0.80	tr		0.01	0.00	0.00	0.009	0.003	0.002
			3	3			016	42.43	45.00	2.57	tr		0.02	0.00	0.00	0.006	0.004	0.002
			3	3			017	45.00	48.00	3.00	tr		0.01	0.00	0.00	0.005	0.004	0.001
			3	3			018	48.00	51.00	3.00	tr		0.02	0.00	0.00	0.005	0.004	0.001
			3	3			019	51.00	54.00	3.00	tr		0.02	0.00	0.00	0.005	0.004	0.001
			3	3			020	54.00	56.33	2.33	tr		0.02	0.00	0.00	0.006	0.004	0.001
			3	3			021	56.33	58.27	1.94	tr		0.02	0.00	0.00	0.008	0.005	0.002















# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-033

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
105.85	108.13		<p><b>DIABASE DIKE</b></p> <p>Very fine grained, black, magnetic, equigranular. Trace amount of pyrite as disseminations and slight concentrations. Upper contact sharp at 20° to core axis, lower contact sharp at 20° to core axis.</p> <p>105.90m - 106.50m - Pod/dike of tonalite within the diabase dike. Top part is coarse Plag porphyritic which changes down hole into a finer grained diorite(?) speckled with tiny dark mafic flecks and further down hole, the unit becomes darker in color from a high concentration of mafic specks. Splays of the diabase are elongated into the tonalite. General trace pyrite only, but also very trace chalcopyrite in tonalite part.</p> <p>107.10m - 107.21m - Irregular dike of coarser, Plag porphyritic tonalite. Contacts are very sharp but wavy with pieces of diabase dike pulled into it.</p>															
			nil	2			043	105.85	108.13	2.28	nil		0.01	0.00	0.02	0.014	0.003	0.002
108.13	121.22	<p><b>VARITEXTURED GABBRONORITE WITH MICRO GABBRONORITE DIKES</b></p> <p>Unit matrix is same gabbronorite varitextured as previous unit but it is broken up by sections of fine grained gabbronorite (to melanogabbronorite) with sharp contacts. Overall, the unit is dark greyish-green with moderate actinolite and tremolite alteration and weak to patchy moderate potassium feldspar. The unit has the same varitexturing as the previous with short patches of alternating grain sizes up to very coarse grained porphyritic. Fine grained, dark greyish-green sections break up the unit as well as other hairline faults within the gabbronorite.</p>	2	2			044	108.13	109.60	1.47	0.25		0.11	0.01	0.02	0.017	0.009	0.003
			2	2			045	109.60	111.33	1.73	0.25		0.12	0.02	0.02	0.017	0.008	0.002
			2	2			046	111.33	112.36	1.03	tr		0.03	0.00	0.01	0.009	0.008	0.002
			2	3			047	112.36	114.43	2.07	tr-0.25		0.15	0.02	0.02	0.018	0.014	0.003
			2	3			048	114.43	117.00	2.57	tr		0.11	0.01	0.02	0.012	0.010	0.002
							049	117.00	118.48	1.48	tr		0.09	0.01	0.01	0.004	0.008	0.001
			2	2			050	118.48	120.03	1.55	tr		0.01	0.01	0.00	0.006	0.016	0.002
			3	3			051	120.03	121.22	1.19	tr		0.06	0.01	0.00	0.004	0.007	0.001

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-033

LOGGED BY: K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
108.13	121.22	<p><b>VARITEXTURED GABBRONORITE WITH MICRO GABBRONORITE DIKES (continued)</b></p> <p>Occasional ≤ 1 cm felsic dikelets, randomly oriented. Spotty bluish, irregular, free quartz, relatively fresh looking. Pyrite is generally trace over sample lengths, but does occur in short concentrations (I.e. more than just a speck here and there), possible trace chalcopyrite.</p> <p>109.88m - 1.5 - 2.5 cm wide dikelet with a diabase centre and felsic dikelet edges. Sharp contacts at 25° to core axis.</p> <p>111.33m - 112.36m - Micro gabbronorite dike with sharp upper contact at 20° to core axis and sharp lower contact at 40° to core axis.</p> <p>113.80m - 2 cm wide hornblende-tonalite dikelet at 30° to core axis.</p> <p>118.48m - 120.03m - Micro gabbronorite dike with sharp contacts at 20° (upper) and 35° (lower) and they are wavy.</p> <p>120.03m - 121.22m - Weak to moderate saussurite alteration along length of core.</p>																
121.22	123.84	<p><b>DIABASE DIKE</b></p> <p>Black, very fine grained, magnetic diabase dike, relatively unaltered. Mainly trace pyrite.</p> <p>121.22m - 122.08m - Section is a mafic rich, diorite, slightly brecciated by a coarser grained section within a finer grained, "salt and pepper" looking section. Trace chalcopyrite?</p>																
			2	2			052	121.22	123.84	2.62	tr		0.01	0.00	0.01	0.014	0.004	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-033

LOGGED BY: K. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
137.52	179.05	<b>BRECCIATED VARITEXTURED GABBRONORITE</b>																
		<p>Gabbronorite is similar to the previous section except that it's been brecciated by short sections of fine grained to lesser medium grained gabbronorite. Varies from dark greyish-green to light greyish-green to brownish-green depending on alteration which varies from weak to moderate actinolite and tremolite. The short brecciating sections have sharp contacts and are generally less than 30 cm in length. About 75% of the unit is brecciated this way with the rest being fairly regular varitextured gabbronorite. The core is often magnetic but not always. Still an overall trace amount of pyrite but does concentrate in some areas up to 0.5% and also follows along fractures. The chalcopyrite and pyrrhotite tend to be bleby (up to 0.5 cm) to disseminated fine grained. Up to 5% breccia by felsic dikes/pods in some sections.</p>	3	3-4	G-N	20	058	137.52	140.14	2.62	tr		0.25	0.03	0.01	0.006	0.010	0.002
			3	3-4	G-N	10	059	140.14	143.00	2.86	tr		0.22	0.04	0.02	0.008	0.011	0.002
			3	3-4	G-N	10	060	143.00	145.84	2.84	tr		0.18	0.04	0.01	0.006	0.010	0.001
			3	3			061	145.84	148.09	2.25	0.25		0.24	0.04	0.07	0.042	0.032	0.004
			3	3	G-N	10	062	148.09	150.00	1.91	0.25		0.27	0.04	0.04	0.037	0.026	0.003
			3	3	G-N	25	063	150.00	153.00	3.00	tr		0.45	0.05	0.02	0.014	0.012	0.001
			3	3	G-N	10	064	153.00	154.30	1.30	tr		0.62	0.04	0.02	0.012	0.011	0.001
			2	3	G-N	10	065	154.30	156.00	1.70	tr	1:2	0.05	0.00	0.02	0.016	0.010	0.002
			2	3	G-N	10	066	156.00	159.00	3.00	tr	1:2	0.34	0.07	0.03	0.016	0.013	0.002
			3	3	G-N	10	067	159.00	162.00	3.00	0.25	1:3	0.71	0.07	0.02	0.005	0.013	0.002
			3	3	G-N	25	068	162.00	165.00	3.00	0.25	1:3	0.47	0.11	0.17	0.030	0.033	0.002
			3	3	G-N	25	069	165.00	168.00	3.00	tr		0.03	0.01	0.05	0.028	0.026	0.002
			3	3	G-N		070	168.00	171.00	3.00	tr	1:2	0.05	0.02	0.08	0.033	0.023	0.002
		3	3	G-N	25	071	171.00	174.00	3.00	0.25	1:4	0.09	0.04	0.09	0.037	0.028	0.002	
		3	3	G-N	10	072	174.00	177.00	3.00	tr		0.07	0.02	0.04	0.014	0.010	0.001	
		3	3	G-N	5	073	177.00	179.05	2.05	tr	1:1	0.08	0.02	0.02	0.014	0.010	0.002	
		135.72m - 145.85m -	Alteration zone with foliation/shearing to the gabbronorite, occasional 5-10 cm felsic dikes (tonalite) and bleaching. Weak saussurite alteration. Felsic dikes generally have sharp contacts at approximately 50° to core axis.															
		145.23m -	Well developed and laminated shear, approximately 2 cm thick with dark orangey-pink staining and calcareous at 45° to core axis.															
		154.30m -	Core is blacker and fresher looking (I.e. doesn't have the same bleached look as above) but still altered enough for pyroxene to be a 3.															

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-033

LOGGED BY: **K. Nelson** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Coml	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
137.52	179.05	<b>BRECCIATED VARITEXTURED GABBRONORITE (continued)</b>  169.07m - 169.93m - Black, very fine grained, magnetic diabase dike. Sharp upper contact at 30° to core axis, and sharp lower contact at approximately 50° to core axis.  179.05m - Bottom contact taken where first section of medium grained starts.																
179.05	194.95	<b>BRECCIATED MEDIUM GRAINED GABBRONORITE (WEAK VARITEXTURED, MAGNETIC)</b>  Gabbronorite again. Mostly medium grained, fairly equigranular with approximately 10% varitexturing. Core is dark greyish-green to brownish-green depending on the alteration to Opx. There is a pervasive purplish-pink alteration to the Plag. There is again equal proportions of Plag and pyroxene. Plag 45-55%, Opx 15-30%, Cpx 20-40%. It is generally magnetic but there are sections which aren't. It is broken up/brecciated by approximately 20-25% fine grained sections of gabbronorite (or gabbro?). Matrix has a brownish tint but hard to tell for sure. Very few structures - occasional black hairline, healed fracture and only trace hornblende-tonalite dikelets. Weak to moderate tremolite (Opx as brown type and as translucent type), moderate actinolite, moderate to patchy weak potassic (purplish-pink) alteration to Plag. Sulfides again mostly as fine grained disseminations to slightly bleby pyrite.	3	3	G-N	20	074	179.05	180.60	1.55	tr	1:3	0.06	0.01	0.02	0.013	0.010	0.001
			3	3	G-N	0	075	180.60	183.00	2.40	tr	1:3	0.12	0.02	0.02	0.016	0.011	0.001
			3	3	G-N	30	076	183.00	186.00	3.00	0.25	1:6	0.07	0.02	0.02	0.024	0.019	0.003
			3	3	G-N	10	077	186.00	189.00	3.00	tr		0.06	0.01	0.01	0.010	0.010	0.001
			3	3	G-N	20	078	189.00	192.00	3.00	tr		0.04	0.01	0.01	0.011	0.009	0.002
			3	3	G-N	40	079	192.00	194.95	2.95	tr		0.03	0.00	0.01	0.007	0.007	0.001



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PROPERTY LDI ZONE North Roby HOLE # 00-033

LOGGED BY: K. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
179.05	194.95	<p><b>BRECCIATED MEDIUM GRAINED GABBRONORITE</b> (WEAK VARITEXTURED, MAGNETIC) (continued)</p> <p>Fine grained brecciating sections have sharp contacts with no chill margins and can be wavy, irregular. Pyrrhotite and chalcopyrite occur as interstitial blebs and as lesser disseminations.</p> <p>184.90m - 185.30m - Pyrrhotite and pyrite occur as interstitial concentrations up to 1% of the core in this section.</p> <p>At 194.95m - Bottom contact taken where varitextured coarse grained shows up again.</p>																
194.95	222.34	<p><b>BRECCIATED VARITEXTURED GABBRONORITE</b></p> <p>Dark greyish-green to brownish-green mottled with purplish-pink alteration to Plag. Predominantly coarse grained but varies to medium and very coarse porphyritic. Mostly blotchy texture (i.e. not equigranular, regular looking). Unit is 25-30% brecciated by fine grained gabbro sections (some have brownish tint) which are generally &lt;50cm in length. Same composition as previous sections.</p> <p>45-55% Plag, 15-30% Opx, 20-40% Cpx.</p> <p>Bluish, irregular free quartz occurs occasionally down to 206.88m. Sulfides fine grained disseminations to interstitial bleby.</p> <p>206.15m - 206.27m - Strong interstitial flooding of pyrrhotite with lesser pyrite and trace chalcopyrite. Sulfides total approximately 5% of length.</p>	3	3	G-N	25	080	194.95	198.00	3.05	tr		0.06	0.01	0.01	0.016	0.012	0.002
			3	3	G-N	10	081	198.00	201.00	3.00	tr		0.03	0.00	0.01	0.010	0.008	0.001
			3	3	G-N	40	082	201.00	204.00	3.00	tr		0.11	0.02	0.02	0.017	0.013	0.002
			3	3	G-N	25	083	204.00	206.88	2.88	0.25	1:10	0.20	0.03	0.01	0.019	0.017	0.003
			2	3	G-N	10	084	206.88	210.00	3.12	tr		0.10	0.02	0.00	0.003	0.009	0.002
			3	3	G-N	10	085	210.00	213.00	3.00	tr		0.10	0.02	0.01	0.004	0.009	0.002
			3	3	G-N	20	086	213.00	216.00	3.00	0.25		0.10	0.03	0.01	0.007	0.016	0.002
			2	3	G-N	30	087	216.00	219.00	3.00	.25-tr		0.15	0.05	0.01	0.012	0.024	0.003
			2	3	G-N	15	088	219.00	220.77	1.77	tr		0.24	0.06	0.01	0.005	0.013	0.002
			3	3	G-N		089	220.77	222.34	1.57	tr		0.16	0.04	0.01	0.009	0.015	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE North Roby HOLE # 00-033

LOGGED BY: K. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
194.95	222.34		<p><b>BRECCIATED VARITEXTURED GABBRONORITE (continued)</b></p> <p>206.88m - to end - Core is less altered due to Plag being fresher, white type (lost the pervasive purplish-pink alteration). The core is more greyish-green throughout.</p> <p>220.77m - 222.34m - Gabbronorite becomes fine grained and sheared (with light green shear planes). Shearing is at 40-60° to core axis. Also includes approximately 5% quartz blebs.</p>															
222.34	258.00	<p><b>TONALITE (HORNBLLENDE)</b></p> <p>Highly sheared/altered tonalite. Varies from a fairly medium grained unit to coarse grained Plag porphyritic within a quartz matrix. Fresher units are white with greenish-black, tiny hornblende speckles defining foliation. Quartz is 20-40%, hornblende is 5-15% and Plag is 50-60%.</p> <p>Some of the unit also appears fairly greyish and other sections are pink due to orange-pink potassium feldspar alteration of Plag. Overall it has a very foliated look of light grey with dark greenish-black. Patches of moderate to strong yellow green sausserite alteration appear throughout. In some cases, the core is actually gneissic with segregation of Plag and quartz. Shearing is pervasive at 45-60° to core axis. Pyrite mainly occurs in trace amounts as small crystals along fractures.</p> <p>226.45m - 227.25m - Very strong orangey potassium feldspar alteration with very strong shearing.</p>	3	3			090	222.34	225.00	2.66	tr		0.00	0.00	0.00	0.001	0.001	0.000
			3-4	3			091	225.00	228.00	3.00	nil		0.01	0.00	0.00	0.003	0.002	0.001
			3	3			092	228.00	231.00	3.00	nil		0.00	0.00	0.01	0.002	0.001	0.001
			3	3			093	231.00	234.00	3.00	tr		0.00	0.00	0.00	0.002	0.001	0.001
			3	3			094	234.00	235.98	1.98	nil		0.00	0.00	0.00	0.002	0.001	0.001
			4	4			095	235.98	237.20	1.22	nil		0.00	0.00	0.00	0.001	0.002	0.001
			3	3			096	237.20	240.00	2.80	tr		0.00	0.00	0.00	0.001	0.001	0.001
			3	3			097	240.00	243.00	3.00	tr		0.00	0.00	0.00	0.001	0.000	0.001
			3	3			098	243.00	246.00	3.00	tr		0.00	0.00	0.00	0.001	0.001	0.001
			3	3			099	246.00	249.00	3.00	nil		0.00	0.00	0.00	0.002	0.001	0.001
			3	3			100	249.00	252.00	3.00	nil		0.00	0.00	0.00	0.001	0.001	0.001
			3	3			101	252.00	255.00	3.00	tr		0.00	0.00	0.00	0.007	0.001	0.001
			3	3			102	255.00	258.00	3.00	tr		0.00	0.00	0.00	0.005	0.001	0.000



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU
<b>HOLE NO.:</b> 00-062	<b>LENGTH: (m)</b> 528	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>
<b>LOCATION - MINE GRID</b>	<b>NORTHING:</b> 31758.44	<b>EASTING:</b> 32414.4	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>
<b>SECTION:</b> 498N	<b>ZONE:</b> Twilight	<b>ELEVATION:</b> 500.058	<b>REMARKS:</b> Core stored at Lac des Iles mine site		
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>	<b>PLANNED:</b> 251°/-46°	<b>SURVEYED:</b> 250.475/-45.207	<b>DATE LOGGED:</b> 12-May--17-May-00		
<b>HOLE STARTED:</b> 11-May-00	<b>HOLE FINISHED:</b> 16-May-00	<b>MAG DECLINATION:</b> 2.1° w	<b>LOGGED:</b> B. Nelson		
			<b>SIGNATURE:</b> <i>[Signature]</i>		
			<b>SHEET 1 OF 19</b>		

METERAGE		DESCRIPTION	Rock Code	SAMPLES						ASSAYS											
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
			Plag	Px	Comp	Prop <sup>r</sup>															
0.00	9.70	<b>OVERBURDEN</b>																			
9.70	13.40	<b>GABBRO / EAST GABBRO</b>  Medium grained, slightly greenish-buff-grey, very hard, massive, not magnetic and equigranular, minor medium grained epidote 65% plag and 35% Cpx Weak alteration of Cpx to actinolite Weak alteration of Plag No visible sulfides					1	1		001	9.70	12.00	2.30	nil		0.02	0.00	0.00	0.005	0.005	0.002
							1	1		002	12.00	13.40	1.40	nil		0.01	0.00	0.00	0.004	0.004	0.001
13.40	20.25	<b>DIABASE DIKE</b>  Very fine grained, dark grey, very hard, moderately magnetic, very locally weakly Plag porphyritic, moderate erratic buff green (epidote rich) stringers and veinlets, locally foliated to pseudo-banded at 50° to core axis Trace to minor fine grained disseminated to stringer pyrite Locally moderately fractured at various degrees to core axis Sharp contact at 13.4m at 65° to core axis Sharp contact at 20.25m at 60° to core axis								003	13.40	15.00	1.60	tr		0.00	0.00	0.00	0.016	0.004	0.002
										004	15.00	18.00	3.00	0.25		0.00	0.00	0.01	0.019	0.004	0.003
										005	18.00	20.25	2.25	tr		0.01	0.00	0.00	0.014	0.005	0.003



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LAC DES ILES

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# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-062

LOGGED BY: **B. Nelson** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
13.40	20.25	<b>DIABASE DIKE (continued)</b>  18.15m - 18.70m Gabbro Xenolith - saussuritized Plag 19.40m- 19.90m Brittle fracture of diabase defined by strong Plag-epidote stringers plus medium grained gabbro																
20.25	23.30	<b>GABBRO / EAST GABBRO</b>  Medium grained, slightly greenish-grey, hard, not magnetic, equigranular, moderate medium grained epidote, trace fine grained disseminated pyrite Same as section 9.7 to 13.4m Gradational contact at 23.3m At 21.80m -10cm wide pyroxenite fragment, 1% fine grained disseminated pyrite	1	1			006	20.25	23.30	3.05	0.25		0.10	0.00	0.00	0.010	0.007	0.002
23.30	34.40	<b>LEUCOGABBRO</b>  Medium grained to coarse grained, grey, very hard, not magnetic, moderate medium grained matrix plus stringer epidote, mafic component increases towards bottom of unit, very irregular contact at 34.4m 10-30% Cpx, 70-90% Plag Moderate alteration of Cpx to actinolite Moderate alteration of Plag Trace fine grained disseminated pyrite	1	1			007	23.30	25.00	1.70	tr		0.12	0.01	0.00	0.003	0.003	0.001
			1	1			008	25.00	27.00	2.00	tr		0.30	0.02	0.00	0.005	0.007	0.001
			1	1			009	27.00	30.00	3.00	tr		0.64	0.05	0.00	0.006	0.010	0.001
			1	1			010	30.00	33.00	3.00	tr		0.51	0.04	0.00	0.011	0.012	0.001
			1	1			011	33.00	34.40	1.40	tr		1.32	0.11	0.03	0.023	0.030	0.002





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METERAGE		DESCRIPTION	Alt <sup>m</sup>		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxr	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
152.70	160.90	<b>MELANOGABBRONORITE</b>  Medium grained, dark slightly brownish-greenish grey, hard, moderately magnetic and relatively equigranular 30-50% Opx, 10-40% Cpx, 20-35% Plag Moderate to local strong alteration of Opx Moderate to strong alteration of Cpx to actinolite Moderate alteration of Plag Minor to 0.5% sulfide mineralization predominantly as fine grained disseminated chalcopyrite plus associated pyrite	2	2	053	152.70	156.00	3.30	0.25		0.19	0.03	0.02	0.023	0.019	0.003
			2	2	054	156.00	159.00	3.00	0.50		0.22	0.03	0.04	0.064	0.036	0.004
			2	2	055	159.00	160.90	1.90	0.50		0.24	0.04	0.03	0.061	0.040	0.006
160.90	166.20	<b>PYROXENITE</b>  Medium grained, dark green, soft and not magnetic, locally compositionally melanogabbro 95-100% to locally 85% Cpx 0-5% to locally 15% Plag Strong alteration of Cpx to actinolite Strong alteration of Plag Local strong serpentine on fracture surfaces Minor to 3% sulfide mineralization as fine grained disseminated pyrite and chalcopyrite (chalcopyrite>>pyrite) 164.10 - 164.50m White quartz vein containing 20% 1cm to 5cm scale flattened mafic inclusions, long axis oriented at 70° to core axis, coarse grained bleby chalcopyrite associated with inclusions, irregular upper and lower contacts	3	4	056	160.90	163.90	3.00	3.00		0.32	0.06	0.01	0.060	0.052	0.007
					057	163.90	166.20	2.30	0.50		0.05	0.00	0.00	0.013	0.015	0.004







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North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-062

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METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
192.15	219.60	<b>MELANOGABBRO</b>  Medium grained to locally finer medium grained to very locally fine grained, green-grey, moderately soft and weakly magnetic, local relatively narrow sub-sections of pyroxene, moderate erratic grey-white quartz-Plag stringers, veinlets and veins, local 10-30cm scale sub-sections of concentrated Plag (gabbroic fragments?), locally unit exhibits a Plag porphyritic texture, moderately fractured at various degrees to core axis 65-90% Cpx, 10-35% Plag Moderate to strong alteration of Cpx to actinolite Moderate to strong alteration of Plag Overall minor to locally 0.5% sulfide mineralization predominantly as fine grained disseminated to finer medium grained bleby chalcopyrite + pyrite + pyrrhotite?	2	3			068	192.15	195.00	2.85	0.25		0.13	0.02	0.00	0.024	0.025	0.005
			2	3			069	195.00	198.00	3.00	0.50		0.18	0.03	0.02	0.029	0.024	0.004
			2	3			070	198.00	201.00	3.00	tr		0.10	0.01	0.00	0.019	0.016	0.003
			2	3			071	201.00	204.00	3.00	1.00		0.25	0.04	0.01	0.043	0.036	0.007
			2	3			072	204.00	207.00	3.00	0.50		0.13	0.02	0.00	0.027	0.022	0.005
			3	3			073	207.00	210.00	3.00	0.50		0.06	0.01	0.00	0.012	0.016	0.004
			3	3			074	210.00	213.00	3.00	0.50		0.05	0.00	0.00	0.013	0.016	0.005
			2	3			075	213.00	216.00	3.00	0.25		0.17	0.03	0.00	0.023	0.024	0.006
			2	3			076	216.00	218.00	2.00	0.50		0.23	0.04	0.00	0.047	0.037	0.007
			2	3			077	218.00	219.60	1.60	0.25		1.82	0.20	0.00	0.010	0.035	0.005
		199.40 - 200.05m	Quartz-Diorite Dike - coarse grained, slightly pinkish-buff Pseudo-graphic texture Irregular upper and lower contacts															
		204.35 - 204.70m	Quartz-Diorite Dike - coarse grained pinky-buff with a pseudo-graphic texture Irregular upper and lower contacts															
		218.5 - 218.7m	Fault, cemented brittle fracture, grey feldspathic stockwork veinlets plus white quartz veining Parallel feldspathic stringers and quartz veining oriented at 60° to core axis Oriented fabric in fault zone dipping 70° to the Northeast (045°) dip direction															

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-062

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
219.60	241.65		<p><b>PYROXENITE</b></p> <p>Medium grained to finer medium grained, dark green, moderately soft to soft and not magnetic, minor to locally moderate erratic grey white quartz-Plag stringers and veinlets, local chlorite, serpentine and talc on fracture surfaces, very locally weakly foliated/sheared at 45-50° to core axis</p> <p>90-100% Cpx, 0-10% Plag</p> <p>Strong alteration of Cpx to actinolite +/- chlorite</p> <p>Moderate to strong alteration of Plag</p> <p>Trace to minor to very locally 0.5% sulfide mineralization predominantly as fine grained to finer medium grained disseminated chalcopyrite</p> <p>Gradational upper and lower contacts</p> <p>221.25 - 222.60m Gabbro, medium grained, green-grey-buff, hard, not magnetic</p> <p>Composed of 65% Plag and 35% Cpx</p> <p>Moderately altered</p> <p>Contact at 221.25m at 35° to core axis</p> <p>Diffuse contact at 222.6m</p> <p>222.60 - 222.95m Fault - cemented gouge?</p> <p>Intense erratic stockwork greenish-grey feldspathic stringers and veinlets defining a shear fabric at approx. 50° to core axis</p> <p>Oriented fabric --&gt; dips approx. 60° to SSW (approx. 200°)</p> <p>--&gt; dip direction</p>																
			2	3			078	219.60	221.25	1.65	0.50		4.60	0.48	0.02	0.105	0.080	0.009	
			2	2			079	221.25	222.95	1.70	tr		4.92	0.55	0.02	0.021	0.044	0.004	
			2	3			080	222.95	225.00	2.05	tr		0.35	0.05	0.00	0.006	0.028	0.004	
			3	3			081	225.00	228.00	3.00	0.50		0.86	0.12	0.00	0.058	0.049	0.006	
				3			082	228.00	231.00	3.00	0.25		1.03	0.13	0.01	0.059	0.061	0.007	
				3			083	231.00	234.00	3.00	0.50		1.10	0.15	0.02	0.059	0.055	0.007	
				3			084	234.00	237.00	3.00	1.00		4.17	0.50	0.04	0.216	0.151	0.011	
				3			085	237.00	240.00	3.00	tr		0.99	0.14	0.00	0.028	0.044	0.006	
			2	3			086	240.00	241.65	1.65	tr		0.96	0.14	0.00	0.040	0.042	0.004	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-062

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
219.60	241.65		<p><b>PYROXENITE</b></p> <p>Medium grained to finer medium grained, dark green, moderately soft to soft and not magnetic, minor to locally moderate erratic grey white quartz-Plag stringers and veinlets, local chlorite, serpentine and talc on fracture surfaces, very locally weakly foliated/sheared at 45-50° to core axis</p> <p>90-100% Cpx, 0-10% Plag</p> <p>Strong alteration of Cpx to actinolite +/- chlorite</p> <p>Moderate to strong alteration of Plag</p> <p>Trace to minor to very locally 0.5% sulfide mineralization predominantly as fine grained to finer medium grained disseminated chalcopyrite</p> <p>Gradational upper and lower contacts</p> <p>221.25 - 222.60m Gabbro, medium grained, green-grey-buff, hard, not magnetic</p> <p>Composed of 65% Plag and 35% Cpx</p> <p>Moderately altered</p> <p>Contact at 221.25m at 35° to core axis</p> <p>Diffuse contact at 222.6m</p> <p>222.60 - 222.95m Fault - cemented gouge?</p> <p>Intense erratic stockwork greenish-grey feldspathic stringers and veinlets defining a shear fabric at approx. 50° to core axis</p> <p>Oriented fabric --&gt; dips approx. 60° to SSW (approx. 200°)</p> <p>--&gt; dip direction</p>																
			2	3			078	219.60	221.25	1.65	0.50		4.60	0.48	0.02	0.105	0.080	0.009	
			2	2			079	221.25	222.95	1.70	tr		4.92	0.55	0.02	0.021	0.044	0.004	
			2	3			080	222.95	225.00	2.05	tr		0.35	0.05	0.00	0.006	0.028	0.004	
			3	3			081	225.00	228.00	3.00	0.50		0.86	0.12	0.00	0.058	0.049	0.006	
				3			082	228.00	231.00	3.00	0.25		1.03	0.13	0.01	0.059	0.061	0.007	
				3			083	231.00	234.00	3.00	0.50		1.10	0.15	0.02	0.059	0.055	0.007	
				3			084	234.00	237.00	3.00	1.00		4.17	0.50	0.04	0.216	0.151	0.011	
				3			085	237.00	240.00	3.00	tr		0.99	0.14	0.00	0.028	0.044	0.006	
			2	3			086	240.00	241.65	1.65	tr		0.96	0.14	0.00	0.040	0.042	0.004	





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-062

LOGGED BY: **B. Nelson**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
256.70	348.80	<b>GABBRONORITE (continued)</b>	2	3			104	288.00	291.00	3.00	tr		0.09	0.01	0.01	0.017	0.020	0.003
		Moderate to intense alteration of Opx to tremolite (shiny-fish-scale grey)	2	3			105	291.00	294.00	3.00	0.25		0.15	0.02	0.00	0.016	0.020	0.004
		Strong alteration of Cpx to actinolite +/- chlorite	2	3			106	294.00	297.00	3.00	0.50		0.29	0.03	0.04	0.027	0.026	0.004
		Moderate to strong alteration of Plag	2	3			107	297.00	300.00	3.00	tr		0.08	0.01	0.01	0.016	0.019	0.003
		Trace to minor fine grained to finer medium grained disseminated sulfide mineralization predominantly as chalcopyrite plus associated pyrite and pyrrhotite?, locally up to 3.0% sulfides over 2-3 metres	3	3			108	300.00	303.00	3.00	tr		0.04	0.00	0.01	0.013	0.015	0.002
		277.20 - 277.65m Pegmatite - strong magnetite and moderate epidote	2	3			109	303.00	306.00	3.00	tr		0.01	0.00	0.00	0.010	0.014	0.003
		278.0 - 278.4m Pegmatite - strong magnetite and moderate epidote	2	3			110	306.00	309.00	3.00	tr		0.01	0.00	0.00	0.012	0.013	0.002
		299.5 - 306.2m 10% erratic medium grained, grey-white quartz Plag veinlets and veins exhibiting distinct zoning defined by a grey quartz rich core and buff-white Plag rich margins, locally feldspar growth on margins exhibit a comb texture	2	3			111	309.00	312.00	3.00	tr		0.01	0.00	0.00	0.011	0.018	0.003
		Veinlets and veins contain 10% coarse grained long bladed green-grey mafic crystals (amphibole?)	2	3			112	312.00	315.00	3.00	tr		0.01	0.00	0.00	0.012	0.015	0.002
		323.60 - 324.05m Diorite Dike, medium grained, slightly pinkish-buff white intruded by erratic stockwork like grey quartz veining	2	3			113	315.00	318.00	3.00	tr		0.12	0.02	0.01	0.016	0.013	0.002
		Sharp contact at 323.6m at 45° to core axis	2	3			114	318.00	321.00	3.00	tr		0.01	0.00	0.00	0.011	0.014	0.002
		Sharp contact at 324.05m at 45° to core axis	2	3			115	321.00	324.05	3.05	tr		0.01	0.00	0.00	0.008	0.011	0.002
		Oriented contacts dip approx. 45° to NE (approx. 040°) --> dip direction	2	3			116	324.05	327.00	2.95	tr		0.00	0.00	0.00	0.007	0.016	0.003
			2	3			117	327.00	330.00	3.00	tr		0.00	0.00	0.00	0.010	0.016	0.003
			2	3			118	330.00	333.00	3.00	tr		0.14	0.01	0.02	0.017	0.018	0.003
			3	3			119	333.00	336.00	3.00	tr		0.01	0.00	0.00	0.009	0.014	0.003
			2	3			120	336.00	339.00	3.00	tr		0.03	0.00	0.00	0.009	0.015	0.003
			2	3			121	339.00	342.00	3.00	tr		0.05	0.00	0.01	0.011	0.013	0.002
			2	3			122	342.00	345.00	3.00	tr		0.34	0.04	0.03	0.023	0.021	0.003
			2	3			123	345.00	347.00	2.00	tr		0.57	0.05	0.06	0.028	0.021	0.002
			2	3			124	347.00	348.80	1.80	tr		0.46	0.05	0.03	0.020	0.019	0.002







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-062

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
414.00	415.95	<b>DIABASE DIKE</b>  Fine grained to medium grained, grey to dark grey, hard, moderately magnetic and brecciated as approach lower contact, moderate erratic ghosty feldspathic stringers Trace fine grained disseminated pyrite Locally banded at 70° to core axis Irregular contact at 414.0m Sharp contact at 415.9m at 50° to core axis --> Oriented contact dips approx. 65° to the SE approx. 130° (dip direction)					147	414.00	415.95	1.95			0.01	0.00	0.01	0.013	0.005	0.002
415.95	426.45	<b>MELANOGABBRO</b>  Medium grained, greenish-grey, moderately hard to moderately soft, and not magnetic, minor erratic white-grey medium grained quartz-Plag stringers and veinlets, local 10cm scale diorite dikes, very local patchy epidote, locally <10% Opx 65-80% Cpx, 20-35% Plag Moderate alteration of Cpx to actinolite Moderate alteration of Plag No visible sulfides  424.7 - 425.0m Shear brecciated diorite dike - shearing sub-parallel to core axis					148	415.95	418.00	2.05		nil	0.01	0.00	0.00	0.008	0.019	0.004
							149	418.00	420.00	2.00		nil	0.01	0.00	0.00	0.007	0.017	0.004
							150	420.00	423.00	3.00		nil	0.01	0.00	0.00	0.007	0.016	0.003
							151	423.00	425.00	2.00		nil	0.01	0.00	0.00	0.008	0.018	0.003
							152	425.00	426.45	1.45		nil	0.01	0.00	0.00	0.008	0.017	0.004



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PROPERTY LDI ZONE Twilight HOLE # 00-062

LOGGED BY: **B. Nelson** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
446.00	459.00	<b>GABBRO (continued)</b>  Moderate alteration of Plag Very local minor fine grained disseminated pyrite and chalcopyrite Gradational upper and lower contacts over few cms Local moderate black chlorite Subtle variations in texture and composition, possibly indicate unit may be part of downhole heterolithic gabbro breccia																
459.00	500.40	<b>HETEROLITHIC GABBRO BRECCIA (Locally Gabbronorite Breccia)</b>  Fine grained to medium grained to pegmatitic, greenish-grey, locally hard to soft and locally moderately magnetic predominantly associated with very coarse grained to pegmatitic sub-sections, local moderate coarse grained epidote Heterogeneous section composed of fragments of varying texture and composition exhibiting predominantly sharp contacts between various fragment types and matrix, nothing to indicate matrix from fragments, assuming clast supported breccia, local strong chlorite on fracture surfaces, local moderate white-grey quartz-Plag stringers, veinlets and veins 35 to >90% Cpx, <10 to 65% Plag, locally 10% Opx Moderate to strong alteration of Cpx to actinolite +/- chlorite	2	2			165	459.00	462.00	3.00	2.00	1:3	1.16	0.15	0.09	0.099	0.062	0.007
			2	2			166	462.00	465.00	3.00	0.50		0.61	0.07	0.06	0.046	0.031	0.005
			2	2			167	465.00	468.00	3.00	tr		0.17	0.02	0.01	0.010	0.020	0.004
			2	2			168	468.00	471.00	3.00	tr		0.10	0.01	0.01	0.009	0.020	0.004
			2	3			169	471.00	474.00	3.00	1.00		1.52	0.16	0.12	0.049	0.047	0.005
			2	2			170	474.00	477.00	3.00	0.50		0.56	0.07	0.04	0.034	0.028	0.005
			2	2			171	477.00	480.00	3.00	0.25		0.56	0.06	0.05	0.024	0.027	0.005
			2	3			172	480.00	483.00	3.00	0.25		0.53	0.07	0.05	0.019	0.025	0.004
			2	3			173	483.00	486.00	3.00	tr		0.55	0.06	0.04	0.020	0.027	0.004
			2	3			174	486.00	489.00	3.00	0.75		5.73	0.59	0.41	0.134	0.113	0.007
			2	3			175	489.00	491.90	2.90	2.00		1.90	0.20	0.07	0.047	0.052	0.007
			2	3			176	491.90	494.10	2.20	0.50		3.03	0.33	0.16	0.084	0.061	0.006
			0	3			177	494.10	496.50	2.40	tr		0.43	0.05	0.01	0.015	0.027	0.004
			0	3			178	496.50	498.90	2.40	tr		0.56	0.06	0.03	0.019	0.024	0.004
			2	3			179	498.90	500.40	1.50	1.00		1.90	0.19	0.21	0.072	0.045	0.006





# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>Claim:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU
<b>HOLE NO.:</b> 00-074	<b>LENGTH: (m)</b> 741	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>REMARKS:</b> Core stored at Lac des Iles mine site
<b>LOCATION - MINE GRID</b>	<b>NORTHING:</b> 31821.779	<b>EASTING:</b> 32411.187	<b>DEPTH</b>	<b>DIP</b>	<b>DATE LOGGED:</b> May 15 - June 6, 2000
<b>SECTION:</b> 500	<b>ZONE:</b> Twilight	<b>ELEVATION:</b> 501.867	<b>DEPTH</b>	<b>DIP</b>	<b>LOGGED:</b> M. MacIsaac
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b> PLANNED: 251°/-50°	<b>SURVEYED:</b> 250.963°/-51.023°				<b>SIGNATURE:</b> <i>[Signature]</i>
<b>HOLE STARTED:</b> 13-May-00	<b>HOLE FINISHED:</b> 5-Jun-00	<b>MAG DECLINATION:</b> 2.1°w			<b>I. Osmani</b> <b>SHEET 1 OF 33</b>

METERAGE		DESCRIPTION	Rock Code	SAMPLES						ASSAYS							
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %
			Plag	Pxr	Comp	Prop <sup>r</sup>											
0.00	8.10	<b>CASING</b>															
8.10	44.60	<b>DIABASE/MICROGABBRO</b>															
		Medium grey-green					001	8.10	9.00	0.90	tr	0.00	0.00	0.00	0.007	0.003	0.003
		Fine to medium grained					002	9.00	12.00	3.00	tr	0.00	0.00	0.00	0.005	0.003	0.003
		Non-magnetic to moderately magnetic					003	12.00	15.00	3.00	tr	0.00	0.00	0.00	0.005	0.002	0.003
		Medium grained microgabbro with associated diabas dikes					004	15.00	18.00	3.00	tr	0.00	0.00	0.00	0.006	0.003	0.002
		Texturally units are similar except for grain size					005	18.00	21.00	3.00	tr	0.00	0.00	0.00	0.006	0.003	0.002
		Upper portion predominantly diabase with increasing microgabbro down section					006	21.00	24.00	3.00		0.00	0.00	0.00	0.005	0.003	0.003
		Microgabbro contains abundant biotite					007	24.00	27.00	3.00		0.00	0.00	0.00	0.005	0.003	0.003
		Moderately locally strongly fractured at various orientations					008	27.00	30.00	3.00		0.01	0.00	0.00	0.006	0.003	0.002
		Local weak pyrite along fractures					009	30.00	33.00	3.00		0.00	0.00	0.00	0.006	0.005	0.003
		Several east gabbro xenoliths up to 1.5m					010	33.00	36.00	3.00		0.00	0.00	0.00	0.008	0.002	0.003
		Diabase moderately layered at 38° to core axis with lighter grey medium grained layers to dark grey fine grained layers					011	36.00	39.00	3.00		0.00	0.00	0.00	0.011	0.003	0.003
		Lighter grey layers similar to microgabbro					012	39.00	42.00	3.00		0.00	0.00	0.00	0.006	0.004	0.003
							013	42.00	44.60	2.60		0.00	0.00	0.00	0.010	0.005	0.003
		8.1 - 16.7 Diabase															
		16.7 - 19.0m East gabbro															







# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
71.10	74.20	<b>PYROXENITE</b> Dark green Medium grained 0-10% Plag, 90-100% Cpx Strongly altered with Plag - bluish tinge, Cpx to actinolite, pervasive chlorite alteration Strong mottled texture Relatively non-magnetic 3-4% pyrite, finer blebs, locally cubic Moderately soft Gradational lower contact Massive and unfractured	3	3			025	71.10	72.50	1.40	3.00		1.36	0.20	0.09	0.119	0.087	0.010
			3	3			026	72.50	74.20	1.70	3.00		1.43	0.22	0.11	0.140	0.088	0.010
74.20	155.20	<b>GABBRO (East Gabbro)</b> Light to medium grey-green Medium grained, equigranular 55-60% Plag, 40-45% Cpx Unit is weakly altered with Plag locally smokey grey, local moderate epidote within Plag Very weakly mineralized with very fine disseminated pyrite Plag and Cpx subhedral in nature Relatively massive, occasional fracture at 45° to core axis Non-magnetic	1	1			027	74.20	75.00	0.80	0.25		0.12	0.02	0.00	0.023	0.019	0.002
			1	1			028	75.00	78.00	3.00	0.25		0.41	0.06	0.01	0.029	0.026	0.004
			1	1			029	78.00	81.00	3.00	tr		0.14	0.02	0.00	0.016	0.011	0.002
			1	1			030	81.00	84.00	3.00	tr		0.09	0.01	0.01	0.016	0.011	0.003
			1	1			031	84.00	87.00	3.00	tr		0.11	0.02	0.00	0.019	0.008	0.002
			1	1			032	87.00	90.00	3.00	tr		0.05	0.01	0.00	0.016	0.005	0.002
			1	1			033	90.00	93.00	3.00	tr		0.02	0.00	0.00	0.022	0.005	0.002
			1	1			034	93.00	96.00	3.00	tr		0.00	0.00	0.00	0.020	0.004	0.002
			1	1			035	96.00	99.00	3.00	tr		0.00	0.00	0.00	0.013	0.007	0.002
			1	1			036	99.00	102.00	3.00	tr		0.00	0.00	0.00	0.017	0.004	0.002
			1	1			037	102.00	105.00	3.00	tr		0.00	0.00	0.00	0.013	0.003	0.002
			1	1			038	105.00	108.00	3.00	tr		0.00	0.00	0.00	0.010	0.003	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
174.00	183.00	<b>MELANOGABBRO</b>  Medium to dark green grey Medium grained 15-25% Plag, 75-85% Cpx Moderately altered with Plag to locally saussuritized, Cpx to actinolite and moderate pervasive chlorite throughout Local black Cpx - possibly hornblende Strongly feldspar porphyritic with Plag content decreasing at upper and lower contacts Local fractures at 45 and 75° to core axis Minor disseminated pyrite	2	3			063	174.00	177.00	3.00	tr		0.27	0.05	0.03	0.008	0.017	0.004
			2	3			064	177.00	180.00	3.00	tr		0.50	0.08	0.04	0.012	0.022	0.004
			2	3			065	180.00	183.00	3.00	tr		0.08	0.02	0.01	0.006	0.019	0.004
183.00	192.90	<b>PYROXENITE</b>  Dark green grey Medium grained 0-5% Plag, 95-100% Cpx Moderately to strongly altered with Cpx to actinolite, black clots - possibly Cpx to hornblende, moderate pervasive chlorite, moderate mottled texture 0-25% interstitial pyrite, local pyrrhotite Massive, local fracture at 45-55% to core axis with associated chlorite Sharp lower contact, jagged 189 - 190m Moderate fabric, strong chlorite	3	3			066	183.00	186.00	3.00	tr		0.24	0.04	0.01	0.011	0.023	0.005
			3	3			067	186.00	189.00	3.00	0.25		0.20	0.04	0.01	0.017	0.025	0.005
			3	3			068	189.00	192.00	3.00	0.25		0.44	0.08	0.03	0.016	0.028	0.005
			3	3			069	192.00	192.90	0.90	tr		0.70	0.10	0.04	0.032	0.037	0.006

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
192.90	198.50		<b>MAFICE DIKE/DIABASE</b>  Dark grey to black Aphanitic to fine grained Non-magnetic Lower contact at 40° to core axis Local fractures at 30 and 50° to core axis Trace disseminated pyrite Chilled upper contact	1	1			070	192.90	195.50	2.60	tr		0.03	0.02	0.02	0.022	0.013
			1	1			071	195.50	198.50	3.00	tr		0.03	0.02	0.00	0.020	0.014	0.003
198.50	248.20	<b>MELANOGABBRONORITE</b>  Brownish grey-green, dark, buff grey-green Medium grained 15-25% Plag, 40-50% Opx, 25-45% Cpx Moderately to strongly altered with Plag locally saussuritized, Cpx to buff grey actinolite and Opx almost completely altered to tremolite - silvery-lustrous Locally moderately magnetic Plag locally zoned with a greenish outer rim and whitish grey inner core Moderate serpentine-talc along fractures at 35-50% to core axis Unit moderately to strongly feldspar porphyritic (anhedral) Trace to 0.25% pyrite-pyrrhotite, disseminated Occasional tonalite dikelets Local very fine white clots - pinehead - talc clots  237.2 - 237.8m Mafic dike	2	3			072	198.50	201.00	2.50	tr		0.17	0.04	0.01	0.008	0.018	0.004
			2	3			073	201.00	204.00	3.00	tr		0.32	0.06	0.03	0.021	0.028	0.004
			2	3			074	204.00	207.00	3.00	0.25		0.15	0.03	0.02	0.011	0.016	0.003
			2	3			075	207.00	210.00	3.00	0.25		0.21	0.05	0.02	0.013	0.016	0.003
			2	3			076	210.00	213.00	3.00	0.25		0.39	0.07	0.03	0.011	0.015	0.003
			2	3			077	213.00	216.00	3.00	tr		0.33	0.05	0.03	0.008	0.012	0.002
			2	3			078	216.00	219.00	3.00	0.25		0.24	0.05	0.03	0.008	0.012	0.002
			2	3			079	219.00	222.00	3.00	tr		0.39	0.07	0.04	0.009	0.012	0.002
			2	3			080	222.00	225.00	3.00	tr		0.19	0.04	0.02	0.006	0.013	0.002
			2	3			081	225.00	228.00	3.00	tr		0.33	0.06	0.04	0.026	0.021	0.003
			2	3			082	228.00	231.00	3.00	tr		0.75	0.14	0.07	0.034	0.032	0.004
			2	3			083	231.00	234.00	3.00	tr		0.63	0.11	0.08	0.035	0.031	0.003
			2	3			084	234.00	237.00	3.00	tr		0.24	0.04	0.02	0.007	0.014	0.003
			2	3			085	237.00	240.00	3.00	tr		0.13	0.03	0.01	0.007	0.010	0.003
			2	3			086	240.00	243.00	3.00	tr		0.19	0.04	0.02	0.005	0.012	0.003
			2	3			087	243.00	246.00	3.00	tr		0.27	0.05	0.03	0.008	0.015	0.003
			2	3			088	246.00	248.20	2.20	tr		0.34	0.05	0.02	0.010	0.015	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
248.20	252.40		<b>GABBRO</b>  Medium grey-green, buff grey Medium grained 50-55% Plag, 45-50% Cpx Unit is moderately altered with Cpx to buff grey-actinolite, Plag saussuritized Non-magnetic Occasional fractures at 45° to core axis Irregular lower contact Relatively unmineralized	2	2			089	248.20	249.50	1.30			0.12	0.01	0.00	0.003	0.012
			2	2			090	249.50	252.40	2.90			0.20	0.02	0.01	0.002	0.012	0.002
252.40	257.50	<b>HETEROLITHIC MELANOGABBRO BRECCIA</b>  Medium to dark yellowish grey-green, buff grey-green Medium to coarse grained 15-50% Plag, 50-65% Cpx Unit is strongly brecciated with coarse grained gabbro xenoliths within a melanogabbro matrix - locally pyroxenite. Gabbro xenoliths strongly saussuritized, coarse grained and up to 0.6m - jagged edges Matrix strongly altered with pervasive chlorite, moderate to strong serpentine-talc Weakly mineralized, local chalcopyrite along fractures Cpx to actinolite, locally tremolite Matrix supported 50:50 ratio	3	3	M	50	091	252.40	255.00	2.60	tr		0.92	0.12	0.04	0.018	0.026	0.003
			3	3	M	50	092	255.00	257.50	2.50	tr		0.85	0.10	0.02	0.006	0.012	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
268.50	273.30		<p><b>COARSE GRAINED GABBRO (continued)</b></p> <p>Strongly resorbed Plag and Cpx Local chlorite veinlets along healed fractures Relatively unmineralized Sharp lower contact at 35° to core axis, sheared</p>															
273.30	275.30	<p><b>PYROXENITE (Shear Ore)</b></p> <p>Dark green-black Fine to medium grained 0% Plag, 100% Cpx Intensely altered with strong pervasive black chlorite throughout, strong serpentine within matrix and along fracture, Cpx completely to actinolite or strongly altered to chlorite Very strong fabric - sheared at 20-30° to core axis, anastomosing Strongly mineralized with 2-5% pyrite, 0-5-1.0% chalcopyrite, pyrite locally as blebs, locally interstitial Abundant stringers (1-3mm) along foliation planes - folded Unit has a strong sheared texture mottled, typical shear ore Moderately soft, non-magnetic Bluish chlorite locally, possibly chloritized Shape lower contact at 24° to core axis</p>	4	4			100	273.30	275.30	2.00	3.00		4.33	0.56	0.41	0.240	0.237	0.010





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
309.80	314.40		<b>MELANOGABBRO (continued)</b>  Non-magnetic, local fine disseminated pyrite Gradual decrease in Plag down section, gradational lower contact															
314.40	320.20	<b>PYROXENITE</b>  Dark green-black Medium grained 0-5% Plag, 95-100% Cpx Unit is strongly to intensely altered with Cpx to actinolite, locally hornblende, moderate pervasive chlorite Strong mottled texture with medium grained black clots - hornblende (25%) throughout Moderate serpentine and talc along fractures Strongly mineralized with 2-4% interstitial pyrite, 0-1% pyrrhotite, minor chalcopyrite Locally weakly magnetic Moderately to strongly fractured increasing down section as well as fabric at various orientations Cpx locally subhedral to euhedral laths - usually hornblende, possibly recrystallized Lower contact strongly brecciated, fault zone over last 30cm Local iddingsite along fractures Local fine acicular-bladed pyrite crystals, possibly millerite	3	3			117	314.40	316.00	1.60	1.00		1.42	0.17	0.06	0.059	0.061	0.006
			4	4			118	316.00	318.00	2.00	3.00		3.68	0.43	0.23	0.173	0.126	0.008
			4	4			119	318.00	320.20	2.20	4.00		6.78	0.75	0.44	0.268	0.240	0.011

















# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
407.20	413.80	<b>GABBRONORITE/MELANOGABBRONORITE (continued)</b>																
		0.25-1.50% pyrrhotite-chalcopyrite net-textured, local blebs up to 0.5cm, chalcopyrite locally as sweats within pyrrhotite or along outer grain boundary of pyrrhotite, locally 0.25-0.50% pyrite with chalcopyrite Irregular gradational lower contact																
413.80	447.00	<b>NORITE</b>																
		Medium to dark brownish grey Medium grained, locally coarse grained 40-45% Plag, 55-60% Opx Unit is strongly altered with Plag to a brownish colour (pervasive) and Opx to a buff brownish-grey, bluish tinge-altered to tremolite Non-magnetic to strongly magnetic Strong serpentine along fractures, locally pervasive, locally healed Local narrow sections up to 1.5m of gabbronorite with 25% Cpx Occasional tonalite sweats Moderately mineralized with trace to 1.0% pyrrhotite-chalcopyrite blebs up to 0.5cm, 3:1 pyrrhotite-chalcopyrite ratio, chalcopyrite locally forming along pyrrhotite grain boundaries Strong mottled texture, moderately resorbed	3	3			159	413.80	416.00	2.20	tr		0.04	0.00	0.01	0.012	0.012	0.002
			3	3			160	416.00	417.00	1.00	tr		0.30	0.03	0.02	0.017	0.017	0.003
			3	3			161	417.00	420.00	3.00	0.25		0.28	0.04	0.03	0.020	0.017	0.002
			3	3			162	420.00	423.00	3.00	1.00	1:3	1.73	0.20	0.14	0.072	0.061	0.004
			3	3			163	423.00	426.00	3.00	0.25		0.62	0.07	0.10	0.029	0.027	0.003
			3	3			164	426.00	429.00	3.00	0.25		0.20	0.02	0.02	0.015	0.015	0.001
			3	3			165	429.00	432.00	3.00	0.25		0.32	0.04	0.03	0.025	0.022	0.002
			3	3			166	432.00	435.00	3.00	0.50		1.23	0.15	0.10	0.071	0.056	0.006
			3	3			167	435.00	438.00	3.00	tr		0.07	0.01	0.01	0.014	0.012	0.002
			3	3			168	438.00	441.00	3.00	0.25		0.06	0.01	0.01	0.013	0.011	0.001
			3	3			169	441.00	444.00	3.00	0.25		0.43	0.05	0.04	0.019	0.018	0.002
			3	3			170	444.00	447.00	3.00	tr		0.16	0.02	0.02	0.018	0.019	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
413.80	447.00		<b>NORITE (continued)</b>  421.8 - 423.0m Gabbronorite 433.5 - 435.5m Gabbronorite Gradational lower contact 444.2 - 444.6m Mafic dike at 45° to core axis **Polished thin section <b>DH-074-433.1</b>															
447.00	462.10	<b>PYROXENITE</b>  Dark green Medium grained to locally coarse grained 0-10% Plag, 0-10% Opx, 80-90% Cpx Relatively massive with occasional fracture at 60° to core axis with associated weak chlorite Local cumulous Plag up to 20cm grading into gabbro Moderately altered with Cpx to actinolite - locally hornblende, Plag moderately saussuritized, locally magenta red Trace to 0.5% pyrite-chalcopyrite blebs, trace pyrrhotite, occasional pyrrhotite-chalcopyrite bleb Non-magnetic Strong mottled texture with medium buff grey and black clots intermixed Occasional fractures at 45° to core axis Sheared lower contact at 55° to core axis Quartz flooding, strong chlorite	2	2			171	447.00	450.00	3.00	0.25		0.21	0.03	0.02	0.019	0.027	0.004
			2	2			172	450.00	453.00	3.00	0.75		1.41	0.18	0.14	0.085	0.073	0.005
			2	2			173	453.00	456.00	3.00	tr		0.39	0.05	0.03	0.024	0.031	0.004
			2	2			174	456.00	459.00	3.00	0.25		0.57	0.07	0.05	0.031	0.036	0.005
			2	2			175	459.00	462.10	3.10	0.25		0.94	0.11	0.07	0.031	0.039	0.004















# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium** Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: **M. Maclsaac/I. Osmani** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
592.30	598.20	<b>MELANOGABBRONORITE (continued)</b>  Minor to 0.25% pyrite, mainly in more Cpx rich portions, interstitial Irregular lower contact																
606.00	623.20	<b>MELANOGABBRONORITE</b>  Dark brownish grey-green Medium grained, weakly feldspar phyric 25% Plag, 50% Opx, 25% Cpx Moderately altered with Plag to a reddish colour, possibly influence from Opx, Cpx to actinolite, Opx to tremolite, silvery-platey lustrous amphibole Moderately magnetic Locally moderate serpentine-black chlorite along fractures with associated slickensides, fractures at 38 and 25° to core axis locally Trace to % pyrrhotite-pyrite, fine blebs and disseminated Local patchy black chlorite up to 20cm Gradational lower contact	2	2			232	606.00	609.00	3.00	tr		0.15	0.02	0.02	0.012	0.013	0.002
			2	2			233	609.00	612.00	3.00	tr		0.36	0.04	0.04	0.019	0.014	0.002
			2	3			234	612.00	615.00	3.00	0.25		1.06	0.13	0.09	0.034	0.027	0.002
			2	3			235	615.00	618.00	3.00	0.50		1.04	0.12	0.09	0.035	0.027	0.003
			2	3			236	618.00	621.00	3.00	tr		0.97	0.10	0.07	0.029	0.026	0.003
			2	3			237	621.00	623.20	2.20	tr		0.09	0.01	0.02	0.006	0.008	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-074

LOGGED BY: M. MacIsaac/I. Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
645.70	658.60		<b>GABBRONORITE</b>  Brownish grey to green Medium grained, feldspar phytic in places 20-25% Plag (saussuritized), >50% Opx (tremolite to talc), 20-25% Cpx (amphibole to hornblende), locally up to 2% magnetite Strongly magnetic locally, but mostly moderate to weakly magnetic	4	4			247	645.70	648.80	3.10	tr		0.17	0.03	0.02	0.010	0.010
			3	3			248	648.80	652.70	3.90	tr		0.11	0.03	0.02	0.008	0.010	0.001
			3	3			249	652.70	655.70	3.00	tr		0.12	0.03	0.02	0.009	0.011	0.002
			2	3			250	655.70	658.60	2.90	tr		0.11	0.03	0.02	0.010	0.012	0.002
658.60	673.00	<b>GABBRO</b>  Greyish green to dark green Medium grained, equigranular 50% Plag, 38-40% Cpx, <1% hornblende/chorite, 1% Opx Plag is greyish white to reddish (hematite?) Highly magnetic and sulphide-bearing (approx. 3% chalcopyrite, 1% magnetite and trace pyrrhotite) between 662.85m and 663.33m Cpx generally altered to amphiboles (actinolite/hornblende?) and minor chlorite	3	3			251	658.60	661.70	3.10	tr		0.38	0.05	0.03	0.015	0.019	0.003
			3	3			252	661.70	664.70	3.00	0.50	10:3	0.76	0.09	0.07	0.023	0.024	0.003
			3	3			253	664.70	667.70	3.00	tr		0.14	0.03	0.02	0.010	0.016	0.003







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES		<b>CLAIM NUMBER:</b>		<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU						
<b>HOLE NO.:</b> 00-92B (oriented)		<b>LENGTH: (m)</b> 465m		<b>CORE SIZE:</b> NQ		<b>DEPTH</b>		<b>DIP</b>		<b>AZM</b>		<b>REMARKS:</b> Core stored at Lac des Iles mine site	
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b> 31683.922		<b>EASTING:</b> 31729.778									
<b>SECTION:</b> 503N		<b>ZONE:</b> Roby		<b>ELEVATION:</b> 516.28						<b>DATE LOGGED:</b> June 20-June 24, 2000			
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b> 071°/-42.5		<b>SURVEYED:</b> 71.04/-44.41						<b>LOGGED:</b> A. Drost		<b>SIGNATURE:</b> <i>[Signature]</i>	
<b>HOLE STARTED:</b> June 19, 2000		<b>HOLE FINISHED:</b> June 24, 2000		<b>MAG DECLINATION:</b> 2.1° w						<b>SHEET</b> 1 <b>OF</b> 14			

METERAGE		DESCRIPTION	Rock Code	SAMPLES							ASSAYS							
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd opt	Pt opt	Au opt	Cu %	NI %	Co %
				Plag	Pxr	Comp	Prop <sup>n</sup>											
0.00	27.00	<b>OVERBURDEN</b>  Jumbled, broken core, waste rock; heterogeneous assortment of varitextured gabbro, leucogabbro, and minor pyroxenite, occasional blebs and disseminations of pyrrhotite, pyrite, and chalcopyrite, 0.5% - 1% overall..																
27.00	42.20	<b>VARITEXTURED GABBRO</b>  Medium greenish-grey color index with mottled appearance due to variable grain size, especially with Plag; medium to coarse grained, with subhedral Plag crystals varying in size from equant grains (2-4mm) to elongate laths (to 10mm) as a weakly pegmatitic texture locally as clots; Plag is generally fresh white but occasionally exhibits reddish alteration, mafic phase is equant to lathlike Cpx, generally altered to actinolite +/- chlorite, weakly altered locally as indicated by reduced grain size and texture destructive chloritization (?); massive fabric. Proportions: 55% Plag; 40-45% Cpx; <5% Opx Mineralization: 0.5% pyrrhotite and chalcopyrite as blebs and disseminations; some replacement of pyrrhotite by chalcopyrite as reaction rims.  33.78m - 35.57m - Tonalitic stringer (2-3cm) at 0 - 5° to core axis. Lower contact at 38° to core axis.																











# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 11-092b (oriented)

LOGGED BY: A. Drost SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd opt	Pt opt	Au opt	Cu %	Ni %	Co %
182.58	188.85	<b>DIABASE</b>  Dark grey-black color; fine grained, banded unit with cryptic fine to medium white Plag segregations defining banding at 25° to core axis. (095/80° N true); fine grained hornblende needles noted as predominant matrix, oriented at 25° to core axis with banding; unit is weakly magnetic. Mineralization: Generally barren, narrow stringer with chalcopyrite blebs at 186.00m - 186.10m at 5° to core axis. Lower contact at 30° to core axis (110/75° N true)					056	182.58	186.00	3.42	nil		0.044	0.000	0.012	0.015	0.004	0.003
							057	186.00	188.85	2.85	nil		1.450	0.270	0.010	0.005	0.025	0.002
188.85	193.10	<b>GABBRONORITE; COARSE GRAINED</b>  Coarse grained, locally pegmatitic unit (similar to 177.93m - 182.58m) but with slight increase in altered (tremolite) Opx (5-10%); patchy clots of equant, altered Plag crystals segregated by large, equant, altered Cpx and minor Opx; cumulate texture; notably <u>lacking</u> magnetite as compared with previous gabbro unit; core exhibits medium to light greenish-grey mottled appearance; Estimated Modal Proportions: 50-70% Plag; 30-40% Cpx; 5-10% Opx 188.85m - 189.27m - Tonalite sill at 30° to core axis; barren Mineralization: Trace sulphides Lower contact at 40° to core axis (031°/50° true)	2	2			058	188.85	190.50	1.65	nil		0.526	0.125	0.004	0.002	0.013	0.002
							059	190.50	193.00	2.50	nil		0.014	0.000	0.008	0.010	0.005	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 11-092b (oriented)

LOGGED BY: A. Drost SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd opt	Pt opt	Au opt	Cu %	Ni %	Co %
193.00	198.93	<b>MICROGABBRO</b>  Fine to medium grained, Plag porphyritic unit; exhibits classic speckled medium to dark grey salt and pepper color index; mafic phase(s) possibly hornblende+/-biotite; given their consistently black coloration; unit appears in pristine state. Modal proportions: 40-60% Plag; 30-40% mafics (hornblende+/-biotite) Mineralization: 1-2% fine grained disseminated pyrite. Lower contact at 20° to core axis (irregular)	1	1			060	193.00	195.00	2.00	1-2		0.004	0.000	0.006	0.006	0.005	0.002
			1	1			061	195.00	198.13	3.13	1-2		0.404	0.070	0.008	0.007	0.017	0.002
198.13	202.60	<b>GABBRONORITE; PEGMATITIC</b>  Coarse grained, locally pegmatitic unit as previously described (188.85m - 193.00m); patchy clots of equant altered Plag crystals segregated by large, equant, altered greenish Cpx and minor tremolite Opx; cumulate texture; medium to light grey mottled appearance; Modal proportions: 50-60% Plag; 20-30% Cpx; 10-20% Opx Mineralization: Trace to 1% pyrite, blebby Lower contact sheared at 032° to core axis (050/75°N true)	2	2			062	198.13	201.00	2.87	tr-0.1		1.105	0.085	0.052	0.059	0.044	0.003
			2	2			063	201.00	202.60	1.60	tr-0.1		0.290	0.060	0.012	0.011	0.019	0.002







# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 11-092b (oriented)

LOGGED BY: A. Drost SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd opt	Pt opt	Au opt	Cu %	Ni %	Co %
280.59	298.89	<b>MELANOGABBRO</b>  Fine to medium grained pyroxenitic section with minor medium grained Plag phenocryst phase (5-20%); medium greenish-grey color index, medium grained, subhedral, dark green Cpx phenocrysts in fine grained altered matrix (alteration appears to be a mixture of epidote+/-chlorite+/-actinolite); Plag phenocrysts cryptic, equant, altered to reddish; Modal proportions: 5-20% Plag; 10-30% Cpx phenocrysts: 40-50% fine grained matrix material; massive fabric. Mineralization: Trace-0.5% pyrite, pyrrhotite and specks chalcopyrite.  287.47m - 287.60m - Tonalitic stringer at 60° to core axis; barren 292.62m - 292.69m - Tonalitic stringer at 60° to core axis; barren Lower contact sharp at 18° to core axis (053°/090° true strike dip)	2	3			091	279.00	282.00	3.00	0.50		0.540	0.095	0.108	0.041	0.038	0.003
			2	3			092	282.00	285.00	3.00	0.50		0.294	0.030	0.026	0.017	0.023	0.003
			2	3			093	285.00	288.00	3.00	0.50		0.498	0.090	0.040	0.020	0.027	0.004
			2	3			094	288.00	291.00	3.00	0.50		0.160	0.025	0.012	0.015	0.016	0.003
			2	3			095	291.00	294.00	3.00	0.50		0.092	0.010	0.012	0.012	0.014	0.003
			2	3			096	294.00	297.00	3.00	0.50		0.122	0.030	0.008	0.013	0.013	0.003
			2	3			097	297.00	298.89	1.89	0.50		0.266	0.055	0.012	0.013	0.015	0.003
298.89	334.08	<b>VARITEXTURED GABBRO</b>  Medium grained varitextured gabbro; medium grained gabbroic matrix (occasionally approaching melano) with coarsening of Plag and Cpx randomly distributed through section; medium grey color index with clots of white equant, subhedral Plag crystals lending a mottled appearance; section displays moderate to strong alteration of pyroxene (Cpx) to a fine grained, greenish, interstitial, alteration phase (actinolite+/-epidote+/-chlorite) as matrix, generally non-pegmatitic.	1	2			098	298.89	300.00	1.11	2.00		0.344	0.090	0.014	0.019	0.017	0.003
			1	2			099	300.00	303.00	3.00	2.00		0.148	0.045	0.010	0.011	0.010	0.002
			1	2			100	303.00	306.00	3.00	2.00		0.172	0.070	0.016	0.017	0.010	0.002
			1	2			101	306.00	309.00	3.00	2.00		0.566	0.080	0.030	0.029	0.024	0.002
			1	2			102	309.00	312.00	3.00	2.00		0.418	0.095	0.018	0.020	0.014	0.002
			1	2			103	312.00	315.00	3.00	2.00		0.532	0.080	0.030	0.041	0.027	0.003
			1	2			104	315.00	318.00	3.00	2.00		0.124	0.025	0.008	0.015	0.014	0.003
			1	2			105	318.00	321.00	3.00	2.00		0.274	0.055	0.026	0.030	0.024	0.003
			1	2			106	321.00	324.00	3.00	2.00		0.868	0.140	0.038	0.031	0.032	0.003
			1	2			107	324.00	327.00	3.00	2.00		0.926	0.100	0.058	0.047	0.037	0.003
			1	2			108	327.00	330.00	3.00	2.00		0.650	0.110	0.056	0.039	0.027	0.003
			1	2			109	330.00	331.50	1.50	2.00		0.770	0.075	0.020	0.024	0.028	0.002
		1	2			110	331.50	334.08	2.58	2.00		0.188	0.000	0.012	0.013	0.014	0.002	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 11-092b (oriented)

LOGGED BY: A. Drost SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd opt	Pt opt	Au opt	Cu %	NI %	Co %
298.89	334.08	<p><b>VARITEXTURED GABBRO (continued)</b></p> <p>Modal proportions: 30-55% Plag; 20-35% Cpx; 10-30% fine grained alteration matrix. Mineralization: Reasonably well mineralized section 0.5-1% bleby chalcopyrite, 0.5-1.5% bleby pyrite, trace pyrrhotite. Lower contact irregular, displaced slightly.</p>																
334.08	335.92	<p><b>DIORITE/MICROGABBRO</b></p> <p>Fine to medium grained, weakly Plag porphyritic section intruding at 60° to core axis, (010°az/70° dip true) Medium grey-black color index, mafic phase is biotite(?) -rich, altered to chlorite, gives a "salt and pepper" texture. Modal proportions: 50-60% Plag; 30-40% mafics (biotite, chlorite) Mineralization: 0.5-1% fine grained disseminated pyrite. Lower contact at 60° to core axis.(010°/70W true)</p>	1	1			111	334.08	335.92	1.84	0.50		0.004	0.000	0.002	0.010	0.003	0.001
335.92	348.25	<p><b>MELANOGABBRO NORITE BRECCIA</b></p> <p>Fine grained altered melanogabbroic matrix with well-defined rounded fragments of medium grained gabbro; matrix is medium to dark greenish-grey color, relatively uniform; fragments exhibit classic, light greenish-grey color index mottled with medium grained, white equant Plag phenocrysts; fragments have sharp contacts of varying orientations to core axis, varying from 15cm - 60cm in diameter;</p>	2	3			112	335.92	339.00	3.08	tr-0.5		0.092	0.000	0.010	0.017	0.013	0.002
			2	3			113	339.00	342.00	3.00	tr-0.5		0.148	0.010	0.020	0.030	0.017	0.003
			2	3			114	342.00	345.00	3.00	tr-0.5		0.200	0.010	0.016	0.027	0.016	0.002
			2	3			115	345.00	348.25	3.25	tr-0.5		0.104	0.010	0.008	0.015	0.012	0.002
			2	3			116	348.25	349.60	1.35	0.50		0.134	0.010	0.016	0.017	0.013	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 11-092b (oriented)

LOGGED BY: A. Drost

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd opt	Pt opt	Au opt	Cu %	Ni %	Co %
335.92	348.25		<p><b>MELANOGABBRONORITE BRECCIA (continued)</b></p> <p>pyroxenes are altered to a fine grained matrix exhibiting minor felted, iridescent tremolite.                      Modal proportions: Matrix: 30-40% Plag; 40-50% medium grained actinolitic Cpx; 10-20% fine grained tremolitic Opx                      Fragments: 50-70% Plag; 30-40% Cpx                      Mineralization: Trace - 0.5% pyrite with trace chalcopyrite.                      Lower contact at 25° to core axis (350/15°E true)</p> <p>348.52m - 349.60m - Melanogabbronorite dike at contact, medium grained, uniform texture, 0.5% disseminated pyrite.</p>															
349.60	393.19	<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Variably textured, predominantly gabbronoritic unit with weak chalcopyrite, pyrite mineralization; medium greenish-grey, mottled coloration due to equant Plag crystals; section is mainly medium grained to locally coarse grained with a minor fine grained greenish interstitial pyroxene alteration product (5-10%; tremolite, actinolite+/-epidote+/-chlorite); irregular bands of coarse grained Plag, Cpx and Opx are common; Cpx altered to actinolite, Opx altered to iridescent tremolite; unit becomes more pyroxene-rich to lower contact.                      Modal proportions: 40-50% Plag; 20-30% Cpx; 10-20% Opx.                      Mineralization: 0.5-1% pyrite, minor chalcopyrite.</p> <p>389.88m - 393.19m - Medium grained gabbronorite sill at contact                      Lower contact at 29° to core axis (350°/80° true, oriented)</p>	2	3			117	349.60	351.00	1.40	0.50		0.486	0.030	0.050	0.032	0.024	0.003
			2	3			118	351.00	354.00	3.00	tr-0.5		0.270	0.010	0.026	0.015	0.011	0.002
			2	3			119	354.00	357.00	3.00	tr-0.5		0.180	0.025	0.018	0.013	0.011	0.002
			2	3			120	357.00	360.00	3.00	0.50		0.444	0.025	0.036	0.015	0.013	0.002
			2	3			121	360.00	363.00	3.00	0.50		0.128	0.020	0.014	0.012	0.009	0.001
			2	3			122	363.00	366.00	3.00	0.50		0.454	0.045	0.062	0.020	0.015	0.002
			2	3			123	366.00	369.00	3.00	0.50		0.204	0.020	0.020	0.011	0.010	0.002
			2	3			124	369.00	372.00	3.00	0.50		0.560	0.060	0.034	0.021	0.015	0.002
			2	3			125	372.00	375.00	3.00	0.50		0.876	0.105	0.036	0.022	0.015	0.002
			2	3			126	375.00	378.00	3.00	0.50		1.170	0.120	0.048	0.031	0.032	0.002
			2	3			127	378.00	381.00	3.00	0.50		0.340	0.035	0.020	0.016	0.017	0.002
			2	3			128	381.00	384.00	3.00	tr		0.502	0.030	0.032	0.023	0.017	0.002
			2	3			129	384.00	387.00	3.00	tr		0.088	0.005	0.014	0.012	0.010	0.002
			2	3			130	387.00	389.88	2.88	0.50		0.240	0.025	0.020	0.019	0.012	0.002
			2	3			131	389.88	393.19	3.31	0.50		0.200	0.000	0.020	0.020	0.010	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 252	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor					<b>DRILLING COMPANY:</b> CHIBOUGAMAU				
<b>HOLE NO.:</b> 00-093	<b>LENGTH: (m)</b> 414m	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>			<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b> Core stored at Lac des Iles mine site			
<b>LOCATION - MINE GRID</b>	<b>NORTHING:</b> 31704.55	<b>EASTING:</b> 31789.84	<b>DEPTH</b>			<b>DIP</b>	<b>AZM</b>	15m casing in road bed, behind Kue Ken Hill (Wl. side)			
<b>SECTION:</b> 503N	<b>ZONE:</b> S. Roby	<b>ELEVATION:</b> 503.02	<b>DATE LOGGED:</b> May 15-17, 2000			<b>LOGGED:</b> S. Burgess					
<b>COLLAR ORIENTATION (AZIMUTH / DIP); PLANNED:</b> 71-/-44°		<b>SURVEYED:</b> 71.20/-43.87		<b>SIGNATURE:</b> <i>[Signature]</i>							
<b>HOLE STARTED:</b> May 12/13, 2000		<b>HOLE FINISHED:</b> 16-May-00		<b>MAG DECLINATION:</b> 2.1° w		<b>SHEET</b> 1 <b>OF</b> 20					

METERAGE		DESCRIPTION	Rock Code	Bx Matrix				SAMPLES					ASSAYS							
FROM	TO			Alt <sup>3</sup>	Plag	Pxr	Comp	Prop <sup>3</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
0.00	15.00			<u>OVERBURDEN - ROADBED/CASING</u>																
15.00	15.41	<u>BOULDERS</u>						001	15.00	15.41	0.41	tr		0.91	0.07	0.08	0.063	0.062	0.006	
15.41	53.02	<u>QUARTZ DIORITE, ALTERED</u>																		
		Moderately to strongly altered - saussurite, potassium feldspar, epidote, local tremolite.																		
		Fine to medium grained.																		
		Mafic minerals much finer grained than Plag/quartz.																		
		Light pinkish-green, generally pale.																		
		Core quite broken up, numerous fractures, joints, low angle brittle shears. Core looks brittle.																		
		Plag 40-60%, quartz 5-20%, pyroxenes, biotite, hornblende 20-40%																		
		Main fracture/shear zones: at 0-10°, 30°, 40° and 70° at 16.83-17.06m; 21.50-22.00m; 23.80-27.70m; 34.16-36.00m; 41.00-43.00m; 44.17-44.68m; 49.50-49.96m.																		
		Faults: 23.80-24.00m - 50°, 0-10° shears																		
		25.00-25.82m - Low angle shears. Alteration zone: Intense saussurite, hematite. Minor iddingsite.																		
		Local biotite, chlorite, carbonate.																		
		0-10° shears, 40° fault contacts.																		
		May be 2 separate faults.																		



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LAC DES ILES

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# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE S. Roby HOLE # 00-093

LOGGED BY: S. Burgess SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
53.02	61.40	<b>DIABASE</b>  Black. Fine grained, locally micro porphyritic. Top contact over 5-8cm, Minor banding: relatively massive, local minor banding where present, bands at 40° to core axis. Occasional epidote, chlorite, alteration around Plag stringers and microshears. - ie. 54.40m - 54.41m. Low angle quartz-feldspar veins from 60.15m -60.54m. Magnetic.  Sharp 35-40° contact.					015	53.02	55.52	2.50	tr		0.00	0.00	0.00	0.007	0.003	0.003
							016	55.52	58.02	2.50	tr		0.00	0.00	0.00	0.007	0.002	0.002
							017	58.07	59.52	1.45	tr		0.00	0.00	0.00	0.008	0.002	0.002
							018	59.52	61.40	1.88	tr		0.00	0.00	0.00	0.007	0.002	0.002
61.40	63.28	<b>MICRO GABBRO</b>  Fine to medium grained. Green to dark green Cuts quartz diorite at low angle, so numerous small quartz diorite wedges and low angle "xenoliths" Moderate strong actinolite, saussurite alteration. Microshears throughout, 0-30°, weak crenulation fabric. Sharp contact 40-50°.	2	3			019	61.40	63.28	1.88	tr		0.08	0.01	0.01	0.012	0.010	0.003











# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE S. Roby HOLE # 00-093

LOGGED BY: \_\_\_\_\_ SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
142.25	185.90	<p><b>VARITEXTURED GABBRO (continued)</b></p> <p>Unit becomes more mafic from 168.00m - 176.07m , strong actinolite alteration.</p> <p>176.07m - 181.05m - <u>Intermediate dike</u> - brown, grey. Fine to medium grained, locally microporphyritic. Sandy fill, rough. 30° top contact, sharp, no chill margins alteration. 30° shears throughout - brittle.</p> <p>STRONGLY FRACTURED 177.00m - 179.20m.</p> <p>Last 1m bleached, quite fractured over last 0.50m with iddingsite in fractures, 0, 10, 50° breaks, FAULT??</p> <p>0-30° brittle shears, 30° bottom contact with strong alteration halo for 20cm into varitextured gabbro below.</p> <p>Chlorite, biotite, saussurite, epidote alteration.</p> <p>Very fine grained.</p> <p>181.05m - 183.00m - Altered varitextured gabbro, locally popcorn gabbro. Moderate to strong saussurite; moderate to strong actinolite.</p>	2	2			063	168.00	171.00	3.00	0.50	1:1	0.30	0.07	0.03	0.021	0.018	0.002
			2	2			064	171.00	173.38	2.38	0.75	1:2	0.43	0.09	0.02	0.016	0.017	0.002
			2	2			065	173.38	176.07	2.69	0.50		0.10	0.01	0.01	0.015	0.007	0.001
			2	2			066	176.07	178.77	2.70	0.25		0.05	0.00	0.04	0.013	0.010	0.002
			2	2			067	178.77	181.05	2.28	0.50	1:1	0.99	0.18	0.05	0.026	0.025	0.002
			3	3			068	181.05	183.00	1.95	0.75	1:2	0.64	0.12	0.04	0.019	0.022	0.002
			2	2			069	183.00	185.90	2.90	0.50	1:1	0.54	0.09	0.03	0.016	0.018	0.002
185.90	194.95	<p><b>HETEROLITHIC GABBRO BRECCIA</b></p> <p>Mix of &gt;75% varitextured gabbro with pyroxenite, melano-gabbro and gabbro, diabase and felsic dikes. micro gabbro.</p> <p>Clear, sharp, fragment boundaries.</p> <p>Numerous shears, micros shears, with Plag, chlorite, epidote infill. Generally dark coloured, greens, greys, black.</p> <p>Diabase black, fine grained. ALL magnetic.</p> <p>Micro gabbro fine grained, dark green, mineralized to 0.75% over 0.6m.</p>	2	3			070	185.90	189.00	3.10	nil		0.35	0.05	0.02	0.015	0.017	0.003
			3	3			071	189.00	192.00	3.00	nil		0.41	0.05	0.03	0.016	0.018	0.002
			2	3			072	192.00	194.95	2.95	nil		1.13	0.11	0.06	0.045	0.039	0.004

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE S. Roby HOLE # 00-093

LOGGED BY: **S. Burgess**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
185.90	194.95		<b>HETEROLITHIC GABBRO BRECCIA (continued)</b>  189.60m - 189.69m; 189.90m - 189.97m - Diabase dikes, >60° contacts. 190.50m - 191.22m - Shear/alteration zone. 30° shears. Strong chlorite alteration, clay minerals, Plag infill. Soft, pitted core. Light green Main shear zone 190.78m - 191.02m 193.75m - 194.00m - Diabase fragments, irregular, Possibly dike splays? Magnetic.  Gradational contact.															
194.95	203.34	<b>VARITEXTURED MELANOGABBRO</b>  Medium to coarse grained, basically a weakly varitextured melanogabbro. Dark green, locally mottled. Plag 5-50% (average 15-20%), Cpx average 80-85% Moderate to well mineralized. Locally strong actinolite alteration. Patchy (8m) saussurite. Numerous 0-5° hairline Plag stringers. Amount of varitexturing decreases with depth.  Gradational contact.	2	3			073	194.95	197.95	3.00	1.00	1:1	0.71	0.07	0.05	0.023	0.030	0.003
			2	3			074	197.95	200.88	2.93	0.75	1:2	0.29	0.05	0.02	0.022	0.023	0.003
			2	3			075	200.88	203.34	2.46	0.50	1:2	0.50	0.10	0.04	0.024	0.025	0.004













# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE S. Roby HOLE # 00-093

LOGGED BY: S. Burgess SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
289.69	302.49		<p><b>DIABASE MICROGABBRO BRECCIA (continued)</b></p> <p>3 sets of quartz diorite dikes:                      50° - 299.10m - 299.12m; 301.83m - 301.98m;                      30° - 300.77m - 300.81m.                      10-20° - 299.07m - 299.19m; cut by 50° quartz diorite dike;                      297.10m - 397.30m.                      0-10° - numerous, small.                      Intermediate dike, microgabbro often exhibits foliation at 50° to core axis.                      65° contact</p>															
302.49	316.54	<p><b>MICROGABBRO</b></p> <p>Fine grained.                      Dark/dull green-grey. Locally black, hard.                      Weak local foliation at 50°                      Numerous small Diorite dikes at 50° ie. 311.64m - 311.68m.                      Quartz diorite dikes at lower angles - mostly ( ie. swarm from 302.49m - 304.41m).                      312.75m - 312.83m - Quartz diorite dike. Irregular contacts (top at fault?) at approximately 50°.                      312.64m - 312.75m - Blocky, broken core. Possible fault.                      306.00m - 318.00m - Barber pole core again.                      Sheared 50° contact.</p>	2	2			117	302.49	304.41	1.92	tr		0.02	0.01	0.01	0.013	0.012	0.002
			2	2			118	304.41	306.48	2.07	tr		0.03	0.01	0.01	0.013	0.008	0.002
			2	2			119	306.48	309.00	2.52	tr		0.17	0.02	0.02	0.019	0.013	0.002
			2	2			120	309.00	312.00	3.00	tr		0.03	0.02	0.01	0.012	0.008	0.002
			2	2			121	312.00	315.00	3.00	tr		0.07	0.02	0.01	0.013	0.010	0.002
			2	2			122	315.00	316.57	1.57	tr		0.06	0.02	0.01	0.014	0.009	0.002











# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU				
<b>HOLE NO.:</b> 00-101	<b>LENGTH: (m)</b> 453	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b> Core stored at Lac des Iles mine site
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b> 31769.475	<b>EASTING:</b> 31603.435						
<b>SECTION:</b> 504	<b>ZONE:</b> Roby	<b>ELEVATION:</b> 516.85		<b>DATE LOGGED:</b> June 18 - 25, 2000					
<b>COLLAR ORIENTATION (AZIMUTH / DIP); PLANNED:</b> 71.0/-45.0		<b>SURVEYED:</b> 70.893°/-49.824°		<b>LOGGED:</b> I. Osmani		<b>SIGNATURE:</b> <i>[Signature]</i>			
<b>HOLE STARTED:</b> 14-Jun-00	<b>HOLE FINISHED:</b> 19-Jun-00	<b>MAG DECLINATION:</b> 2.1° w		<b>M. MacIsaac</b>		<b>SHEET</b> 1	<b>OF</b> 17		

METERAGE		DESCRIPTION	Rock Code	Bx Matrix					SAMPLES					ASSAYS						
FROM	TO			Alt <sup>n</sup>	Plag	Pxr	Comp	Prop <sup>t</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
0.00	30.0			<b>OVERBURDEN -</b> Interval comprised of blocks of varitextured gabbro and mafic dike. Sulfides (pyrrhotite+/-chalcopyrite )mainly within pegmatitic blocks - they occur as disseminations and coarse blebs. Overall sulfide concentration is trace but locally a block of pegmatitic gabbro contains up to 2%.		3	3			001	0.00	9.00	9.00	nil		1.07	0.16	0.06	0.074	0.030
				3	3			002	9.00	15.00	6.00	nil		0.60	0.10	0.05	0.031	0.030	0.003	
				3	3			003	15.00	21.40	6.40	tr		0.94	0.25	0.16	0.146	0.059	0.004	
				3	3			003A	21.40	27.00	5.60	nil		2.54	0.26	0.15	0.050	0.034	0.003	
								004	27.00	30.00	3.00	tr		0.79	0.13	0.08	0.033	0.035	0.003	
				3	3			005	30.00	33.00	3.00	tr		0.72	0.21	0.07	0.055	0.044	0.003	
				3	3			006	33.00	36.00	3.00	tr		0.22	0.05	0.02	0.023	0.034	0.003	
								007	36.00	39.50	3.50	<1%pyrite		0.14	0.03	0.02	0.027	0.011	0.003	
				2	2			008	39.50	42.50	3.00	tr		0.28	0.06	0.02	0.031	0.022	0.003	
				3	3			009	42.50	45.40	2.90	tr		0.09	0.03	0.02	0.021	0.015	0.003	
				4	4			010	45.40	48.00	2.60	tr		0.11	0.03	0.01	0.020	0.020	0.004	
				4	4			011	48.00	51.00	3.00	tr		0.11	0.00	0.02	0.045	0.026	0.004	
				4	4			012	51.00	53.50	2.50	0.25		0.45	0.03	0.05	0.036	0.019	0.003	
				4	4			013	53.50	55.35	1.85	tr		0.13	0.02	0.01	0.012	0.013	0.004	
				4	4			014	55.35	58.80	3.45	tr		0.05	0.00	0.01	0.010	0.010	0.002	
								015	58.80	62.00	3.20			0.06	0.00	0.03	0.019	0.009	0.002	
				4	4			016	62.00	63.65	1.65	tr		0.19	0.03	0.02	0.018	0.018	0.003	
				3	4			017	63.65	66.00	2.35	0.25	1:4	0.55	0.07	0.03	0.025	0.022	0.002	
				3	4			018	66.00	69.00	3.00	1.50	1:4	1.14	0.11	0.10	0.047	0.036	0.003	
				3	4			019	69.00	71.80	2.80	tr		0.55	0.05	0.03	0.020	0.022	0.002	
								020	71.80	74.60	2.80	tr		0.02	0.00	0.04	0.026	0.004	0.001	
				4				021	74.60	77.60	3.00	0.25		0.70	0.08	0.04	0.027	0.025	0.003	
				4				022	77.60	78.70	1.10	0.50	1:5	0.87	0.15	0.04	0.033	0.034	0.004	







# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE ROBY HOLE # 00-101

LOGGED BY: I. Osmani/M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
78.70	83.66	<b>GABBRONORITE TO GABBRO</b>  Greyish-green Medium to coarse grained Gradational with gabbro layers (alternating gabbronorite and gabbro layers.) 35 - 40% Plag approximately 25% Opx 35 - 40 % Cpx Opx is intensely altered to tremolite and Cpx to amphiboles, Plag is Saussuritized/epidotized. Overall sulfide concentration is <0.50% Numerous hairline fractures, ranging from 15° to 25° to core axis.  79.2m - 80.1m - Gabbro weakly varitextured to equigranular  83.68m - 85.8m - Gabbro Greyish- green to dark green medium grained, equigranular, Strongly altered Contains minor dioritic dikelets/inclusions Trace sulfides  84.0m Hairline fracture at approximately 20° to core axis. The fracture dextrally offsets dioritic dike.																
85.80	89.10	<b>FELSIC DIKE</b>  Pinkish-grey Fine-grained <10% mafic minerals (amphibole/chlorite) and remaining minerals are quartz and feldspar.					026	85.80	89.10	3.30			0.000	0.000	0.000	0.003	0.002	0.000







# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE \_\_\_\_\_ ROBY HOLE # 00-101

LOGGED BY: I. Osmani/M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
161.80	190.50		<p><b>PYROXENITE, MINOR MELANOGABBRONORITE AND GABBRO</b></p> <p>Greenish black Porphyritic (Cpx +/- Opx phenocrysts) 20-25% Opx, approximately 75% Cpx, &lt;5% Plag. The Opx, Cpx and Plag are altered to tremolite, amphibole +/- chlorite and Saussurite respectively. The Opx phenocrysts comprise -5 to 10% of the rock Overall sulfide concentration is trace level. Pyroxenite displays sharp to gradational contact with melanogabbro and varitextured gabbro. 167.64m-170.9m - Varitextured gabbronite to gabbro Up to 0.25% sulfides occur as fine grained disseminated to blebs. Hairline fractures of variable orientations but the most prominent fractures are oriented at 25 - 45% to core axis. Upper and lower contacts are gradational over 10 to 5 cm. respectively. 184.2m - 184.8m - Mafic dike/diabase Greyish black Fine-grained and strongly magnetic 2 - 3%, very fine grained, disseminated sulfides (pyrite?) Upper contact sharp but irregular and subparallel to core axis; lower contact is marked by tenalitic vein at approximately 45 ° to core axis</p>	2	2			053	161.80	164.00	2.20	nil		0.72	0.12	0.04	0.022	0.031
							054	164.00	165.50	1.50	tr		0.46	0.10	0.03	0.010	0.021	0.004
							055	165.50	167.64	2.14	tr		0.52	0.11	0.02	0.012	0.028	0.004
							056	167.64	169.00	1.36	tr		0.47	0.10	0.01	0.006	0.021	0.004
							057	169.00	170.90	1.90	0.25		1.68	0.36	0.03	0.007	0.022	0.003
							058	170.90	174.00	3.10	tr		1.17	0.22	0.03	0.012	0.028	0.005
							059	174.00	177.00	3.00	tr		0.56	0.09	0.03	0.014	0.028	0.004
							060	177.00	180.00	3.00	tr		0.79	0.17	0.05	0.020	0.029	0.004
							061	180.00	183.00	3.00	tr		0.44	0.09	0.01	0.008	0.022	0.003
							062	183.00	185.80	2.80	1.00		0.49	0.11	0.04	0.025	0.018	0.002
							063	185.80	187.60	1.80	0.50		1.06	0.21	0.04	0.018	0.021	0.002
							064	187.60	189.06	1.46	tr		0.78	0.19	0.03	0.069	0.061	0.007
							065	189.06	190.50	1.44	1.50	4:1	1.14	0.32	0.07	0.077	0.073	0.006



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE \_\_\_\_\_ ROBY \_\_\_\_\_ HOLE # 00-101

LOGGED BY: I. Osmani/M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
190.50	200.06	<b>LEUCOGABBRO TO GABBRO (continued)</b> 199.45m - 199.63m - Gabbro Gradational with leucogabbro																
200.06	219.40	<b>GABBRO WITH MINOR LEUCOGABBRO AND GABBRONORITE</b> Predominately gabbro, locally grades into leucogabbro. Chiefly medium grained but locally coarse grained to pegmatitic - shows cumulate texture. 30 - 45% Plag, 65 to 70% Cpx. Moderately to strongly altered 2 - 4% fine to coarse grained, disseminated chalcopyrite-pyrrhotite (10:1) locally sulfides may measure up to 3cm long. 204.05m - 204.50 - Melanogabbro? Strongly sheared at 204.36m 209.1m - 210.0m - Melanogabbronorite 214.90m - Gabbro to gabbronorite.	2	3			071	200.60	230.00	29.40	1.00	10:1	2.70	0.88	0.11	0.120	0.139	0.008
			2	3			071A	203.00	206.00	3.00	2.00	1:2	2.96	0.76	0.04	0.142	0.142	0.009
			2	3			072	206.00	207.50	1.50	1.00	1:2	8.20	1.38	0.18	0.264	0.274	0.011
			2	3			073	207.50	209.10	1.60	0.50	1:2	10.70	2.03	0.21	0.404	0.433	0.016
			2	3			074	209.10	210.00	0.90	0.75	1:2	8.49	2.03	0.33	0.287	0.284	0.015
			3	4			075	210.00	213.00	3.00	1.50	1:2	4.42	1.00	0.20	0.320	0.305	0.014
			3	4			076	213.00	216.00	3.00	1.50	1:2	2.79	0.52	0.12	0.262	0.249	0.015
			3	4			077	216.00	218.00	2.00	0.75	1:3	5.67	0.84	0.25	0.372	0.473	0.019
			3	4			078	218.00	219.40	1.40	1.50	1:3	5.91	1.13	0.23	0.150	0.129	0.005
219.40	228.00	<b>HETEROLITHIC GABBRONORITE BRECCIA</b> Greyish green to green Coarse to fine grained, locally small pegmatitic patches Moderately to strongly altered. 40 - 50% Plag, 25% Cpx 25% and Opx; Cpx and Opx partially altered to amphiboles (actinolite )+/- chlorite and tremolite respectively; Plag is saussuritized Medium to coarse grained blebs and fine grained disseminations of sulfides ( chalcopyrite-pyrrhotite ) up to 1 cm.	3	4	G	60	079	219.40	222.00	2.60	1.00	1:2	2.68	0.55	0.13	0.146	0.123	0.006
			3	4	G	35	080	222.00	225.00	3.00	0.50	1:3	1.76	0.38	0.08	0.102	0.077	0.005
			3	4	GN	65	081	225.00	228.00	3.00	2.00	1:2	5.20	0.80	0.12	0.207	0.278	0.010

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE \_\_\_\_\_ ROBY \_\_\_\_\_ HOLE # 00-101

LOGGED BY: I. Osmani/M. MacIsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
219.40	228.00		<p><b>HETEROLITHIC GABBRONORITE BRECCIA (continued)</b></p> <p>Moderately brecciated with gabbronorite and gabbro xenoliths within a coarse grained gabbro matrix. Unit is matrix supported with 60% matrix, 40% xenoliths. Unit is strongly altered with Plag smokey grey, Cpx to actinolite buff grey, Opx brownish grey, locally completely altered to silvery lustrous, luminescent Opx locally zone with brownish inner core. Strong mottled texture. Relatively massive and unfractured. Local ? texture with Plag, possibly cumulous. Matrix more Plag with 55 - 60 % Plag, more whitish in colour. Moderately mineralized with 0.25 to 1.5% pyrrhotite -Cpx blebs up to 1 cm. locally disseminated within Cpx rich portions or along fractures.</p>															
228.00	255.70	<p><b>VARITEXTURED GABBRO</b></p> <p>Medium grey-green, buff grey medium to coarse grained 45 - 50% Plag, 45 - 55% Cpx, 0 - 5% Opx Unit is strongly altered with Plag to a smokey grey, locally weak magenta, Cpx buff grey actinolite, Opx to tremolite. Unit is moderately to strongly varitextured with medium to coarse grained gradationally. Local cumulous - patchy pods of Plag. Strong mottled texture, strong resorbtion. Alterational of Plag increases towards lower contact with strong sausseritization becoming lime green in colour. Also becoming coarse grained. Cpx-Opx up to 3cm</p>	3	4			082	228.00	231.00	3.00	0.50		1.63	0.18	0.10	0.079	0.108	0.008
			3	4			083	231.00	234.00	3.00	0.50		2.22	0.20	0.18	0.186	0.193	0.010
			3	4			084	234.00	237.00	3.00	0.75	2:1	1.86	0.28	0.05	0.085	0.101	0.007
			3	4			085	237.00	240.00	3.00	1.00	1:1	1.66	0.27	0.08	0.043	0.045	0.004
			3	4			086	240.00	243.00	3.00	0.50		1.07	0.32	0.05	0.038	0.036	0.004
			3	4			087	243.00	246.00	3.00	2.00	1:3	2.09	0.39	0.05	0.030	0.045	0.004
			3	4			088	246.00	249.00	3.00	0.75		5.93	1.42	0.11	0.027	0.070	0.004
			3	4			089	249.00	252.00	3.00	2.00		5.73	0.69	0.16	0.160	0.157	0.006
			4	4			090	252.00	254.50	2.50	0.75		2.99	0.58	0.03	0.055	0.086	0.005
			4	4			091	254.50	255.70	1.20	1.50		3.50	0.64	0.03	0.123	0.188	0.007

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE ROBY HOLE # 00-101

LOGGED BY: I. Osmani/M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
228.00	255.70	<b>VARITEXTURED GABBRO (continued)</b>  Moderately mineralized with 0.5 to 1.5% pyrrhotite - chalcopyrite blebs up to 1 cm, locally interstitial between Cpx grains. Sheared lower contact with diabase at 30° to core axis Unit becomes weakly brecciated towards lower contact. Pyrite increases towards lower contact.																
255.70	260.30	<b>INTERMEDIATE DIKE</b> Medium grained Dark grey to black Non magnetic Locally fractured at 45° to core axis Non mineralized 257.5m-257.8m - Broken blocky core Lower contact at 17 ° to core axis					092	255.70	258.00	2.30	nil		0.00	0.00	0.02	0.030	0.006	0.002
							093	258.00	260.30	2.30	nil		0.00	0.00	0.01	0.006	0.006	0.002
260.30	316.60	<b>VARITEXTURED GABBRO</b> Medium grey green, buff grey Medium grained to pegmatitic 45 - 55% Plag, 45 - 55% Cpx, 0 - 5% Opx Unit is strongly varitextured ranging from medium grained to pegmatitic gradationally with pegmatitic pods up to 20cm with Cpx crystals up to 2 cm, subhedral. Unit is relatively massive with occasional fractures at 25° and 45° to core axis	4	4			094	260.30	262.00	1.70	tr		1.24	0.23	0.04	0.028	0.055	0.004
			4	4			095	262.00	264.00	2.00	0.25		0.92	0.18	0.04	0.018	0.036	0.004
			4	4			096	264.00	267.00	3.00	0.75	1:2	1.86	0.32	0.10	0.042	0.051	0.004
			4	4			097	267.00	270.00	3.00	0.25		2.38	0.49	0.10	0.065	0.071	0.005
			4	4			098	270.00	273.00	3.00	0.75	1:2	2.56	0.51	0.15	0.073	0.067	0.005
			4	4			099	273.00	276.00	3.00	0.25		1.89	0.36	0.06	0.068	0.067	0.004
			4	4			100	276.00	279.00	3.00	tr		0.83	0.19	0.03	0.028	0.039	0.004
			4	4			101	279.00	282.00	3.00	1.00		1.48	0.32	0.05	0.040	0.050	0.005
			4	4			102	282.00	285.00	3.00	0.50		0.72	0.14	0.02	0.016	0.028	0.003





## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE \_\_\_\_\_ ROBY \_\_\_\_\_ HOLE # 00-101LOGGED BY: I. Osmani/M. Maclsaac SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
341.30	348.80		<b>PYROXENITE (continued)</b> Possibly up to 10% Opx Trace pyrite, interstitial Irregular brecciated lower contact. 342.9m - 343.2 Mafic dike at 35° to core axis															
348.80	371.70	<b>VARITEXTURED GABBRO</b> Medium grey-green, buff grey Finer medium grained to coarse grained 50 - 55% Plag, 45 - 50% Cpx Unit is strongly varitextured ranging from medium to coarse grained pods. Unit is moderately to strongly altered with Cpx to actinolite, Plag smokey grey, locally saussurized. Trace -0.5% pyrrhotite - chalcopyrite, irregular blebs. Moderate mottled texture, local biotite with diabase at contact. 350.6m - 352.3m - Diabase dike at 80° to core axis. Jagged lower contact Relatively massive and minor fractures at 60° to core axis.	2	3			128	348.80	350.60	1.80	tr		0.45	0.07	0.01	0.010	0.020	0.003
			2	3			129	350.60	352.30	1.70	tr		0.00	0.00	0.00	0.004	0.003	0.001
			2	3			130	352.30	354.00	1.70	0.25		0.65	0.09	0.05	0.042	0.053	0.003
			2	3			131	354.00	357.00	3.00	0.50		0.79	0.10	0.03	0.040	0.034	0.003
			2	3			132	357.00	360.00	3.00	tr		0.20	0.03	0.02	0.016	0.017	0.003
			2	3			133	360.00	363.00	3.00	0.25		0.73	0.21	0.04	0.046	0.025	0.002
			2	3			134	363.00	366.00	3.00	0.25		0.69	0.05	0.06	0.025	0.019	0.002
			2	3			135	366.00	369.00	3.00	tr		0.55	0.06	0.03	0.032	0.021	0.002
			2	3			136	369.00	371.17	2.17	0.25		0.23	0.02	0.02	0.024	0.017	0.002
371.70	389.20	<b>GABBRONORITE</b> Medium brownish grey-green Fine to medium grained 40 - 45% Plag, 10 - 30% Opx, 15 - 50% Cpx Unit is moderately to strongly altered with Plag from smokey grey to magenta, Cpx to actinolite, and Opx locally to silver lustrous tremolite. Unit is weakly varitextured Locally strong mottled texture.	2	2			137	371.70	373.00	1.30	tr		0.02	0.00	0.01	0.015	0.010	0.002
			2	2			138	373.00	375.00	2.00	tr		0.02	0.02	0.02	0.018	0.012	0.002
			2	2			139	375.00	378.00	3.00	tr		0.11	0.00	0.02	0.020	0.014	0.002
			2	2			140	378.00	381.00	3.00	0.25		0.74	0.06	0.07	0.037	0.033	0.003
			2	2			141	381.00	381.90	0.90	tr		0.07	0.00	0.02	0.015	0.010	0.002
			2	2			142	381.90	384.40	2.50	tr		0.00	0.00	0.02	0.011	0.003	0.003
			3	3			143	384.40	387.00	2.60	tr		1.30	0.12	0.13	0.056	0.056	0.003
			2	2			144	387.00	389.20	2.20	tr		0.83	0.10	0.10	0.055	0.039	0.003







# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE ROBY HOLE # 00-101

LOGGED BY: I. Osmani/M. MacIsaac SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
411.00	448.80		<p><b>MELANOGABBRONORITE/MELANONORITE (continued)</b></p> <p>Unit locally grades into melanonorite, over widths of 3m. Local black chlorite-serpentine along fractures at 45° to core axis. Unit is locally weakly massive. Local fractures at 22° to core axis down section. Local patchy Plag. Weakly mineralized with nil to 0.25% pyrrhotite-pyrite-chalcopyrite blebs. Sharp lower contact at 40° to core axis</p> <p>411m - 411.8m - Diabase, sheared lower contact at 28° to core axis. 414.1m - 414.3m - Diabase 417m - 419.8m - Melanonorite 421.7m - 423.2m - Melanonorite 429.3m - 432m - Melanonorite</p> <p>Locally feldspar phyrlic in moreCPX rich portions.</p>	2	2			153	411.00	414.00	3.00	tr		0.38	0.06	0.15	0.014	0.014	0.003
		2		2			154	414.00	417.00	3.00	tr		1.23	0.17	0.12	0.069	0.051	0.003	
		2		2			155	417.00	420.00	3.00	0.25		1.04	0.20	0.05	0.021	0.021	0.002	
		2		2			156	420.00	423.00	3.00	tr		0.68	0.13	0.02	0.014	0.016	0.002	
		2		2			157	423.00	426.00	3.00	tr		0.73	0.14	0.03	0.017	0.019	0.003	
		2		2			158	426.00	429.00	3.00	tr		0.82	0.13	0.04	0.022	0.027	0.004	
		2		2			159	429.00	432.00	3.00	tr		0.49	0.12	0.03	0.009	0.013	0.002	
		2		2			160	432.00	435.00	3.00	tr		0.66	0.17	0.03	0.013	0.019	0.003	
		2		2			161	435.00	438.00	3.00	tr		0.84	0.16	0.05	0.015	0.027	0.004	
		2		2			162	438.00	441.00	3.00	tr		0.78	0.09	0.02	0.013	0.017	0.003	
		2		2			163	441.00	444.00	3.00	tr		0.45	0.09	0.02	0.011	0.013	0.002	
		2		2			164	444.00	447.00	3.00	tr		0.53	0.08	0.01	0.008	0.013	0.002	
		2		2			165	447.00	448.80	1.80	tr		0.72	0.14	0.03	0.012	0.017	0.002	
448.80	453.00	<p><b>VARITEXTURED GABBRO</b></p> <p>Medium grey-green, buff, grey Medium to coarse grained. 45-50% Plag, 50-55% Cpx Moderately altered, Plag smokey grey, Cpx to actinolite, Relatively massive and unfractured 1.5% pyrrhotite-pyrite-chalcopyrite blebs.</p>																	
				2	2			166	448.80	450.00	1.20	0.75		1.38	0.11	0.12	0.059	0.042	0.004
	EOH		2	2			167	450.00	453.00	3.00	2.00	1:1	1.92	0.07	0.09	0.062	0.086	0.004	

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 252	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU
<b>HOLE NO.:</b> 00-130	<b>LENGTH: (m)</b> 816 m	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>
<b>LOCATION - MINE GRID</b>	<b>NORTHING:</b> 31769.475	<b>EASTING:</b> 31603.435	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>
<b>SECTION:</b> 507N	<b>ZONE:</b> Roby	<b>ELEVATION:</b> 516.845	<b>REMARKS:</b> Core stored at Lac des Iles mine site		
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>	<b>PLANNED:</b> 251°/-50°	<b>SURVEYED:</b> 70.893°/-49.824°	<b>DATE LOGGED:</b> 16-Jun-00		
<b>HOLE STARTED:</b> 11-Jun-00	<b>HOLE FINISHED:</b> 20-Jun-00	<b>MAG DECLINATION:</b> 2.1° w	<b>LOGGED:</b> <i>[Signature]</i> 23-Jun-00		
			<b>G. Katchen</b> SHEET 1 OF 34		

METERAGE		DESCRIPTION	Rock Code	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO			Plag	Pxr	Comp	Prop <sup>t</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
0.00	36.00			<b>OVERBURDEN</b> Waste rockpile, assorted boulders 80% medium to coarse grained gabbro, locally feldspar phyrlic, 0.25 - 0.5% chalcopryrite/pyrite/pyrrhotite. 20% gabbro-norite, medium to coarse grained, locally strong magnetism, 1-1.5% magnetite. 0.25-0.5% pyrrhotite/chalcopryrite/pyrite.																		
36.00	85.00	<b>MELANOGABBRONORITE TO GABBRONORITE</b> Greenish-grey brown. Fine to medium grained. Primarily non-magnetic, except for coarse grained areas (whereby 0.25 to 0.50% magnetite is observed). Primarily massive. Composition: Feldspar - 15-35%, medium to coarse grained, well sausseritized, moderately to strongly altered. Typically anhedral, feldspar phyrlic in upper sections. Locally gabbroic in composition. Cpx - 5-45% - green, anhedral, medium grained. Opx - 20-80% Brown sub-anhedral, rough texture, medium grained crystals. (Locally norite/melanonorite) Alteration: Plag - moderate to strong alteration, well sausseritized. Cpx - weak to moderate alteration, locally actinolite.																				

















## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE ROBY HOLE # 00-130LOGGED BY: G. Katchen

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO		Plag	Pxl	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
247.50	315.60		<b>MELANOGABBRO (continued)</b>  Alteration: Rock, as a whole, is somewhat soft, possibly slightly serpentized. Plag has been altered to a purplish-mauve colour possible to a zoisite. Cpx is altered to actinolite - possibly starting to alter to serpentine. Opx altered locally (where observed) to shiny, platy tremolite. Mineralization: Nil to trace pyrite, occurs as euhedral to subhedral crystals. chalcopyrite - nil; pyrrhotite - nil. Structures: At 252.45m - Tonalite vein, ~ 3-4cm across, well sausseritized, ~ 20° to core axis. 253.70m - 254.20m - Fracture with tonalite/diorite dike, ~ 15° to core axis, rocks foliated parallel to fracture. At 257.00m - Fracture, 10-15° to core axis, minor serpentine. At 264.35m - Fracture, ~ 20° to core axis, minor serpentine. At 268.00m - Same as above. At 274.10m - Fracture/fault with minor gouge; sausseritized Plag infilling. 274.50m - 275.50m - Diabase dike, 1% magnetite, assorted potassium feldspar, Plag quartz veining. 271.80m - 277.95m - Same as above. 279.95m - 283.00m - Extensive tonalite veining, with potassium feldspar minor diabase dike. 287.30m - 289.45m - Diabase dike, 0.75% magnetite. Trace pyrite.	2	2			091	247.50	249.00	1.50	tr		0.26	0.03	0.00	0.006	0.024
						092	249.00	252.00	3.00	tr		0.25	0.06	0.00	0.006	0.019	0.003	
						093	252.00	253.70	1.70	tr		0.32	0.06	0.01	0.004	0.017	0.003	
						094	253.70	254.20	0.50	tr		0.31	0.06	0.00	0.002	0.015	0.003	
						095	254.20	255.00	0.80	tr		0.20	0.04	0.01	0.004	0.014	0.002	
						096	255.00	258.00	3.00	tr		0.27	0.11	0.00	0.002	0.015	0.003	
						097	258.00	261.00	3.00	tr		0.30	0.12	0.01	0.005	0.019	0.003	
						098	261.00	264.00	3.00	tr		0.39	0.13	0.01	0.007	0.022	0.003	
						099	264.00	267.00	3.00	tr		0.26	0.13	0.01	0.007	0.020	0.003	
						100	267.00	270.00	3.00	tr		0.26	0.11	0.00	0.003	0.020	0.003	
						101	270.00	273.00	3.00	tr		0.26	0.10	0.00	0.004	0.019	0.003	
						102	273.00	274.50	1.50	tr		0.24	0.10	0.01	0.008	0.019	0.003	
						103	274.50	275.50	1.00	tr		0.04	0.02	0.00	0.006	0.008	0.003	
						104	275.50	277.80	2.30	tr		0.22	0.09	0.00	0.003	0.016	0.003	
						105	277.80	279.95	2.15	tr		0.02	0.00	0.00	0.007	0.003	0.002	
						106	279.95	283.00	3.05	tr		0.18	0.07	0.00	0.003	0.022	0.003	
						107	283.00	285.00	2.00	tr		0.18	0.05	0.00	0.005	0.024	0.003	
						108	285.00	287.30	2.30	tr		0.17	0.07	0.00	0.004	0.020	0.003	
						109	287.30	289.45	2.15	0.25		0.02	0.00	0.01	0.014	0.004	0.002	
						110	289.45	291.00	1.55	tr		0.23	0.10	0.00	0.003	0.020	0.003	
						111	291.00	294.00	3.00	tr		0.24	0.10	0.00	0.006	0.023	0.003	
						112	294.00	297.00	3.00	tr		0.24	0.11	0.00	0.007	0.023	0.003	
						113	297.00	299.75	2.75	0.25		0.23	0.08	0.01	0.017	0.024	0.004	
						114	299.75	301.00	1.25	tr		0.31	0.10	0.01	0.015	0.030	0.004	
						115	301.00	303.00	2.00	tr		0.23	0.09	0.02	0.010	0.025	0.004	
						116	303.00	306.00	3.00	0.25	1:1	0.46	0.10	0.03	0.021	0.031	0.004	
						117	306.00	309.00	3.00	0.25	1:1	0.22	0.07	0.02	0.016	0.026	0.003	
						118	309.00	312.00	3.00	0.50	1:2	0.64	0.17	0.07	0.044	0.047	0.004	
						119	312.00	313.50	1.50	0.50	1:2	0.71	0.13	0.07	0.030	0.043	0.004	
						120	313.50	315.60	2.10	0.25	1:2	0.39	0.08	0.05	0.034	0.041	0.004	



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE ROBY HOLE # 00-130

LOGGED BY: **G. Katchen**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
315.60	436.60	<b>HETEROLITHIC GABBRO BRECCIA (continued)</b>  Alteration: Plag - moderate to strong, white-cloudy to grey-cloudy, to locally a purplish hue, local intense sausseritization. Cpx - altered to actinolite - local serpentine where alteration is the strongest. Opx altered to tremolite. Alteration very strong at 366.00m - 370.00m. 0.75% epidote between 363.00m and 366.00m. Mineralization: Erratic spotty blebs of chalcopyrite/pyrrhotite (1:2 ratio), overall all sulfides are estimated to be ~ 0.25 - 0.5% chalcopyrite/pyrrhotite/pyrite. Local breccia fragments with 1.5-2.0% pyrrhotite/chalcopyrite, 2:1 ratio Structures: At 319.35m - Ancient fault/major fracture - recrystallized and solidified fault gouge, minor serpentine. At 325.35m - Quartz vein along fracture, surrounding rock is foliated parallel to vein (almost parallel to core axis), ~ 5° to core axis. At 328.20m - Small tonalite vein/dike, ~ 5° to core axis. 332.15m - 334.50m - Rock is intensely altered due to intruding dike, (possibly tonalite). Rock is foliated and magnetic (1-2% magnetite), rock is a very dark rusty brown (hematite or iddingsite?) also enriched in pyrite. (2-2.5%).																
			2	2			121	315.60	318.00	2.40	0.25	1:2	1.12	0.09	0.06	0.037	0.036	0.004
			2	2			122	318.00	321.00	3.00	0.50	1:2	1.85	0.20	0.11	0.087	0.056	0.004
			2	2			123	321.00	324.00	3.00	0.50	1:2	1.47	0.21	0.06	0.059	0.050	0.004
			2	2			124	324.00	327.00	3.00	0.25	1:2	1.05	0.18	0.05	0.051	0.038	0.003
			2	2			125	327.00	330.00	3.00	0.25	1:2	0.44	0.06	0.03	0.020	0.018	0.002
			3	3			126	330.00	332.75	2.75	0.50	1:2	2.16	0.29	0.06	0.059	0.104	0.005
			4	4			127	332.75	334.50	1.75	1.00		2.63	0.19	0.17	0.131	0.153	0.006
			3	3			128	334.50	336.00	1.50	0.25	1:2	1.65	0.13	0.18	0.096	0.101	0.005
			2	2			129	336.00	339.00	3.00	0.25	1:2	0.26	0.04	0.02	0.016	0.022	0.002
			2	2			130	339.00	342.00	3.00	0.50	1:2	0.59	0.07	0.03	0.026	0.027	0.003
			2	2			131	342.00	345.00	3.00	0.25	1:2	0.46	0.11	0.04	0.027	0.029	0.003
			2	2			132	345.00	348.00	3.00	0.50	1:2	0.79	0.10	0.01	0.012	0.028	0.002
			2	2			133	348.00	351.00	3.00	0.25	1:2	0.73	0.09	0.03	0.036	0.042	0.003
			2	2			134	351.00	354.00	3.00	0.25	1:2	0.41	0.05	0.02	0.012	0.017	0.002
			2	2			135	354.00	357.00	3.00	0.25	1:2	0.08	0.01	0.02	0.014	0.026	0.002
			2	2			136	357.00	360.00	3.00	tr	1:2	0.55	0.10	0.03	0.034	0.038	0.002
			3	3			137	360.00	363.00	3.00	0.25	1:2	1.01	0.12	0.02	0.046	0.029	0.002
			3	3			138	363.00	366.00	3.00	tr		1.64	0.15	0.05	0.021	0.041	0.003
			3	3			139	366.00	369.00	3.00	1.00	1:2	2.68	0.18	0.07	0.106	0.080	0.005
			3	3			140	369.00	372.00	3.00	0.25	1:2	0.70	0.10	0.03	0.021	0.030	0.003































# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE \_\_\_\_\_ ROBY \_\_\_\_\_ HOLE # 00-130

LOGGED BY: G. Katchen SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
592.70	637.00		<b>HETEROLITHIC GABBRO BRECCIA (continued)</b>  Opx - altered to tremolite. Local sausseritization of Plag. Local trace epidote along fractures. Mineralization: As a whole, sulfide estimate is 0.25%, local vein of sulfide blebs, (pyrrhotite,pyrite,chalcopyrite). Chalcopyrite occurs intergrown/intermixed with pyrite and pyrrhotite. Pyrite up to 0.25%. pyrrhotite/chalcopyrite up to 0.25% - local areas may be higher. Structures: At 596.10m - Fracture ~ 30° to core axis. At 600.55m - Fracture ~ 20° to core axis, minor talc. At 604.50m - Fracture ~ 30° to core axis, minor talc. At 613.15m - Fracture ~ 35° to core axis, minor talc. At 616.00m - Fracture ~ 30° to core axis, moderate talc. At 622.35m - Fracture ~ 30° to core axis, minor talc. At 630.00m - Fracture ~30° to core axis, moderate serpentine. At 631.65m - Fracture ~5° to core axis, moderate serpentine, minor talc. 641.30m - 641.50m - Diabase dike, ~ 45° to core axis, non magnetic, 0.25% pyrite.	3	2			234	592.70	594.00	1.30	0.50		0.56	0.09	0.05	0.061	0.053
			3	2			235	594.00	597.00	3.00	0.50	1:1	1.77	0.19	0.16	0.148	0.133	0.006
			3	3			236	597.00	600.00	3.00	0.25	2:1	1.86	0.23	0.14	0.079	0.070	0.004
			3	2			237	600.00	603.00	3.00	0.50	1:2	1.32	0.13	0.17	0.097	0.083	0.004
			3	2			238	603.00	606.00	3.00	0.50	1:1	0.75	0.09	0.19	0.084	0.058	0.003
			3	3			239	606.00	609.00	3.00	0.25	2:1	0.65	0.09	0.09	0.045	0.036	0.004
			2	2			240	609.00	612.00	3.00	tr		1.17	0.19	0.09	0.052	0.037	0.004
			3	2			241	612.00	615.00	3.00	0.25	1:1	1.12	0.13	0.18	0.125	0.087	0.004
			2	2			242	615.00	618.00	3.00	tr		0.14	0.03	0.05	0.031	0.021	0.002
			2	2			243	618.00	621.00	3.00	0.25		0.22	0.02	0.04	0.034	0.020	0.002
			2	2			244	621.00	624.00	3.00	0.25	1:1	0.63	0.11	0.03	0.026	0.026	0.003
			2	3			245	624.00	627.00	3.00	tr		1.16	0.20	0.05	0.022	0.023	0.004
			2	2			246	627.00	630.00	3.00	0.25	2:1	0.65	0.09	0.05	0.035	0.034	0.002
			2	2			247	630.00	633.00	3.00	tr		0.90	0.16	0.04	0.018	0.015	0.003
			2	2			248	633.00	636.00	3.00	0.25		0.48	0.10	0.04	0.020	0.019	0.002
			2	2			249	636.00	637.00	1.00	0.25		0.95	0.22	0.04	0.021	0.028	0.004



# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE ROBY HOLE # 00-130

LOGGED BY: **G. Katchen**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
646.20	651.00		<b>DIABASE DIKE</b>  Dark grey-black. Fine grained. 25% gabbroic inclusions (very strongly altered), potassium feldspar, sausseritization. Moderately magnetic - 1% magnetite. Locally foliated at ~ 50° to core axis. Nil alteration except for gabbroic inclusions. 0.25 - 0.5% pyrite.					254	646.20	648.00	1.80	0.50		0.08	0.00	0.02	0.019	0.007
							255	648.00	651.00	3.00	0.50		0.06	0.02	0.01	0.011	0.009	0.003
651.00	656.25	<b>MELANOGABBRO</b>  Medium grained. Light green, non-magnetic. Composition: 10-20% Plag 80-90% Cpx Trace Opx Alteration: Moderate to strong alteration. Plag - very strongly sausseritized, creamy yellow - subhedral. Cpx - altered to actinolite. Mineralization: 0.25% Pyrite Trace chalcopyrite/pyrrhotite. Structures: 651.50m - 651.85m - Gabbro/leucogabbro fragments. 651.85m - 652.10m - Diabase dike, moderately magnetic, 1% magnetite, trace to 0.25% pyrite.	2	2			256	651.00	654.00	3.00	0.25		0.66	0.17	0.05	0.030	0.025	0.003
			2	2			257	654.00	656.25	2.25	0.25		0.46	0.12	0.06	0.026	0.032	0.004















## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE ROBY HOLE # 00-130LOGGED BY: G. Katchen

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
741.60	816.00	<b>MEDIUM GRAINED GABBRO (EAST GABBRO?) (continued)</b>	2	2			299	741.60	744.00	2.40	0.25		0.03	0.00	0.00	0.008	0.006	0.002
		Alteration:	2	2			300	744.00	747.00	3.00	0.25		0.03	0.00	0.00	0.008	0.005	0.002
		Minor to moderate, excluding local areas around dikes.	2	2			301	747.00	750.00	3.00	0.25		0.03	0.00	0.00	0.013	0.008	0.002
		Plag - Minor alteration, cloudy-white, locally grey. Minor sausseritization around dikes.	2	2			302	750.00	753.00	3.00	0.25		0.04	0.00	0.01	0.022	0.010	0.002
		Cpx - Altered to actinolite.	2	2			303	753.00	756.00	3.00	0.25		0.04	0.00	0.00	0.012	0.007	0.002
		Opx - Altered to tremolite (trace)	2	2			304	756.00	759.00	3.00	0.25		0.03	0.00	0.00	0.006	0.005	0.002
		Epidote associated with fractures and dikes.	2	2			305	759.00	762.00	3.00	0.25		0.03	0.00	0.00	0.009	0.006	0.002
		Mineralization:	2	2			306	762.00	765.00	3.00	0.25		0.03	0.00	0.00	0.009	0.008	0.002
		Pyrite ~0.25%, locally 0.5%	2	2			307	765.00	768.00	3.00	0.25		0.03	0.00	0.00	0.010	0.007	0.002
		Disseminated individual crystals.	2	2			308	768.00	771.00	3.00	tr		0.03	0.00	0.00	0.007	0.005	0.002
		Pyrrhotite/chalcopyrite - nil.	3	2			309	771.00	774.00	3.00	tr		0.02	0.00	0.00	0.005	0.005	0.002
		Structures:	3	2			310	774.00	776.05	2.05	0.25		0.02	0.00	0.00	0.005	0.005	0.002
		Quartz-diorite healed fractures (751.50m - 752.00m), 1-2% epidote, ~40° to core axis.	Fresh				311	776.05	778.45	2.40	1.00		0.00	0.00	0.00	0.010	0.002	0.003
		At 754.50m - Fracture, minor serpentine, ~45° to core axis.	4	2			312	778.45	779.55	1.10	0.25		0.02	0.00	0.00	0.002	0.006	0.002
		At 761.80m - Quartz healed fracture, ~30° to core axis, minor epidote.	Fresh				313	779.55	780.00	0.45	nil		0.01	0.00	0.00	0.001	0.004	0.001
		763.40m - 763.65m - Tonalite dike, ~30-40° to core axis, sausseritization of Plag in surrounding area.	2	2			314	780.00	783.00	3.00	0.25		0.02	0.00	0.00	0.005	0.006	0.002
		At 778.70m - Fracture, ~25° to core axis, Plag infilling. Local minor alteration of Plag.	2	2			315	783.00	786.00	3.00	0.25		0.04	0.00	0.00	0.010	0.006	0.002
		At 780.40m - Small tonalite dike ~5cm thick, orientation ~35° to core axis.	3	2			316	786.00	789.00	3.00	0.25		0.03	0.00	0.00	0.009	0.007	0.002
			4	2			317	789.00	791.60	2.60	0.25		0.02	0.00	0.00	0.003	0.005	0.002
			Fresh				318	791.60	792.25	0.65	1.00		0.00	0.00	0.00	0.009	0.002	0.003
			4	2			319	792.25	793.70	1.45	0.25		0.02	0.00	0.00	0.001	0.005	0.002
							320	793.70	795.45	1.75	0.25		0.01	0.00	0.00	0.001	0.006	0.001
			4	4			321	795.45	796.50	1.05	tr		0.01	0.00	0.00	0.003	0.007	0.003
							322	796.50	798.00	1.50	4.00		0.01	0.00	0.00	0.021	0.002	0.003
							323	798.00	800.15	2.15	4.00		0.01	0.00	0.00	0.017	0.003	0.002
		At 789.70m - Small granite dikelet (4cm across), trace to 0.5% epidote, local alteration of Plag.	2	2			324	800.15	801.00	0.85	0.25		0.01	0.00	0.00	0.010	0.004	0.002
		At 793.00m - Small granite dike, ~20° to core axis, coarse grained.	2	2			325	801.00	804.00	3.00	0.25		0.02	0.00	0.00	0.008	0.004	0.002
		At 795.25m - Granite dike, 2.5% epidote, medium grained, ~20cm thick, ~30° to core axis.	2	2			326	804.00	807.00	3.00	0.25		0.01	0.00	0.00	0.010	0.004	0.002
			2	2			327	807.00	808.65	1.65	0.25		0.01	0.00	0.00	0.009	0.004	0.002
							328	808.65	810.70	2.05	1.50		0.00	0.00	0.00	0.009	0.001	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>			Maxibor	<b>DRILLING COMPANY:</b>			CHIBOUGAMAU		
<b>HOLE NO.:</b>	00-133	<b>LENGTH: (m)</b>	508m	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b>	Core stored at Lac des Iles mine site
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b>	32002.899	<b>EASTING:</b>	32281.042								
<b>SECTION:</b>	507	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	504.537							<b>DATE LOGGED:</b>	11-June--15-June 2000
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b>	251/-50.0	<b>SURVEYED:</b>	250.908/-50.140							<b>LOGGED:</b>	I. Osmani
<b>HOLE STARTED:</b>	09-Jun-00	<b>HOLE FINISHED:</b>	14-Jun-00	<b>MAG DECLINATION:</b>	2.1° w							<b>SHEET</b>	1 OF 14

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS								
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %
			Plag	Px	Comp	Prop											
0.00	4.10	<b>CASING</b>															
4.10	16.80	<b>MELANOGABBRONORITE</b>															
		Brownish grey-dark green															
		Medium grained															
		20-25% Plag, 25% Opx, 45-50% Cpx															
		Intensely altered - Opx altered to tremolite/talc (?) and															
		Cpx altered to amphibole. The Plag are extremely															
		altered (saussurite).															
		Strongly magnetic.															
		No visible sulfides															
		Melanogabbronorite is gradational into the															
		melanogabbro.															
		15.20m - 15.90m - Gabbro															
		Medium grained															
		No sulfides															
		Non to weakly magnetic gabbro, but moderately to															
		strongly magnetic melanogabbro.															



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LAC DES ILES

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# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-133

LOGGED BY: I. Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
82.10	123.70		<p><b>GABBRO TO GABBRONORITE</b> (Intercalated)</p> <p>Gabbro is greyish-green; gabbronorite greyish-dark green Both are medium grained and generally equigranular 40-50% Plag; 50-55% Cpx altered (amphibole); &lt;5% Opx-gabbro. 35-40% Plag; 20-25% Opx; 35-40% Cpx, locally &lt;1% magnetite gabbronorite Gabbronorite is generally mineralized with 1% sulfides (pyrrhotite+/-chalcopyrite) None to trace amount of sulfides noted in the gabbro. Fractures and/or contacts vary from 25° to 35° to core axis. Ubiquitous quartz vein/pods; veins at 25° - 30° to core axis. Ubiquitous cm wide tonalitic to trondhjemitic dikes, generally at 55° to core axis. Moderate to strong foliation, near 121.50m, at 45° to core axis. Alteration is weak to moderate in gabbro but moderate in gabbronorite. Plag is epidotized in some sections of the core, especially the most fractured areas of the core.</p> <p>83.60m - 83.90m - Quartz vein White, moderately fractured No visible sulfides Upper and lower contacts are at 30° to core axis.</p> <p>86.60m - 86.90m - Tonalite Greyish white Upper contact sharp but irregular, lower contact sharp at 55° to core axis.</p>																
			2	2			035	82.10	83.60	1.50	tr		0.01	0.00	0.00	NS	NS	NS	
			nil	nil			036	83.60	83.90	0.30	nil		0.00	0.00	0.00	NS	NS	NS	
			2	2			037	83.90	86.60	2.70	tr		0.01	0.00	0.00	NS	NS	NS	
			nil	nil			038	86.60	86.90	0.30	nil		0.00	0.00	0.00	NS	NS	NS	
			2	3			039	86.90	90.00	3.10	tr		0.01	0.00	0.00	NS	NS	NS	
			2	3			040	90.00	92.70	2.70	tr		0.03	0.00	0.00	NS	NS	NS	
			2	3			041	92.70	93.40	0.70	1.00		0.03	0.02	0.00	NS	NS	NS	
			2	3			042	93.40	96.00	2.60	tr		0.08	0.02	0.00	NS	NS	NS	
			2	3			043	96.00	97.80	1.80	tr		0.19	0.03	0.00	NS	NS	NS	
			2	3			044	97.80	98.70	0.90	tr		0.43	0.06	0.00	NS	NS	NS	
			2	3			045	98.70	102.00	3.30	tr		0.13	0.01	0.00	NS	NS	NS	
			2	2			046	102.00	105.00	3.00	tr		0.43	0.03	0.00	NS	NS	NS	
			2	2			047	105.00	108.00	3.00	tr		0.25	0.02	0.00	NS	NS	NS	
			2	2			048	108.00	111.00	3.00	tr		0.24	0.02	0.00	NS	NS	NS	
			2	2			049	111.00	114.00	3.00	tr		0.15	0.02	0.00	NS	NS	NS	
			2	3			050	114.00	116.20	2.20	tr		0.17	0.03	0.01	NS	NS	NS	
			2	3			051	116.20	117.00	0.80	0.20		0.12	0.03	0.00	NS	NS	NS	
			3	3			052	117.00	120.00	3.00	0.25		0.14	0.03	0.00	NS	NS	NS	
			3	3			053	120.00	123.00	3.00	tr		0.02	0.00	0.00	NS	NS	NS	

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-133

LOGGED BY: I. Osmani SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
82.10	123.70	<b>GABBRO TO GABBRONORITE (continued)</b> (Intercalated)																
		92.70m - 93.40m - Mafic dike/diabase Greyish dark green Fine grained and magnetic Contains up to 1% fine grained, disseminated sulfides, (pyrite+/-pyrrhotite)																
		97.80m - 98.70m - Melanogabbronorite Dark green Strongly altered Strongly magnetic Nil to trace sulfides																
123.70	157.00	<b>GABBRONORITE +/- GABBRO</b> (Intercalated)																
		Similar to 82.10m - 123.70m except in this interval gabbro - norite is relatively more dominant than gabbro. Mineralogy of the gabbronorite and gabbro is similar to previous interval.																
		144.50m - Moderately to strongly foliated gabbro at 45° to core axis.																
		145.00m - Strongly foliated gabbronorite at 45° to core axis. Contact zone, gabbro-gabbronorite																
			3	4			054	123.00	127.00	4.00	tr		0.01	0.00	0.00	NS	NS	NS
			3	4			055	127.00	130.00	3.00	0.50		0.22	0.05	0.13	NS	NS	NS
			3	4			056	130.00	133.00	3.00	tr		0.03	0.00	0.00	NS	NS	NS
			3	3			057	133.00	135.60	2.60	tr		0.01	0.00	0.00	NS	NS	NS
			3	3			058	135.60	138.70	3.10	tr		0.01	0.00	0.01	NS	NS	NS
			3	3			059	138.70	142.00	3.30	tr		0.01	0.00	0.00	NS	NS	NS
			3	4			060	142.00	144.60	2.60	tr		0.02	0.00	0.00	NS	NS	NS
			3	4			061	144.60	147.00	2.40	0.25		0.01	0.00	0.00	NS	NS	NS
			3	4			062	147.00	150.00	3.00	tr		0.01	0.00	0.00	NS	NS	NS
			3	4			063	150.00	153.00	3.00	tr		0.01	0.00	0.00	NS	NS	NS
			3	4			064	153.00	156.00	3.00	tr		0.04	0.00	0.00	NS	NS	NS
			3	4			065	156.00	157.00	1.00	tr		0.02	0.00	0.00	NS	NS	NS

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-133LOGGED BY: I. Osmani

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
157.00	240.00		<b>GABBRO</b>															
		Contact (up hole) with the gabbronorite is gradational over approximately 1/2 meter.	3	4			066	157.00	159.00	2.00	nil		0.01	0.00	0.00	NS	NS	NS
		Gabbro is greyish-green to green	3	4			067	159.00	162.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
		Medium grained, equigranular	3	4			068	162.00	165.00	3.00	nil		0.02	0.00	0.00	NS	NS	NS
		Alteration is weak	3	4			069	165.00	168.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
		45-55% Plag, approximately 50% Cpx which is now partly altered to amphibole+chlorite.	3	4			070	168.00	171.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
		Epidote occurs along fractures and adjacent areas.	3	4			071	171.00	174.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
		No visible sulfides in the gabbro,	3	4			072	174.00	177.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
		May contain trace of pyrite locally.	3	4			073	177.00	180.00	3.00	nil		0.03	0.00	0.01	NS	NS	NS
		195.60m - 197.50m - Mafic dike	3	4			074	180.00	183.00	3.00	nil		0.04	0.01	0.02	NS	NS	NS
		Dark grey green	3	4			075	183.00	186.00	3.00	nil		0.03	0.02	0.01	NS	NS	NS
		Fine grained, non magnetic	3	4			076	186.00	189.00	3.00	nil		0.02	0.00	0.00	NS	NS	NS
		1-2% medium grained, pyrite disseminated cubic throughout.	3	4			077	189.00	192.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
		Upper contact diffused and fractured, lower contact at 45° to core axis.	3	4			078	192.00	195.00	3.00	nil		0.02	0.00	0.00	NS	NS	NS
			3	4			079	195.00	195.60	0.60	tr		0.02	0.00	0.01	NS	NS	NS
							080	195.60	197.50	1.90	1.50		0.02	0.01	0.00	NS	NS	NS
			2	2			081	197.50	200.00	2.50	nil		0.01	0.00	0.00	NS	NS	NS
			1	1			082	200.00	201.00	1.00	nil		0.02	0.00	0.02	0.029	0.013	0.003
			1	1			083	201.00	204.00	3.00	nil		0.01	0.00	0.00	0.009	0.005	0.002
			1	1			084	204.00	207.00	3.00	nil		0.02	0.00	0.00	0.009	0.005	0.001
			1	1			085	207.00	210.00	3.00	nil		0.02	0.00	0.00	0.008	0.004	0.001
			1	1			086	210.00	213.00	3.00	nil		0.01	0.01	0.00	0.009	0.005	0.002
			1	1			087	213.00	216.00	3.00	nil		0.01	0.00	0.00	0.008	0.005	0.002
			1	1			088	216.00	219.00	3.00	nil		0.05	0.00	0.01	0.012	0.006	0.002
			1	1			089	219.00	222.00	3.00	nil		0.02	0.00	0.00	0.008	0.005	0.002
			1	1			090	222.00	225.00	3.00	nil		0.01	0.00	0.00	0.008	0.004	0.002
			1	1			091	225.00	228.00	3.00	nil		0.03	0.00	0.00	0.008	0.005	0.002
			1	1			092	228.00	231.00	3.00	tr		0.02	0.00	0.01	0.011	0.005	0.002
			1	1			093	231.00	234.00	3.00	nil		0.02	0.00	0.00	0.008	0.005	0.002
			1	1			094	234.00	237.00	3.00	nil		0.03	0.00	0.00	0.008	0.005	0.002
			1	1			094	237.00	240.00	3.00	nil		0.02	0.00	0.00	0.007	0.004	0.001

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-133

LOGGED BY: I. Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
240.00	270.00		<p><b>GABBRO - MELANOGABBRONORITE - GABBRONORITE (INTERLAYERED)</b></p> <p>Gabbro is thicker and predominant phase over melanogabbro. Melanogabbro and gabbronorite sections, which alternate with gabbro, are usually 2 to 3 meters wide. 35-50% Plag, and 50% Cpx+/- amphibole in melanogabbro. Alteration is generally moderate, but locally may get stronger, epidote occurs along and adjacent to fractures, actinolite (after Cpx) and saussurite (Plag). Majority of the fractures and contacts are at 45° to core axis.</p> <p>245.40m - 247.10m - Melanogabbro Upper contact is gradational with gabbro and lower contact is marked by intermediate-felsic dike.</p> <p>247.10m - 247.70m - Intermediate-felsic dike (feldspar porphyry) Pinkish colour due to hematization(?) 5-10%, 1-3mm feldspar phenocrysts are set within aphanatic felsic matrix Upper and lower contacts at 15° to core axis. Lower contact is fractured.</p> <p>256.10m - 258.00m - Melanogabbronorite Dark green Medium grained, equigranular 15-20% Plag, approximately 15% Opx, 60-65% Cpx +/- amphiboles. Strongly magnetic. At 267.60m - Fracture at 15° to core axis, fracture carbonate coated At 269.65m - Fracture at 45° to core axis.</p>																
			1	1			095	240.00	243.00	3.00	nil		0.05	0.01	0.00	0.008	0.004	0.002	
			1	1			096	243.00	245.50	2.50	tr		0.02	0.00	0.00	0.010	0.004	0.002	
			1	1			097	245.50	247.10	1.60	tr		0.03	0.01	0.00	0.010	0.007	0.003	
			1	1			098	247.10	247.70	0.60	nil		0.01	0.00	0.00	0.006	0.003	0.001	
			1	1			099	247.70	251.00	3.30	nil		0.02	0.00	0.00	0.007	0.004	0.001	
			1	1			100	251.00	254.00	3.00	nil		0.02	0.00	0.00	0.008	0.003	0.001	
			1	1			101	254.00	256.10	2.10	nil		0.03	0.00	0.00	0.009	0.005	0.002	
			1	1			102	256.10	258.00	1.90	tr		0.03	0.00	0.00	0.010	0.007	0.003	
			1	1			103	258.00	261.00	3.00	tr		0.03	0.00	0.00	0.006	0.004	0.002	
			1	1			104	261.00	264.00	3.00	tr		0.03	0.00	0.00	0.012	0.005	0.001	
			1	1			105	264.00	267.00	3.00	tr		0.03	0.00	0.00	0.007	0.004	0.001	
			1	1			106	267.00	270.00	3.00	tr		0.05	0.00	0.00	0.019	0.005	0.001	



## DIAMOND DRILL CORE LOGGING SHEETS

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PROPERTY LDI ZONE Roby HOLE # 00-133

LOGGED BY: I. Osmani

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
285.40	358.40		<b>GABBRO TO MELANOGABBRO</b>															
		Greyish-green Medium to coarse grained and locally pegmatitic 50-60% Plag, 40-50% Cpx in gabbro; 20-25% Plag, 75-80% Cpx in melanogabbro Alteration is moderate to strong. Plag is commonly epidotized and/or hematized within zones of faulting/fracturing Cpx is probably altered to amphibole and minor chlorite.	3	3			119	285.40	288.40	3.00	1.00		2.03	0.14	0.16	0.066	0.051	0.004
			3	3			120	288.40	290.30	1.90	0.50		4.79	0.34	0.30	0.120	0.072	0.004
			3	3			121	290.30	293.00	2.70	tr		6.81	0.41	0.38	0.050	0.067	0.004
			3	3			122	293.00	296.10	3.10	tr		3.09	0.21	0.16	0.068	0.086	0.004
			2	nil			123	296.10	298.90	2.80	0.25		0.08	0.01	0.01	0.008	0.009	0.001
			3	3			124	298.90	302.00	3.10	tr		0.19	0.05	0.15	0.066	0.099	0.004
			3	3			125	302.00	305.00	3.00	0.25	1:1	2.34	0.21	0.16	0.046	0.056	0.003
			3	3			126	305.00	308.00	3.00	0.50	1:1	0.60	0.07	0.09	0.030	0.035	0.003
			3	3			127	308.00	311.00	3.00	tr		1.25	0.19	0.21	0.117	0.071	0.004
		287.70m - 288.20m - Melanogabbro	3	3			128	311.00	312.00	1.00	1.00	10:1	0.29	0.03	0.09	0.047	0.025	0.002
		288.20m - 288.40m - Mafic dike/diabase dike	nil	nil			129	312.00	312.90	0.90	tr		0.01	0.00	0.01	0.011	0.003	0.002
		Greyish-dark green Fine grained, strongly magnetic Upper contact is fractured	3	3			130	312.90	315.00	2.10	tr		0.68	0.07	0.02	0.025	0.032	0.003
			3	3			131	315.00	317.80	2.80	1.00		2.35	0.16	0.17	0.083	0.064	0.004
			nil	nil			132	317.80	318.60	0.80	nil		0.43	0.04	0.07	0.029	0.010	0.002
		290.30m - 296.10m - Melanogabbro	3	3			133	318.60	320.10	1.50	0.50	10:1	4.40	0.23	0.14	0.061	0.058	0.003
		295.40m - 295.60m - Hematized tonalitic dike Upper and lower contacts are sharp and wavy at approximately 45° to core axis.	nil	nil			134	320.10	321.70	1.60	nil		0.02	0.00	0.02	0.018	0.008	0.003
			3	3			135	321.70	325.00	3.30	0.25	5:1	1.40	0.12	0.09	0.040	0.036	0.002
			3	3			136	325.00	327.00	2.00	tr		0.72	0.09	0.05	0.018	0.021	0.002
		296.10m - 298.90m - Intermediate to felsic dike (feldspar porphyry) Brownish-grey 15-20%, 1-3mm feldspar phenocrysts are set within aphanitic groundmass. Trace pyrite.	3	3			137	327.00	330.00	3.00	0.25		0.90	0.08	0.06	0.024	0.023	0.002
			3	3			138	330.00	333.00	3.00	0.25	5:1	1.41	0.11	0.09	0.036	0.029	0.003
			3	3			139	333.00	336.00	3.00	2.00	2:1	2.07	0.16	0.10	0.048	0.054	0.004
			3	3			140	336.00	339.00	3.00	1.00	3:1	3.10	0.21	0.21	0.082	0.076	0.004
			3	3			141	339.00	342.00	3.00	2.00	1:2	3.23	0.20	0.32	0.126	0.122	0.005
		305.10m - 305.20m - Tonalite dike Upper and lower contacts are fractured at 70° to core axis.	3	3			142	342.00	345.00	3.00	2.50	1:2	4.67	0.26	0.62	0.159	0.129	0.005
			3	3			143	345.00	348.00	3.00	3.00	0.8:1	7.70	0.39	0.67	0.219	0.198	0.006
		311.50m - 311.60m - Mafic/diabase dike Strongly magnetic Feldspar porphyry	3	3			144	348.00	351.00	3.00	3.00	0.8:1	1.38	0.11	0.20	0.138	0.116	0.004
			3	3			145	351.00	354.00	3.00	3.00	0.8:1	2.73	0.20	0.41	0.177	0.150	0.005
			3	3			146	354.00	357.00	3.00	1.50	0.8:1	0.42	0.02	0.05	0.038	0.039	0.003
		Upper contact fractured at 50° and lower contact sharp at 45° to core axis.	3	3			147	357.00	358.40	1.40	tr	0.8:1	0.72	0.04	0.07	0.081	0.063	0.003

# DIAMOND DRILL CORE LOGGING SHEETS

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LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-133

LOGGED BY: I. Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
285.40	358.40	<b>GABBRO TO MELANOGABBRO (continued)</b>																
		311.00m - 319.00m - Moderately to locally strongly broken core suggesting proximity to fault; the zone is also characterized by micro-fractures, often coated with carbonate and mafic and intermediate dike rocks. Host gabbro and dikes are also brecciated at many locations within the fault zone.																
		312.00m - 312.90m - Mafic/diabase dike similar to 311.50m, but feldspar phenocrysts are lacking in this section.																
		320.10m - 321.70m - Mafic dike similar to 312.00m. Upper and lower contacts sharp at 45° to core axis.																
		345.90m - 358.40m - Melanogabbro with minor gabbro. The interval is dominated by relatively well mineralized melanogabbro (up to 3% sulfides - chalcopyrite dominates over pyrrhotite). Narrow (few cm to <1/2 meter wide) gabbro interlayered/intercalated with melanogabbro.																
358.40	468.80	<b>DIABASE/MAFIC DIKE</b>	nil	nil			148	358.40	360.00	1.60	0.25		0.79	0.04	0.02	0.016	0.009	0.002
		Greyish-black to dark green	nil	nil			149	360.00	363.00	3.00	0.50		0.15	0.01	0.01	0.020	0.011	0.003
		Two varieties of diabase/mafic dike ;	nil	nil			150	363.00	366.60	3.60	1.00		0.03	0.00	0.01	0.015	0.005	0.003
		1) Aphyric magnetic dike, and	3	3			151	366.60	369.40	2.80	3.00	2:1	4.40	0.43	0.40	0.296	0.183	0.006
		2) Plagioclase-phyric, non magnetic to magnetic dike	nil	nil			152	369.40	372.50	3.10	nil		0.08	0.00	0.05	0.024	0.005	0.002
		These two dikes are gradational into each other	3	3			153	372.50	374.80	2.30	2.00	10:1	4.74	0.31	0.48	0.196	0.152	0.005
		In Plag-phyric dike, 2mm to up to 1cm long Plag phenocrysts are set within fine grained ground mass.	nil	nil			154	374.80	378.00	3.20	nil		0.03	0.00	0.01	0.014	0.004	0.002
		Dikes contain many gabbroic inclusions ranging from a	nil	nil			155	378.00	378.40	0.40	nil		0.05	0.01	0.01	0.009	0.004	0.002
			4	3			156	378.40	381.20	2.80	1.50	1:2	2.94	0.35	0.36	0.154	0.115	0.004
			nil	nil			157	381.20	384.00	2.80	nil		0.14	0.00	0.16	0.040	0.004	0.002

## DIAMOND DRILL CORE LOGGING SHEETS

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PROPERTY LDI ZONE Roby HOLE # 00-133LOGGED BY: I. Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
358.40	468.80		<b>DIABASE/MAFIC DIKE (continued)</b>  cms up to 3 meters in width. Dikes contain medium to fine grained pyrite (trace - .2%) Some are up to 1/2 cm across Upper contact is approximately 45° to core axis. At 365.30m -Hairline fractures at approximately 40° to core axis. These fractures offset quartz-carbonate veinlets both sinistrally and dextrally. 366.60m - 369.40m - Gabbro to leucogabbro Greyish-white to light green Coarse to pegmatitic 20-40% Cpx (altered to amphiboles+chlorite); 60-80% Plag, (saussuritized) Up to 3% sulfides (chalcopyrite+/-pyrrhotite) - coarse to medium grained. 372.50m - 373.30m - Leucogabbro to gabbro Grey to greyish-light green Coarse to medium grained Minerology similar to 366.60m Coarse grained (chunks), up to 1.5% chalcopyrite+/-pyrrhotite. 373.50m - 374.80m - Leucogabbro Greenish-grey Coarse grained 70-80% Plag, 20-30% Cpx (amphibole+chlorite) Up to 0.25% fine grained sulfides (chalcopyrite+/-pyrrhotite)	nil	nil			158	384.00	386.50	2.50	nil		0.18	0.02	0.09	0.045	0.010
			3	3			159	386.50	387.70	1.20	tr		1.87	0.17	0.07	0.038	0.066	0.003
			nil	nil			160	387.70	390.00	2.30	nil		0.00	0.00	0.01	0.008	0.002	0.002
			nil	nil			161	390.00	393.00	3.00	nil		0.01	0.00	0.00	0.006	0.002	0.002
			nil	nil			162	393.00	396.00	3.00	nil		0.00	0.00	0.00	0.008	0.002	0.002
			nil	nil			163	396.00	399.00	3.00	nil		0.00	0.00	0.00	0.005	0.002	0.002
			nil	nil			164	399.00	402.00	3.00	nil		0.00	0.00	0.00	0.005	0.002	0.002
			nil	nil			165	402.00	405.00	3.00	nil		0.00	0.00	0.01	0.009	0.003	0.002
			nil	nil			166	405.00	408.00	3.00	nil		0.00	0.00	0.00	0.006	0.003	0.003
			nil	nil			167	408.00	411.00	3.00	nil		0.00	0.00	0.00	0.006	0.003	0.002
			nil	nil			168	411.00	412.10	1.10	nil		0.20	0.02	0.02	0.023	0.009	0.002
			3	3			169	412.10	413.80	1.70	nil		0.13	0.03	0.01	0.006	0.017	0.002
			nil	nil			170	413.80	417.00	3.20	nil		0.07	0.00	0.01	0.008	0.005	0.003
			nil	nil			171	417.00	418.20	1.20	nil		0.02	0.00	0.01	0.009	0.003	0.002
			2	3			172	418.20	418.70	0.50	tr		0.05	0.00	0.02	0.013	0.005	0.002
			nil	nil			173	418.70	422.00	3.30	nil		0.55	0.06	0.01	0.004	0.024	0.002
			nil	nil			174	422.00	425.00	3.00	nil		0.00	0.00	0.00	0.006	0.002	0.002
			nil	nil			175	425.00	426.90	1.90	nil		0.04	0.00	0.00	0.006	0.005	0.002
			3	3			176	426.90	429.25	2.35	tr		0.03	0.00	0.00	0.009	0.004	0.002
			nil	nil			177	429.25	431.30	2.05	nil		0.72	0.10	0.04	0.021	0.038	0.003
			3	3			178	431.30	435.00	3.70	0.25		0.01	0.00	0.01	0.008	0.003	0.002
			nil	nil			179	435.00	438.00	3.00	nil		1.35	0.20	0.13	0.068	0.051	0.003
			nil	nil			180	438.00	441.00	3.00	nil		0.00	0.00	0.01	0.007	0.001	0.002
			nil	nil			181	441.00	444.00	3.00	nil		0.00	0.00	0.00	0.009	0.001	0.002
			nil	nil			182	444.00	447.00	3.00	nil		0.02	0.00	0.00	0.007	0.002	0.002
			nil	nil			183	447.00	450.00	3.00	nil		0.00	0.00	0.00	0.005	0.003	0.002
			nil	nil			184	450.00	453.00	3.00	nil		0.00	0.00	0.00	0.006	0.002	0.002
			nil	nil			185	453.00	456.00	3.00	nil		0.00	0.00	0.00	0.004	0.001	0.002
			nil	nil			186	456.00	459.00	3.00	0.25		0.00	0.00	0.00	0.006	0.001	0.002
			nil	nil			187	459.00	462.00	3.00	1.00		0.00	0.00	0.00	0.007	0.001	0.002





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-133

LOGGED BY: I. Osmani

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
358.40	468.80	<b>DIABASE/MAFIC DIKE (continued)</b>																
		429.25m - 429.36m - Tonalite dike Greyish white Contains gabbroic inclusion Sulfide in hairline fracture																
		431.30m - 435.00m - Leucogabbro to gabbro Similar to 426.90m, except it has relatively more sulfides (approximately 0.25%).																
468.80	492.90	<b>HETEROLITHIC BRECCIA</b>																
		Breccia consists of at least three types of fragments - coarse grained gabbro, pegmatitic gabbro, and leucogabbro. The matrix to these fragments is medium to fine grained melanogabbro.	4	4			191	468.80	471.00	2.20	1.00	10:2	3.30	0.61	0.15	0.087	0.060	0.004
		The upper 4 meters of the interval is interpreted here to be breccia, but it could be varitextured gabbro.	4	4			192	471.00	474.00	3.00	1.00	10:2	1.32	0.19	0.07	0.051	0.043	0.003
		Sulfides (chalcopyrite+pyrrhotite) are medium grained to coarse grained but they can measure up to 2cm long. The chalcopyrite is usually dominant over the pyrrhotite.	4	4			193	474.00	477.00	3.00	0.50	10:2	1.74	0.32	0.06	0.038	0.040	0.003
		Alteration is strong to intense.	4	4			194	477.00	480.00	3.00	tr	10:2	0.92	0.10	0.06	0.052	0.046	0.003
			4	4			195	480.00	483.00	3.00	0.50	10:2	1.62	0.35	0.04	0.038	0.037	0.002
			4	4			196	483.00	486.00	3.00	0.50	10:5	0.99	0.19	0.03	0.032	0.032	0.002
			4	4			197	486.00	488.60	2.60	0.75	10:1	1.26	0.18	0.05	0.055	0.035	0.003
			nil	nil			198	488.60	491.80	3.20	1.00	nil	0.02	0.00	0.00	0.006	0.005	0.001
			nil	nil			199	491.80	492.90	1.10	1.00	nil	0.12	0.02	0.01	0.007	0.016	0.003

# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-133

LOGGED BY: I. Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
492.90	508.00		<b>GABBRO TO MELANOGABBRO</b>															
	EOH	Medium to coarse grained, locally weakly varitextured gabbro Green to dark green Strongly altered Intruded by relatively abundant tonalitic dikes Overall sulfide mineralization is <1%, but locally may exceed >2%; chalcopyrite to pyrrhotite ratio appears to be 1:1	4	4			200	492.90	496.00	3.10	1.50	1:1	0.58	0.08	0.07	0.046	0.040	0.003
		505.80m - 507.80m - Mafic/diabase dike Greenish-dark grey Fine grained Strongly magnetic Upper and lower contacts at 50° and 45° to core axis, respectively	4	4			201	496.00	499.00	3.00	0.25	1:1	0.57	0.06	0.03	0.027	0.029	0.003
			4	4			202	499.00	502.00	3.00	1.00	1:1	0.71	0.06	0.19	0.053	0.033	0.003
			4	4			203	502.00	505.00	3.00	0.50	1:1	1.15	0.18	0.06	0.046	0.035	0.003
			4	4			204	505.00	505.80	0.80	tr	1:1	0.23	0.05	0.01	0.009	0.014	0.002
		507.80m - 508.00m - Gabbro Up to 1.5% chalcopyrite and pyrrhotite.	nil	nil			205	505.80	508.00	2.20	1.00	1:1	0.48	0.07	0.05	0.027	0.012	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>			Maxibor	<b>DRILLING COMPANY:</b>			CHIBOUGAMAU		
<b>HOLE NO.:</b>	00-134	<b>LENGTH: (m)</b>	572.0m	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b>	Core stored at Lac des Iles mine site
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b>	32018.52	<b>EASTING:</b>	32327.17								
<b>SECTION:</b>	507	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	504.552							<b>DATE LOGGED:</b>	June 12-17, 2000
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>		<b>PLANNED:</b>	251/-50	<b>SURVEYED:</b>	250.55/-49.9							<b>LOGGED:</b>	M. MacIsaac
<b>HOLE STARTED:</b>	06-Jun-00	<b>HOLE FINISHED:</b>	15-Jun-00	<b>MAG DECLINATION:</b>	2.1° w							<b>SIGNATURE:</b>	<i>[Signature]</i>
												I. Osmani	<b>SHEET 1 OF 16</b>

METERAGE		DESCRIPTION	Rock Code	Bx Matrix				SAMPLES					ASSAYS				
FROM	TO			Alt <sup>n</sup>	Comp	Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %
0.00	6.80	<b>CASING</b> Gabbro boulders up to 30cm.				001	0.00	6.80				0.02	0.00	0.00	NS	NS	NS
6.80	7.30	<b>MAFIC DIKE</b> Fine grained, locally aphanitic. Dark grey-black. Non-magnetic. Moderately fractured. Sheared, brecciated lower contact.				002	6.80	7.30	0.50	0.25		0.00	0.00	0.01	NS	NS	NS
7.30	65.50	<b>MELANOGABBRONORITE</b> Dark grey-green, brownish tinge, buff grey. Medium grained. 5-15% Plag, 15-35% Cpx, 50-80% Opx Unit is strongly altered with Opx almost completely altered to tremolite throughout, Cpx to actinolite - locally chloritized. Plag locally recrystallized to Cpx along rims. Moderately feldspar phytic. Moderately fractured at 40-55° to core axis, with associated serpentinite. Opx locally brownish in colour, altered along rims, buff grey-brown. Weakly mineralized with 0.5% pyrrhotite-pyrite at upper contact. Several narrow zones of stringer				003	7.30	9.00	1.70	0.25		0.18	0.03	0.01	NS	NS	NS
						004	9.00	12.00	3.00	tr		0.30	0.05	0.03	NS	NS	NS
						005	12.00	15.00	3.00	nil		0.13	0.03	0.01	NS	NS	NS
						006	15.00	18.00	3.00	nil		0.13	0.03	0.00	NS	NS	NS
						007	18.00	21.00	3.00	nil		0.11	0.03	0.00	NS	NS	NS
						008	21.00	24.00	3.00	nil		0.12	0.02	0.01	NS	NS	NS
						009	24.00	27.00	3.00	nil		0.11	0.01	0.00	NS	NS	NS
						010	27.00	30.00	3.00	nil		0.11	0.03	0.00	NS	NS	NS
						011	30.00	33.00	3.00	nil		0.09	0.02	0.01	NS	NS	NS
						012	33.00	36.00	3.00	nil		0.13	0.03	0.02	NS	NS	NS
						013	36.00	39.00	3.00	nil		0.11	0.03	0.01	NS	NS	NS
						014	39.00	42.00	3.00	nil		0.13	0.03	0.02	NS	NS	NS
						015	42.00	45.00	3.00	tr		0.11	0.04	0.01	NS	NS	NS
						016	45.00	46.30	1.30	10		1.44	0.12	0.19	NS	NS	NS
						017	46.30	48.00	1.70	tr		0.19	0.03	0.03	NS	NS	NS
						018	48.00	51.00	3.00	tr		0.14	0.04	0.01	0.021	0.014	0.002
						019	51.00	52.50	1.50	1.50		0.11	0.03	0.02	0.021	0.011	0.002



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LAC DES ILES

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## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-134

LOGGED BY: M. MacIsaac/I.Osmani

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy.Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
7.30	65.50	<b>MELANOGABBRONORITE (continued)</b> pyrrhotite-pyrite 0.7m, local chalcopyrite. Local strong mottled texture. Local tonalite sweats with quartz and Plag. Several leucogabbro and gabbro rafts predominantly within 9m of upper contact. Rafts up to 0.8m with associated epidote. Local talc along fractures. Local zones of unaltered Opx up to 3m. 45.35m - 46.30m - Stringer pyrrhotite-pyrite, fine sulfides 10-20%, local chalcopyrite blebs. 52.50m - 54.00m - Pegmatitic gabbro, Opx up to 2.5cm, subhedral, 1-5% pyrrhotite-pyrite, interstitial. Lower contact moderately sheared at 30° to core axis.	2	3			020	52.50	54.00	1.50	1.50		1.09	0.22	0.20	0.318	0.289	0.013
			2	3			021	54.00	57.00	3.00	tr		0.16	0.02	0.03	0.047	0.032	0.005
			2	3			022	57.00	60.00	3.00	tr		0.24	0.04	0.02	0.024	0.021	0.004
			2	3			023	60.00	63.00	3.00	tr		0.48	0.07	0.06	0.038	0.028	0.003
			2	3			024	63.00	65.60	2.60	tr		0.33	0.06	0.03	NS	NS	NS
65.60	107.20	<b>GABBRO</b> Medium grey-green, buff grey-green. Medium grained. 50% Plag; 40% Cpx; 5% Opx. Moderately altered with Cpx to actinolite, Plag weakly magenta red. Trace to 0.25% disseminated pyrite. 71.00m - 71.50m - Gabbro. Locally grades into leucogabbro. Locally magnetic. Unit locally grades into melanogabbro.	2	2			025	65.60	67.00	1.40	tr		0.17	0.01	0.00	NS	NS	NS
			2	2			026	67.00	69.00	2.00	tr		0.05	0.01	0.00	NS	NS	NS
			2	2			027	69.00	72.00	3.00	tr		0.05	0.04	0.00	NS	NS	NS
			2	2			028	72.00	75.00	3.00	tr		0.15	0.02	0.04	NS	NS	NS
			2	2			029	75.00	78.00	3.00	tr		0.09	0.01	0.01	NS	NS	NS
			2	2			030	78.00	81.00	3.00	tr		0.11	0.02	0.01	NS	NS	NS
			2	2			031	81.00	84.00	3.00	0.25		0.07	0.01	0.01	NS	NS	NS
			2	2			032	84.00	87.00	3.00	0.25		0.10	0.01	0.03	NS	NS	NS
			2	2			033	87.00	90.00	3.00	tr		0.10	0.02	0.01	NS	NS	NS
			2	2			034	90.00	93.00	3.00	tr		0.08	0.01	0.00	NS	NS	NS
			2	2			035	93.00	96.00	3.00	tr		0.06	0.00	0.00	NS	NS	NS
			2	2			036	96.00	99.00	3.00	tr		0.01	0.00	0.00	NS	NS	NS
			2	2			037	99.00	102.00	3.00	tr		0.02	0.00	0.00	NS	NS	NS





## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-134

LOGGED BY: M. MacIsaac/I.Osmani

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
166.35	172.00						<b>MAGNETITE GABBRO</b>  Medium to dark green-grey. Medium grained. 45% Plag; 55% Cpx. Weakly altered. 1-4% very interstitial black magnetite. Cpx locally to actinolite. Relatively massive and unfractured. Local pyrite (locally cubic) with magnetite.	1	1			064	166.35	168.00	1.65	tr		0.07
			1	1			065	168.00	171.00	3.00	tr		0.04	0.00	0.01	0.016	0.033	0.006
			1	1			066	171.00	172.00	1.00	tr		0.06	0.01	0.00	0.010	0.039	0.007
172.00	260.80	<b>GABBRO</b>  50-55% Plag; 45-50% Cpx; locally 20% Opx. Medium grey-green, locally brownish. Medium grained, equigranular. Weakly altered with Cpx locally to actinolite, local epidote replacing Plag. Epidote patchy in nature. Plag locally reddish in colour, increasing down section. Texturally, this unit is similar to east gabbro. Unit is moderately hard. Unit has local sections up to 4m of gabbronorite, possible layering with 20% brownish Opx. Gradational. Texturally gabbronorite, same as gabbros. Very fine trace disseminated pyrite, locally along fractures. 178.80m - 183.50m - Gabbronorite. 196.60m - 199.70m - Gabbronorite. 201.00m - 202.50m - Gabbronorite. 205.20m - 206.50m - Gabbronorite.	1	1			067A	172.00	174.00	2.00	tr		0.12	0.03	0.02	0.058	0.038	0.005
			1	1			067	174.00	177.00	3.00	tr		0.52	0.09	0.03	NS	NS	NS
			1	1			068	177.00	180.00	3.00	tr		0.01	0.00	0.00	NS	NS	NS
			1	1			069	180.00	183.00	3.00	tr		0.00	0.00	0.00	NS	NS	NS
			1	1			070	183.00	186.00	3.00	tr		0.02	0.00	0.00	NS	NS	NS
			1	1			071	186.00	189.00	3.00	tr		0.01	0.00	0.00	NS	NS	NS
			1	1			072	189.00	192.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
			1	1			073	192.00	195.00	3.00	nil		0.00	0.00	0.00	NS	NS	NS
			1	1			074	195.00	201.00	6.00	nil		0.02	0.00	0.00	NS	NS	NS
			1	1			075	201.00	204.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
			1	1			076	204.00	207.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
			1	1			077	207.00	210.00	3.00	0.50		0.01	0.00	0.00	NS	NS	NS
			1	1			078	210.00	213.00	3.00	tr		0.02	0.00	0.01	NS	NS	NS
			1	1			079	213.00	216.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
			1	1			080	216.00	219.00	3.00	nil		0.01	0.00	0.01	NS	NS	NS
			1	1			081	219.00	222.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
			1	1			082	222.00	225.00	3.00	nil		0.01	0.00	0.00	NS	NS	NS
			1	1			083	225.00	225.00	0.00	nil		0.02	0.00	0.00	NS	NS	NS











# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Twilight HOLE # 00-134

LOGGED BY: M. MacIsaac/I.Osmani SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
382.00	389.00	<b>MAFIC DIKE</b>  Previously called diabase dike, with inclusions of breccia clasts. Greyish-black mafic dike. Fine grained and strongly magnetic. Cut by numerous hairline fractures of variable orientation. Contains breccia xenoliths - a few cm to one and a half metres in size. Micaceous weakly feldspar porphyritic in certain areas. Upper contact sharp at ~45° to core axis, lower contact fractured at ~40° to 60° to core axis. 374.50m - 385.50m - Gabbroic breccia fragment Fine grained, ~1% disseminated sulfides. Sharp but irregular contact with mafic dike. Fragment is coarse to pegmatitic gabbro. Plag is epidotized.					143	382.00	384.50	2.50	nil		0.04	0.00	0.05	0.020	0.003	0.002
							144	384.50	385.50	1.00	nil		3.59	0.24	0.20	0.068	0.077	0.004
							145	385.50	387.00	1.50	nil		2.24	0.15	0.24	0.085	0.068	0.004
							146	387.00	389.00	2.00	nil		0.17	0.01	0.02	0.019	0.005	0.002
389.00	407.30	<b>HETEROLITHIC BRECCIA</b>  Similar to 357.00m - 382.00m - except here the coarse grained and pegmatitic gabbroic fragments predominate over the matrix (i.e.. fragment supported). 392.50m - 393.00m - Mafic dike (previously diabase dike) Similar to 382.00m - 389.00m.	4	4			147	389.00	390.50	1.50	tr		0.68	0.05	0.04	0.018	0.021	0.002
			4	4			148	390.50	392.50	2.00	0.50	1:2	0.88	0.06	0.05	0.032	0.035	0.002
							149	392.50	393.00	0.50	tr		0.13	0.01	0.05	0.026	0.010	0.002
			4	4			150	393.00	396.00	3.00	1.00	1:4	1.15	0.09	0.13	0.039	0.037	0.003
			4	4			151	396.00	399.00	3.00	2.00	1:4	1.34	0.11	0.18	0.087	0.089	0.004
			4	4			152	399.00	402.00	3.00	1.50	1:4	0.60	0.10	0.12	0.075	0.069	0.003
			4	4			153	402.00	405.00	3.00	0.50	1:4	0.82	0.09	0.12	0.066	0.055	0.003
							154	405.00	407.30	2.30	0.75	4:1	1.26	0.12	0.17	0.073	0.060	0.003















# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY:	LAC DES ILES	CLAIM NUMBER:	253	DOWNHOLE SURVEY METHOD:					Maxibor	DRILLING COMPANY:				CHIBOUGAMAU	
HOLE NO.:	00-196	LENGTH: (m)	251.5m	CORE SIZE:	NQ	DEPTH	DIP	AZM	DEPTH	DIP	AZM	REMARKS: Core stored at Lac des Iles mine site			
LOCATION - MINE GRID		NORTHING:	32179.840	EASTING:	31766.23										
SECTION:	518N	ZONE:	ROBY	ELEVATION:	504.6							DATE LOGGED:	June 20-21, 2000		
COLLAR ORIENTATION (AZIMUTH / DIP);		PLANNED:	071/-45°	SURVEYED:	70.85/-44.65°							LOGGED:	B. Nelson	SIGNATURE:	
HOLE STARTED:	16-Jun-00	HOLE FINISHED:	20-Jun-00	MAG DECLINATION:	2.1° w							SHEET	1	OF	8

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS								
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %
			Plag	Pxr	Comp	Prop <sup>r</sup>											
0.00	20.70	OVERBURDEN (RUBBLE - RING ROAD)															
							OB-	18.50	20.70								
								Coarse grained gabbro and coarse grained gabbro + minor diorite + minor fine grained gabbro. Local medium grained to very coarse grained bleby pyrrhotite and chalcopyrite.									
20.70	51.50	HETEROLITHIC GABBRONORITE BRECCIA															
		Fine grained to medium grained to coarse grained to locally pegmatitic, moderately dark, slightly greenish-grey to light greenish-grey. moderately soft to hard and not magnetic, composed of coarse grained to very coarse grained to pegmatitic more leucocratic fragments set in a finer medium grained more melanocratic matrix, predominantly sharp contacts between fragments and matrix, fragment size varies from 10cm to approximately 2 meters, overall 50% fragments and 50% matrix, very local minor erratic white quartz - Plag stringers and veinlets. Matrix appears more altered and more mineralized than the fragments. 10-25% Opx, 20-40% Cpx, 35-65% Plag Strong alteration of Opx to tremolite +/- talc Strong alteration of Cpx to actinolite Strong alteration of Plag, very irregular shaped grey-white clusters. Overall trace to locally 1% sulfide mineralization as fine grained to medium grained disseminated chalcopyrite plus associated pyrrhotite.															
							001	20.70	24.00	3.30	tr	0.206	0.050	0.016	0.011	0.012	0.002
							002	24.00	27.00	3.00	tr	0.154	0.050	0.022	0.014	0.014	0.002
							003	27.00	30.00	3.00	tr	0.378	0.095	0.032	0.021	0.023	0.003
							004	30.00	33.00	3.00	tr	0.344	0.070	0.032	0.022	0.018	0.002
							005	33.00	36.00	3.00	tr	0.196	0.045	0.030	0.021	0.016	0.002
							006	36.00	39.00	3.00	tr	0.068	0.010	0.018	0.014	0.010	0.002
							007	39.00	42.00	3.00	0.25	0.588	0.155	0.092	0.046	0.035	0.003
							008	42.00	45.00	3.00	0.25	0.266	0.075	0.070	0.027	0.020	0.002
							009	45.00	48.00	3.00	tr	0.160	0.050	0.014	0.007	0.010	0.002
							010	48.00	50.00	2.00	0.50	0.562	0.125	0.072	0.049	0.035	0.003
							011	50.00	51.50	1.50	0.25	1.075	0.180	0.098	0.055	0.036	0.003





# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-196

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
51.50	103.30		<b>VARITEXRURED GABBRONORITE (continued)</b>  90.50m - 91.40m - Patchy Plag alteration, local minor epidote. Possible altered diorite dike Diffuse contacts 98.90m - 100.30m - Mafic dike Fine grained, grey, hard and not magnetic Local moderate irregular medium grained locally hematized feldspathic inclusions. Ground - clayey core (<5mm wide) at 98.90m contact, ground by shearing at 50° to core axis.															
103.30	125.50	<b>GABBRONORITE</b>  Very coarse grained, greenish-grey, hard, not magnetic and relatively equigranular, local moderate patchy epidote, local very minor erratic white quartz-plag stringers and veinlets, local 30-50cm scale finer medium grained gabbronorite xenoliths/dikes? 15-25% Opx 20-40% Cpx 40-65% Plag Strong alteration of Opx to tremolite Strong alteration of Cpx to actinolite Strong alteration of Plag (locally sausseritized) Local trace very fine grained disseminated pyrite/pyrrhotite? Gradational-subjective upper and lower contacts At 108.00m - one book of biotite observed on broken core	3	3			030	103.30	105.50	2.20	tr		0.376	0.030	0.012	0.008	0.008	0.001
			3	3			031	105.50	108.00	2.50	tr		0.160	0.030	0.010	0.004	0.006	0.001
			3	3			032	108.00	111.00	3.00	nil		0.192	0.035	0.004	0.003	0.007	0.001
			3	3			033	111.00	114.00	3.00	nil		0.164	0.040	0.000	0.001	0.009	0.001
			3	3			034	114.00	117.00	3.00	nil		0.164	0.040	0.000	0.002	0.008	0.001
			3	3			035	117.00	120.00	3.00	nil		0.564	0.070	0.012	0.007	0.011	0.002
			3	3			036	120.00	123.00	3.00	nil		0.232	0.055	0.008	0.005	0.007	0.001
			3	3			037	123.00	125.50	2.50	nil		0.146	0.040	0.002	0.002	0.008	0.001

# DIAMOND DRILL CORE LOGGING SHEETS

PROPERTY LDI ZONE Roby HOLE # 00-196

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	NI %	Co %
125.50	169.30	<p><b>GABBRONORITE</b></p> <p>Predominantly to locally medium grained to very coarse grained, greenish-grey, locally hard to soft and not magnetic, exhibiting a patchy mottled appearance defined by relatively large, irregular white-grey patches of Plag, local minor white-grey quartz veining, local minor white-grey to pinkish-white (weakly hematite altered) diorite dikelets, locally weakly varitextured.                      10 to locally 20% Plag,                      30-50% Cpx                      40-60% Opx                      Intense alteration of Opx to tremolite and talc                      Intense alteration of Cpx to actinolite                      Intense alteration of Plag (patchy).                      Very weakly mineralized unit, local minor fine grained disseminated pyrite and associated chalcopyrite.                      Gradational upper and lower contacts.</p> <p>160.00m - 162.30m - Norite - medium grained, brownish-grey, hard and locally weakly magnetic, exhibiting pseudo-porphyrific texture defined by 25% relict grey-white anhedral Plag crystals.                      25-40% Opx                      &lt;10% Cpx                      35-65% Plag                      Strong to intense alteration of Opx                      Intense alteration of Plag (dark brown-grey), no individual crystals.</p>	4	4			038	125.50	127.00	1.50	tr		2.650	0.185	0.052	0.011	0.022	0.002
			4	4			039	127.00	129.00	2.00	tr		3.840	0.255	0.042	0.003	0.009	0.001
			4	4			040	129.00	132.00	3.00	tr		2.100	0.160	0.032	0.010	0.015	0.002
			4	4			041	132.00	135.00	3.00	nil		1.570	0.125	0.010	0.002	0.006	0.001
			4	4			042	135.00	138.00	3.00	nil		0.364	0.030	0.014	0.010	0.007	0.001
			4	4			043	138.00	141.00	3.00	nil		0.212	0.025	0.006	0.004	0.007	0.001
			4	4			044	141.00	144.00	3.00	nil		0.172	0.030	0.008	0.003	0.008	0.002
			4	4			045	144.00	147.00	3.00	nil		0.202	0.030	0.008	0.002	0.005	0.001
			4	4			046	147.00	150.00	3.00	nil		0.274	0.025	0.004	0.002	0.008	0.001
			4	4			047	150.00	153.00	3.00	nil		0.138	0.020	0.000	0.001	0.008	0.001
			4	4			048	153.00	156.00	3.00	nil		0.146	0.030	0.000	0.002	0.006	0.001
			4	4			049	156.00	158.50	2.50	nil		0.140	0.040	0.000	0.002	0.006	0.001
			4	4			050	158.50	160.00	1.50	nil		0.162	0.045	0.004	0.003	0.006	0.001
			4	4			051	160.00	162.30	2.30	nil		0.140	0.030	0.002	0.003	0.004	0.001
			4	4			052	162.30	165.00	2.70	tr		0.150	0.030	0.004	0.0027	0.0056	0.001
			4	4			053	165.00	168.00	3.00	tr		0.216	0.000	0.004	0.0017	0.0059	0.001
			4	4			054	168.00	169.30	1.30	tr		0.160	0.025	0.004	0.0012	0.0072	0.0013











# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>			Maxibor	<b>DRILLING COMPANY:</b>			CHIBOUGAMAU			
<b>HOLE NO.:</b>	00-198	<b>LENGTH: (m)</b>	426	<b>CORE SIZE:</b>	NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>	<b>REMARKS:</b>	Core stored at Lac des Iles mine site	
<b>LOCATION - MINE GRID:</b>		<b>NORTHING:</b>	32205.277	<b>EASTING:</b>	31745.733							Intermittently Oriented Core		
<b>SECTION:</b>	519N	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	505.337							<b>DATE LOGGED:</b>	June 23, 2000	
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>	<b>PLANNED:</b>	071°/-46°	<b>SURVEYED:</b>	71.309/-45.799							<b>LOGGED:</b>	B. Nelson	<b>SIGNATURE:</b>	<i>[Signature]</i>
<b>HOLE STARTED:</b>	11-Jun-00	<b>HOLE FINISHED:</b>	16-Jun-00	<b>MAG DECLINATION:</b>	2.1° w							<b>SHEET</b>	1 OF 14	

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS									
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
				Plag	Pxr	Comp												
0.00	19.50	<b>OVERBURDEN</b> Waste rubble on road.																
19.50	81.40	<b>GABBRONORITE</b>  Predominantly coarse grained to medium grained to very locally pegmatitic, medium to dark greenish-grey to slightly brownish-greenish grey. Locally moderately to strongly magnetic, local minor epidote, relatively equigranular, local minor medium grained quartz-diorite dikelets, very local narrow sub-sections of norite towards bottom of unit. 15-25% Opx, 15-40% Cpx, 35-60% Plag. Strong to intense alteration of Opx to tremolite+/-tal. Strong alteration of Cpx to actinolite. Strong alteration of Plag. Local trace to minor sulfide mineralization as fine grained disseminations to medium grained bleby pyrite with associated chalcopyrite within upper half of unit increasing to 0.5% fine grained to medium grained to coarse grained bleby pyrrhotite and associated chalcopyrite within bottom 1/2 of section. 20.10m - 26.60m - 20% erratic medium grained quartz-diorite dikelets and local associated grey/white quartz-Plag veining. Dikelets and veins oriented at moderate angle to																
						001	19.50	21.00	1.50	nil		0.05	0.02	0.02	0.008	0.010	0.002	
						002	21.00	24.00	3.00	nil		0.02	0.00	0.01	0.006	0.009	0.002	
						003	24.00	27.00	3.00	nil		0.03	0.01	0.01	0.008	0.009	0.002	
						004	27.00	30.00	3.00	nil		0.06	0.02	0.02	0.009	0.010	0.002	
						005	30.00	33.00	3.00	nil		0.04	0.02	0.01	0.006	0.010	0.002	
						006	33.00	36.00	3.00	nil		0.05	0.02	0.01	0.009	0.007	0.001	
						007	36.00	39.00	3.00	nil		0.13	0.06	0.02	0.012	0.012	0.001	
						008	39.00	41.65	2.65	0.50		1.21	0.38	0.17	0.097	0.104	0.005	
						009	41.65	43.30	1.65	nil		0.04	0.01	0.02	0.015	0.010	0.002	
						010	43.30	45.00	1.70	0.25		0.28	0.10	0.09	0.050	0.032	0.003	
						011	45.00	48.00	3.00	nil		0.31	0.08	0.09	0.044	0.030	0.003	
						012	48.00	51.00	3.00	tr		0.06	0.10	0.20	0.106	0.084	0.004	
						013	51.00	54.00	3.00	tr		0.09	0.07	0.24	0.081	0.075	0.005	
						014	54.00	57.00	3.00	0.75	1:4	0.13	0.12	0.47	0.132	0.079	0.004	
						015	57.00	60.00	3.00	1.00	1:10	0.18	0.10	0.40	0.130	0.082	0.004	
						016	60.00	63.00	3.00	0.50		0.18	0.04	0.08	0.094	0.052	0.003	
						017	63.00	66.00	3.00	0.25		0.08	0.03	0.08	0.075	0.052	0.003	
						018	66.00	69.00	3.00	0.25		0.04	0.01	0.04	0.033	0.026	0.003	
						019	69.00	72.00	3.00	0.25		0.05	0.04	0.16	0.058	0.039	0.002	
						020	72.00	75.00	3.00	0.50	1:4	0.09	0.06	0.23	0.056	0.047	0.003	
						021	75.00	78.20	3.20	0.50	1:6	0.19	0.12	0.39	0.083	0.062	0.002	
						022	78.20	81.40	3.20	0.50	1:6	0.23	0.13	0.52	0.084	0.069	0.002	



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# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
19.50	81.40	<p><b>GABBRONORITE (continued)</b></p> <p>sub-parallel to core axis. Local moderate shear fabric sub-parallel to core axis.</p> <p>41.65m - 43.30m - Mafic dike (diabase) Very fine grained, dark greenish-grey, non-magnetic to strongly magnetic towards bottom of unit. Local minor erratic feldspathic stringers. No visible sulfides. Sharp contact at 41.65 at 60° to core axis. Contact at 43.30m at 60° to core axis.</p> <p>68.50m - 68.80m - Diabase dike Very fine grained, dark grey-black, very hard and not magnetic. Sharp contact at 68.50m at 70° to core axis. Sharp contact at 68.80m at 50° to core axis.</p>																
81.40	87.75	<p><b>HETEROLITHIC GABBRONORITE BRECCIA/VARITEXTURED GABBRONORITE</b></p> <p>Medium grained to pegmatitic, green-grey, hard to locally moderately soft and non magnetic, exhibiting both sharp and diffuse contacts between textural and compositional variations, local moderate to strong patchy epidote, overall strong talc, sections exhibit a mottled to locally brecciated texture, moderate grey-white quartz-diorite and quartz-plag veinlets. 10-25%Opx, 20-40% Cpx, 40-60% Plag. Intense alteration of Opx to tremolite. Strong alteration of Cpx to actinolite.</p>																
			4	4			023	81.40	84.50	3.10	0.25	1:3	2.51	0.29	0.25	0.044	0.038	0.002
			3	4			024	84.50	87.75	3.25	tr		0.41	0.03	0.02	0.006	0.019	0.003



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
90.00	127.80		<b>GABBRONORITE (continued)</b>  15-25% Opx, 20-40% Cpx, 50-65% Plag. Intense alteration of Opx to tremolite and talc. Intense alteration of Cpx to actinolite+/-chlorite. Intense alteration of Plag (local saussuritization) Very local fine grained disseminated pyrite, plus minor coarse grained bleby chalcopyrite near bottom of section. 104.80m - 105.50m - Intense saussuritization of Plag.	4	4			026	90.00	93.00	3.00	nil		0.10	0.03	0.00	0.002	0.007
		4		4			027	93.00	96.00	3.00	nil		0.09	0.03	0.00	0.002	0.007	0.001
		4		4			028	96.00	99.00	3.00	nil		0.09	0.03	0.01	0.018	0.009	0.002
		4		4			029	99.00	102.00	3.00	nil		0.08	0.03	0.00	0.001	0.008	0.001
		4		4			030	102.00	105.00	3.00	nil		0.08	0.03	0.00	0.001	0.010	0.001
		4		4			031	105.00	108.00	3.00	nil		0.10	0.04	0.00	0.002	0.011	0.001
		4		4			032	108.00	111.00	3.00	nil		0.06	0.03	0.00	0.002	0.009	0.001
		4		4			033	111.00	114.00	3.00	nil		0.19	0.04	0.01	0.004	0.009	0.001
		4		4			034	114.00	117.00	3.00	nil		0.47	0.06	0.00	0.004	0.011	0.002
		4		4			035	117.00	120.00	3.00	nil		0.42	0.07	0.01	0.004	0.010	0.001
		4		4			036	120.00	123.00	3.00	tr		5.12	0.20	0.09	0.013	0.030	0.002
		4		4			037	123.00	126.00	3.00	tr		3.82	0.23	0.07	0.011	0.031	0.002
		4		4			038	126.00	127.80	1.80	0.25		2.74	0.38	0.10	0.045	0.116	0.004
127.80	134.20	<b>QUARTZ DIORITE DIKE</b>  Medium grained, slightly pinkish-buff, hard, not magnetic, locally weakly foliated at 30° to core axis defined by parallel alignment of mafic crystals, weak pink staining/ alteration (hematite), composed of 70% Plag, 20% mafic crystals (amphiboles) 10% quartz, no visible sulfides. Irregular-wavy contact at 127.80m at approximately 20° to 30° to core axis with strong associated patchy epidote. Oriented contact sub-vertical striking at approximately 120° Sheared contact at 134.20m oriented at approximately 30° to core axis, oriented contact sub-vertical striking at approximately 100°.		2	nil			039	127.80	131.00	3.20	nil		0.04	0.00	0.01	0.007	0.002
			2	nil			040	131.00	134.20	3.20	nil		0.03	0.00	0.00	0.004	0.002	0.000





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
143.60	200.25		<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Finer medium grained to coarse grained to pegmatitic, greenish grey, hard, and not magnetic, gradational to sharp contacts between textural and compositional variations, locally unit subtly gives impression of gabbronorite breccia, local relatively narrow sub-sections of norite, minor to locally moderate erratic white-grey quartz-plag veinlets local strong patchy epidote.                      10-50% Opx, &lt;10-50% Cpx, 35-65% Plag.                      Strong to intense alteration of Opx to tremolite and talc                      Strong to intense alteration of Cpx to actinolite.                      Strong to intense alteration of Plag, locally intense saussuritization of Plag.                      Overall 0.5 to 3.0% sulfide mineralization as fine grained disseminated pyrrhotite and chalcopyrite to medium grained to coarse grained bleby pyrrhotite plus associated chalcopyrite.                      Strong to intense patchy alteration.</p> <p>149.00m - 154.00m - 1 to 3 cm scale white to grey quartz-plag vein with associated shearing parallel to core axis, closely follows trace of downhole oriented line on core, drilling along strike of vein.</p> <p>183.25m - 183.50m - Sheared gabbronorite plus minor associated diorite dikelets.                      Shearing and contacts at 40 to 50° to core axis.                      Oriented shear sub-vertical and striking at approximately 110°</p>																
			3	3			046	143.60	145.00	1.40	tr		1.50	0.07	0.03	0.008	0.022	0.003	
			4	4			047	145.00	147.00	2.00	0.25	8:1	4.67	0.18	0.08	0.014	0.034	0.003	
			4	4			048	147.00	150.00	3.00	0.25		4.47	0.20	0.05	0.015	0.038	0.003	
			4	4			049	150.00	153.00	3.00	0.25		2.12	0.22	0.12	0.032	0.076	0.003	
			4	4			050	153.00	156.00	3.00	0.25		2.44	0.23	0.10	0.037	0.068	0.003	
			4	4			051	156.00	159.00	3.00	1.00	1:4	1.25	0.30	0.69	0.138	0.140	0.005	
			4	4			052	159.00	162.00	3.00	0.50	1:1	0.48	0.15	0.54	0.108	0.090	0.003	
			3	3			053	162.00	165.00	3.00	1.00	1:6	2.46	0.28	0.79	0.195	0.169	0.004	
			4	4			054	165.00	168.00	3.00	0.75	1:5	1.77	0.25	0.65	0.127	0.125	0.004	
			4	4			055	168.00	171.00	3.00	2.50	1:6	3.42	0.39	0.84	0.253	0.215	0.006	
			4	4			056	171.00	174.00	3.00	1.00	1:6	1.27	0.24	0.37	0.141	0.132	0.004	
			4	4			057	174.00	177.00	3.00	0.50	1:6	2.80	0.53	0.84	0.198	0.164	0.005	
			3	3			058	177.00	180.00	3.00	tr		0.45	0.07	0.14	0.040	0.021	0.001	
			4	4			059	180.00	183.00	3.00	1.50	1:4	1.02	0.39	1.16	0.240	0.220	0.005	
			3	3			060	183.00	186.00	3.00	0.25		0.16	0.08	0.25	0.107	0.111	0.004	
			3	3			061	186.00	189.00	3.00	0.50		0.24	0.07	0.15	0.166	0.114	0.005	
			3	3			062	189.00	192.00	3.00	2.00	1:4	0.29	0.11	0.45	0.294	0.221	0.007	
			3	3			063	192.00	195.00	3.00	0.50	1:4	0.44	0.08	0.09	0.085	0.079	0.004	
			3	3			064	195.00	198.00	3.00	2.00	1:4	0.31	0.10	0.15	0.152	0.122	0.005	
			3	3			065	198.00	200.25	2.25	1.50	1:8	0.35	0.09	0.17	0.150	0.140	0.005	

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
143.60	200.25		<b>VARITEXTURED GABBRONORITE (continued)</b>  195.95m-196.20m - Quartz diorite dike 25% fine grained dark brownish-black mafic crystals (amphiboles and biotite) set in a fine grained Plag rich matrix with approximately 10% quartz Sharp upper and lower contacts at 30° to core axis.  200.55m - 201.15m - Quartz diorite dike Same as section 195.95m - 196.20m Sharp upper and lower contacts at 45° to core axis. Oriented contacts are subvertical and strike at 110° to 120°															
200.25	257.85	<b>VARITEXTURED GABBRO</b>  Finer medium grained to medium grained to coarse grained, greyish green, predominantly hard to locally moderately soft and not magnetic exhibiting sharp and gradational contacts between textural and compositional variations, local relatively narrow sub-sections of gabbronorite, local minor altered Opx, local minor erratic grey-white quartz-plag veinlets. <5 to locally 10% Opx, 35 - 65% Cpx, 25-65% Plag. Intense alteration of Opx to tremolite and talc Strong to intense alteration of Cpx to actinolite. Strong alteration of Plag Overall minor to 3% sulfide mineralization predominantly as medium grained to coarse grained disseminated to	3	3			066	200.25	202.00	1.75	0.50	1:4	0.27	0.05	0.14	0.107	0.090	0.004
			3	3			067	202.00	204.00	2.00	0.50	1:4	0.29	0.05	0.08	0.084	0.071	0.004
			3	3			068	204.00	207.00	3.00	3.00	1:4	0.38	0.14	0.36	0.355	0.259	0.009
			3	3			069	207.00	210.00	3.00	2.00	1:4	0.37	0.10	0.33	0.302	0.242	0.007
			3	3			070	210.00	216.00	6.00	1.00	3:1	0.13	0.05	0.16	0.228	0.163	0.006
			3	3			071	216.00	216.00	0.00	0.50	1:5	0.11	0.03	0.10	0.128	0.059	0.003
			3	3			072	216.00	219.00	3.00	0.50		0.23	0.05	0.11	0.134	0.074	0.003
			3	3			073	219.00	221.90	2.90	0.25		0.04	0.01	0.03	0.051	0.027	0.002
			4	4			074	221.90	225.00	3.10	0.50	1:4	0.08	0.03	0.15	0.083	0.043	0.003
			3	3			075	225.00	228.00	3.00	0.25		0.04	0.03	0.07	0.100	0.063	0.003
			2	2			076	228.00	230.50	2.50	tr		0.02	0.00	0.01	0.018	0.010	0.002
			nil	nil			077	230.50	233.20	2.70	nil		0.01	0.00	0.01	0.010	0.006	0.001
			3	3			078	233.20	235.00	1.80	0.25	1:1	0.12	0.01	0.02	0.029	0.017	0.003
			3	3			079	235.00	237.00	2.00	0.75	1:3	0.10	0.06	0.17	0.229	0.146	0.005



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
200.25	257.85	<b>VARITEXTURED GABBRO (continued)</b>																
		225.25m - 225.40m - Quartz-diorite dikelet Upper and lower contact at 25° to 30° to core axis.																
		230.50m - 233.20m - Quartz-diorite dike Medium grained, grey, hard containing 30% mafic crystals (amphibole and biotite) set in medium grained Plag-rich matrix containing 10% quartz, no sulfides. Wavy, irregular upper and lower contacts oriented at a low angle to sub-parallel to core axis.																
		237.90m - 238.60m - Gabbronorite																
		246.50m - 249.40m - Moderate, very erratic medium grained to coarse grained quartz-plag veining, quartz diorite dikelets and grey quartz veining.																
		255.10m - 255.70m - Quartz diorite dike Medium grained, hard, composed of 30% medium grained mafic crystals (amphibole and biotite) set in medium grained Plag-rich matrix containing 10% quartz. Very irregular upper and lower contacts.																
257.85	276.00	<b>NORITE</b>																
		Medium grained, brownish-grey, hard, relatively equigranular and locally moderately magnetic due to pyrrhotite mineralization, very local narrow coarse grained subsections of gabbronorite. 0-<10% Cpx, 40-60% Opx, 40-60% Plag. Moderate to strong alteration of Opx to tremolite. Moderate to strong alteration of Plag (locally dark brown-grey)	3	3			087	257.85	259.00	1.15	1.00	1:6	0.30	0.32	0.98	0.284	0.178	0.006
			3	3			088	259.00	261.00	2.00	2.50	1:4	0.32	0.35	0.92	0.311	0.190	0.006
			3	3			089	261.00	264.00	3.00	5.00	1:5	0.43	0.36	0.89	0.336	0.237	0.006
			3	3			090	264.00	267.00	3.00	2.00	1:6	0.23	0.20	0.71	0.287	0.193	0.006
			3	3			091	267.00	270.00	3.00	0.50	1:5	0.35	0.19	0.31	0.143	0.111	0.005
			3	3			092	270.00	273.10	3.10	0.25		0.10	0.05	0.08	0.034	0.024	0.002
			3	3			093	273.10	276.00	2.90	0.50	1:4	0.10	0.07	0.14	0.078	0.056	0.002

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
257.85	276.00	<p><b>NORITE (continued)</b></p> <p>Overall 0.5 to 5% sulfide mineralization as fine grained to medium grained to coarse grained disseminated to bleby pyrrhotite plus associated chalcopyrite. Gradational contact at 276.00m/ 267.90m - 269.00m - Gabbronorite , coarse grained. 272.80m - 273.10m - Quartz diorite dike Medium grained, grey-white, hard. Contact at 272.80m at 70° to core axis. Irregular contact at 273.10m. Oriented contact at 272.80m striking approximately 100° dipping at 70° with a dip direction of approximately 200°.</p>																
276.00	360.00	<p><b>GABBRONORITE</b></p> <p>Medium grained, dark slightly greenish-grey to brownish-grey, hard, not magnetic, and relatively equigranular, local minor erratic grey-white quartz-plag stringers and veinlets, gradational-patchy variations in composition, local minor erratic quartz-plag stringers and veinlets as approach the bottom of section. 20-50% Opx, &lt;10-30% Cpx, 40-65% Plag. Strong alteration of Opx to tremolite Strong alteration of Cpx to actinolite Strong alteration of Plag (dark grey to dark brownish-grey)</p>					094	276.00	279.00	3.00	0.25		0.11	0.06	0.07	0.055	0.041	0.002
							095	279.00	282.00	3.00	0.50		0.15	0.07	0.15	0.108	0.062	0.003
							096	282.00	285.00	3.00	1.00		0.31	0.19	0.49	0.237	0.186	0.005
							097	285.00	288.00	3.00	1.50		0.46	0.30	0.76	0.403	0.325	0.008
							098	288.00	291.00	3.00	0.50		0.44	0.26	0.65	0.318	0.261	0.006
							099	291.00	294.00	3.00	0.50		0.35	0.17	0.35	0.203	0.147	0.005
							100	294.00	297.00	3.00	0.50		0.57	0.28	0.56	0.310	0.248	0.007
							101	297.00	300.00	3.00	0.50		0.34	0.16	0.30	0.185	0.140	0.005
							102	300.00	303.00	3.00	0.50		0.16	0.08	0.13	0.070	0.059	0.003
							103	303.00	306.00	3.00	0.25		0.13	0.06	0.06	0.033	0.030	0.002
							104	306.00	309.00	3.00	tr		0.14	0.08	0.10	0.050	0.035	0.002
							105	309.00	312.00	3.00	0.25		0.16	0.07	0.10	0.049	0.038	0.002
							106	312.00	315.00	3.00	0.50		0.34	0.17	0.43	0.173	0.129	0.004
							107	315.00	318.00	3.00	0.50		0.38	0.22	0.43	0.192	0.154	0.004
							108	318.00	321.00	3.00	0.50		0.32	0.18	0.29	0.140	0.131	0.004



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Coml	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
360.00	383.20		<p><b>HETEROLITHIC GABBRO BRECCIA (VARITEXTURED GABBRO)</b> <b>(continued)</b></p> <p>and composition, possibly less variance in composition than appears, this may be the result of variable intensity of alteration and not compositional changes. Local minor irregular white quartz-plag stringers and veinlets, local patchy concentrations of Opx, locally classified gabbro, borderline breccia/varitextured gabbro. &lt;10 to locally 20% Opx, 25-60% Cpx, 40-65% Plag. Strong alteration of Opx to tremolite and talc. Strong alteration of Cpx to actinolite. Strong alteration of Plag Minor to 1.0% sulfide mineralization as medium grained to coarse grained disseminated pyrite, pyrrhotite and chalcopyrite, local very coarse grained bleby pyrite and pyrrhotite with associated chalcopyrite predominantly found within pegmatitic sub-sections.</p> <p>360.00m - 360.50m - Moderate erratic grey feldspathic stringers and veinlets.</p> <p>361.40m - 363.30m - Locally moderately to strongly sheared predominantly at 20-30° to core axis, overall moderate to strong dark green to black chlorite, locally almost a brecciated appearance.</p> <p>368.70m - 369.10m - Quartz diorite dike Medium grained to coarse grained, white-grey to locally slightly pinkish-orange. Sharp contact at 368.70m at 15° to core axis. Oriented contact at 368.70m dipping at approximately 90° and striking approximately 100°</p>															
			3	3			122	360.00	363.00	3.00	tr		0.58	0.23	0.18	0.122	0.112	0.005
			3	3			123	363.00	366.00	3.00	0.25		0.76	0.20	0.11	0.081	0.108	0.004
			3	4			124	366.00	369.10	3.10	1.00		0.48	0.18	0.44	0.227	0.179	0.006
			3	4			125	369.10	372.00	2.90	1.00		1.17	0.25	0.36	0.169	0.114	0.004
			3	3			126	372.00	375.00	3.00	0.75		0.81	0.14	0.17	0.059	0.081	0.003
			3	3			127	375.00	378.00	3.00	0.50		0.29	0.06	0.07	0.033	0.029	0.003
			3	3			128	378.00	381.00	3.00	0.75		0.30	0.11	0.20	0.119	0.089	0.004
			3	3			129	381.00	383.20	2.20	0.25		0.36	0.11	0.09	0.035	0.037	0.003

# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-198

LOGGED BY: B. Nelson SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup> Bx Matrix				SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
360.00	382.20		<b>HETEROLITHIC GABBRO BRECCIA (VARITEXTURED GABBRO)</b> (continued)  Irregular contact at 369.10m 374.30m - 374.50m - Quartz diorite dike Sharp contact at 374.30M at 20° to core axis. Oriented contact at 374.30m - dipping at approximately 90° and striking approximately 100° Irregular contact at 374.50m															
382.20	426.00	<b>VARITEXTURED GABBRONORITE</b>  Medium grained to coarse grained to very coarse grained, grey to slightly greenish-grey, predominantly soft to locally hard and not magnetic, with an intense mottled appearance. Local moderate patchy epidote, local minor white-grey quartz and quartz-plag stringers and veinlets. 10-25% Opx, 20-40% Cpx, 40-65% Plag. Intense alteration of Opx to tremolite and talc. Intense alteration of Cpx to actinolite Strong to intense alteration of Plag (local intense saussuritization) Trace to locally minor sulfide mineralization as very fine grained disseminations to medium grained blebs of chalcopyrite, pyrite and pyrrhotite.																
	EOH		3	3			130	383.20	385.00	1.80	0.25		0.68	0.12	0.13	0.036	0.037	0.003
			3	3			131	385.00	387.00	2.00	tr		0.53	0.06	0.15	0.028	0.024	0.003
			3	3			132	387.00	390.00	3.00	tr		0.46	0.11	0.14	0.022	0.024	0.002
			3	3			133	390.00	393.00	3.00	tr		4.10	0.29	0.08	0.010	0.025	0.003
			3	3			134	393.00	396.00	3.00	0.25		5.22	0.85	0.08	0.021	0.022	0.003
			3	3			135	396.00	399.00	3.00	tr		2.20	0.21	0.04	0.005	0.016	0.003
			3	3			136	399.00	402.00	3.00	tr		2.36	0.18	0.03	0.004	0.012	0.002
			3	3			137	402.00	405.00	3.00	tr		0.66	0.07	0.03	0.003	0.010	0.002
			3	3			138	405.00	408.00	3.00	tr		1.19	0.07	0.03	0.002	0.011	0.002
			4	4			139	408.00	411.00	3.00	tr		1.48	0.09	0.02	0.001	0.012	0.002
			4	4			140	411.00	414.00	3.00	tr		1.47	0.10	0.03	0.003	0.011	0.002
			4	4			141	414.00	417.00	3.00	tr		1.71	0.12	0.03	0.001	0.012	0.002
			4	4			142	417.00	420.00	3.00	tr		1.76	0.11	0.03	0.003	0.016	0.003
			4	4			143	420.00	423.00	3.00	tr		0.88	0.06	0.04	0.009	0.010	0.002
			4	4			144	423.00	426.00	3.00	0.25		0.80	0.06	0.01	0.006	0.013	0.003





# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b>	LAC DES ILES	<b>CLAIM NUMBER:</b>	253	<b>DOWNHOLE SURVEY METHOD:</b>	Maxibor	<b>DRILLING COMPANY:</b>	CRIBOUGAMAUI	
<b>HOLE NO.:</b>	00-199	<b>LENGTH: (m)</b>	219.0m	<b>CORE SIZE:</b>	NQ	<b>REMARKS:</b>	Core stored at Lac des Iles mine site	
<b>LOCATION - MINE GRID</b>		<b>NORTHING:</b>	32218.31	<b>EASTING:</b>	31783.823			
<b>SECTION:</b>	519N	<b>ZONE:</b>	Roby	<b>ELEVATION:</b>	501.796	<b>DATE LOGGED:</b>	June 12 - 13, 2000	
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>	<b>PLANNED:</b>	071/-45°	<b>SURVEYED:</b>	72.555/-44.677		<b>LOGGED:</b>	B. Nelson	
<b>HOLE STARTED:</b>	08-Jun-00	<b>HOLE FINISHED:</b>	11-Jun-00	<b>MAG DECLINATION:</b>	2.1° w	<b>SIGNATURE:</b>	<i>[Signature]</i>	
							<b>SHEET</b>	1 OF 10

METERAGE		DESCRIPTION	Rock Code	Alt <sup>m</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO			Plag	Pxr	Comp	Prop'r	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
0.00	25.20			<b>OVERBURDEN</b>															
25.20	36.70	<b>HETEROLITHIC GABBRONORITE BRECCIA</b>  Medium grained to coarse grained to very coarse grained, greenish-grey, hard and not magnetic, relatively sharp contacts between textural and compositional changes that vary from coarse grained to very coarse grained gabbro-norite to medium grained melanogabbro-norite to almost pyroxenite. 10-40% Opx 20-50% Cpx 10-65% Plag Strong to intense alteration of Opx to tremolite and talc Strong alteration of Cpx to actinolite. Moderate to strong alteration of Plag (saussuritized) Local minor sulfide mineralization as medium grained blebby chalcopyrite and pyrrhotite. 34.00m - 34.20m - Moderately sheared diorite dike Shearing at 30° to core axis Upper and lower contacts at 30° to core axis. Local strong orange staining/alteration paralleling shearing.																	
								001	25.20	27.00	1.80	tr		1.33	0.16	0.01	0.003	0.013	0.002
								002	27.00	30.00	3.00	tr		0.53	0.05	0.04	0.010	0.011	0.002
								003	30.00	33.00	3.00	0.25		0.86	0.07	0.04	0.022	0.015	0.003
								004	33.00	35.00	2.00	tr		0.33	0.05	0.01	0.006	0.009	0.001
								005	35.00	36.70	1.70	tr		0.12	0.03	0.01	0.004	0.008	0.002

2.23510



## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-199

LOGGED BY: B. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
36.70	110.55		<p><b>GABBRONORITE</b></p> <p>Coarse grained to very coarse grained, slightly greenish-grey and not magnetic, with a moderate to strong mottled appearance, local minor epidote, local relatively narrow sub-sections of medium grained melanogabbro to pyroxenite (xenoliths/layers?) exhibiting relatively sharp contacts with host gabbro, one possible three meter scale sub-section of gabbro breccia, local very minor epidote.</p> <p>10-25% Opx 20-35% Cpx 45-65% Plag</p> <p>Intense alteration of Opx to tremolite and talc Strong to intense alteration of Cpx to actinolite+/-chlorite. Strong to intense alteration of Plag (saussuritized).</p> <p>No sulfide mineralization within the coarse grained to very coarse grained gabbro, minor to 1/2% fine grained to medium grained disseminated to bleby chalcopyrite within melanogabbro/pyroxenite subsection.</p> <p>42.40m - 43.05m - Mafic dike/diabase Very fine grained, dark greenish-grey, hard and not magnetic Sharp upper and lower contacts at 15° to core axis.</p> <p>56.60m - 58.30m - Melanogabbro/local pyroxenite - Medium grained, dark greenish-grey, hard and weakly magnetic. Minor fine grained to medium grained disseminated chalcopyrite.</p>																
			4	4			006	36.70	39.00	2.30	nil		0.13	0.04	0.00	0.001	0.008	0.002	
			4	4			007	39.00	42.00	3.00	nil		0.15	0.04	0.00	0.001	0.009	0.001	
			4	4			008	42.00	45.00	3.00	nil		0.10	0.03	0.00	0.001	0.010	0.002	
			4	4			009	45.00	48.00	3.00	nil		0.37	0.04	0.00	0.001	0.009	0.002	
			4	4			010	48.00	51.00	3.00	nil		0.30	0.04	0.00	0.001	0.008	0.001	
			4	4			011	51.00	54.00	3.00	nil		0.30	0.06	0.00	0.001	0.009	0.001	
			4	4			012	54.00	56.60	2.60	nil		0.27	0.05	0.00	0.001	0.009	0.002	
			4	4			013	56.60	58.30	1.70	0.25		1.21	0.19	0.04	0.024	0.019	0.003	
			4	4			014	58.30	61.50	3.20	nil		0.09	0.03	0.00	0.002	0.008	0.002	
			4	4			015	61.50	64.25	2.75	nil		0.32	0.04	0.00	0.001	0.008	0.001	
			4	4			016	64.25	66.00	1.75	tr		2.96	0.18	0.05	0.016	0.016	0.002	
			4	4			017	66.00	67.70	1.70	tr		0.48	0.10	0.06	0.032	0.023	0.004	
			4	4			018	67.70	70.00	2.30	nil		0.13	0.03	0.00	0.002	0.008	0.001	
			4	4			019	70.00	72.00	2.00	nil		0.10	0.03	0.00	0.001	0.007	0.001	
			4	4			020	72.00	75.00	3.00	nil		0.13	0.03	0.01	0.001	0.007	0.001	
			4	4			021	75.00	78.00	3.00	nil		0.09	0.03	0.01	0.001	0.007	0.001	
			4	4			022	78.00	81.10	3.10	nil		0.12	0.05	0.00	0.002	0.009	0.002	
			3	3			023	81.10	82.60	1.50	tr		0.08	0.02	0.02	0.014	0.012	0.003	
			4	4			024	82.60	84.00	1.40	nil		0.29	0.06	0.01	0.007	0.012	0.002	
			4	4			025	84.00	85.65	1.65	nil		0.31	0.05	0.00	0.002	0.011	0.002	
			3				026	85.65	87.60	1.95	nil		0.00	0.00	0.00	0.001	0.000	0.000	
			4	4			027	87.60	90.00	2.40	nil		0.24	0.05	0.01	0.004	0.010	0.002	
			4	4			028	90.00	93.00	3.00	tr		0.13	0.02	0.01	0.008	0.010	0.002	
			4	4			029	93.00	96.00	3.00	nil		0.11	0.03	0.00	0.002	0.009	0.002	
			4	4			030	96.00	99.00	3.00	nil		1.01	0.08	0.01	0.004	0.009	0.002	
			4	4			031	99.00	102.00	3.00	nil		0.11	0.03	0.01	0.001	0.008	0.001	
			4	4			032	102.00	105.00	3.00	tr		0.19	0.04	0.01	0.010	0.011	0.002	
			4	4			033	105.00	108.00	3.00	nil		0.75	0.07	0.01	0.007	0.009	0.002	
			4	4			034	108.00	110.55	2.55	nil		0.46	0.05	0.01	0.004	0.009	0.001	



# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-199

LOGGED BY: **B. Nelson** SIGNATURE \_\_\_\_\_

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
36.70	110.55		<b>GABBRONORITE (continued)</b>  Sharp contact at 85.65m at 40° to core axis, marked by 1cm scale quartz vein Sharp contact at 87.60m at 30° to core axis 87.60m - 88.00m - Intensely sheared gabbronorite with associated 1 to 3cm scale white-grey, shearing at 20-35° to core axis. 92.50m - 93.00m - Medium grained gabbronorite xenolith Minor fine grained disseminated pyrite. 97.75m - 98.15m - Finer medium grained gabbro xenolith/fragment. 103.50m - 104.50m - Gabbro, medium grained, local moderate red staining (hematite). Locally sheared at 20° to sub-parallel to core axis Contact at 103.50m at 60° to core axis Contact at 104.50m sub-parallel to core axis Possibly medium grained mafic dike																
110.55	128.05	<b>HETEROLITHIC GABBRO BRECCIA/VARITEXTURED GABBRO</b>  Medium grained to very coarse grained to locally pegmatitic, light to dark green-grey, hard and very locally moderately magnetic, local minor medium grained patchy epidote, predominantly - sharp variations between texture+/- composition of fragments and matrix? Overall section is borderline gabbro breccia/varitextured gabbro. 0 - <10% Opx 30 - 75% Cpx 25 - 70% Plag. Intense alteration of Opx to tremolite and talc Strong to intense alteration of Cpx to actinolite	3	3			035	110.55	112.00	1.45	tr		0.28	0.05	0.05	0.026	0.020	0.003	
			4	4			036	112.00	114.00	2.00	tr		0.10	0.05	0.02	0.019	0.010	0.002	
			4	4			037	114.00	117.00	3.00	nil		0.20	0.06	0.00	0.002	0.010	0.002	
			3	3			038	117.00	120.00	3.00	0.50		0.76	0.10	0.05	0.032	0.024	0.003	
			3	3			039	120.00	123.00	3.00	0.50		1.29	0.19	0.05	0.028	0.032	0.003	
			3	3			040	123.00	126.00	3.00	tr		0.72	0.10	0.01	0.012	0.017	0.002	
			3	3			041	126.00	128.05	2.05	0.50		0.24	0.03	0.01	0.011	0.011	0.003	











# DIAMOND DRILL CORE LOGGING SHEETS

North American **Palladium Ltd.**  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-199

LOGGED BY: **B. Nelson** SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS							
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %	
187.00	219.00		<p><b>GABBRO</b></p> <p>Coarse grained to very coarse grained to locally pegmatitic, greenish-grey, hard, not magnetic and relatively equigranular, very locally medium grained to pegmatitic, local minor altered Opx crystals, very locally weakly varitextured.</p> <p>35 - 50% Cpx 50 - 65% Plag</p> <p>Intense alteration of Cpx to actinolite Intense alteration of Plag (locally saussuritized) No sulfide mineralization</p> <p>191.80m - 194.90m - Quartz diorite dike Medium grained, grey, hard and equigranular composed of 10 to 25% fine grained mafic crystals (hornblende) set in a fine grained quartz-feldspar groundmass Local minor white-grey coarse grained quartz-plag veins No visible sulfides Contact at 191.80m sub-parallel core axis for approximately one meter. Contact at 194.90m - sub-parallel core axis for &gt; one meter. Appear to be clipping edge of quartz diorite dike</p> <p>195.40m - 195.60m - Quartz diorite dike Upper and lower contacts at 70° to core axis</p> <p>211.60m - 211.90m - Irregular quartz diorite dikes and white-grey quartz veining.</p> <p>212.40m - 213.40m - Healed <u>Fault gouge</u> Small angular fragments set in a light to medium grey cement, local moderate hematite alteration, local epidote.</p>																
	EOH			4			064	187.00	189.00	2.00	nil		0.16	0.02	0.00	0.002	0.009	0.002	
				4			065	189.00	191.80	2.80	nil		0.40	0.04	0.00	0.005	0.010	0.001	
				2			066	191.80	194.90	3.10	nil		0.03	0.00	0.00	0.006	0.006	0.001	
				4			067	194.90	198.00	3.10	nil		0.12	0.02	0.00	0.001	0.009	0.001	
				4			068	198.00	201.00	3.00	nil		0.12	0.03	0.00	0.002	0.008	0.001	
				4			069	201.00	204.00	3.00	nil		0.15	0.03	0.00	0.004	0.009	0.002	
				4			070	204.00	207.00	3.00	nil		0.18	0.02	0.00	0.003	0.013	0.002	
				3			071	207.00	210.00	3.00	0.25		0.10	0.01	0.01	0.012	0.009	0.002	
				4			072	210.00	212.40	2.40	nil		0.39	0.04	0.00	0.001	0.011	0.002	
				3			073	212.40	214.60	2.20	nil		0.21	0.02	0.02	0.073	0.013	0.005	
				4			074	214.60	217.00	2.40	nil		0.15	0.04	0.00	0.002	0.011	0.001	
				4			075	217.00	219.00	2.00	nil		0.16	0.03	0.00	0.001	0.010	0.002	



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

<b>PROPERTY:</b> LAC DES ILES	<b>CLAIM NUMBER:</b> 253	<b>DOWNHOLE SURVEY METHOD:</b> Maxibor			<b>DRILLING COMPANY:</b> CHIBOUGAMAU
<b>HOLE NO.:</b> 00-201	<b>LENGTH: (m)</b> 378	<b>CORE SIZE:</b> NQ	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>
<b>LOCATION - MINE GRID</b>	<b>NORTHING:</b> 322241.239	<b>EASTING:</b> 31756.688	<b>DEPTH</b>	<b>DIP</b>	<b>AZM</b>
<b>SECTION:</b> 520N	<b>ZONE:</b> Roby	<b>ELEVATION:</b> 505.066	<b>REMARKS:</b> Core stored at Lac des Iles mine site		
<b>COLLAR ORIENTATION (AZIMUTH / DIP);</b>	<b>PLANNED:</b> 071°/-45°	<b>SURVEYED:</b> 70.311/-44.440	<b>DATE LOGGED:</b> June 2 -3, 2000		
<b>HOLE STARTED:</b> 31-May-00	<b>HOLE FINISHED:</b> 4-Jun-00	<b>MAG DECLINATION:</b> 2.1° w	<b>LOGGED:</b> B. Nelson		
			<b>SIGNATURE:</b> <i>[Signature]</i>		
			<b>SHEET 1 OF 13</b>		

METERAGE		DESCRIPTION	Rock Code	SAMPLES					ASSAYS											
FROM	TO			Alt <sup>n</sup>	Bx Matrix		No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %		
				Plag	Pxr	Comp													Prop't	
0.00	19.20	<b>OVERBURDEN (Waste Rubble)</b>																		
19.20	23.15	<b>GABBRO</b>  Medium grained to coarse grained to pegmatitic, greenish-grey, moderately hard and not magnetic, texturally moderately heterogeneous defining a weak varitextured appearance, very irregular-diffuse contacts between textural variations 40-60% Cpx, 40-60% Plag Moderate alteration of Cpx to actinolite Moderate alteration of Plag Local minor coarse grained blebby pyrrhotite plus associated chalcopyrite Gradational contact at 23.15m marked by appearance of Opx crystals																		
						2	2		001	19.20	21.00	1.80	tr		0.36	0.10	0.09	0.031	0.021	0.002
						2	2		002	21.00	23.15	2.15	0.25	1:5	0.42	0.12	0.08	0.025	0.028	0.002



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-201

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>				Bx Matrix					SAMPLES					ASSAYS				
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %			
23.15	83.60		<p><b>VARITEXTURED GABBRONORITE</b></p> <p>Medium grained to coarse grained to locally pegmatitic, locally medium to dark greenish-grey, hard and locally moderately magnetic, local very minor erratic white-grey quartz-Plag stringers and veinlets, very local minor epidote, variations in texture predominantly exhibit diffuse/assimilated contacts, weak to moderate to locally strongly fractured with local brownish-yellow Iron (limonate) staining, associated slickensides on fracture surfaces, very locally weakly foliated at 40° to core axis</p> <p>20-40% Opx, 20-40% Cpx, 40-60% Plag</p> <p>Moderate to locally strong alteration of Opx, most intensely altered Opx to silvery-grey tremolite</p> <p>Strong alteration of Cpx to actinolite</p> <p>Moderate to strong alteration of Plag</p> <p>Minor to locally 1% sulfide mineralization over 3m predominantly as medium grained disseminated to bleby pyrrhotite plus associated chalcopyrite, pyrrhotite is magnetic</p> <p>35.0 - 40.0m Moderate fracturing with associated strong iron oxidation (limonite) and local associated slickensides</p> <p>42.45 - 42.65m Shear fractured broken-crumby core, fault gouge? Shearing contact at 30° to core axis</p>					003	23.15	25.00	1.85	0.50	1:1	0.18	0.24	0.36	0.096	0.080	0.003		
							004	25.00	27.00	2.00	tr		0.18	0.08	0.08	0.030	0.025	0.002			
							005	27.00	30.00	3.00	0.25		0.09	0.12	0.27	0.073	0.057	0.002			
							006	30.00	33.00	3.00	2.00	1:3	0.17	0.35	0.74	0.261	0.207	0.005			
							007	33.00	36.00	3.00	0.75	1:2	0.14	0.12	0.47	0.129	0.095	0.003			
							008	36.00	39.00	3.00	0.50	1:4	0.14	0.13	0.48	0.193	0.133	0.005			
							009	39.00	42.00	3.00	0.50	1:4	0.04	0.04	0.11	0.057	0.041	0.003			
							010	42.00	45.00	3.00	0.25	1:4	0.01	0.00	0.02	0.020	0.020	0.002			
							011	45.00	48.00	3.00	tr		0.01	0.01	0.03	0.027	0.023	0.002			
							012	48.00	50.55	2.55	tr		0.02	0.02	0.07	0.021	0.020	0.002			
							013	50.55	52.15	1.60	nil		0.00	0.00	0.01	0.004	0.010	0.002			
							014	52.15	54.00	1.85	0.25		0.22	0.13	0.26	0.044	0.038	0.002			
							015	54.00	57.00	3.00	0.25		0.09	0.07	0.19	0.031	0.024	0.001			
							016	57.00	60.00	3.00	0.25		0.15	0.10	0.23	0.037	0.033	0.002			
							017	60.00	63.00	3.00	tr		0.54	0.15	0.20	0.030	0.031	0.002			
							018	63.00	66.00	3.00	2.00	1:10	1.69	0.16	0.08	0.047	0.036	0.004			
							019	66.00	69.00	3.00	nil		1.08	0.07	0.02	0.006	0.010	0.001			
							020	69.00	72.00	3.00	nil		0.25	0.07	0.14	0.014	0.017	0.001			
							021	72.00	75.00	3.00	nil		0.38	0.05	0.01	0.006	0.008	0.001			
							022	75.00	78.00	3.00	nil		0.24	0.03	0.01	0.009	0.010	0.002			
							023	78.00	81.00	3.00	nil		0.07	0.02	0.00	0.006	0.009	0.002			
							024	81.00	83.60	2.60	nil		1.39	0.08	0.02	0.005	0.015	0.002			



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-201

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
23.15	83.60	<b>VARITEXTURED GABBRONORITE (continued)</b>																
		79.45 - 80.40m Diabase dike/microgabbro Fine grained, very hard, moderately magnetic Sharp irregular contact at 79.45m Sharp contact at 80.4m at 50° to core axis																
		80.4 - 80.8m Tonalite/diorite dike Medium grained, pinky-buff and hard Contact at 80.8m at 40° to core axis																
83.60	91.50	<b>GABBRONORITE</b>																
		Very coarse grained, grey, hard and not magnetic exhibiting a mottled appearance defined by irregular patches of creamy-white grey Plag, possibly migmatized sub-section, intensely altered, local moderate epidote, very local minor erratic grey quartz veining 10-40% Opx, 10-40% Cpx, 35-60% Plag Intense alteration of Opx Intense alteration of Cpx to actinolite Strong to intense alteration of Plag Local minor fine grained to medium grained blebby chalcopyrite plus local associated pyrrhotite Possibly Plag rich cumulate layer/sub-section At 91.0m - Banded diorite dike - 10cm scale contacts and banding at approx. 30° to core axis	3	4			025	83.60	86.00	2.40	nil		0.28	0.04	0.00	0.002	0.009	0.001
			3	4			026	86.00	89.00	3.00	nil		1.98	0.16	0.03	0.013	0.025	0.002
			3	4			027	89.00	91.50	2.50	0.25		0.24	0.05	0.04	0.024	0.021	0.002



















# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.  
LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-201

LOGGED BY: **B. Nelson**

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
216.15	357.00	<b>VARITEXTURED GABBRONORITE (continued)</b>																
		334.9 - 338.1m Norite - medium grained, brownish-grey, hard, equigranular 35-50% Opx, 50-65% Plag Strong alteration of Opx and Plag 1.5% fine grained disseminated to medium grained and coarse grained bleby pyrrhotite and chalcopyrite																
357.00	378.00	<b>VARITEXTURED GABBRO / GABBRONORITE ?</b>																
	EOH	Medium grained to coarse grained to locally pegmatitic, greenish-grey, moderately soft and not magnetic, local minor erratic grey-white Qtz-Plag stringers and veinlets, local minor to <10% Opx, moderate patchy to clustery epidote 40-60% Cpx, 40-60% Plag Intense alteration of Opx to tremolite +/- talc Intense alteration of Cpx to actinolite Strong to intense alteration of Plag Minor to locally 2% sulfide mineralization predominantly as medium grained to coarse grained bleby pyrrhotite and associated chalcopyrite 367.55 - 368.60m 20% erratic white feldspathic stringers and veinlets 373.5 - 374.8m Strong patchy-clustery epidote, locally foliated sheared at 30° to core axis																
			4	4			125	357.00	360.00	3.00	1.00	1:5	0.42	0.20	1.03	0.214	0.186	0.005
			4	4			126	360.00	363.00	3.00	1.00	1:4	0.36	0.16	0.49	0.225	0.199	0.006
			3	4			127	363.00	366.00	3.00	0.50	1:8	0.36	0.13	0.17	0.080	0.108	0.004
			3	4			128	366.00	369.00	3.00	0.25		0.28	0.12	0.15	0.101	0.108	0.004
			4	4			129	369.00	372.00	3.00	0.50	1:8	0.66	0.38	1.34	0.318	0.291	0.008
			4	4			130	372.00	375.00	3.00	0.75	1:8	0.81	0.39	0.26	0.084	0.218	0.007
			4	4			131	375.00	378.00	3.00	0.50	1:8	0.39	0.14	0.30	0.097	0.086	0.004



# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY:	LAC DES ILES	CLAIM NUMBER:	253	DOWNHOLE SURVEY METHOD:	Maxibor	DRILLING COMPANY:	CHTBOUGAMAU
HOLE NO.:	00-202	LENGTH: (m)	330	CORE SIZE:	NQ	REMARKS:	Core stored at Lac des Iles mine site
LOCATION - <u>MINE GRID</u>		NORTHING:	32254.281	EASTING:	31794.759		
SECTION:	520N	ZONE:	Roby	ELEVATION:	502.578	DATE LOGGED:	7-Jun--9-Jun-00
COLLAR ORIENTATION (AZIMUTH / DIP);	PLANNED:	071°/-45°	SURVEYED:	71.507/-43.748		LOGGED:	B. Nelson
HOLE STARTED:	4-Jun-00	HOLE FINISHED:	8-Jun-00	MAG DECLINATION:	2.1° w	SIGNATURE:	
						SHEET	1 OF 12

METERAGE		DESCRIPTION	Rock Code	Alt <sup>n</sup>		Bx Matrix		SAMPLES						ASSAYS					
FROM	TO			Plag	Pxr	Comp	Prop <sup>r</sup>	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
0.00	17.70			<b>OVERBURDEN / RUBBLE</b>															
17.70	95.00	<b>GABBRO / GABBRONORITE</b>  Very coarse grained, greenish-grey, massive, hard, not magnetic relatively equigranular with a well-defined mottled texture 5-10% Opx (locally possibly up to 15% Opx), 40-50% Cpx, 50-60% Plag Intense alteration of Opx to tremolite (shiny-colourless to grey striated crystals) to strong tremolite plus talc increasing down section Strong alteration of Cpx to actinolite Strong alteration of Plag, locally very strongly saussuritized Overall Cpx seen as large irregular dark green to medium green anhedral irregular crystals and Plag appears as large blebby to patchy anhedral irregular grey to creamy-greenish grey anhedral crystals Trace to minor medium grained bleby pyrrhotite Locally contains some relatively narrow medium grained sub-sections Local minor 10cm to 2m scale diabase dikes Very local quartz-diorite dike Subjective contact at 95.0m																	
			3	3			001	17.70	21.00	3.30	tr		1.06	0.12	0.01	0.001	0.009	0.001	
			3	3			002	21.00	23.40	2.40	tr		0.15	0.03	0.00	0.001	0.008	0.001	
			0	0			003	23.40	24.90	1.50	tr		0.01	0.00	0.00	0.009	0.010	0.002	
			3	3			004	24.90	27.90	3.00	tr		0.22	0.03	0.01	0.004	0.008	0.001	
			3	3			005	27.90	30.00	2.10	tr		0.99	0.06	0.00	0.002	0.009	0.001	
			3	3			006	30.00	33.00	3.00	tr		0.14	0.03	0.00	0.004	0.010	0.002	
			3	3			007	33.00	36.00	3.00	tr		1.66	0.08	0.01	0.005	0.010	0.002	
			3	3			008	36.00	39.00	3.00	nil		0.12	0.03	0.00	0.003	0.009	0.002	
			3	3			009	39.00	42.00	3.00	nil		0.48	0.07	0.01	0.003	0.012	0.002	
			3	3			010	42.00	45.00	3.00	nil		0.38	0.06	0.01	0.004	0.012	0.002	
			3	3			011	45.00	48.00	3.00	nil		0.12	0.02	0.01	0.012	0.011	0.002	
			3	3			012	48.00	50.00	2.00	nil		0.12	0.03	0.00	0.002	0.008	0.001	
			3	3			013	50.00	51.60	1.60	nil		0.11	0.04	0.00	0.001	0.009	0.001	
			0	0			014	51.60	53.75	2.15	nil		0.01	0.00	0.00	0.006	0.004	0.003	
			3	3			015	53.75	57.00	3.25	nil		0.70	0.09	0.01	0.004	0.021	0.002	
			3	3			016	57.00	60.00	3.00	tr		0.62	0.07	0.02	0.009	0.014	0.002	
			3	3			017	60.00	63.00	3.00	tr		0.12	0.03	0.00	0.002	0.008	0.001	
			3	3			018	63.00	67.34	4.34	0.25		0.13	0.03	0.00	0.004	0.009	0.002	
			3	3			019	67.34	69.00	1.66	tr		0.16	0.04	0.00	0.002	0.008	0.001	
			3	3			020	69.00	72.00	3.00	tr		0.44	0.06	0.02	0.012	0.013	0.002	
			3	3			021	72.00	75.00	3.00	tr		0.27	0.04	0.03	0.017	0.014	0.002	
			3	3			022	75.00	78.00	3.00	nil		0.13	0.03	0.01	0.001	0.008	0.001	
			3	3			023	78.00	81.00	3.00	tr		0.59	0.10	0.02	0.010	0.015	0.002	









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-202

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>m</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
117.60	122.30		<b>DIABASE DIKE</b>  Very fine grained, dark grey-black, very hard and strongly magnetic with 10% erratic ghosty feldspathic stringers No visible sulfides Very irregular contact sub-parallel to core axis for approx. 0.5 metres at 117.6m Very irregular contact sub-parallel to core axis for approx. 1.0 metres at 122.3m	0	0			038	117.60	120.00	2.40	nil		0.00	0.00	0.00	0.013	0.007
			0	0			039	120.00	122.30	2.30	nil		0.09	0.01	0.00	0.006	0.005	0.003
122.30	251.45	<b>GABBRONORITE</b>  Coarse grained to very coarse grained to locally medium grained, greenish-grey, hard, very locally magnetic, predominantly relatively equigranular locally with a moderate to strong mottled appearance defined by very large irregular shaped moderate to strongly saussuritized Plag patches, local moderate to strong epidote, very local very minor erratic white-grey Qtz-Plag stringers and veinlets, local relatively narrow sub-sections of more melanocratic gabbro-norite, very localized minor shearing sub-parallel to core axis 10-20% Opx, 20-40% Cpx, 50-65% Plag <b>DH-202-125.9</b> - Intensely altered Opx/Cpx? - talc and (Thin section) minor calcite Intense alteration of Opx to tremolite (shiny-colourless-grey, fish-scale) crystals and local talc	3	3			040	122.30	124.00	1.70	nil		0.09	0.00	0.00	0.006	0.008	0.002
			4	4			041	124.00	126.00	2.00	nil		0.15	0.04	0.00	0.002	0.010	0.002
			4	4			042	126.00	129.00	3.00	nil		0.45	0.09	0.01	0.008	0.014	0.002
			4	4			043	129.00	132.00	3.00	nil		0.10	0.03	0.00	0.002	0.008	0.001
			4	4			044	132.00	135.00	3.00	nil		0.35	0.07	0.01	0.005	0.011	0.002
			3	3			045	135.00	138.00	3.00	nil		0.06	0.01	0.00	0.007	0.007	0.002
			3	3			046	138.00	141.00	3.00	nil		0.60	0.07	0.01	0.007	0.010	0.001
			4	4			047	141.00	144.00	3.00	nil		0.14	0.04	0.01	0.005	0.007	0.001
			4	4			048	144.00	147.00	3.00	nil		0.17	0.03	0.00	0.002	0.009	0.001
			4	4			049	147.00	150.00	3.00	nil		0.17	0.03	0.00	0.004	0.008	0.001
			4	4			050	150.00	153.00	3.00	nil		0.58	0.08	0.01	0.006	0.012	0.002
			4	4			051	153.00	156.00	3.00	nil		0.15	0.04	0.00	0.001	0.008	0.001
			4	4			052	156.00	159.00	3.00	nil		0.10	0.03	0.00	0.003	0.006	0.001
			4	4			053	159.00	160.25	1.25	nil		0.13	0.03	0.00	0.006	0.006	0.001
			0	0			054	160.25	161.40	1.15	0.50		0.00	0.00	0.01	0.023	0.006	0.002
			4	4			055	161.40	163.00	1.60	0.25		0.43	0.07	0.01	0.012	0.011	0.002









# DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-202

LOGGED BY: B. Nelson SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxr	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
251.45	263.80		<p><b>HETEROLITHIC GABBRO BRECCIA / VARITEXTURED GABBRO</b> (continued)</p> <p>260.6 - 261.0m Diorite dike - medium grained, grey-white to orangey-red, hard and locally moderately foliated at 60° to core axis Orangey-red staining likely hematite alteration No visible sulfides Sharp contact at 260.6m at 50° to core axis marked by 1/2cm scale grey quartz veinlet Somewhat diffuse (assimilated) contact at 261.0m at approx. 20° to core axis</p>															
263.80	286.35	<p><b>GABBRONORITE</b></p> <p>Coarse grained to very coarse grained, greenish-grey, moderately soft and not magnetic, very locally pegmatitic, very local very minor medium grained Qtz-Plag dikelets relatively equigranular with local subtle variations in texture, very local moderate epidote 10-20% Opx, 20-40% Cpx, 50-65% Plag Intense alteration of Opx to tremolite +/- talc, shiny colourless to grey fishscale like amphibole Intense alteration of Cpx to actinolite Intense to locally strong alteration of Plag, locally strongly saussuritized Very local trace fine grained disseminated pyrite</p>	4	4			091	263.80	267.00	3.20	nil		1.99	0.16	0.03	0.011	0.019	0.002
			4	4			092	267.00	270.00	3.00	nil		1.02	0.12	0.01	0.006	0.014	0.001
			4	4			093	270.00	273.00	3.00	nil		0.73	0.09	0.01	0.005	0.011	0.001
			4	4			094	273.00	276.00	3.00	nil		0.14	0.03	0.00	0.003	0.009	0.001
			4	4			095	276.00	279.00	3.00	nil		0.71	0.18	0.02	0.006	0.010	0.001
			4	4			096	279.00	282.00	3.00	nil		0.34	0.03	0.02	0.005	0.008	0.001
			4	4			097	282.00	285.00	3.00	nil		0.05	0.01	0.01	0.005	0.008	0.001
			4	4			098	285.00	286.35	1.35	nil		3.03	0.24	0.14	0.038	0.037	0.002

## DIAMOND DRILL CORE LOGGING SHEETS

North American Palladium Ltd.

LAC DES ILES MINES LTD.

PROPERTY LDI ZONE Roby HOLE # 00-202

LOGGED BY: B. Nelson

SIGNATURE

METERAGE		DESCRIPTION	Alt <sup>n</sup>		Bx Matrix		SAMPLES					ASSAYS						
FROM	TO		Plag	Pxt	Com	Prop	No.	FROM	TO	LENGTH	% S	Cpy:Po	Pd gpt	Pt gpt	Au gpt	Cu %	Ni %	Co %
286.35	300.10		<b>VARITEXTURED GABBRO</b>  Medium grained to coarse grained to locally pegmatitic, green-grey, predominantly hard to locally soft and not magnetic, moderate erratic 5mm to 10cm scale quartz diorite dikelets - locally exhibiting orangey hematite staining, minor erratic grey-white Qtz-Plag stringers, veinlets and veins, overall compositionally homogeneous, sharp to gradational variations in texture, local minor altered Opx 0 to <5% Opx, 40-60% Cpx, 40-60% Plag Strong alteration of Opx to tremolite Moderate to strong alteration of Cpx to actinolite Moderate to strong alteration of Plag No visible sulfides  At 297.7m Narrow 5cm scale shear - shear oriented at 35° to core axis	4	4			099	286.35	288.00	1.65	nil		0.36	0.06	0.01	0.004	0.010
			4	4			100	288.00	291.00	3.00	nil		0.45	0.06	0.04	0.013	0.013	0.002
			3	3			101	291.00	294.00	3.00	nil		0.43	0.05	0.02	0.008	0.011	0.002
			3	3			102	294.00	297.00	3.00	nil		0.33	0.04	0.01	0.004	0.008	0.001
			3	3			103	297.00	300.10	3.10	nil		0.56	0.07	0.01	0.001	0.011	0.001
300.10	330.00	<b>GABBRO</b>  Coarse grained to very coarse grained, greenish-grey, moderately hard, relatively equigranular, livery very erratic white-grey Qtz-Plag veining, near top of section 1.5 metre diorite dike and 0.6 metre quartz vein with strong associated hematite alteration 40-60% Cpx, 40-60% Plag Intense alteration of Cpx to actinolite Strong to intense alteration of Plag (saussuritized) No visible sulfides	4	4			104	300.10	302.25	2.15	nil		0.08	0.02	0.00	0.001	0.009	0.001
			4	4			105	302.25	303.50	1.25	nil		0.02	0.01	0.00	0.000	0.013	0.002
			4	4			106	303.50	306.00	2.50	nil		0.10	0.03	0.00	0.001	0.012	0.002
			4	4			107	306.00	309.00	3.00	nil		0.12	0.03	0.00	0.001	0.009	0.001
			4	4			108	309.00	312.00	3.00	nil		0.11	0.03	0.00	0.002	0.008	0.001
			4	4			109	312.00	315.00	3.00	nil		0.13	0.03	0.00	0.002	0.008	0.001
			4	4			110	315.00	317.20	2.20	nil		0.13	0.04	0.00	0.002	0.009	0.001
			3	3			111	317.20	318.50	1.30	nil		0.04	0.01	0.00	0.004	0.014	0.002
			3	3			112	318.50	321.00	2.50	nil		0.10	0.03	0.00	0.002	0.010	0.002
			4	4			113	321.00	324.00	3.00	nil		0.24	0.04	0.00	0.002	0.007	0.001
			4	4			114	324.00	327.00	3.00	nil		0.17	0.03	0.01	0.004	0.008	0.001
			4	4			115	327.00	330.00	3.00	nil		0.19	0.04	0.01	0.003	0.010	0.002





**Lac des Iles Mines, Ltd.**  
**Drill hole Log Abbreviations**

Abbreviation	Word	Abbreviation	Word
Adj	adjacent	act	actinolite
Altn	Alteration	Anorth	anorthosite
ass	associated	Bi	biotite
Avg	Average	Bx	breccia
Blk	black	Calc	calcite
Bot	bottom	Cpx	Clinopyroxene
Ca	Core axis	Cpy/Cp	chalcopyrite
Ct	Contact	Chl	chlorite
Cntd	continued	Db	diabase
Coarse Gr/ c.g.	Coarse-grained	Dior	diorite
Comp	composition	E. gab	East gabbro
cm	centimetres	Ep	Epidote
diss	disseminated	Gab	Gabbro
Dk	dark	Gab-nor/gabnor	Gabbro-norite
esp	especially	Het Bx	Heterolithic Breccia
F	Fine	Hem	Hematite
Frag	fragment	Hbl	hornblende
Fxrd	fractured	k-spar	K-feldspar
Fxs	fractures	Leucogab/lgab	Leucogabbro
f.g./ f.gr.	Fine-grained	Mg	Magnesium
f-m.g.	Fine to medium-grained	Mn	manganese
Gr.	grained	Mag/Mt	magnetite
gpt	Grammes per tonne	Mgabnor	Melanogabbro-norite
Ireg /irreg	irregular	Mel. Gab./Mgab	melanogabbro
Lg	large	Mel. Norite/ m norite	Melano Norite
Loc	Local	Nor	Norite
Lt	light	Opx	orthopyroxene
Med gr /m.g./mgr	Medium-grained	Po	Pyrrhotite
M	metres	Px	pyroxene
Mod	Moderate	Pdo	Preferred direction of orientation
Occ	Occasional	Peg	pegmatitic
Poss	possible	Py	pyrite
Rel	relatively	Plag	Plagioclase
Rxs	Rocks	Pxr/pxn	pyroxenite
Slicks	slickensides	Qtz	quartz
sm	small	Qv	Quartz vein
Tca	To core axis	qfv	Quartz-feldspar vein
Tr	trace	Sauss	sausserite
V	very	Serp	Serpentine
v.f. gr./ v.f.g.	Very fine-grained	Sil	silicification
Volc	Volcanic	Sulf	Sulfide
W	With	Trem	tremolite
Wk	Weak	Uralzn	Uralitization
Wkly	Weakly	VT Gab/VT Gb	Varitextured gabbro
Xl	crystal	web	websterite
Xls	crystals		
@	at		

2.23510



**Table 1: 2000 Drilling - Downhole Surveys**

2.23510

HOLE-ID	DISTANCE	AZIMUTH	DIP	HOLE-ID	DISTANCE	AZIMUTH	DIP
00-001	0	307.07	-60.2	00-001	96	308.95	-59.3
00-001	3	307.44	-60.4	00-001	99	309.06	-59.3
00-001	6	307.45	-60.3	00-001	102	309.08	-59.3
00-001	9	307.52	-60.3	00-001	105	309.13	-59.2
00-001	12	307.58	-60.2	00-001	108	309.19	-59.2
00-001	15	307.59	-60.2	00-001	111	309.24	-59.2
00-001	18	307.66	-60.2	00-001	114	309.31	-59.2
00-001	21	307.7	-60.1	00-001	117	309.35	-59.3
00-001	24	307.76	-60.1	00-001	120	309.42	-59.2
00-001	27	307.88	-60.1	00-001	123	309.45	-59.2
00-001	30	307.9	-60	00-001	126	309.5	-59.2
00-001	33	307.9	-60	00-001	129	309.57	-59.2
00-001	36	308.03	-59.9	00-001	132	309.67	-59.2
00-001	39	308.02	-59.9	00-001	135	309.74	-59.2
00-001	42	308.03	-59.8	00-001	138	309.82	-59.2
00-001	45	308.06	-59.7	00-001	141	309.86	-59.2
00-001	48	308.14	-59.7	00-001	144	309.96	-59.2
00-001	51	308.21	-59.6	00-001	147	310.05	-59.1
00-001	54	308.25	-59.6	00-001	150	310.11	-59.1
00-001	57	308.21	-59.6	00-001	153	310.18	-59.1
00-001	60	308.27	-59.5	00-001	156	310.26	-59.1
00-001	63	308.34	-59.5	00-001	159	310.28	-59.1
00-001	66	308.39	-59.5	00-001	162	310.32	-59.1
00-001	69	308.46	-59.5	00-001	165	310.34	-59.0
00-001	72	308.52	-59.4	00-001	168	310.42	-59.0
00-001	75	308.61	-59.4	00-001	171	310.52	-59
00-001	78	308.7	-59.4	00-001	174	310.63	-59
00-001	81	308.72	-59.4	00-001	177	310.73	-59
00-001	84	308.82	-59.4	00-001	180	310.75	-59
00-001	87	308.87	-59.3	00-001	183	310.78	-59
00-001	90	308.9	-59.3	00-001	186	310.81	-59
00-001	93	308.91	-59.3	00-001	189	310.85	-59



<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-001	192	310.94	-59	00-001	297	312.81	-58.3
00-001	195	310.98	-58.9	00-001	300	312.93	-58.2
00-001	198	311.03	-58.9	00-001	303	313.01	-58.2
00-001	201	311.02	-58.9	00-001	306	313.09	-58.2
00-001	204	311.01	-58.9	00-001	309	313.16	-58.2
00-001	207	311.05	-58.9	00-001	315	313.24	-58.2
00-001	210	311.12	-58.8	00-002	0	307.85	-59.8
00-001	213	311.2	-58.8	00-002	3	307.92	-59.8
00-001	216	311.3	-58.8	00-002	6	307.97	-59.8
00-001	219	311.43	-58.7	00-002	9	307.94	-59.8
00-001	222	311.58	-58.7	00-002	12	307.92	-59.8
00-001	225	311.57	-58.7	00-002	15	307.97	-59.8
00-001	228	311.54	-58.7	00-002	18	308.03	-59.9
00-001	231	311.57	-58.6	00-002	21	308.07	-60
00-001	234	311.67	-58.6	00-002	24	308.1	-59.9
00-001	237	311.68	-58.6	00-002	27	308.12	-59.9
00-001	240	311.67	-58.6	00-002	30	308.2	-59.8
00-001	243	311.73	-58.6	00-002	33	308.25	-59.8
00-001	246	311.77	-58.6	00-002	36	308.26	-59.8
00-001	249	311.84	-58.6	00-002	39	308.34	-59.7
00-001	252	311.9	-58.5	00-002	42	308.39	-59.7
00-001	255	311.94	-58.5	00-002	45	308.45	-59.6
00-001	258	312.01	-58.5	00-002	48	308.49	-59.6
00-001	261	312.05	-58.5	00-002	51	308.53	-59.6
00-001	264	312.04	-58.5	00-002	54	308.56	-59.6
00-001	267	312.07	-58.4	00-002	57	308.56	-59.6
00-001	270	312.1	-58.4	00-002	60	308.63	-59.5
00-001	273	312.17	-58.4	00-002	63	308.65	-59.5
00-001	276	312.27	-58.3	00-002	66	308.67	-59.5
00-001	279	312.33	-58.3	00-002	69	308.74	-59.5
00-001	282	312.38	-58.3	00-002	72	308.78	-59.4
00-001	285	312.47	-58.3	00-002	75	308.83	-59.4
00-001	288	312.56	-58.3	00-002	78	308.84	-59.4
00-001	291	312.62	-58.3	00-002	81	308.84	-59.4
00-001	294	312.72	-58.2	00-002	84	308.88	-59.4

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-002	87	308.88	-59.3	00-002	192	310.06	-58.9
00-002	90	308.91	-59.3	00-002	195	310.11	-58.9
00-002	93	308.92	-59.3	00-002	198	310.17	-58.9
00-002	96	308.95	-59.3	00-002	201	310.22	-58.9
00-002	99	309.02	-59.3	00-002	204	310.23	-58.9
00-002	102	309.04	-59.3	00-002	207	310.25	-58.9
00-002	105	309.07	-59.3	00-002	210	310.33	-58.9
00-002	108	309.1	-59.2	00-002	213	310.37	-58.9
00-002	111	309.14	-59.2	00-002	216	310.43	-58.9
00-002	114	309.18	-59.2	00-002	219	310.47	-58.9
00-002	117	309.23	-59.2	00-002	222	310.41	-58.9
00-002	120	309.27	-59.2	00-002	225	310.4	-58.9
00-002	123	309.29	-59.1	00-002	228	310.47	-58.9
00-002	126	309.35	-59.1	00-002	231	310.44	-58.9
00-002	129	309.4	-59.1	00-002	234	310.44	-58.9
00-002	132	309.46	-59.1	00-002	237	310.52	-58.9
00-002	135	309.48	-59.1	00-002	240	310.62	-58.9
00-002	138	309.54	-59.0	00-002	243	310.66	-58.8
00-002	141	309.61	-59.0	00-002	246	310.66	-58.8
00-002	144	309.62	-59.0	00-002	249	310.64	-58.8
00-002	147	309.61	-59.0	00-002	252	310.68	-58.8
00-002	150	309.66	-59	00-002	255	310.7	-58.8
00-002	153	309.7	-59	00-002	258	310.71	-58.8
00-002	156	309.72	-59	00-002	261	310.69	-58.8
00-002	159	309.75	-58.9	00-002	264	310.71	-58.8
00-002	162	309.77	-58.9	00-002	267	310.71	-58.8
00-002	165	309.8	-58.9	00-002	270	310.66	-58.8
00-002	168	309.83	-58.9	00-002	273	310.67	-58.9
00-002	171	309.87	-58.9	00-002	276	310.64	-58.9
00-002	174	309.92	-58.9	00-002	279	310.63	-58.9
00-002	177	309.94	-58.8	00-002	282	310.65	-58.9
00-002	180	309.98	-58.9	00-002	285	310.65	-58.9
00-002	183	310.04	-58.8	00-002	288	310.61	-58.9
00-002	186	310.09	-58.8	00-002	291	310.65	-58.9
00-002	189	310.09	-58.9	00-002	294	310.66	-58.9



<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-002	297	310.65	-58.9	00-002	402	311.46	-59
00-002	300	310.72	-58.9	00-002	408	311.61	-58.7
00-002	303	310.79	-58.9	00-003	0	307	-62.9
00-002	306	310.8	-58.9	00-003	3	306.97	-63.1
00-002	309	310.83	-58.9	00-003	6	307.08	-63.0
00-002	312	310.91	-58.9	00-003	9	307.11	-63.1
00-002	315	310.99	-58.9	00-003	12	307.06	-63.0
00-002	318	311.01	-58.9	00-003	15	307.02	-63
00-002	321	310.97	-58.9	00-003	18	307.03	-63
00-002	324	310.95	-58.9	00-003	21	307.01	-63
00-002	327	310.96	-58.9	00-003	24	306.99	-62.9
00-002	330	310.9	-58.9	00-003	27	307.06	-62.9
00-002	333	310.97	-58.9	00-003	30	307.01	-62.9
00-002	336	311	-58.9	00-003	33	307	-62.9
00-002	339	310.98	-58.9	00-003	36	307	-62.8
00-002	342	310.97	-59	00-003	39	307.05	-62.8
00-002	345	311.02	-59	00-003	42	307.06	-62.8
00-002	348	311.06	-59	00-003	45	307.12	-62.8
00-002	351	311.03	-59	00-003	48	307.17	-62.8
00-002	354	311.07	-59	00-003	51	307.15	-62.7
00-002	357	311.07	-59	00-003	54	307.07	-62.7
00-002	360	311.08	-59	00-003	57	307.07	-62.7
00-002	363	311.12	-58.9	00-003	60	307.03	-62.6
00-002	366	311.15	-58.9	00-003	63	307	-62.6
00-002	369	311.18	-59	00-003	66	306.98	-62.5
00-002	372	311.19	-59	00-003	69	307	-62.5
00-002	375	311.25	-59	00-003	72	306.96	-62.4
00-002	378	311.24	-59.0	00-003	75	306.94	-62.4
00-002	381	311.27	-59.0	00-003	78	306.88	-62.4
00-002	384	311.31	-59.0	00-003	81	306.84	-62.3
00-002	387	311.34	-59.0	00-003	84	306.77	-62.3
00-002	390	311.35	-59.0	00-003	87	306.68	-62.3
00-002	393	311.33	-59.0	00-003	90	306.63	-62.3
00-002	396	311.4	-59.0	00-003	93	306.52	-62.3
00-002	399	311.39	-59.0	00-003	96	306.5	-62.2

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-003	99	306.48	-62.2	00-003	204	305.38	-61.3
00-003	102	306.45	-62.2	00-003	207	305.34	-61.3
00-003	105	306.38	-62.1	00-003	210	305.32	-61.2
00-003	108	306.28	-62.1	00-003	213	305.3	-61.2
00-003	111	306.27	-62.1	00-003	216	305.35	-61.2
00-003	114	306.19	-62.0	00-003	219	305.4	-61.2
00-003	117	306.14	-62	00-003	222	305.37	-61.2
00-003	120	306.12	-61.9	00-003	225	305.25	-61.1
00-003	123	306.05	-61.9	00-003	228	305.18	-61.0
00-003	126	306.04	-61.9	00-003	231	305.14	-61
00-003	129	306	-61.8	00-003	234	305.12	-61
00-003	132	305.99	-61.8	00-003	237	305.09	-61
00-003	135	305.96	-61.7	00-003	240	305.07	-60.9
00-003	138	305.93	-61.7	00-003	243	305.04	-60.9
00-003	141	305.92	-61.7	00-003	246	304.97	-60.9
00-003	144	305.92	-61.7	00-003	249	304.95	-60.8
00-003	147	305.86	-61.7	00-003	252	304.91	-60.8
00-003	150	305.75	-61.6	00-003	255	304.85	-60.8
00-003	153	305.67	-61.6	00-003	258	304.83	-60.7
00-003	156	305.62	-61.6	00-003	261	304.79	-60.7
00-003	159	305.56	-61.6	00-003	264	304.8	-60.6
00-003	162	305.57	-61.6	00-003	267	304.81	-60.6
00-003	165	305.63	-61.6	00-003	270	304.76	-60.6
00-003	168	305.65	-61.5	00-003	273	304.69	-60.5
00-003	171	305.64	-61.6	00-003	276	304.7	-60.5
00-003	174	305.72	-61.6	00-003	279	304.65	-60.5
00-003	177	305.73	-61.5	00-003	282	304.67	-60.4
00-003	180	305.63	-61.5	00-003	285	304.67	-60.4
00-003	183	305.55	-61.5	00-003	288	304.64	-60.4
00-003	186	305.57	-61.5	00-003	291	304.58	-60.3
00-003	189	305.5	-61.5	00-003	294	304.57	-60.3
00-003	192	305.47	-61.4	00-003	297	304.51	-60.3
00-003	195	305.42	-61.4	00-003	300	304.46	-60.2
00-003	198	305.38	-61.4	00-003	303	304.43	-60.2
00-003	201	305.35	-61.4	00-003	306	304.41	-60.2

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-003	309	304.35	-60.2	00-005	75	307.77	-62.1
00-003	312	304.35	-60.2	00-005	78	307.76	-62.1
00-003	315	304.29	-60.1	00-005	81	307.75	-62.1
00-003	318	304.3	-60.1	00-005	84	307.71	-62.1
00-003	321	304.23	-60.0	00-005	87	307.68	-62.0
00-003	324	304.22	-60	00-005	90	307.66	-62
00-003	327	304.33	-60	00-005	93	307.67	-62
00-003	330	304.36	-59.9	00-005	96	307.63	-62
00-003	333	304.48	-59.9	00-005	99	307.63	-61.9
00-003	339	304.51	-59.8	00-005	102	307.64	-61.9
00-005	0	307.32	-62.6	00-005	105	307.65	-61.9
00-005	3	307.34	-62.6	00-005	108	307.6	-61.9
00-005	6	307.36	-62.6	00-005	111	307.54	-61.8
00-005	9	307.37	-62.6	00-005	114	307.54	-61.8
00-005	12	307.38	-62.6	00-005	117	307.52	-61.8
00-005	15	307.4	-62.6	00-005	120	307.58	-61.8
00-005	18	307.43	-62.6	00-005	123	307.56	-61.8
00-005	21	307.43	-62.6	00-005	126	307.58	-61.8
00-005	24	307.47	-62.6	00-005	129	307.51	-61.8
00-005	27	307.51	-62.5	00-005	132	307.49	-61.8
00-005	30	307.54	-62.5	00-005	135	307.52	-61.7
00-005	33	307.56	-62.5	00-005	138	307.54	-61.7
00-005	36	307.57	-62.5	00-005	141	307.57	-61.7
00-005	39	307.62	-62.4	00-005	144	307.58	-61.7
00-005	42	307.62	-62.4	00-005	147	307.57	-61.7
00-005	45	307.62	-62.4	00-005	150	307.55	-61.6
00-005	48	307.65	-62.4	00-005	153	307.54	-61.6
00-005	51	307.66	-62.4	00-005	156	307.52	-61.6
00-005	54	307.67	-62.4	00-005	159	307.5	-61.6
00-005	57	307.69	-62.3	00-005	162	307.51	-61.6
00-005	60	307.75	-62.3	00-005	165	307.48	-61.5
00-005	63	307.73	-62.3	00-005	168	307.52	-61.5
00-005	66	307.78	-62.3	00-005	171	307.54	-61.5
00-005	69	307.72	-62.2	00-005	174	307.59	-61.5
00-005	72	307.74	-62.2	00-005	177	307.57	-61.4

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-005	180	307.59	-61.4	00-010	60	306.75	-46.1
00-005	183	307.62	-61.4	00-010	63	306.75	-46.1
00-005	186	307.65	-61.3	00-010	66	306.76	-46.1
00-005	189	307.72	-61.3	00-010	69	306.79	-46.0
00-005	192	307.71	-61.3	00-010	72	306.82	-46.0
00-005	195	307.74	-61.3	00-010	75	306.85	-46
00-005	198	307.82	-61.3	00-010	78	306.88	-46
00-005	201	307.84	-61.2	00-010	81	306.88	-45.9
00-005	204	307.86	-61.2	00-010	84	306.92	-45.9
00-005	207	307.89	-61.2	00-010	87	306.95	-45.9
00-005	210	307.93	-61.2	00-010	90	306.98	-45.9
00-005	213	308	-61.1	00-010	93	307.01	-45.8
00-005	216	308.1	-61.1	00-010	96	307.06	-45.8
00-005	219	308.2	-61.0	00-010	99	307.06	-45.8
00-005	225	308.36	-61	00-010	102	307.09	-45.8
00-010	0	306.75	-46.7	00-010	105	307.11	-45.7
00-010	3	306.38	-46.6	00-010	108	307.12	-45.7
00-010	6	306.19	-46.6	00-010	111	307.15	-45.7
00-010	9	306.12	-46.6	00-010	114	307.19	-45.7
00-010	12	306.18	-46.6	00-010	117	307.23	-45.6
00-010	15	306.2	-46.5	00-010	120	307.24	-45.6
00-010	18	306.26	-46.5	00-010	123	307.26	-45.6
00-010	21	306.29	-46.5	00-010	126	307.29	-45.6
00-010	24	306.31	-46.5	00-010	129	307.33	-45.6
00-010	27	306.38	-46.4	00-010	132	307.33	-45.5
00-010	30	306.39	-46.4	00-010	135	307.36	-45.5
00-010	33	306.46	-46.3	00-010	138	307.41	-45.5
00-010	36	306.5	-46.3	00-010	141	307.4	-45.5
00-010	39	306.51	-46.3	00-010	144	307.46	-45.5
00-010	42	306.55	-46.3	00-010	147	307.49	-45.5
00-010	45	306.58	-46.2	00-010	150	307.53	-45.4
00-010	48	306.63	-46.2	00-010	153	307.57	-45.4
00-010	51	306.69	-46.2	00-010	156	307.59	-45.4
00-010	54	306.69	-46.2	00-010	159	307.58	-45.4
00-010	57	306.7	-46.1	00-010	162	307.65	-45.4

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-010	165	307.71	-45.4	00-010	270	308.36	-44.8
00-010	168	307.72	-45.3	00-010	273	308.39	-44.8
00-010	171	307.73	-45.3	00-010	276	308.43	-44.8
00-010	174	307.75	-45.3	00-010	279	308.49	-44.8
00-010	177	307.78	-45.3	00-010	282	308.54	-44.7
00-010	180	307.81	-45.3	00-010	285	308.56	-44.7
00-010	183	307.86	-45.3	00-010	288	308.55	-44.7
00-010	186	307.89	-45.3	00-010	291	308.55	-44.7
00-010	189	307.91	-45.3	00-010	294	308.6	-44.7
00-010	192	307.95	-45.2	00-010	300	308.58	-44.6
00-010	195	307.97	-45.2	00-015	0	306.61	-58.3
00-010	198	308	-45.2	00-015	3	306.63	-58.3
00-010	201	308.02	-45.2	00-015	6	306.63	-58.3
00-010	204	308.05	-45.2	00-015	9	306.66	-58.2
00-010	207	308.06	-45.2	00-015	12	306.67	-58.1
00-010	210	308.05	-45.2	00-015	15	306.67	-58.1
00-010	213	308.07	-45.2	00-015	18	306.65	-58.1
00-010	216	308.02	-45.2	00-015	21	306.7	-58.0
00-010	219	308.03	-45.2	00-015	24	306.77	-58.0
00-010	222	308.05	-45.1	00-015	27	306.79	-58.0
00-010	225	308.08	-45.1	00-015	30	306.83	-58
00-010	228	308.1	-45.1	00-015	33	306.91	-58
00-010	231	308.14	-45.1	00-015	36	306.95	-57.9
00-010	234	308.17	-45.1	00-015	39	306.99	-57.9
00-010	237	308.22	-45.1	00-015	42	307.01	-57.9
00-010	240	308.25	-45.1	00-015	45	307.08	-57.9
00-010	243	308.25	-45.1	00-015	48	307.11	-57.9
00-010	246	308.24	-45.0	00-015	51	307.14	-57.9
00-010	249	308.28	-45.0	00-015	54	307.18	-57.9
00-010	252	308.26	-45	00-015	57	307.23	-57.9
00-010	255	308.27	-45	00-015	60	307.3	-57.9
00-010	258	308.28	-45	00-015	63	307.33	-58
00-010	261	308.31	-44.9	00-015	66	307.4	-57.9
00-010	264	308.33	-44.9	00-015	69	307.45	-57.9
00-010	267	308.33	-44.9	00-015	72	307.49	-57.9

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-015	75	307.53	-57.9	00-015	180	308.81	-58.2
00-015	78	307.57	-58	00-015	183	308.81	-58.2
00-015	81	307.59	-58	00-015	186	308.84	-58.2
00-015	84	307.63	-58	00-015	189	308.82	-58.3
00-015	87	307.72	-58	00-015	192	308.88	-58.3
00-015	90	307.77	-57.9	00-015	195	308.92	-58.3
00-015	93	307.82	-58	00-015	198	308.94	-58.3
00-015	96	307.87	-58	00-015	201	308.98	-58.3
00-015	99	307.93	-58.0	00-015	204	309	-58.3
00-015	102	307.92	-58.1	00-015	207	309.03	-58.3
00-015	105	307.97	-58.1	00-015	210	309.09	-58.3
00-015	108	308.04	-58.1	00-015	213	309.15	-58.2
00-015	111	308.07	-58.1	00-015	216	309.2	-58.2
00-015	114	308.11	-58.0	00-015	219	309.25	-58.2
00-015	117	308.09	-58	00-015	222	309.26	-58.2
00-015	120	308.05	-58	00-015	225	309.29	-58.2
00-015	123	308.07	-58	00-015	228	309.28	-58.2
00-015	126	308.07	-58.0	00-015	231	309.33	-58.2
00-015	129	308.09	-58.1	00-015	234	309.31	-58.2
00-015	132	308.16	-58.1	00-015	237	309.34	-58.2
00-015	135	308.23	-58.1	00-015	240	309.33	-58.2
00-015	138	308.3	-58.1	00-015	243	309.35	-58.2
00-015	141	308.33	-58.1	00-015	246	309.4	-58.2
00-015	144	308.45	-58.2	00-015	249	309.43	-58.2
00-015	147	308.45	-58.2	00-015	252	309.43	-58.2
00-015	150	308.42	-58.2	00-015	255	309.48	-58.2
00-015	153	308.46	-58.2	00-015	258	309.51	-58.2
00-015	156	308.49	-58.2	00-015	261	309.53	-58.2
00-015	159	308.5	-58.2	00-015	267	309.58	-58.2
00-015	162	308.55	-58.2	00-019	0	307.03	-58.1
00-015	165	308.58	-58.2	00-019	3	307.03	-58.1
00-015	168	308.65	-58.2	00-019	6	306.91	-57.9
00-015	171	308.72	-58.2	00-019	9	306.93	-57.8
00-015	174	308.73	-58.2	00-019	12	306.98	-57.8
00-015	177	308.74	-58.2	00-019	15	307.03	-57.8

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-019	18	307.01	-57.8	00-019	123	306.28	-57.2
00-019	21	307.04	-57.8	00-019	126	306.31	-57.1
00-019	24	307	-57.7	00-019	129	306.36	-57.1
00-019	27	306.98	-57.7	00-019	132	306.39	-57.1
00-019	30	306.99	-57.7	00-019	135	306.39	-57.0
00-019	33	306.93	-57.7	00-019	138	306.4	-57.0
00-019	36	306.93	-57.7	00-019	141	306.38	-57
00-019	39	306.99	-57.7	00-019	144	306.35	-57
00-019	42	306.96	-57.6	00-019	147	306.3	-56.9
00-019	45	306.94	-57.6	00-019	150	306.24	-56.9
00-019	48	306.92	-57.6	00-019	153	306.29	-57
00-019	51	306.9	-57.6	00-019	156	306.34	-57
00-019	54	306.85	-57.6	00-019	159	306.33	-57
00-019	57	306.81	-57.6	00-019	162	306.32	-57
00-019	60	306.77	-57.6	00-019	165	306.27	-57
00-019	63	306.72	-57.6	00-019	168	306.16	-56.9
00-019	66	306.71	-57.6	00-019	171	306.15	-56.9
00-019	69	306.66	-57.5	00-019	174	306.17	-56.8
00-019	72	306.59	-57.5	00-019	177	306.13	-56.7
00-019	75	306.56	-57.5	00-019	180	306.01	-56.7
00-019	78	306.55	-57.5	00-019	183	305.94	-56.7
00-019	81	306.51	-57.5	00-019	186	305.99	-56.6
00-019	84	306.44	-57.5	00-019	189	306.06	-56.6
00-019	87	306.43	-57.5	00-019	192	306.08	-56.6
00-019	90	306.39	-57.4	00-019	195	306.11	-56.6
00-019	93	306.35	-57.4	00-019	198	306.11	-56.5
00-019	96	306.31	-57.4	00-019	201	306.05	-56.5
00-019	99	306.26	-57.4	00-019	207	306.13	-56.4
00-019	102	306.25	-57.3	00-027	0	306.55	-60.2
00-019	105	306.24	-57.3	00-027	3	306.61	-60.2
00-019	108	306.25	-57.3	00-027	6	306.65	-60.2
00-019	111	306.24	-57.3	00-027	9	306.66	-60.2
00-019	114	306.24	-57.2	00-027	12	306.58	-60.2
00-019	117	306.29	-57.2	00-027	15	306.52	-60.2
00-019	120	306.27	-57.2	00-027	18	306.51	-60.2

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-027	21	306.53	-60.2	00-027	126	306.31	-59.8
00-027	24	306.49	-60.2	00-027	129	306.34	-59.8
00-027	27	306.43	-60.1	00-027	132	306.38	-59.8
00-027	30	306.38	-60.1	00-027	135	306.39	-59.8
00-027	33	306.35	-60.1	00-027	138	306.44	-59.8
00-027	36	306.36	-60.1	00-027	141	306.41	-59.8
00-027	39	306.35	-60.1	00-027	144	306.39	-59.8
00-027	42	306.37	-60.1	00-027	147	306.33	-59.7
00-027	45	306.38	-60.1	00-027	150	306.3	-59.7
00-027	48	306.38	-60.1	00-027	153	306.28	-59.7
00-027	51	306.41	-60.1	00-027	156	306.29	-59.7
00-027	54	306.37	-60.1	00-027	159	306.24	-59.7
00-027	57	306.34	-60.1	00-027	162	306.22	-59.7
00-027	60	306.33	-60.0	00-027	165	306.25	-59.7
00-027	63	306.29	-60.0	00-027	168	306.19	-59.7
00-027	66	306.22	-60.0	00-027	171	306.18	-59.6
00-027	69	306.22	-60.0	00-027	174	306.16	-59.6
00-027	72	306.26	-60	00-027	177	306.15	-59.6
00-027	75	306.27	-60	00-027	180	306.11	-59.6
00-027	78	306.29	-60	00-027	183	306.16	-59.6
00-027	81	306.28	-60	00-027	186	306.28	-59.6
00-027	84	306.25	-60	00-027	189	306.29	-59.6
00-027	87	306.3	-59.9	00-027	192	306.27	-59.6
00-027	90	306.29	-59.9	00-027	195	306.34	-59.6
00-027	93	306.25	-60	00-027	198	306.34	-59.6
00-027	96	306.24	-60	00-027	201	306.33	-59.6
00-027	99	306.21	-60	00-027	204	306.29	-59.6
00-027	102	306.2	-60	00-027	207	306.25	-59.7
00-027	105	306.19	-60	00-027	210	306.23	-59.7
00-027	108	306.21	-59.9	00-027	213	306.19	-59.6
00-027	111	306.18	-59.9	00-027	216	306.15	-59.6
00-027	114	306.19	-59.9	00-027	219	306.11	-59.7
00-027	117	306.19	-59.8	00-027	222	306.12	-59.6
00-027	120	306.27	-59.8	00-027	225	306.2	-59.6
00-027	123	306.26	-59.8	00-027	231	306.42	-59.5



<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-033	0	306.17	-58.0	00-033	105	307.6	-58.2
00-033	3	306.29	-58.2	00-033	108	307.6	-58.2
00-033	6	306.29	-58.2	00-033	111	307.57	-58.2
00-033	9	306.31	-58.2	00-033	114	307.57	-58.3
00-033	12	306.32	-58.2	00-033	117	307.57	-58.3
00-033	15	306.33	-58.2	00-033	120	307.56	-58.2
00-033	18	306.39	-58.2	00-033	123	307.61	-58.2
00-033	21	306.41	-58.2	00-033	126	307.63	-58.3
00-033	24	306.48	-58.2	00-033	129	307.65	-58.3
00-033	27	306.53	-58.2	00-033	132	307.7	-58.3
00-033	30	306.59	-58.2	00-033	135	307.67	-58.3
00-033	33	306.66	-58.2	00-033	138	307.69	-58.3
00-033	36	306.69	-58.2	00-033	141	307.65	-58.3
00-033	39	306.75	-58.2	00-033	144	307.55	-58.3
00-033	42	306.75	-58.3	00-033	147	307.57	-58.3
00-033	45	306.82	-58.2	00-033	150	307.55	-58.3
00-033	48	306.86	-58.3	00-033	153	307.66	-58.4
00-033	51	306.92	-58.3	00-033	156	307.68	-58.4
00-033	54	306.97	-58.3	00-033	159	307.67	-58.4
00-033	57	306.99	-58.3	00-033	162	307.69	-58.4
00-033	60	307.04	-58.3	00-033	165	307.69	-58.4
00-033	63	307.08	-58.3	00-033	168	307.75	-58.4
00-033	66	307.1	-58.3	00-033	171	307.82	-58.4
00-033	69	307.22	-58.3	00-033	174	307.81	-58.4
00-033	72	307.3	-58.3	00-033	177	307.81	-58.4
00-033	75	307.34	-58.3	00-033	180	307.79	-58.4
00-033	78	307.39	-58.3	00-033	183	307.77	-58.4
00-033	81	307.45	-58.2	00-033	186	307.81	-58.4
00-033	84	307.45	-58.2	00-033	189	307.82	-58.4
00-033	87	307.45	-58.2	00-033	192	307.78	-58.4
00-033	90	307.53	-58.2	00-033	195	307.78	-58.4
00-033	93	307.57	-58.2	00-033	198	307.78	-58.4
00-033	96	307.61	-58.2	00-033	201	307.76	-58.4
00-033	99	307.62	-58.2	00-033	204	307.78	-58.4
00-033	102	307.62	-58.2	00-033	207	307.84	-58.4

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-033	210	307.87	-58.3	00-062	69	252.05	-46.4
00-033	213	307.92	-58.3	00-062	72	252.07	-46.5
00-033	216	307.96	-58.3	00-062	75	251.99	-46.4
00-033	219	307.95	-58.3	00-062	78	251.91	-46.4
00-033	222	307.93	-58.2	00-062	81	251.93	-46.4
00-033	225	307.94	-58.2	00-062	84	251.94	-46.4
00-033	228	307.99	-58.2	00-062	87	251.96	-46.4
00-033	231	308.01	-58.2	00-062	90	252.02	-46.3
00-033	234	308	-58.1	00-062	93	252.04	-46.3
00-033	237	308	-58.1	00-062	96	252.04	-46.3
00-033	240	308.03	-58.1	00-062	99	252.05	-46.3
00-033	246	308.06	-58	00-062	102	252.06	-46.3
00-062	0	250.99	-45.7	00-062	105	252.04	-46.3
00-062	3	251.76	-46.0	00-062	108	252.05	-46.4
00-062	6	252.14	-46.4	00-062	111	252.02	-46.3
00-062	9	252.18	-46.4	00-062	114	252	-46.3
00-062	12	252.14	-46.5	00-062	117	251.94	-46.2
00-062	15	252.12	-46.6	00-062	120	252.01	-46.2
00-062	18	252.11	-46.7	00-062	123	252.04	-46.2
00-062	21	252.13	-46.7	00-062	126	252.07	-46.2
00-062	24	252.17	-46.7	00-062	129	252.1	-46.2
00-062	27	252.2	-46.7	00-062	132	252.12	-46.2
00-062	30	252.22	-46.7	00-062	135	252.13	-46.2
00-062	33	252.22	-46.6	00-062	138	252.2	-46.1
00-062	36	252.17	-46.6	00-062	141	252.18	-46.1
00-062	39	252.18	-46.6	00-062	144	252.16	-46.1
00-062	42	252.15	-46.7	00-062	147	252.15	-46.1
00-062	45	252.14	-46.6	00-062	150	252.2	-46.1
00-062	48	252.03	-46.6	00-062	153	252.23	-46.1
00-062	51	251.96	-46.5	00-062	156	252.26	-46.1
00-062	54	251.96	-46.5	00-062	159	252.27	-46.1
00-062	57	251.96	-46.5	00-062	162	252.26	-46.1
00-062	60	251.98	-46.4	00-062	165	252.29	-46.1
00-062	63	252.02	-46.4	00-062	168	252.32	-46.0
00-062	66	252.05	-46.4	00-062	171	252.28	-46.0

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-062	174	252.28	-46.0	00-062	279	253.06	-45.8
00-062	177	252.28	-46.0	00-062	282	253.08	-45.8
00-062	180	252.31	-46.0	00-062	285	253.13	-45.8
00-062	183	252.37	-46.0	00-062	288	253.15	-45.8
00-062	186	252.36	-46.0	00-062	291	253.16	-45.8
00-062	189	252.37	-46	00-062	294	253.16	-45.8
00-062	192	252.42	-46	00-062	297	253.2	-45.8
00-062	195	252.44	-46	00-062	300	253.23	-45.8
00-062	198	252.48	-45.9	00-062	303	253.25	-45.8
00-062	201	252.51	-46	00-062	306	253.27	-45.8
00-062	204	252.53	-45.9	00-062	309	253.28	-45.8
00-062	207	252.57	-45.9	00-062	312	253.3	-45.8
00-062	210	252.58	-45.9	00-062	315	253.31	-45.8
00-062	213	252.61	-45.9	00-062	318	253.31	-45.8
00-062	216	252.64	-45.9	00-062	321	253.34	-45.8
00-062	219	252.63	-45.9	00-062	324	253.32	-45.8
00-062	222	252.64	-45.9	00-062	327	253.35	-45.8
00-062	225	252.67	-45.9	00-062	330	253.36	-45.7
00-062	228	252.69	-45.9	00-062	333	253.39	-45.7
00-062	231	252.68	-45.9	00-062	336	253.43	-45.7
00-062	234	252.71	-45.9	00-062	339	253.44	-45.7
00-062	237	252.7	-45.9	00-062	342	253.45	-45.7
00-062	240	252.77	-45.9	00-062	345	253.46	-45.7
00-062	243	252.82	-45.9	00-062	348	253.49	-45.7
00-062	246	252.78	-45.9	00-062	351	253.51	-45.7
00-062	249	252.81	-45.9	00-062	354	253.55	-45.6
00-062	252	252.9	-45.9	00-062	357	253.58	-45.6
00-062	255	252.88	-45.9	00-062	360	253.62	-45.6
00-062	258	252.91	-45.8	00-062	363	253.66	-45.6
00-062	261	252.95	-45.8	00-062	366	253.7	-45.6
00-062	264	252.99	-45.8	00-062	369	253.73	-45.6
00-062	267	252.98	-45.8	00-062	372	253.75	-45.6
00-062	270	253.01	-45.8	00-062	375	253.77	-45.6
00-062	273	253.06	-45.8	00-062	378	253.77	-45.6
00-062	276	253.05	-45.8	00-062	381	253.77	-45.6

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-062	384	253.82	-45.6	00-062	489	254.44	-45.2
00-062	387	253.84	-45.5	00-062	492	254.46	-45.2
00-062	390	253.89	-45.5	00-062	495	254.45	-45.2
00-062	393	253.92	-45.5	00-062	498	254.49	-45.2
00-062	396	253.93	-45.5	00-062	501	254.53	-45.1
00-062	399	253.94	-45.5	00-062	504	254.53	-45.1
00-062	402	253.97	-45.5	00-062	507	254.6	-45.1
00-062	405	253.98	-45.5	00-062	510	254.65	-45.1
00-062	408	254	-45.5	00-062	516	254.54	-45
00-062	411	254.06	-45.5	00-074	0	250.96	-51.0
00-062	414	254.02	-45.5	00-074	3	250.9	-50.7
00-062	417	254.03	-45.5	00-074	6	250.89	-50.6
00-062	420	254.08	-45.5	00-074	9	250.86	-50.6
00-062	423	254.09	-45.4	00-074	12	250.87	-50.5
00-062	426	254.09	-45.4	00-074	15	250.92	-50.5
00-062	429	254.1	-45.4	00-074	18	250.97	-50.5
00-062	432	254.15	-45.4	00-074	21	250.96	-50.5
00-062	435	254.18	-45.4	00-074	24	251	-50.5
00-062	438	254.18	-45.4	00-074	27	251.01	-50.5
00-062	441	254.21	-45.4	00-074	30	251.03	-50.5
00-062	444	254.26	-45.4	00-074	33	251.04	-50.5
00-062	447	254.28	-45.4	00-074	36	251.05	-50.5
00-062	450	254.27	-45.4	00-074	39	251.11	-50.5
00-062	453	254.29	-45.4	00-074	42	251.12	-50.5
00-062	456	254.32	-45.4	00-074	45	251.14	-50.5
00-062	459	254.35	-45.4	00-074	48	251.18	-50.4
00-062	462	254.35	-45.4	00-074	51	251.21	-50.5
00-062	465	254.35	-45.4	00-074	54	251.23	-50.5
00-062	468	254.33	-45.4	00-074	57	251.25	-50.5
00-062	471	254.34	-45.4	00-074	60	251.29	-50.4
00-062	474	254.37	-45.3	00-074	63	251.35	-50.4
00-062	477	254.39	-45.3	00-074	66	251.36	-50.4
00-062	480	254.4	-45.3	00-074	69	251.37	-50.4
00-062	483	254.42	-45.3	00-074	72	251.41	-50.4
00-062	486	254.41	-45.3	00-074	75	251.44	-50.4

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-074	78	251.47	-50.4	00-074	183	252.27	-49.9
00-074	81	251.51	-50.4	00-074	186	252.32	-49.9
00-074	84	251.53	-50.4	00-074	189	252.29	-49.9
00-074	87	251.51	-50.4	00-074	192	252.3	-49.9
00-074	90	251.55	-50.3	00-074	195	252.37	-49.8
00-074	93	251.59	-50.3	00-074	198	252.39	-49.8
00-074	96	251.6	-50.3	00-074	201	252.4	-49.8
00-074	99	251.64	-50.3	00-074	204	252.47	-49.8
00-074	102	251.67	-50.3	00-074	207	252.51	-49.8
00-074	105	251.68	-50.3	00-074	210	252.52	-49.8
00-074	108	251.71	-50.2	00-074	213	252.58	-49.8
00-074	111	251.69	-50.2	00-074	216	252.57	-49.8
00-074	114	251.71	-50.2	00-074	219	252.59	-49.8
00-074	117	251.78	-50.2	00-074	222	252.61	-49.8
00-074	120	251.78	-50.2	00-074	225	252.63	-49.8
00-074	123	251.81	-50.2	00-074	228	252.63	-49.8
00-074	126	251.84	-50.2	00-074	231	252.67	-49.8
00-074	129	251.89	-50.1	00-074	234	252.72	-49.8
00-074	132	251.95	-50.1	00-074	237	252.72	-49.7
00-074	135	251.94	-50.1	00-074	240	252.75	-49.7
00-074	138	251.97	-50.1	00-074	243	252.79	-49.7
00-074	141	251.99	-50.1	00-074	246	252.8	-49.7
00-074	144	252.01	-50.1	00-074	249	252.85	-49.7
00-074	147	252.08	-50.1	00-074	252	252.89	-49.7
00-074	150	252.08	-50.1	00-074	255	252.9	-49.7
00-074	153	252.08	-50.1	00-074	258	252.95	-49.7
00-074	156	252.1	-50.0	00-074	261	252.95	-49.7
00-074	159	252.13	-50	00-074	264	252.97	-49.7
00-074	162	252.12	-50	00-074	267	252.98	-49.7
00-074	165	252.15	-50	00-074	270	253.03	-49.7
00-074	168	252.18	-50	00-074	273	253.02	-49.7
00-074	171	252.15	-50	00-074	276	253.04	-49.7
00-074	174	252.21	-50	00-074	279	253.09	-49.7
00-074	177	252.25	-49.9	00-074	282	253.09	-49.7
00-074	180	252.24	-49.9	00-074	285	253.11	-49.7

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-074	288	253.12	-49.7	00-074	393	253.72	-49.6
00-074	291	253.13	-49.7	00-074	396	253.7	-49.6
00-074	294	253.17	-49.7	00-074	399	253.73	-49.6
00-074	297	253.17	-49.7	00-074	402	253.74	-49.6
00-074	300	253.16	-49.7	00-074	405	253.75	-49.6
00-074	303	253.17	-49.7	00-074	408	253.74	-49.6
00-074	306	253.18	-49.7	00-074	411	253.76	-49.6
00-074	309	253.22	-49.6	00-074	414	253.77	-49.6
00-074	312	253.23	-49.7	00-074	417	253.74	-49.6
00-074	315	253.29	-49.7	00-074	420	253.73	-49.6
00-074	318	253.32	-49.7	00-074	423	253.77	-49.6
00-074	321	253.3	-49.7	00-074	426	253.77	-49.6
00-074	324	253.32	-49.7	00-074	429	253.79	-49.6
00-074	327	253.32	-49.7	00-074	432	253.81	-49.6
00-074	330	253.36	-49.7	00-074	435	253.85	-49.6
00-074	333	253.36	-49.7	00-074	438	253.85	-49.6
00-074	336	253.37	-49.7	00-074	441	253.89	-49.6
00-074	339	253.38	-49.7	00-074	444	253.89	-49.6
00-074	342	253.4	-49.7	00-074	447	253.94	-49.5
00-074	345	253.39	-49.7	00-074	450	253.96	-49.5
00-074	348	253.41	-49.7	00-074	453	253.95	-49.5
00-074	351	253.45	-49.7	00-074	456	253.97	-49.5
00-074	354	253.47	-49.7	00-074	459	253.98	-49.5
00-074	357	253.49	-49.7	00-074	462	253.99	-49.5
00-074	360	253.51	-49.7	00-074	465	254.02	-49.5
00-074	363	253.52	-49.7	00-074	468	254.03	-49.5
00-074	366	253.54	-49.6	00-074	471	254.06	-49.5
00-074	369	253.57	-49.7	00-074	474	254.05	-49.5
00-074	372	253.58	-49.6	00-074	477	254.05	-49.5
00-074	375	253.58	-49.6	00-074	480	254.11	-49.4
00-074	378	253.57	-49.6	00-074	483	254.12	-49.4
00-074	381	253.62	-49.6	00-074	486	254.13	-49.4
00-074	384	253.63	-49.6	00-074	489	254.15	-49.4
00-074	387	253.66	-49.6	00-074	492	254.15	-49.4
00-074	390	253.68	-49.6	00-074	495	254.19	-49.4

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-074	498	254.19	-49.4	00-074	603	254.91	-49.1
00-074	501	254.19	-49.4	00-074	606	254.9	-49.1
00-074	504	254.21	-49.4	00-074	609	254.91	-49.1
00-074	507	254.2	-49.4	00-074	612	254.92	-49.0
00-074	510	254.19	-49.4	00-074	615	254.93	-49.0
00-074	513	254.18	-49.4	00-074	618	254.94	-49
00-074	516	254.2	-49.3	00-074	621	254.92	-49
00-074	519	254.26	-49.3	00-074	624	254.94	-49
00-074	522	254.24	-49.3	00-074	627	254.97	-49
00-074	525	254.24	-49.3	00-074	630	254.99	-49
00-074	528	254.27	-49.3	00-074	633	254.97	-49
00-074	531	254.29	-49.3	00-074	636	254.99	-49
00-074	534	254.32	-49.3	00-074	639	255.01	-49
00-074	537	254.31	-49.3	00-074	642	255	-48.9
00-074	540	254.34	-49.3	00-074	645	255	-48.9
00-074	543	254.39	-49.3	00-074	648	255.03	-48.9
00-074	546	254.41	-49.3	00-074	651	255.02	-48.9
00-074	549	254.47	-49.3	00-074	654	255.03	-48.9
00-074	552	254.47	-49.3	00-074	657	255.04	-48.9
00-074	555	254.46	-49.3	00-074	660	255.07	-48.9
00-074	558	254.49	-49.3	00-074	663	255.09	-48.9
00-074	561	254.56	-49.3	00-074	666	255.1	-48.9
00-074	564	254.63	-49.2	00-074	669	255.13	-48.9
00-074	567	254.75	-49.2	00-074	672	255.15	-48.9
00-074	570	254.81	-49.2	00-074	675	255.17	-48.9
00-074	573	254.81	-49.2	00-074	678	255.15	-48.9
00-074	576	254.88	-49.2	00-074	681	255.19	-48.9
00-074	579	254.86	-49.2	00-074	684	255.18	-48.9
00-074	582	254.85	-49.1	00-074	687	255.19	-48.9
00-074	585	254.89	-49.1	00-074	690	255.21	-48.8
00-074	588	254.9	-49.1	00-074	693	255.16	-48.8
00-074	591	254.91	-49.1	00-074	696	255.22	-48.8
00-074	594	254.92	-49.1	00-074	699	255.2	-48.8
00-074	597	254.9	-49.1	00-074	702	255.19	-48.8
00-074	600	254.86	-49.1	00-074	705	255.25	-48.8

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-074	708	255.27	-48.8	00-092	81	70.99	-44.7
00-074	711	255.3	-48.8	00-092	84	70.97	-44.7
00-074	714	255.34	-48.7	00-092	87	71	-44.7
00-074	717	255.39	-48.7	00-092	90	71	-44.7
00-074	720	255.42	-48.7	00-092	93	71.01	-44.6
00-074	723	255.49	-48.7	00-092	96	71.04	-44.6
00-074	726	255.49	-48.6	00-092	99	71.06	-44.5
00-074	732	255.49	-48.5	00-092	102	71.06	-44.5
00-092	0	71.04	-44.6	00-092	105	71.08	-44.5
00-092	3	70.8	-44.9	00-092	108	71.15	-44.4
00-092	6	71.01	-45.1	00-092	111	71.14	-44.4
00-092	9	71.15	-45.2	00-092	114	71.13	-44.4
00-092	12	71.09	-45.3	00-092	117	71.17	-44.3
00-092	15	70.97	-45.3	00-092	120	71.18	-44.3
00-092	18	70.85	-45.2	00-092	123	71.18	-44.3
00-092	21	70.86	-45	00-092	126	71.19	-44.2
00-092	24	70.9	-44.8	00-092	129	71.16	-44.2
00-092	27	70.95	-44.8	00-092	132	71.19	-44.2
00-092	30	71.02	-44.8	00-092	135	71.21	-44.1
00-092	33	71.05	-44.8	00-092	138	71.25	-44.1
00-092	36	71.09	-44.9	00-092	141	71.25	-44.1
00-092	39	71.09	-44.9	00-092	144	71.26	-44.0
00-092	42	71.09	-44.9	00-092	147	71.25	-44
00-092	45	71.07	-44.9	00-092	150	71.26	-43.9
00-092	48	71.04	-44.9	00-092	153	71.23	-43.9
00-092	51	71.01	-44.9	00-092	156	71.24	-43.9
00-092	54	71.03	-44.9	00-092	159	71.24	-43.8
00-092	57	71.02	-44.9	00-092	162	71.27	-43.8
00-092	60	71.02	-44.9	00-092	165	71.26	-43.8
00-092	63	71.03	-44.9	00-092	168	71.29	-43.7
00-092	66	71.03	-44.9	00-092	171	71.32	-43.6
00-092	69	71	-44.8	00-092	174	71.33	-43.6
00-092	72	70.99	-44.8	00-092	177	71.35	-43.5
00-092	75	70.96	-44.8	00-092	180	71.39	-43.5
00-092	78	70.96	-44.8	00-092	183	71.41	-43.4



<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-092	186	71.53	-43.3	00-092	291	72.83	-42.4
00-092	189	71.62	-43.3	00-092	294	72.85	-42.4
00-092	192	71.64	-43.2	00-092	297	72.88	-42.4
00-092	195	71.68	-43.2	00-092	300	72.94	-42.4
00-092	198	71.73	-43.1	00-092	303	72.94	-42.4
00-092	201	71.76	-43.1	00-092	306	72.96	-42.3
00-092	204	71.86	-43.1	00-092	309	72.98	-42.3
00-092	207	71.97	-43.1	00-092	312	73.02	-42.3
00-092	210	72.02	-43.1	00-092	315	73.06	-42.3
00-092	213	72	-43	00-092	318	73.1	-42.3
00-092	216	72.01	-42.9	00-092	321	73.15	-42.2
00-092	219	72.07	-42.9	00-092	324	73.18	-42.2
00-092	222	72.07	-42.9	00-092	327	73.21	-42.2
00-092	225	72.12	-42.9	00-092	330	73.24	-42.2
00-092	228	72.17	-42.9	00-092	333	73.24	-42.2
00-092	231	72.18	-42.8	00-092	336	73.25	-42.2
00-092	234	72.21	-42.8	00-092	339	73.31	-42.1
00-092	237	72.23	-42.8	00-092	342	73.32	-42.1
00-092	240	72.21	-42.8	00-092	345	73.35	-42.1
00-092	243	72.33	-42.8	00-092	348	73.39	-42.1
00-092	246	72.36	-42.7	00-092	351	73.42	-42.1
00-092	249	72.35	-42.7	00-092	354	73.44	-42.1
00-092	252	72.44	-42.7	00-092	357	73.49	-42.1
00-092	255	72.46	-42.7	00-092	360	73.52	-42.0
00-092	258	72.51	-42.7	00-092	363	73.55	-42.0
00-092	261	72.55	-42.7	00-092	366	73.63	-42.0
00-092	264	72.57	-42.6	00-092	369	73.64	-42
00-092	267	72.57	-42.6	00-092	372	73.68	-42
00-092	270	72.62	-42.6	00-092	375	73.72	-42
00-092	273	72.67	-42.6	00-092	378	73.79	-41.9
00-092	276	72.7	-42.6	00-092	381	73.82	-41.9
00-092	279	72.73	-42.5	00-092	384	73.87	-41.9
00-092	282	72.77	-42.5	00-092	387	73.89	-41.9
00-092	285	72.78	-42.5	00-092	390	73.9	-41.9
00-092	288	72.79	-42.5	00-092	393	73.96	-41.9

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-092	396	73.99	-41.8	00-093	48	73.78	-43.7
00-092	399	74.01	-41.8	00-093	51	73.82	-43.7
00-092	402	74.03	-41.8	00-093	54	73.78	-43.7
00-092	405	74.04	-41.8	00-093	57	73.82	-43.6
00-092	408	74.1	-41.8	00-093	60	73.91	-43.6
00-092	411	74.16	-41.8	00-093	63	74.03	-43.6
00-092	414	74.19	-41.7	00-093	66	74.16	-43.6
00-092	417	74.24	-41.7	00-093	69	74.21	-43.6
00-092	420	74.28	-41.7	00-093	72	74.24	-43.6
00-092	423	74.32	-41.7	00-093	75	74.27	-43.6
00-092	426	74.39	-41.7	00-093	78	74.32	-43.5
00-092	429	74.43	-41.6	00-093	81	74.37	-43.5
00-092	432	74.48	-41.6	00-093	84	74.4	-43.4
00-092	435	74.48	-41.6	00-093	87	74.47	-43.4
00-092	438	74.5	-41.6	00-093	90	74.48	-43.4
00-092	441	74.52	-41.6	00-093	93	74.52	-43.4
00-092	444	74.56	-41.6	00-093	96	74.55	-43.3
00-092	447	74.56	-41.6	00-093	99	74.57	-43.3
00-092	453	74.58	-41.5	00-093	102	74.58	-43.3
00-093	0	71.2	-43.9	00-093	105	74.64	-43.2
00-093	3	71.44	-43.8	00-093	108	74.7	-43.2
00-093	6	72	-43.7	00-093	111	74.72	-43.1
00-093	9	72.55	-43.7	00-093	114	74.75	-43.1
00-093	12	72.82	-43.8	00-093	117	74.8	-43
00-093	15	73.13	-43.8	00-093	120	74.86	-42.9
00-093	18	73.31	-43.8	00-093	123	74.85	-42.9
00-093	21	73.4	-43.8	00-093	126	74.92	-42.8
00-093	24	73.46	-43.8	00-093	129	74.95	-42.8
00-093	27	73.49	-43.8	00-093	132	74.98	-42.7
00-093	30	73.52	-43.8	00-093	135	74.97	-42.7
00-093	33	73.55	-43.8	00-093	138	74.97	-42.7
00-093	36	73.58	-43.8	00-093	141	74.99	-42.6
00-093	39	73.63	-43.8	00-093	144	75.03	-42.6
00-093	42	73.68	-43.7	00-093	147	75.04	-42.6
00-093	45	73.72	-43.7	00-093	150	75.05	-42.6

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-093	153	75.08	-42.6	00-093	258	76	-42
00-093	156	75.12	-42.5	00-093	261	76.05	-42
00-093	159	75.16	-42.5	00-093	264	76.07	-42
00-093	162	75.18	-42.5	00-093	267	76.15	-41.9
00-093	165	75.21	-42.5	00-093	270	76.18	-41.9
00-093	168	75.23	-42.4	00-093	273	76.23	-41.9
00-093	171	75.24	-42.4	00-093	276	76.28	-41.8
00-093	174	75.3	-42.4	00-093	279	76.29	-41.8
00-093	177	75.35	-42.4	00-093	282	76.36	-41.8
00-093	180	75.42	-42.4	00-093	285	76.39	-41.8
00-093	183	75.51	-42.4	00-093	288	76.45	-41.8
00-093	186	75.6	-42.3	00-093	291	76.46	-41.7
00-093	189	75.64	-42.3	00-093	294	76.53	-41.7
00-093	192	75.73	-42.3	00-093	297	76.61	-41.7
00-093	195	75.77	-42.4	00-093	300	76.67	-41.6
00-093	198	75.78	-42.3	00-093	303	76.73	-41.6
00-093	201	75.8	-42.3	00-093	306	76.77	-41.6
00-093	204	75.81	-42.3	00-093	309	76.81	-41.6
00-093	207	75.83	-42.3	00-093	312	76.87	-41.6
00-093	210	75.82	-42.4	00-093	315	76.9	-41.5
00-093	213	75.76	-42.3	00-093	318	76.94	-41.5
00-093	216	75.65	-42.3	00-093	321	76.97	-41.5
00-093	219	75.56	-42.2	00-093	324	77.06	-41.5
00-093	222	75.57	-42.2	00-093	327	77.12	-41.5
00-093	225	75.6	-42.2	00-093	330	77.12	-41.5
00-093	228	75.64	-42.2	00-093	333	77.15	-41.4
00-093	231	75.71	-42.1	00-093	336	77.14	-41.4
00-093	234	75.73	-42.1	00-093	339	77.18	-41.3
00-093	237	75.77	-42.1	00-093	342	77.25	-41.3
00-093	240	75.78	-42.1	00-093	345	77.29	-41.2
00-093	243	75.81	-42.1	00-093	348	77.36	-41.2
00-093	246	75.86	-42.1	00-093	351	77.39	-41.2
00-093	249	75.88	-42.1	00-093	354	77.41	-41.1
00-093	252	75.94	-42.0	00-093	357	77.5	-41.1
00-093	255	75.97	-42	00-093	360	77.53	-41.1

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-093	363	77.58	-41.1	00-101	66	72.13	-46.5
00-093	366	77.61	-41.0	00-101	69	72.16	-46.5
00-093	369	77.66	-41.0	00-101	72	72.19	-46.5
00-093	372	77.68	-41	00-101	75	72.27	-46.4
00-093	375	77.75	-41	00-101	78	72.39	-46.3
00-093	378	77.76	-41	00-101	81	72.53	-46.2
00-093	381	77.78	-41	00-101	84	72.67	-46.1
00-093	384	77.78	-41	00-101	87	72.65	-46.1
00-093	387	77.82	-40.9	00-101	90	72.49	-46.1
00-093	390	77.81	-40.9	00-101	93	72.34	-46.1
00-093	393	77.83	-40.8	00-101	96	72.34	-46
00-093	396	77.75	-40.7	00-101	99	72.38	-45.9
00-093	402	77.8	-40.6	00-101	102	72.42	-45.9
00-101	0	70.42	-46.1	00-101	105	72.44	-45.9
00-101	3	70.03	-46.4	00-101	108	72.49	-45.9
00-101	6	70.06	-46.4	00-101	111	72.52	-45.9
00-101	9	70.23	-46.6	00-101	114	72.56	-45.8
00-101	12	70.47	-46.7	00-101	117	72.59	-45.8
00-101	15	70.59	-46.7	00-101	120	72.6	-45.8
00-101	18	70.54	-46.8	00-101	123	72.65	-45.8
00-101	21	70.53	-46.7	00-101	126	72.67	-45.7
00-101	24	70.65	-46.7	00-101	129	72.69	-45.7
00-101	27	70.75	-46.7	00-101	132	72.74	-45.7
00-101	30	70.87	-46.6	00-101	135	72.78	-45.7
00-101	33	70.99	-46.5	00-101	138	72.86	-45.7
00-101	36	71.1	-46.5	00-101	141	72.92	-45.6
00-101	39	71.16	-46.6	00-101	144	72.97	-45.6
00-101	42	71.24	-46.5	00-101	147	73.01	-45.6
00-101	45	71.27	-46.5	00-101	150	73.06	-45.6
00-101	48	71.33	-46.5	00-101	153	73.11	-45.6
00-101	51	71.37	-46.5	00-101	156	73.17	-45.6
00-101	54	71.44	-46.5	00-101	159	73.24	-45.6
00-101	57	71.66	-46.5	00-101	162	73.25	-45.6
00-101	60	71.98	-46.6	00-101	165	73.3	-45.6
00-101	63	72.09	-46.6	00-101	168	73.37	-45.6

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-101	171	73.41	-45.6	00-101	276	75.03	-45.3
00-101	174	73.46	-45.6	00-101	279	75.09	-45.3
00-101	177	73.5	-45.6	00-101	282	75.13	-45.3
00-101	180	73.5	-45.6	00-101	285	75.18	-45.3
00-101	183	73.5	-45.6	00-101	288	75.24	-45.3
00-101	186	73.55	-45.6	00-101	291	75.28	-45.3
00-101	189	73.57	-45.6	00-101	294	75.32	-45.3
00-101	192	73.58	-45.5	00-101	297	75.37	-45.3
00-101	195	73.63	-45.5	00-101	300	75.43	-45.3
00-101	198	73.65	-45.5	00-101	303	75.48	-45.3
00-101	201	73.68	-45.5	00-101	306	75.52	-45.3
00-101	204	73.74	-45.5	00-101	309	75.58	-45.3
00-101	207	73.79	-45.5	00-101	312	75.63	-45.3
00-101	210	73.85	-45.5	00-101	315	75.68	-45.3
00-101	213	73.9	-45.4	00-101	318	75.74	-45.3
00-101	216	73.94	-45.4	00-101	321	75.79	-45.3
00-101	219	73.97	-45.4	00-101	324	75.85	-45.3
00-101	222	73.99	-45.4	00-101	327	75.9	-45.3
00-101	225	74.03	-45.4	00-101	330	75.97	-45.3
00-101	228	74.1	-45.4	00-101	333	76.02	-45.3
00-101	231	74.17	-45.4	00-101	336	76.07	-45.3
00-101	234	74.24	-45.4	00-101	339	76.12	-45.3
00-101	237	74.34	-45.4	00-101	342	76.17	-45.3
00-101	240	74.45	-45.4	00-101	345	76.25	-45.3
00-101	243	74.54	-45.4	00-101	348	76.31	-45.3
00-101	246	74.58	-45.4	00-101	351	76.37	-45.3
00-101	249	74.61	-45.4	00-101	354	76.44	-45.3
00-101	252	74.65	-45.4	00-101	357	76.47	-45.3
00-101	255	74.69	-45.4	00-101	360	76.53	-45.2
00-101	258	74.75	-45.4	00-101	363	76.6	-45.2
00-101	261	74.79	-45.4	00-101	366	76.68	-45.2
00-101	264	74.82	-45.4	00-101	369	76.72	-45.2
00-101	267	74.88	-45.4	00-101	372	76.74	-45.2
00-101	270	74.93	-45.3	00-101	375	76.78	-45.2
00-101	273	74.99	-45.3	00-101	378	76.84	-45.2

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-101	381	76.93	-45.1	00-130	42	71.19	-49.1
00-101	384	76.99	-45.1	00-130	45	71.25	-49.1
00-101	387	77.05	-45.1	00-130	48	71.32	-49.2
00-101	390	77.1	-45.1	00-130	51	71.37	-49.2
00-101	393	77.14	-45.1	00-130	54	71.35	-49.3
00-101	396	77.17	-45.1	00-130	57	71.39	-49.3
00-101	399	77.23	-45.1	00-130	60	71.37	-49.3
00-101	402	77.29	-45.0	00-130	63	71.37	-49.3
00-101	405	77.32	-45.1	00-130	66	71.35	-49.3
00-101	408	77.37	-45.1	00-130	69	71.35	-49.4
00-101	411	77.42	-45.1	00-130	72	71.35	-49.4
00-101	414	77.47	-45.1	00-130	75	71.41	-49.4
00-101	417	77.55	-45.1	00-130	78	71.39	-49.4
00-101	420	77.64	-45.1	00-130	81	71.42	-49.4
00-101	423	77.72	-45.1	00-130	84	71.49	-49.4
00-101	426	77.79	-45.1	00-130	87	71.52	-49.5
00-101	429	77.87	-45.1	00-130	90	71.55	-49.5
00-101	432	77.93	-45.1	00-130	93	71.61	-49.5
00-101	435	78.02	-45.1	00-130	96	71.61	-49.5
00-101	438	78.09	-45.1	00-130	99	71.62	-49.5
00-101	444	78.25	-45.1	00-130	102	71.63	-49.5
00-130	0	70.89	-49.8	00-130	105	71.63	-49.5
00-130	3	70.92	-50	00-130	108	71.65	-49.5
00-130	6	70.87	-50.1	00-130	111	71.67	-49.6
00-130	9	70.79	-50.1	00-130	114	71.71	-49.6
00-130	12	70.86	-50.0	00-130	117	71.72	-49.6
00-130	15	71.01	-49.9	00-130	120	71.69	-49.6
00-130	18	71.04	-49.8	00-130	123	71.67	-49.6
00-130	21	70.91	-49.6	00-130	126	71.64	-49.6
00-130	24	71.02	-49.3	00-130	129	71.66	-49.6
00-130	27	71.25	-49	00-130	132	71.62	-49.6
00-130	30	71.49	-48.9	00-130	135	71.63	-49.6
00-130	33	71.56	-48.9	00-130	138	71.66	-49.7
00-130	36	71.4	-48.9	00-130	141	71.66	-49.7
00-130	39	71.25	-49.0	00-130	144	71.68	-49.8

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-130	147	71.71	-49.8	00-130	252	71.87	-50.3
00-130	150	71.77	-49.8	00-130	255	71.82	-50.3
00-130	153	71.8	-49.9	00-130	258	71.72	-50.4
00-130	156	71.74	-50	00-130	261	71.65	-50.4
00-130	159	71.71	-50.0	00-130	264	71.56	-50.4
00-130	162	71.69	-50.0	00-130	267	71.47	-50.5
00-130	165	71.73	-50.0	00-130	270	71.46	-50.5
00-130	168	71.75	-50.1	00-130	273	71.49	-50.6
00-130	171	71.77	-50.1	00-130	276	71.55	-50.6
00-130	174	71.82	-50.1	00-130	279	71.48	-50.6
00-130	177	71.86	-50.1	00-130	282	71.45	-50.7
00-130	180	71.87	-50.2	00-130	285	71.43	-50.9
00-130	183	71.89	-50.2	00-130	288	71.39	-50.9
00-130	186	71.9	-50.2	00-130	291	71.4	-51
00-130	189	71.94	-50.2	00-130	294	71.34	-51
00-130	192	71.97	-50.2	00-130	297	71.32	-51.0
00-130	195	71.98	-50.2	00-130	300	71.27	-51.1
00-130	198	72.01	-50.2	00-130	303	71.24	-51.1
00-130	201	72	-50.2	00-130	306	71.15	-51.2
00-130	204	72.02	-50.1	00-130	309	71.1	-51.2
00-130	207	71.97	-50.1	00-130	312	71.06	-51.2
00-130	210	71.94	-50.1	00-130	315	71.01	-51.2
00-130	213	71.93	-50.1	00-130	318	71	-51.2
00-130	216	72.01	-50.1	00-130	321	70.98	-51.2
00-130	219	72.06	-50.1	00-130	324	70.97	-51.2
00-130	222	72.05	-50.1	00-130	327	70.91	-51.2
00-130	225	72.11	-50.1	00-130	330	70.93	-51.3
00-130	228	72.11	-50.1	00-130	333	70.92	-51.2
00-130	231	72.09	-50.1	00-130	336	70.89	-51.3
00-130	234	72.13	-50.2	00-130	339	70.85	-51.3
00-130	237	72.13	-50.2	00-130	342	70.97	-51.3
00-130	240	72.13	-50.2	00-130	345	70.96	-51.3
00-130	243	72.12	-50.2	00-130	348	70.99	-51.3
00-130	246	72.06	-50.3	00-130	351	70.95	-51.3
00-130	249	71.98	-50.3	00-130	354	70.92	-51.3

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-130	357	70.9	-51.3	00-130	462	70.55	-51.9
00-130	360	70.85	-51.3	00-130	465	70.5	-51.9
00-130	363	70.82	-51.3	00-130	468	70.5	-51.9
00-130	366	70.85	-51.4	00-130	471	70.46	-51.9
00-130	369	70.88	-51.5	00-130	474	70.46	-51.9
00-130	372	70.93	-51.5	00-130	477	70.46	-51.9
00-130	375	70.94	-51.5	00-130	480	70.45	-51.9
00-130	378	70.93	-51.5	00-130	483	70.45	-51.9
00-130	381	70.92	-51.6	00-130	486	70.44	-51.9
00-130	384	70.88	-51.6	00-130	489	70.45	-51.9
00-130	387	70.86	-51.6	00-130	492	70.38	-51.9
00-130	390	70.82	-51.6	00-130	495	70.36	-52
00-130	393	70.79	-51.7	00-130	498	70.39	-52.0
00-130	396	70.74	-51.7	00-130	501	70.37	-52.1
00-130	399	70.7	-51.7	00-130	504	70.35	-52.1
00-130	402	70.67	-51.7	00-130	507	70.37	-52.1
00-130	405	70.64	-51.7	00-130	510	70.45	-52.2
00-130	408	70.59	-51.7	00-130	513	70.49	-52.2
00-130	411	70.58	-51.7	00-130	516	70.53	-52.2
00-130	414	70.59	-51.6	00-130	519	70.54	-52.2
00-130	417	70.67	-51.6	00-130	522	70.55	-52.2
00-130	420	70.69	-51.7	00-130	525	70.54	-52.2
00-130	423	70.65	-51.7	00-130	528	70.59	-52.2
00-130	426	70.71	-51.7	00-130	531	70.69	-52.1
00-130	429	70.74	-51.7	00-130	534	70.72	-52.1
00-130	432	70.7	-51.7	00-130	537	70.75	-52.0
00-130	435	70.69	-51.8	00-130	540	70.74	-52.0
00-130	438	70.72	-51.8	00-130	543	70.76	-52.1
00-130	441	70.71	-51.8	00-130	546	70.79	-52.1
00-130	444	70.74	-51.8	00-130	549	70.8	-52.1
00-130	447	70.7	-51.8	00-130	552	70.82	-52.1
00-130	450	70.66	-51.8	00-130	555	70.86	-52.1
00-130	453	70.58	-51.8	00-130	558	70.89	-52.1
00-130	456	70.52	-51.8	00-130	561	70.91	-52.1
00-130	459	70.54	-51.8	00-130	564	70.88	-52.0



<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-130	567	70.91	-52.0	00-130	672	71	-52.3
00-130	570	70.92	-52.0	00-130	675	70.95	-52.3
00-130	573	70.92	-52.0	00-130	678	70.94	-52.3
00-130	576	70.92	-52	00-130	681	70.97	-52.4
00-130	579	70.96	-52	00-130	684	70.95	-52.4
00-130	582	70.96	-52	00-130	687	70.96	-52.4
00-130	585	70.98	-52	00-130	690	70.94	-52.4
00-130	588	70.92	-52	00-130	693	70.93	-52.4
00-130	591	70.91	-52	00-130	696	70.87	-52.4
00-130	594	70.9	-52	00-130	699	70.76	-52.4
00-130	597	70.88	-52	00-130	702	70.63	-52.4
00-130	600	70.92	-52	00-130	705	70.57	-52.3
00-130	603	70.94	-52.0	00-130	708	70.45	-52.4
00-130	606	70.92	-52.0	00-130	711	70.36	-52.4
00-130	609	70.95	-52.0	00-130	714	70.33	-52.4
00-130	612	70.95	-52.0	00-130	717	70.32	-52.4
00-130	615	70.95	-52.0	00-130	720	70.35	-52.4
00-130	618	70.98	-52.0	00-130	723	70.34	-52.4
00-130	621	70.97	-52.1	00-130	726	70.35	-52.4
00-130	624	70.94	-52.1	00-130	729	70.32	-52.4
00-130	627	70.95	-52.1	00-130	732	70.3	-52.4
00-130	630	70.9	-52.1	00-130	735	70.32	-52.3
00-130	633	70.93	-52.1	00-130	738	70.31	-52.3
00-130	636	70.97	-52.0	00-130	741	70.27	-52.3
00-130	639	70.97	-52.0	00-130	744	70.26	-52.3
00-130	642	70.89	-52.1	00-130	747	70.28	-52.2
00-130	645	70.86	-52.1	00-130	750	70.26	-52.2
00-130	648	70.81	-52.1	00-130	753	70.25	-52.2
00-130	651	70.8	-52.1	00-130	756	70.23	-52.2
00-130	654	70.83	-52.2	00-130	759	70.19	-52.1
00-130	657	70.86	-52.2	00-130	762	70.15	-52.1
00-130	660	70.9	-52.2	00-130	765	70.12	-52.1
00-130	663	70.91	-52.2	00-130	768	70.16	-52.0
00-130	666	70.92	-52.2	00-130	771	70.12	-52
00-130	669	70.94	-52.3	00-130	774	70.05	-52

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-130	777	70.01	-51.9	00-133	75	252	-50.1
00-130	780	69.97	-51.9	00-133	78	252.07	-50.0
00-130	783	69.93	-51.9	00-133	81	252.1	-50.0
00-130	786	69.93	-51.9	00-133	84	252.12	-50.0
00-130	789	69.89	-51.8	00-133	87	252.21	-50.0
00-130	792	69.85	-51.7	00-133	90	252.29	-50.0
00-130	795	69.76	-51.7	00-133	93	252.4	-50.0
00-130	798	69.79	-51.7	00-133	96	252.45	-50.0
00-130	801	69.8	-51.6	00-133	99	252.52	-50
00-130	807	69.71	-51.5	00-133	102	252.6	-50
00-133	0	250.91	-50.1	00-133	105	252.67	-50
00-133	3	250.92	-50.1	00-133	108	252.72	-50
00-133	6	250.94	-50	00-133	111	252.84	-50.0
00-133	9	250.94	-50	00-133	114	252.94	-50.0
00-133	12	250.97	-50	00-133	117	253.06	-50
00-133	15	251.01	-50	00-133	120	253.11	-50
00-133	18	251	-50	00-133	123	253.23	-50
00-133	21	251.08	-50.0	00-133	126	253.34	-49.9
00-133	24	251.05	-50.0	00-133	129	253.41	-49.9
00-133	27	251.1	-50.0	00-133	132	253.55	-49.9
00-133	30	251.1	-50	00-133	135	253.67	-49.9
00-133	33	251.11	-50	00-133	138	253.76	-49.9
00-133	36	251.16	-49.9	00-133	141	253.87	-49.8
00-133	39	251.15	-49.9	00-133	144	254.06	-49.8
00-133	42	251.19	-49.9	00-133	147	254.08	-49.8
00-133	45	251.22	-49.9	00-133	150	254.2	-49.8
00-133	48	251.3	-49.9	00-133	153	254.27	-49.8
00-133	51	251.36	-49.9	00-133	156	254.34	-49.7
00-133	54	251.43	-50	00-133	159	254.39	-49.7
00-133	57	251.52	-50	00-133	162	254.45	-49.7
00-133	60	251.63	-49.9	00-133	165	254.54	-49.7
00-133	63	251.7	-50	00-133	168	254.62	-49.7
00-133	66	251.77	-50	00-133	171	254.71	-49.7
00-133	69	251.92	-50.1	00-133	174	254.77	-49.7
00-133	72	251.93	-50.1	00-133	177	254.83	-49.6

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-133	180	254.9	-49.6	00-133	285	258.23	-49.4
00-133	183	255.02	-49.6	00-133	288	258.33	-49.4
00-133	186	255.05	-49.6	00-133	291	258.4	-49.4
00-133	189	255.14	-49.6	00-133	294	258.49	-49.4
00-133	192	255.19	-49.6	00-133	297	258.54	-49.4
00-133	195	255.3	-49.6	00-133	300	258.64	-49.4
00-133	198	255.37	-49.6	00-133	303	258.68	-49.5
00-133	201	255.46	-49.5	00-133	306	258.75	-49.5
00-133	204	255.54	-49.5	00-133	309	258.81	-49.5
00-133	207	255.64	-49.5	00-133	312	258.86	-49.5
00-133	210	255.73	-49.5	00-133	315	258.96	-49.5
00-133	213	255.84	-49.5	00-133	318	258.99	-49.5
00-133	216	255.92	-49.5	00-133	321	259.08	-49.5
00-133	219	255.99	-49.5	00-133	324	259.15	-49.5
00-133	222	256.06	-49.5	00-133	327	259.21	-49.6
00-133	225	256.19	-49.5	00-133	330	259.31	-49.6
00-133	228	256.26	-49.5	00-133	333	259.42	-49.6
00-133	231	256.36	-49.4	00-133	336	259.48	-49.6
00-133	234	256.45	-49.4	00-133	339	259.47	-49.6
00-133	237	256.54	-49.5	00-133	342	259.56	-49.7
00-133	240	256.63	-49.5	00-133	345	259.64	-49.7
00-133	243	256.69	-49.5	00-133	348	259.7	-49.7
00-133	246	256.74	-49.5	00-133	351	259.75	-49.7
00-133	249	256.84	-49.5	00-133	354	259.81	-49.7
00-133	252	256.96	-49.5	00-133	357	259.88	-49.6
00-133	255	257.07	-49.5	00-133	360	259.95	-49.7
00-133	258	257.19	-49.4	00-133	363	260.06	-49.7
00-133	261	257.26	-49.4	00-133	366	260.17	-49.7
00-133	264	257.33	-49.4	00-133	369	260.2	-49.7
00-133	267	257.44	-49.4	00-133	372	260.25	-49.6
00-133	270	257.56	-49.4	00-133	375	260.32	-49.6
00-133	273	257.7	-49.4	00-133	378	260.4	-49.6
00-133	276	257.78	-49.4	00-133	381	260.47	-49.6
00-133	279	257.91	-49.4	00-133	384	260.49	-49.6
00-133	282	258.1	-49.4	00-133	387	260.55	-49.6

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-133	390	260.6	-49.6	00-134	12	250.5	-49.8
00-133	393	260.61	-49.6	00-134	15	250.54	-49.8
00-133	396	260.64	-49.5	00-134	18	250.58	-49.8
00-133	399	260.69	-49.5	00-134	21	250.6	-49.8
00-133	402	260.77	-49.5	00-134	24	250.63	-49.8
00-133	405	260.85	-49.5	00-134	27	250.68	-49.9
00-133	408	260.92	-49.5	00-134	30	250.69	-49.9
00-133	411	261	-49.4	00-134	33	250.79	-49.9
00-133	414	261.03	-49.4	00-134	36	250.83	-49.9
00-133	417	261.15	-49.4	00-134	39	250.88	-49.9
00-133	420	261.28	-49.4	00-134	42	250.89	-49.9
00-133	423	261.37	-49.4	00-134	45	250.97	-49.9
00-133	426	261.46	-49.4	00-134	48	251	-49.9
00-133	429	261.57	-49.4	00-134	51	251.09	-49.9
00-133	432	261.68	-49.4	00-134	54	251.15	-49.9
00-133	435	261.73	-49.4	00-134	57	251.18	-49.9
00-133	438	261.73	-49.4	00-134	60	251.25	-49.9
00-133	441	261.76	-49.3	00-134	63	251.34	-49.9
00-133	444	261.79	-49.3	00-134	66	251.43	-49.9
00-133	447	261.88	-49.3	00-134	69	251.53	-49.9
00-133	450	261.95	-49.3	00-134	72	251.56	-49.9
00-133	453	262.05	-49.3	00-134	75	251.63	-49.9
00-133	456	262.13	-49.3	00-134	78	251.7	-49.9
00-133	459	262.17	-49.3	00-134	81	251.76	-49.9
00-133	462	262.2	-49.3	00-134	84	251.79	-49.9
00-133	465	262.26	-49.3	00-134	87	251.86	-49.9
00-133	468	262.36	-49.3	00-134	90	251.94	-49.9
00-133	471	262.37	-49.3	00-134	93	251.96	-49.9
00-133	474	262.43	-49.3	00-134	96	252.04	-49.9
00-133	477	262.48	-49.3	00-134	99	252.04	-49.9
00-133	483	262.57	-49.2	00-134	102	252.15	-49.9
00-134	0	250.55	-50	00-134	105	252.19	-49.9
00-134	3	250.37	-49.8	00-134	108	252.24	-49.9
00-134	6	250.37	-49.7	00-134	111	252.3	-49.9
00-134	9	250.44	-49.7	00-134	114	252.31	-49.9

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-134	117	252.37	-49.9	00-134	222	254.57	-49.5
00-134	120	252.43	-49.9	00-134	225	254.65	-49.5
00-134	123	252.48	-49.9	00-134	228	254.72	-49.5
00-134	126	252.51	-49.9	00-134	231	254.84	-49.4
00-134	129	252.56	-49.9	00-134	234	254.96	-49.4
00-134	132	252.61	-49.9	00-134	237	255.03	-49.4
00-134	135	252.66	-49.9	00-134	240	255.14	-49.3
00-134	138	252.7	-49.8	00-134	243	255.25	-49.3
00-134	141	252.77	-49.8	00-134	246	255.34	-49.3
00-134	144	252.82	-49.8	00-134	249	255.43	-49.3
00-134	147	252.87	-49.8	00-134	252	255.55	-49.3
00-134	150	252.93	-49.8	00-134	255	255.59	-49.3
00-134	153	252.98	-49.8	00-134	258	255.64	-49.3
00-134	156	253.01	-49.8	00-134	261	255.69	-49.3
00-134	159	253.05	-49.8	00-134	264	255.71	-49.4
00-134	162	253.11	-49.8	00-134	267	255.78	-49.4
00-134	165	253.17	-49.8	00-134	270	255.86	-49.4
00-134	168	253.27	-49.8	00-134	273	255.9	-49.4
00-134	171	253.31	-49.8	00-134	276	256	-49.4
00-134	174	253.44	-49.8	00-134	279	256.09	-49.4
00-134	177	253.49	-49.8	00-134	282	256.14	-49.4
00-134	180	253.53	-49.8	00-134	285	256.24	-49.4
00-134	183	253.62	-49.8	00-134	288	256.26	-49.4
00-134	186	253.71	-49.8	00-134	291	256.38	-49.3
00-134	189	253.77	-49.7	00-134	294	256.48	-49.3
00-134	192	253.82	-49.7	00-134	297	256.55	-49.3
00-134	195	253.93	-49.7	00-134	300	256.66	-49.3
00-134	198	253.99	-49.7	00-134	303	256.71	-49.3
00-134	201	254.04	-49.7	00-134	306	256.84	-49.3
00-134	204	254.15	-49.7	00-134	309	256.91	-49.3
00-134	207	254.2	-49.7	00-134	312	256.95	-49.3
00-134	210	254.28	-49.7	00-134	315	257.05	-49.3
00-134	213	254.33	-49.6	00-134	318	257.12	-49.3
00-134	216	254.44	-49.6	00-134	321	257.2	-49.3
00-134	219	254.49	-49.6	00-134	324	257.26	-49.3

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-134	327	257.31	-49.3	00-134	432	259.64	-49.5
00-134	330	257.38	-49.3	00-134	435	259.69	-49.6
00-134	333	257.43	-49.3	00-134	438	259.76	-49.5
00-134	336	257.52	-49.3	00-134	441	259.83	-49.5
00-134	339	257.6	-49.3	00-134	444	259.9	-49.5
00-134	342	257.68	-49.3	00-134	447	259.99	-49.5
00-134	345	257.74	-49.3	00-134	450	260.05	-49.6
00-134	348	257.78	-49.3	00-134	453	260.14	-49.6
00-134	351	257.84	-49.4	00-134	456	260.24	-49.6
00-134	354	257.9	-49.5	00-134	459	260.28	-49.6
00-134	357	257.97	-49.5	00-134	462	260.35	-49.6
00-134	360	258.06	-49.5	00-134	465	260.38	-49.6
00-134	363	258.14	-49.5	00-134	468	260.41	-49.6
00-134	366	258.23	-49.6	00-134	471	260.46	-49.5
00-134	369	258.32	-49.6	00-134	474	260.54	-49.5
00-134	372	258.43	-49.6	00-134	477	260.58	-49.5
00-134	375	258.49	-49.6	00-134	480	260.61	-49.5
00-134	378	258.56	-49.6	00-134	483	260.66	-49.5
00-134	381	258.62	-49.6	00-134	486	260.69	-49.5
00-134	384	258.66	-49.6	00-134	489	260.75	-49.5
00-134	387	258.73	-49.6	00-134	492	260.8	-49.5
00-134	390	258.81	-49.7	00-134	495	260.89	-49.5
00-134	393	258.93	-49.7	00-134	498	260.96	-49.5
00-134	396	259.07	-49.7	00-134	501	261.01	-49.5
00-134	399	259.19	-49.7	00-134	504	261.1	-49.5
00-134	402	259.29	-49.7	00-134	507	261.14	-49.5
00-134	405	259.37	-49.7	00-134	510	261.19	-49.5
00-134	408	259.4	-49.6	00-134	513	261.27	-49.5
00-134	411	259.45	-49.6	00-134	516	261.35	-49.5
00-134	414	259.47	-49.6	00-134	519	261.41	-49.5
00-134	417	259.45	-49.5	00-134	522	261.5	-49.5
00-134	420	259.42	-49.5	00-134	525	261.56	-49.5
00-134	423	259.45	-49.5	00-134	528	261.63	-49.5
00-134	426	259.51	-49.5	00-134	531	261.71	-49.5
00-134	429	259.6	-49.5	00-134	534	261.76	-49.5

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-134	537	261.83	-49.5	00-196	75	72.28	-44.7
00-134	540	261.9	-49.5	00-196	78	72.35	-44.8
00-134	543	261.97	-49.5	00-196	81	72.43	-44.8
00-134	546	262.01	-49.5	00-196	84	72.5	-44.8
00-134	549	262.03	-49.5	00-196	87	72.56	-44.8
00-134	552	262.13	-49.5	00-196	90	72.67	-44.8
00-134	555	262.17	-49.5	00-196	93	72.74	-44.8
00-134	558	262.22	-49.5	00-196	96	72.81	-44.9
00-134	561	262.28	-49.5	00-196	99	72.92	-44.9
00-134	567	262.39	-49.5	00-196	102	72.98	-44.9
00-196	0	70.85	-44.7	00-196	105	73.09	-44.9
00-196	3	71	-44.6	00-196	108	73.19	-44.9
00-196	6	70.96	-44.7	00-196	111	73.22	-44.9
00-196	9	70.7	-44.8	00-196	114	73.31	-44.9
00-196	12	70.29	-44.7	00-196	117	73.36	-44.9
00-196	15	69.93	-44.5	00-196	120	73.44	-44.9
00-196	18	70.04	-44.4	00-196	123	73.56	-44.9
00-196	21	70.55	-44.5	00-196	126	73.61	-44.9
00-196	24	70.75	-44.5	00-196	129	73.71	-44.9
00-196	27	70.89	-44.4	00-196	132	73.79	-44.9
00-196	30	71.03	-44.4	00-196	135	73.85	-45
00-196	33	71.21	-44.4	00-196	138	73.92	-45
00-196	36	71.31	-44.5	00-196	141	74.02	-45
00-196	39	71.41	-44.5	00-196	144	74.08	-45
00-196	42	71.48	-44.6	00-196	147	74.15	-45.0
00-196	45	71.56	-44.6	00-196	150	74.23	-45.0
00-196	48	71.65	-44.6	00-196	153	74.33	-45.0
00-196	51	71.72	-44.7	00-196	156	74.42	-45.0
00-196	54	71.83	-44.7	00-196	159	74.5	-45.1
00-196	57	71.87	-44.7	00-196	162	74.6	-45.1
00-196	60	71.96	-44.7	00-196	165	74.68	-45.1
00-196	63	72	-44.7	00-196	168	74.76	-45.1
00-196	66	72.09	-44.7	00-196	171	74.84	-45.1
00-196	69	72.14	-44.7	00-196	174	74.94	-45.1
00-196	72	72.23	-44.7	00-196	177	75.03	-45.1

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-196	180	75.1	-45.0	00-198	45	69.72	-45.1
00-196	183	75.18	-45.0	00-198	48	69.8	-45.1
00-196	186	75.24	-45	00-198	51	69.91	-45.1
00-196	189	75.3	-45	00-198	54	69.93	-45.1
00-196	192	75.36	-44.9	00-198	57	70.05	-45.1
00-196	195	75.39	-44.9	00-198	60	70.06	-45.1
00-196	198	75.46	-44.9	00-198	63	70.12	-45.0
00-196	201	75.56	-44.9	00-198	66	70.2	-45.0
00-196	204	75.66	-44.9	00-198	69	70.23	-45.0
00-196	207	75.69	-44.9	00-198	72	70.31	-45
00-196	210	75.75	-44.9	00-198	75	70.38	-45
00-196	213	75.83	-44.9	00-198	78	70.44	-45
00-196	216	75.89	-44.9	00-198	81	70.47	-45
00-196	219	75.94	-44.9	00-198	84	70.53	-44.9
00-196	222	75.97	-44.9	00-198	87	70.59	-44.9
00-196	225	76	-44.9	00-198	90	70.66	-44.9
00-196	228	76.01	-44.9	00-198	93	70.73	-44.9
00-196	231	76.08	-44.9	00-198	96	70.79	-44.9
00-196	234	76.13	-44.9	00-198	99	70.86	-44.9
00-196	240	76.15	-44.8	00-198	102	70.86	-44.9
00-198	0	71.31	-45.8	00-198	105	70.92	-44.9
00-198	3	71.32	-45.8	00-198	108	71	-44.9
00-198	6	71.1	-45.5	00-198	111	71.01	-44.8
00-198	9	70.67	-45.1	00-198	114	71.08	-44.8
00-198	12	70.03	-44.9	00-198	117	71.13	-44.8
00-198	15	69.43	-45.1	00-198	120	71.16	-44.8
00-198	18	69.24	-45.2	00-198	123	71.21	-44.8
00-198	21	69.31	-45.2	00-198	126	71.28	-44.8
00-198	24	69.38	-45.2	00-198	129	71.3	-44.7
00-198	27	69.41	-45.2	00-198	132	71.35	-44.7
00-198	30	69.48	-45.2	00-198	135	71.36	-44.6
00-198	33	69.54	-45.2	00-198	138	71.41	-44.6
00-198	36	69.57	-45.2	00-198	141	71.52	-44.6
00-198	39	69.62	-45.2	00-198	144	71.5	-44.6
00-198	42	69.69	-45.1	00-198	147	71.58	-44.6



<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-198	150	71.65	-44.6	00-198	255	73.36	-43.7
00-198	153	71.71	-44.6	00-198	258	73.39	-43.6
00-198	156	71.71	-44.6	00-198	261	73.44	-43.6
00-198	159	71.78	-44.5	00-198	264	73.47	-43.6
00-198	162	71.84	-44.5	00-198	267	73.53	-43.6
00-198	165	71.87	-44.5	00-198	270	73.59	-43.6
00-198	168	71.93	-44.4	00-198	273	73.61	-43.6
00-198	171	71.98	-44.4	00-198	276	73.68	-43.5
00-198	174	72.04	-44.4	00-198	279	73.74	-43.5
00-198	177	72.1	-44.4	00-198	282	73.77	-43.5
00-198	180	72.18	-44.3	00-198	285	73.81	-43.4
00-198	183	72.19	-44.3	00-198	288	73.88	-43.4
00-198	186	72.25	-44.2	00-198	291	73.95	-43.4
00-198	189	72.33	-44.2	00-198	294	74.01	-43.4
00-198	192	72.36	-44.2	00-198	297	74.1	-43.3
00-198	195	72.4	-44.2	00-198	300	74.14	-43.3
00-198	198	72.45	-44.2	00-198	303	74.22	-43.3
00-198	201	72.53	-44.2	00-198	306	74.27	-43.3
00-198	204	72.57	-44.1	00-198	309	74.28	-43.3
00-198	207	72.61	-44.1	00-198	312	74.34	-43.3
00-198	210	72.68	-44.1	00-198	315	74.39	-43.2
00-198	213	72.72	-44.1	00-198	318	74.43	-43.2
00-198	216	72.79	-44.0	00-198	321	74.48	-43.2
00-198	219	72.82	-44	00-198	324	74.55	-43.2
00-198	222	72.87	-44	00-198	327	74.6	-43.2
00-198	225	72.95	-43.9	00-198	330	74.66	-43.2
00-198	228	73.01	-43.9	00-198	333	74.68	-43.1
00-198	231	73.09	-43.9	00-198	336	74.77	-43.1
00-198	234	73.16	-43.9	00-198	339	74.8	-43.1
00-198	237	73.19	-43.8	00-198	342	74.86	-43.1
00-198	240	73.17	-43.8	00-198	345	74.9	-43.1
00-198	243	73.23	-43.8	00-198	348	74.98	-43.1
00-198	246	73.22	-43.7	00-198	351	75.03	-43.0
00-198	249	73.25	-43.7	00-198	354	75.09	-43.0
00-198	252	73.3	-43.7	00-198	357	75.13	-43

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-198	360	75.18	-43	00-199	45	73.77	-43.6
00-198	363	75.23	-43	00-199	48	73.81	-43.6
00-198	366	75.28	-43	00-199	51	73.83	-43.6
00-198	369	75.34	-42.9	00-199	54	73.86	-43.6
00-198	372	75.42	-42.9	00-199	57	73.88	-43.5
00-198	375	75.43	-42.9	00-199	60	73.94	-43.5
00-198	378	75.44	-42.9	00-199	63	73.96	-43.6
00-198	381	75.53	-42.8	00-199	66	73.96	-43.6
00-198	384	75.55	-42.8	00-199	69	74.02	-43.6
00-198	387	75.59	-42.8	00-199	72	74.03	-43.6
00-198	390	75.63	-42.8	00-199	75	74.09	-43.6
00-198	393	75.7	-42.8	00-199	78	74.15	-43.6
00-198	396	75.76	-42.7	00-199	81	74.17	-43.6
00-198	399	75.82	-42.7	00-199	84	74.14	-43.6
00-198	402	75.86	-42.7	00-199	87	74.09	-43.6
00-198	405	75.9	-42.7	00-199	90	74.14	-43.6
00-198	408	75.97	-42.7	00-199	93	74.16	-43.6
00-198	411	75.99	-42.6	00-199	96	74.22	-43.5
00-198	414	76.06	-42.6	00-199	99	74.21	-43.5
00-198	420	76.15	-42.6	00-199	102	74.21	-43.5
00-199	0	72.56	-44.7	00-199	105	74.22	-43.5
00-199	3	72.77	-44.6	00-199	108	74.25	-43.5
00-199	6	72.9	-44.5	00-199	111	74.31	-43.5
00-199	9	73.02	-44.2	00-199	114	74.33	-43.5
00-199	12	73.21	-43.9	00-199	117	74.35	-43.5
00-199	15	73.33	-43.8	00-199	120	74.42	-43.5
00-199	18	73.37	-43.9	00-199	123	74.43	-43.5
00-199	21	73.46	-43.8	00-199	126	74.44	-43.4
00-199	24	73.55	-43.7	00-199	129	74.46	-43.4
00-199	27	73.53	-43.7	00-199	132	74.44	-43.4
00-199	30	73.55	-43.7	00-199	135	74.43	-43.4
00-199	33	73.56	-43.7	00-199	138	74.44	-43.4
00-199	36	73.58	-43.6	00-199	141	74.4	-43.3
00-199	39	73.66	-43.6	00-199	144	74.38	-43.3
00-199	42	73.74	-43.6	00-199	147	74.35	-43.3

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-199	150	74.37	-43.3	00-201	48	69.53	-44.1
00-199	153	74.35	-43.3	00-201	51	69.52	-44.1
00-199	156	74.4	-43.2	00-201	54	69.54	-44.1
00-199	159	74.43	-43.2	00-201	57	69.52	-44.2
00-199	162	74.4	-43.2	00-201	60	69.53	-44.2
00-199	165	74.38	-43.2	00-201	63	69.5	-44.2
00-199	168	74.44	-43.2	00-201	66	69.48	-44.2
00-199	171	74.47	-43.2	00-201	69	69.5	-44.2
00-199	174	74.49	-43.2	00-201	72	69.5	-44.2
00-199	177	74.48	-43.2	00-201	75	69.47	-44.2
00-199	180	74.42	-43.1	00-201	78	69.44	-44.2
00-199	183	74.36	-43.1	00-201	81	69.43	-44.2
00-199	186	74.35	-43.1	00-201	84	69.41	-44.2
00-199	189	74.44	-43.1	00-201	87	69.37	-44.2
00-199	192	74.55	-43.1	00-201	90	69.36	-44.2
00-199	195	74.56	-43.2	00-201	93	69.39	-44.2
00-199	198	74.57	-43.1	00-201	96	69.41	-44.2
00-199	201	74.54	-43.1	00-201	99	69.43	-44.2
00-199	207	74.62	-43.0	00-201	102	69.43	-44.2
00-201	0	70.86	-44.9	00-201	105	69.44	-44.2
00-201	3	70.35	-44.8	00-201	108	69.47	-44.2
00-201	6	70.07	-44.6	00-201	111	69.49	-44.2
00-201	9	69.97	-44.5	00-201	114	69.5	-44.2
00-201	12	69.92	-44.3	00-201	117	69.49	-44.2
00-201	15	69.76	-44.2	00-201	120	69.54	-44.2
00-201	18	69.63	-44.2	00-201	123	69.53	-44.2
00-201	21	69.65	-44.2	00-201	126	69.54	-44.1
00-201	24	69.63	-44.1	00-201	129	69.55	-44.1
00-201	27	69.64	-44.1	00-201	132	69.57	-44.1
00-201	30	69.63	-44.1	00-201	135	69.58	-44.1
00-201	33	69.65	-44.1	00-201	138	69.57	-44.1
00-201	36	69.62	-44.1	00-201	141	69.55	-44.1
00-201	39	69.59	-44.1	00-201	144	69.59	-44.1
00-201	42	69.6	-44.1	00-201	147	69.57	-44.1
00-201	45	69.56	-44.1	00-201	150	69.57	-44.1

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-201	153	69.61	-44.1	00-201	258	69.76	-43.5
00-201	156	69.66	-44.1	00-201	261	69.78	-43.5
00-201	159	69.67	-44.0	00-201	264	69.81	-43.5
00-201	162	69.68	-44.0	00-201	267	69.84	-43.5
00-201	165	69.67	-44.0	00-201	270	69.81	-43.5
00-201	168	69.68	-44.0	00-201	273	69.77	-43.5
00-201	171	69.65	-44	00-201	276	69.76	-43.5
00-201	174	69.67	-44	00-201	279	69.76	-43.5
00-201	177	69.68	-44	00-201	282	69.75	-43.4
00-201	180	69.65	-44	00-201	285	69.74	-43.4
00-201	183	69.66	-43.9	00-201	288	69.71	-43.4
00-201	186	69.65	-43.9	00-201	291	69.71	-43.4
00-201	189	69.68	-43.9	00-201	294	69.71	-43.4
00-201	192	69.68	-43.9	00-201	297	69.71	-43.4
00-201	195	69.7	-43.9	00-201	300	69.73	-43.3
00-201	198	69.71	-43.9	00-201	303	69.72	-43.3
00-201	201	69.69	-43.9	00-201	306	69.74	-43.3
00-201	204	69.7	-43.9	00-201	309	69.78	-43.3
00-201	207	69.68	-43.9	00-201	312	69.76	-43.3
00-201	210	69.67	-43.9	00-201	315	69.79	-43.2
00-201	213	69.64	-43.9	00-201	318	69.82	-43.2
00-201	216	69.61	-43.8	00-201	321	69.87	-43.2
00-201	219	69.6	-43.8	00-201	324	69.91	-43.3
00-201	222	69.59	-43.7	00-201	327	69.91	-43.3
00-201	225	69.61	-43.7	00-201	330	69.91	-43.3
00-201	228	69.6	-43.7	00-201	333	69.94	-43.3
00-201	231	69.61	-43.7	00-201	336	69.95	-43.2
00-201	234	69.61	-43.7	00-201	339	69.91	-43.2
00-201	237	69.61	-43.7	00-201	342	69.95	-43.2
00-201	240	69.62	-43.7	00-201	345	69.98	-43.2
00-201	243	69.64	-43.7	00-201	348	70.01	-43.2
00-201	246	69.65	-43.6	00-201	351	70.01	-43.2
00-201	249	69.68	-43.6	00-201	354	70	-43.2
00-201	252	69.73	-43.6	00-201	357	69.97	-43.2
00-201	255	69.74	-43.6	00-201	360	69.97	-43.2

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-201	366	69.87	-43.2	00-202	102	73.02	-42.9
00-202	0	71.51	-43.8	00-202	105	73.06	-42.8
00-202	3	71.52	-43.5	00-202	106	73.13	-42.8
00-202	6	71.56	-43.2	00-202	111	73.13	-42.8
00-202	9	71.46	-43.1	00-202	114	73.11	-42.8
00-202	12	71.33	-43.1	00-202	117	73.06	-42.8
00-202	15	71.38	-43.3	00-202	120	73.11	-42.8
00-202	18	71.42	-43.3	00-202	123	73.14	-42.8
00-202	21	71.5	-43.3	00-202	126	73.19	-42.8
00-202	24	71.59	-43.3	00-202	129	73.21	-42.8
00-202	27	71.6	-43.3	00-202	132	73.21	-42.8
00-202	30	71.63	-43.2	00-202	135	73.23	-42.8
00-202	33	71.72	-43.2	00-202	138	73.27	-42.8
00-202	36	71.82	-43.2	00-202	141	73.33	-42.8
00-202	39	71.86	-43.2	00-202	144	73.37	-42.8
00-202	42	71.89	-43.2	00-202	147	73.4	-42.8
00-202	45	71.94	-43.2	00-202	150	73.45	-42.8
00-202	48	72.03	-43.2	00-202	153	73.49	-42.8
00-202	51	72.1	-43.2	00-202	156	73.56	-42.8
00-202	54	72.16	-43.1	00-202	159	73.65	-42.7
00-202	57	72.22	-43.0	00-202	162	73.67	-42.7
00-202	60	72.24	-43.0	00-202	165	73.74	-42.7
00-202	63	72.29	-43.0	00-202	168	73.83	-42.6
00-202	66	72.36	-43	00-202	171	73.85	-42.6
00-202	69	72.4	-43	00-202	174	73.96	-42.6
00-202	72	72.46	-43	00-202	177	74	-42.5
00-202	75	72.52	-43	00-202	180	74.04	-42.5
00-202	78	72.59	-43	00-202	183	74.08	-42.5
00-202	81	72.67	-42.9	00-202	186	74.11	-42.4
00-202	84	72.66	-42.9	00-202	189	74.18	-42.4
00-202	87	72.73	-42.9	00-202	192	74.24	-42.4
00-202	90	72.83	-42.9	00-202	195	74.28	-42.4
00-202	93	72.86	-42.9	00-202	198	74.36	-42.4
00-202	96	72.92	-42.9	00-202	201	74.43	-42.3
00-202	99	72.95	-42.9	00-202	204	74.47	-42.3

<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>	<i>HOLE-ID</i>	<i>DISTANCE</i>	<i>AZIMUTH</i>	<i>DIP</i>
00-202	207	74.53	-42.3	00-202	312	76.18	-41.3
00-202	210	74.58	-42.2	00-202	318	76.22	-41.3
00-202	213	74.63	-42.2				
00-202	216	74.66	-42.2				
00-202	219	74.72	-42.1				
00-202	222	74.8	-42.1				
00-202	225	74.81	-42.1				
00-202	228	74.85	-42.1				
00-202	231	74.91	-42.0				
00-202	234	74.97	-42				
00-202	237	75.01	-42				
00-202	240	75.07	-42				
00-202	243	75.13	-41.9				
00-202	246	75.16	-41.9				
00-202	249	75.22	-41.9				
00-202	252	75.25	-41.8				
00-202	255	75.31	-41.8				
00-202	258	75.34	-41.8				
00-202	261	75.34	-41.8				
00-202	264	75.4	-41.7				
00-202	267	75.44	-41.7				
00-202	270	75.51	-41.7				
00-202	273	75.55	-41.6				
00-202	276	75.64	-41.6				
00-202	279	75.67	-41.6				
00-202	282	75.72	-41.6				
00-202	285	75.78	-41.5				
00-202	288	75.81	-41.5				
00-202	291	75.85	-41.5				
00-202	294	75.89	-41.5				
00-202	297	75.9	-41.4				
00-202	300	75.95	-41.4				
00-202	303	76.02	-41.4				
00-202	306	76.11	-41.3				
00-202	309	76.14	-41.3				



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021213

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021213

(MZI) - LAC DES ILES MINES LTD.

Project: 00-001  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 28-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	13	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	4	4-7 Kg crush and split
276	9	8-12 Kg crush and split
3202	13	Rock - save entire reject
238	14	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	14	Au ppb: FA ICP package	FA-ICP	2	10000
976	14	Pt ppb: FA ICP package	FA-ICP	5	10000
977	14	Pd ppb: FA ICP package	FA-ICP	2	10000
2	14	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	14	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	14	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	14	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	14	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	14	Co %: calculation from Co ppm	AAS	0.0001	10.000

2.23510



52H04NE2012

2.23510

LAC DES ILES



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Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-001  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JUN-2000  
 Invoice No. : I0021213  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021213

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-001-001	1388 294	10	< 5	20	83	0.0083	42	0.0042	19	0.0019	
00-001-002	1388 294	2	< 5	6	69	0.0069	31	0.0031	17	0.0017	
00-001-003	1388 294	< 2	< 5	4	72	0.0072	36	0.0036	18	0.0018	
00-001-004	1388 276	2	< 5	4	111	0.0111	34	0.0034	19	0.0019	
00-001-005	1388 276	2	< 5	6	75	0.0075	36	0.0036	19	0.0019	
00-001-006	1388 276	2	< 5	6	75	0.0075	37	0.0037	17	0.0017	
00-001-007	1388 276	< 2	< 5	6	75	0.0075	38	0.0038	20	0.0020	
00-001-008	1388 276	4	< 5	6	131	0.0131	33	0.0033	23	0.0023	
00-001-009	1388 276	6	< 5	8	173	0.0173	36	0.0036	18	0.0018	
00-001-010	1388 276	4	< 5	6	85	0.0085	36	0.0036	20	0.0020	
00-001-010A	1388 276	2	< 5	6	81	0.0081	42	0.0042	23	0.0023	
00-001-011	1388 294	4	< 5	8	82	0.0082	41	0.0041	15	0.0015	
00-001-012	1388 276	4	< 5	6	91	0.0091	32	0.0032	15	0.0015	
001-STA-182	214 238	298	300	3420	1180	0.1180	1055	0.1055	41	0.0041	

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-001  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JUN-2000  
 Invoice No. : I0021213  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021213

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-001-001	1388 294	10	< 5	20	83	0.0083	42	0.0042	19	0.0019	
00-001-002	1388 294	2	< 5	6	69	0.0069	31	0.0031	17	0.0017	
00-001-003	1388 294	< 2	< 5	4	72	0.0072	36	0.0036	18	0.0018	
00-001-004	1388 276	2	< 5	4	111	0.0111	34	0.0034	19	0.0019	
00-001-005	1388 276	2	< 5	6	75	0.0075	36	0.0036	19	0.0019	
00-001-006	1388 276	2	< 5	6	75	0.0075	37	0.0037	17	0.0017	
00-001-007	1388 276	< 2	< 5	6	75	0.0075	38	0.0038	20	0.0020	
00-001-008	1388 276	4	< 5	6	131	0.0131	33	0.0033	23	0.0023	
00-001-009	1388 276	6	< 5	8	173	0.0173	36	0.0036	18	0.0018	
00-001-010	1388 276	4	< 5	6	85	0.0085	36	0.0036	20	0.0020	
00-001-010A	1388 276	2	< 5	6	81	0.0081	42	0.0042	23	0.0023	
00-001-011	1388 294	4	< 5	8	82	0.0082	41	0.0041	15	0.0015	
00-001-012	1388 276	4	< 5	6	91	0.0091	32	0.0032	15	0.0015	
001-STA-182	214 238	298	300	3420	1180	0.1180	1055	0.1055	41	0.0041	

CERTIFICATION: \_\_\_\_\_



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number :2  
 Total Pages :2  
 Certificate Date: 11-JUL-2000  
 Invoice No. : I0021411  
 P.O. Number :  
 Account : MZI

Project : 00-001  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

### A0021411

SAMPLE	PREP CODE		Au ppb	Pt ppb	Pd ppb	Cu	Cu %	Ni	Ni %	Co	Co %	
			ICP	ICP	ICP	ppm	calc.	ppm	calc.	ppm	calc.	
00-001-092	1388	276	4	40	602	34	0.0034	70	0.0070	14	0.0014	
00-001-093	1388	276	10	25	118	81	0.0081	76	0.0076	15	0.0015	
00-001-094	1388	276	16	80	562	64	0.0064	93	0.0093	14	0.0014	
00-001-095	1388	294	42	70	810	128	0.0128	112	0.0112	19	0.0019	
00-001-096	1388	294	10	110	896	59	0.0059	109	0.0109	15	0.0015	
001-STA-193	214	238	284	305	3380	1235	0.1235	1075	0.1075	43	0.0043	

CERTIFICATION:

*[Handwritten signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021311

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0021311**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-001  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 29-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	39	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	2	0-3 Kg crush and split
294	13	4-7 Kg crush and split
276	24	8-12 Kg crush and split
3202	39	Rock - save entire reject
238	40	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	40	Au ppb: FA ICP package	FA-ICP	2	10000
976	40	Pt ppb: FA ICP package	FA-ICP	5	10000
977	40	Pd ppb: FA ICP package	FA-ICP	2	10000
2	40	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	40	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	40	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	40	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	40	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	40	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-001  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 29-JUN-2000  
 Invoice No. : I0021311  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021311

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-001-013	1388 294	6	< 5	8	92	0.0092	41	0.0041	19	0.0019
00-001-014	1388 276	4	< 5	8	92	0.0092	35	0.0035	16	0.0016
00-001-015	1388 294	2	< 5	6	74	0.0074	34	0.0034	16	0.0016
00-001-016	1388 294	6	< 5	14	118	0.0118	40	0.0040	19	0.0019
00-001-017	1388 294	2	< 5	6	116	0.0116	39	0.0039	19	0.0019
00-001-018	1388 294	2	< 5	6	98	0.0098	45	0.0045	20	0.0020
00-001-019	1388 294	6	< 5	4	99	0.0099	43	0.0043	21	0.0021
00-001-020	1388 294	2	< 5	6	129	0.0129	35	0.0035	15	0.0015
00-001-021	1388 294	< 2	< 5	6	100	0.0100	39	0.0039	16	0.0016
00-001-022	1388 276	2	< 5	8	105	0.0105	39	0.0039	16	0.0016
00-001-023	1388 276	< 2	< 5	6	101	0.0101	42	0.0042	17	0.0017
00-001-024	1388 276	< 2	< 5	8	101	0.0101	44	0.0044	17	0.0017
00-001-025	1388 294	< 2	< 5	8	80	0.0080	39	0.0039	17	0.0017
00-001-026	1388 294	< 2	< 5	8	85	0.0085	40	0.0040	16	0.0016
00-001-027	1388 294	< 2	< 5	8	81	0.0081	46	0.0046	19	0.0019
00-001-028	1388 276	< 2	< 5	8	74	0.0074	36	0.0036	14	0.0014
00-001-029	1388 226	4	< 5	8	92	0.0092	44	0.0044	18	0.0018
00-001-030	1388 294	< 2	< 5	8	83	0.0083	43	0.0043	16	0.0016
00-001-031	1388 276	< 2	< 5	8	82	0.0082	43	0.0043	17	0.0017
00-001-032	1388 276	< 2	< 5	8	77	0.0077	45	0.0045	16	0.0016
00-001-033	1388 276	6	< 5	12	91	0.0091	49	0.0049	17	0.0017
00-001-034	1388 276	< 2	< 5	16	76	0.0076	47	0.0047	17	0.0017
00-001-035	1388 276	< 2	< 5	12	65	0.0065	37	0.0037	14	0.0014
00-001-036	1388 276	< 2	< 5	12	73	0.0073	39	0.0039	15	0.0015
00-001-037	1388 276	< 2	< 5	12	64	0.0064	40	0.0040	16	0.0016
00-001-038	1388 226	< 2	< 5	10	67	0.0067	39	0.0039	23	0.0023
00-001-039	1388 294	< 2	< 5	12	61	0.0061	37	0.0037	14	0.0014
00-001-040	1388 276	2	< 5	12	81	0.0081	47	0.0047	17	0.0017
00-001-041	1388 276	< 2	< 5	12	65	0.0065	42	0.0042	15	0.0015
00-001-042	1388 276	6	< 5	14	69	0.0069	46	0.0046	16	0.0016
00-001-043	1388 276	2	< 5	14	82	0.0082	50	0.0050	17	0.0017
00-001-044	1388 276	4	< 5	16	119	0.0119	55	0.0055	23	0.0023
00-001-045	1388 276	4	< 5	12	101	0.0101	42	0.0042	18	0.0018
00-001-046	1388 276	< 2	< 5	18	106	0.0106	39	0.0039	17	0.0017
00-001-047	1388 276	< 2	< 5	12	41	0.0041	33	0.0033	14	0.0014
00-001-048	1388 276	< 2	< 5	12	20	0.0020	26	0.0026	10	0.0010
00-001-049	1388 276	< 2	< 5	16	23	0.0023	43	0.0043	16	0.0016
00-001-050	1388 276	6	< 5	66	137	0.0137	83	0.0083	29	0.0029
00-001-051	1388 276	2	< 5	58	90	0.0090	80	0.0080	21	0.0021
001-STA-186	214 238	244	310	3080	1210	0.1210	1065	0.1065	46	0.0046

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

RECEIVED  
 JUL 19 2000

A0021411

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021411

(MZI) - LAC DES ILES MINES LTD.

Project: 00-001  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 11-JUL-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	45	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	22	4-7 Kg crush and split
276	23	8-12 Kg crush and split
3202	45	Rock - save entire reject
238	46	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	46	Au ppb: FA ICP package	FA-ICP	2	10000
976	46	Pt ppb: FA ICP package	FA-ICP	5	10000
977	46	Pd ppb: FA ICP package	FA-ICP	2	10000
2	46	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	46	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	46	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	46	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	46	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	46	Co %: calculation from Co ppm	AAS	0.0001	10.000



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Page Number :1  
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 Invoice No. : I0021411  
 P.O. Number :  
 Account : MZI

Project : 00-001  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021411

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-001-052	1388 294	10	< 5	68	159	0.0159	98	0.0098	30	0.0030
00-001-053	1388 276	6	< 5	66	127	0.0127	86	0.0086	26	0.0026
00-001-054	1388 276	4	< 5	66	113	0.0113	92	0.0092	24	0.0024
00-001-055	1388 294	6	< 5	6	100	0.0100	45	0.0045	29	0.0029
00-001-056	1388 276	32	25	352	341	0.0341	187	0.0187	42	0.0042
00-001-057	1388 294	36	25	36	331	0.0331	148	0.0148	29	0.0029
00-001-058	1388 276	58	45	214	554	0.0554	284	0.0284	35	0.0035
00-001-059	1388 294	10	40	226	140	0.0140	125	0.0125	29	0.0029
00-001-060	1388 276	20	50	328	156	0.0156	151	0.0151	37	0.0037
00-001-061	1388 294	14	65	472	57	0.0057	151	0.0151	35	0.0035
00-001-062	1388 276	70	135	822	163	0.0163	137	0.0137	24	0.0024
00-001-063	1388 276	88	65	512	84	0.0084	88	0.0088	15	0.0015
00-001-064	1388 294	16	40	150	60	0.0060	109	0.0109	22	0.0022
00-001-065	1388 276	32	55	384	49	0.0049	86	0.0086	18	0.0018
00-001-066	1388 276	80	345	3240	165	0.0165	94	0.0094	17	0.0017
00-001-067	1388 294	18	30	216	52	0.0052	69	0.0069	14	0.0014
00-001-068	1388 294	46	50	266	287	0.0287	95	0.0095	16	0.0016
00-001-069	1388 294	12	15	106	78	0.0078	76	0.0076	22	0.0022
00-001-070	1388 276	26	25	298	164	0.0164	105	0.0105	22	0.0022
00-001-071	1388 276	28	90	2210	68	0.0068	87	0.0087	16	0.0016
00-001-072	1388 294	196	75	9170	44	0.0044	151	0.0151	21	0.0021
00-001-073	1388 294	58	120	996	451	0.0451	417	0.0417	43	0.0043
00-001-074	1388 294	48	115	1510	198	0.0198	212	0.0212	19	0.0019
00-001-075	1388 294	8	40	358	41	0.0041	61	0.0061	10	0.0010
00-001-076	1388 294	52	600	7300	34	0.0034	139	0.0139	19	0.0019
00-001-077	1388 276	50	400	5930	53	0.0053	94	0.0094	14	0.0014
00-001-078	1388 276	274	105	650	521	0.0521	588	0.0588	22	0.0022
00-001-079	1388 294	106	65	324	245	0.0245	242	0.0242	20	0.0020
00-001-080	1388 276	26	70	600	37	0.0037	69	0.0069	11	0.0011
00-001-081	1388 294	66	65	370	290	0.0290	170	0.0170	24	0.0024
00-001-082	1388 276	20	45	262	106	0.0106	129	0.0129	27	0.0027
00-001-083	1388 276	12	30	168	39	0.0039	90	0.0090	14	0.0014
00-001-084	1388 294	8	30	204	20	0.0020	140	0.0140	19	0.0019
00-001-085	1388 294	14	25	154	10	0.0010	166	0.0166	21	0.0021
00-001-086	1388 276	22	10	82	129	0.0129	110	0.0110	26	0.0026
00-001-087	1388 276	8	50	438	13	0.0013	81	0.0081	13	0.0013
00-001-088	1388 276	8	65	258	35	0.0035	86	0.0086	15	0.0015
00-001-089	1388 294	4	35	248	9	0.0009	164	0.0164	24	0.0024
00-001-090	1388 294	2	20	130	14	0.0014	81	0.0081	13	0.0013
00-001-091	1388 276	6	30	166	23	0.0023	68	0.0068	11	0.0011

CERTIFICATION: *Sandy Long*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number :2  
 Total Pages :2  
 Certificate Date: 11-JUL-2000  
 Invoice No. : I0021411  
 P.O. Number :  
 Account : MZI

Project : 00-001  
 Comments : ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS      A0021411**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-001-092	1388 276	4	40	602	34	0.0034	70	0.0070	14	0.0014	
00-001-093	1388 276	10	25	118	81	0.0081	76	0.0076	15	0.0015	
00-001-094	1388 276	16	80	562	64	0.0064	93	0.0093	14	0.0014	
00-001-095	1388 294	42	70	810	128	0.0128	112	0.0112	19	0.0019	
00-001-096	1388 294	10	110	896	59	0.0059	109	0.0109	15	0.0015	
001-STA-193	214 238	284	305	3380	1235	0.1235	1075	0.1075	43	0.0043	

CERTIFICATION: S. Lavigne



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

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A0021624

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021624

(MZI) - LAC DES ILES MINES LTD.

Project: 00-001  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 05-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	35	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	7	4-7 Kg crush and split
276	28	8-12 Kg crush and split
3202	35	Rock - save entire reject
238	36	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	36	Au ppb: FA ICP package	FA-ICP	2	10000
976	36	Pt ppb: FA ICP package	FA-ICP	5	10000
977	36	Pd ppb: FA ICP package	FA-ICP	2	10000
2	36	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	36	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	36	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	36	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	36	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	36	Co %: calculation from Co ppm	AAS	0.0001	10.000





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 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.  
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 Account : MZI

Project : 00-001  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021624

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-001-097	1388 276	18	75	458	81	0.0081	98	0.0098	11	0.0011
00-001-098	1388 276	10	35	222	62	0.0062	61	0.0061	10	0.0010
00-001-099	1388 276	14	25	160	52	0.0052	54	0.0054	9	0.0009
00-001-100	1388 276	10	25	110	31	0.0031	57	0.0057	9	0.0009
00-001-101	1388 276	34	35	588	92	0.0092	79	0.0079	11	0.0011
00-001-102	1388 276	50	105	1285	134	0.0134	108	0.0108	11	0.0011
00-001-103	1388 276	88	245	3380	296	0.0296	137	0.0137	15	0.0015
00-001-104	1388 276	30	140	1270	102	0.0102	94	0.0094	12	0.0012
00-001-105	1388 276	108	225	1680	135	0.0135	240	0.0240	18	0.0018
00-001-106	1388 294	460	180	706	866	0.0866	624	0.0624	24	0.0024
00-001-107	1388 294	144	105	382	1135	0.1135	927	0.0927	35	0.0035
00-001-108	1388 294	324	100	236	1080	0.1080	884	0.0884	34	0.0034
00-001-109	1388 276	8	20	110	31	0.0031	77	0.0077	11	0.0011
00-001-110	1388 276	62	20	32	571	0.0571	331	0.0331	22	0.0022
00-001-111	1388 276	380	95	110	1015	0.1015	673	0.0673	27	0.0027
00-001-112	1388 276	494	165	138	2160	0.2160	1655	0.1655	57	0.0057
00-001-113	1388 294	344	200	192	938	0.0938	710	0.0710	45	0.0045
00-001-114	1388 276	100	135	400	371	0.0371	300	0.0300	27	0.0027
00-001-115	1388 276	80	130	322	260	0.0260	183	0.0183	20	0.0020
00-001-116	1388 276	104	130	314	393	0.0393	346	0.0346	24	0.0024
00-001-117	1388 276	82	90	160	369	0.0369	260	0.0260	21	0.0021
00-001-118	1388 276	20	25	84	120	0.0120	118	0.0118	18	0.0018
00-001-119	1388 276	16	20	70	106	0.0106	105	0.0105	23	0.0023
00-001-120	1388 276	30	55	170	235	0.0235	170	0.0170	34	0.0034
00-001-121	1388 276	18	20	80	125	0.0125	113	0.0113	27	0.0027
00-001-122	1388 276	18	20	74	132	0.0132	111	0.0111	23	0.0023
00-001-123	1388 294	8	5	48	63	0.0063	99	0.0099	20	0.0020
00-001-124	1388 276	8	15	50	74	0.0074	79	0.0079	18	0.0018
00-001-125	1388 276	8	15	50	74	0.0074	86	0.0086	19	0.0019
00-001-126	1388 294	10	10	46	105	0.0105	82	0.0082	18	0.0018
00-001-127	1388 294	12	5	38	96	0.0096	76	0.0076	16	0.0016
00-001-128	1388 276	12	20	46	76	0.0076	83	0.0083	18	0.0018
00-001-129	1388 276	8	10	54	73	0.0073	81	0.0081	17	0.0017
00-001-130	1388 276	8	10	36	64	0.0064	81	0.0081	15	0.0015
00-001-131	1388 276	4	< 5	30	28	0.0028	70	0.0070	14	0.0014
001-STA-198	214 238	302	300	3450	1280	0.1280	1170	0.1170	45	0.0045

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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A0021872

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021872

(MZI) - LAC DES ILES MINES LTD.

Project: 00-002  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 06-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	90	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	17	4-7 Kg crush and split
276	73	8-12 Kg crush and split
3202	90	Rock - save entire reject
238	91	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	91	Au ppb: FA ICP package	FA-ICP	2	10000
976	91	Pt ppb: FA ICP package	FA-ICP	5	10000
977	91	Pd ppb: FA ICP package	FA-ICP	2	10000
2	91	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	91	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	91	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	91	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	91	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	91	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

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To: LAC DES ILES MINES LTD.

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 Account : MZI

Project : 00-002  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021872

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-002-001	1388 276	< 2	< 5	26	53	0.0053	43	0.0043	17	0.0017
00-002-002	1388 276	< 2	< 5	56	37	0.0037	56	0.0056	21	0.0021
00-002-003	1388 276	< 2	< 5	108	51	0.0051	62	0.0062	21	0.0021
00-002-004	1388 276	< 2	< 5	98	49	0.0049	75	0.0075	23	0.0023
00-002-005	1388 276	< 2	< 5	94	71	0.0071	86	0.0086	26	0.0026
00-002-006	1388 276	< 2	< 5	40	83	0.0083	116	0.0116	33	0.0033
00-002-007	1388 294	< 2	< 5	36	36	0.0036	78	0.0078	21	0.0021
00-002-008	1388 294	< 2	160	102	61	0.0061	110	0.0110	23	0.0023
00-002-009	1388 276	22	10	78	234	0.0234	181	0.0181	45	0.0045
00-002-010	1388 294	< 2	< 5	80	121	0.0121	81	0.0081	23	0.0023
00-002-011	1388 294	< 2	< 5	26	51	0.0051	65	0.0065	22	0.0022
00-002-012	1388 276	< 2	< 5	6	195	0.0195	44	0.0044	19	0.0019
00-002-013	1388 276	< 2	< 5	6	93	0.0093	29	0.0029	20	0.0020
00-002-014	1388 276	< 2	< 5	4	70	0.0070	31	0.0031	19	0.0019
00-002-015	1388 276	< 2	< 5	4	74	0.0074	29	0.0029	19	0.0019
00-002-016	1388 276	< 2	< 5	8	95	0.0095	28	0.0028	19	0.0019
00-002-017	1388 276	< 2	< 5	< 2	83	0.0083	28	0.0028	25	0.0025
00-002-018	1388 276	< 2	< 5	< 2	79	0.0079	27	0.0027	18	0.0018
00-002-019	1388 276	< 2	< 5	< 2	77	0.0077	29	0.0029	17	0.0017
00-002-020	1388 276	< 2	< 5	< 2	77	0.0077	26	0.0026	17	0.0017
00-002-021	1388 276	< 2	< 5	< 2	58	0.0058	35	0.0035	23	0.0023
00-002-022	1388 276	< 2	< 5	< 2	66	0.0066	31	0.0031	20	0.0020
00-002-023	1388 294	< 2	< 5	4	81	0.0081	29	0.0029	16	0.0016
00-002-024	1388 294	< 2	< 5	4	92	0.0092	37	0.0037	22	0.0022
00-002-025	1388 276	< 2	< 5	4	99	0.0099	31	0.0031	19	0.0019
00-002-026	1388 276	< 2	< 5	2	110	0.0110	21	0.0021	15	0.0015
00-002-027	1388 276	< 2	< 5	4	79	0.0079	26	0.0026	13	0.0013
00-002-028	1388 276	< 2	< 5	< 2	79	0.0079	31	0.0031	14	0.0014
00-002-029	1388 276	< 2	< 5	< 2	91	0.0091	38	0.0038	17	0.0017
00-002-030	1388 276	< 2	< 5	2	106	0.0106	38	0.0038	18	0.0018
00-002-031	1388 294	< 2	< 5	6	49	0.0049	46	0.0046	30	0.0030
00-002-032	1388 276	4	< 5	< 2	86	0.0086	41	0.0041	18	0.0018
00-002-033	1388 276	< 2	< 5	4	89	0.0089	38	0.0038	15	0.0015
00-002-034	1388 276	< 2	< 5	2	101	0.0101	41	0.0041	17	0.0017
00-002-035	1388 276	< 2	< 5	4	103	0.0103	42	0.0042	15	0.0015
00-002-036	1388 276	< 2	< 5	6	119	0.0119	48	0.0048	13	0.0013
00-002-037	1388 276	< 2	< 5	4	90	0.0090	36	0.0036	15	0.0015
00-002-038	1388 276	< 2	< 5	4	105	0.0105	45	0.0045	15	0.0015
00-002-039	1388 276	< 2	< 5	6	101	0.0101	43	0.0043	16	0.0016
00-002-040	1388 276	< 2	< 5	8	114	0.0114	47	0.0047	17	0.0017

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-002  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 3  
 Certificate Date: 06-JUL-2000  
 Invoice No. : 10021872  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0021872

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-002-041	1388 276	2	< 5	6	109	0.0109	42	0.0042	17	0.0017
00-002-042	1388 276	< 2	< 5	8	113	0.0113	48	0.0048	17	0.0017
00-002-043	1388 276	< 2	< 5	10	106	0.0106	45	0.0045	16	0.0016
00-002-044	1388 276	< 2	< 5	10	106	0.0106	45	0.0045	17	0.0017
00-002-045	1388 276	< 2	< 5	8	83	0.0083	42	0.0042	14	0.0014
00-002-046	1388 294	2	< 5	8	96	0.0096	46	0.0046	16	0.0016
00-002-047	1388 294	2	< 5	8	78	0.0078	41	0.0041	15	0.0015
00-002-048	1388 276	< 2	< 5	8	77	0.0077	40	0.0040	15	0.0015
00-002-049	1388 276	< 2	< 5	8	84	0.0084	41	0.0041	16	0.0016
00-002-050	1388 276	< 2	< 5	10	87	0.0087	53	0.0053	20	0.0020
00-002-051	1388 276	< 2	< 5	10	71	0.0071	43	0.0043	17	0.0017
00-002-052	1388 276	< 2	< 5	12	71	0.0071	47	0.0047	17	0.0017
00-002-053	1388 276	< 2	< 5	10	75	0.0075	50	0.0050	16	0.0016
00-002-054	1388 294	< 2	< 5	8	74	0.0074	63	0.0063	20	0.0020
00-002-055	1388 276	< 2	< 5	10	83	0.0083	50	0.0050	17	0.0017
00-002-056	1388 276	< 2	< 5	10	85	0.0085	51	0.0051	17	0.0017
00-002-057	1388 276	< 2	< 5	10	82	0.0082	54	0.0054	19	0.0019
00-002-058	1388 276	< 2	< 5	10	76	0.0076	50	0.0050	17	0.0017
00-002-059	1388 276	< 2	< 5	10	72	0.0072	47	0.0047	16	0.0016
00-002-060	1388 276	< 2	< 5	< 2	63	0.0063	35	0.0035	24	0.0024
00-002-061	1388 294	< 2	5	12	79	0.0079	57	0.0057	19	0.0019
00-002-062	1388 276	< 2	< 5	18	99	0.0099	57	0.0057	20	0.0020
00-002-063	1388 276	< 2	< 5	14	63	0.0063	46	0.0046	16	0.0016
00-002-064	1388 276	< 2	< 5	16	57	0.0057	43	0.0043	17	0.0017
00-002-065	1388 276	< 2	< 5	16	58	0.0058	46	0.0046	17	0.0017
00-002-066	1388 276	< 2	< 5	14	65	0.0065	44	0.0044	15	0.0015
00-002-067	1388 276	< 2	< 5	16	61	0.0061	38	0.0038	13	0.0013
00-002-068	1388 276	< 2	< 5	16	53	0.0053	42	0.0042	12	0.0012
00-002-069	1388 294	< 2	< 5	22	78	0.0078	52	0.0052	13	0.0013
00-002-070	1388 294	2	5	138	85	0.0085	49	0.0049	13	0.0013
00-002-071	1388 276	4	< 5	72	130	0.0130	80	0.0080	24	0.0024
00-002-072	1388 276	4	< 5	78	125	0.0125	87	0.0087	28	0.0028
00-002-073	1388 276	4	< 5	70	92	0.0092	91	0.0091	24	0.0024
00-002-074	1388 276	70	45	484	585	0.0585	297	0.0297	29	0.0029
00-002-075	1388 276	62	45	188	611	0.0611	266	0.0266	32	0.0032
00-002-076	1388 276	14	40	248	141	0.0141	102	0.0102	25	0.0025
00-002-077	1388 276	2	35	88	51	0.0051	64	0.0064	15	0.0015
00-002-078	1388 276	18	125	684	80	0.0080	74	0.0074	16	0.0016
00-002-079	1388 294	26	65	868	124	0.0124	121	0.0121	23	0.0023
00-002-080	1388 294	14	45	734	82	0.0082	150	0.0150	29	0.0029

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-002  
 Comments: ATTN: MOE LAVIGNE

Page Number : 3  
 Total Pages : 3  
 Certificate Date: 06-JUL-2000  
 Invoice No. : 10021872  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0021872

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-002-081	1388 276	348	210	2200	713	0.0713	447	0.0447	31	0.0031
00-002-082	1388 276	14	65	644	36	0.0036	88	0.0088	16	0.0016
00-002-083	1388 276	80	55	1170	192	0.0192	110	0.0110	15	0.0015
00-002-084	1388 276	8	15	80	41	0.0041	73	0.0073	12	0.0012
00-002-085	1388 294	20	< 5	84	200	0.0200	133	0.0133	24	0.0024
00-002-086	1388 276	8	5	66	87	0.0087	75	0.0075	19	0.0019
00-002-087	1388 276	32	115	2230	71	0.0071	106	0.0106	15	0.0015
00-002-088	1388 276	14	25	378	89	0.0089	116	0.0116	16	0.0016
00-002-089	1388 276	14	50	552	58	0.0058	143	0.0143	22	0.0022
00-002-090	1388 294	< 2	< 5	156	32	0.0032	59	0.0059	8	0.0008
002-STA-208	214 238	380	320	3370	1265	0.1265	1145	0.1145	43	0.0043

CERTIFICATION: \_\_\_\_\_



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 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 11-JUL-2000  
 Invoice No. : I0022020  
 P.O. Number :  
 Account : MZI

Project : 00-002  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0022020

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-002-091	1388 294	44	300	6320	58	0.0058	61	0.0061	8	0.0008
00-002-092	1388 276	20	135	1950	66	0.0066	77	0.0077	13	0.0013
00-002-093	1388 276	16	80	692	60	0.0060	82	0.0082	14	0.0014
00-002-094	1388 276	156	5	1595	99	0.0099	160	0.0160	19	0.0019
00-002-095	1388 276	82	165	1525	393	0.0393	350	0.0350	31	0.0031
00-002-096	1388 276	46	45	240	160	0.0160	129	0.0129	17	0.0017
00-002-097	1388 276	126	90	834	220	0.0220	178	0.0178	16	0.0016
00-002-098	1388 276	38	45	234	93	0.0093	94	0.0094	13	0.0013
00-002-099	1388 276	20	35	322	48	0.0048	91	0.0091	14	0.0014
00-002-100	1388 276	44	105	1120	128	0.0128	135	0.0135	17	0.0017
00-002-101	1388 276	22	40	398	64	0.0064	68	0.0068	11	0.0011
00-002-102	1388 294	6	40	150	27	0.0027	60	0.0060	10	0.0010
00-002-103	1388 294	38	20	120	125	0.0125	85	0.0085	12	0.0012
00-002-104	1388 276	40	25	198	127	0.0127	68	0.0068	12	0.0012
00-002-105	1388 276	14	20	286	92	0.0092	104	0.0104	19	0.0019
00-002-106	1388 276	36	65	466	103	0.0103	86	0.0086	16	0.0016
00-002-107	1388 294	48	115	692	422	0.0422	485	0.0485	71	0.0071
00-002-108	1388 276	20	30	284	65	0.0065	97	0.0097	18	0.0018
00-002-109	1388 276	16	40	354	137	0.0137	122	0.0122	20	0.0020
00-002-110	1388 276	20	5	220	100	0.0100	107	0.0107	22	0.0022
00-002-111	1388 276	116	85	628	536	0.0536	225	0.0225	55	0.0055
00-002-112	1388 294	26	15	94	136	0.0136	135	0.0135	24	0.0024
00-002-113	1388 294	22	15	122	189	0.0189	115	0.0115	31	0.0031
00-002-114	1388 294	10	10	150	48	0.0048	81	0.0081	19	0.0019
00-002-115	1388 276	36	140	1195	127	0.0127	146	0.0146	21	0.0021
00-002-116	1388 276	28	135	1185	124	0.0124	200	0.0200	23	0.0023
00-002-117	1388 276	34	90	666	157	0.0157	129	0.0129	16	0.0016
00-002-118	1388 276	60	55	392	403	0.0403	323	0.0323	26	0.0026
00-002-119	1388 276	228	80	190	1625	0.1625	1130	0.1130	56	0.0056
00-002-120	1388 276	386	140	302	1245	0.1245	918	0.0918	46	0.0046
00-002-121	1388 276	344	145	524	1285	0.1285	962	0.0962	60	0.0060
00-002-122	1388 276	384	95	402	1355	0.1355	796	0.0796	55	0.0055
00-002-123	1388 294	10	20	76	77	0.0077	156	0.0156	22	0.0022
00-002-124	1388 294	14	15	66	102	0.0102	135	0.0135	23	0.0023
00-002-125	1388 276	26	25	98	141	0.0141	132	0.0132	21	0.0021
00-002-126	1388 276	46	40	116	190	0.0190	174	0.0174	22	0.0022
00-002-127	1388 276	12	35	126	63	0.0063	170	0.0170	19	0.0019
00-002-128	1388 294	44	70	208	278	0.0278	247	0.0247	26	0.0026
00-002-129	1388 276	38	65	228	307	0.0307	251	0.0251	41	0.0041
00-002-130	1388 276	56	60	162	284	0.0284	235	0.0235	27	0.0027

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number :2  
 Total Pages :2  
 Certificate Date: 11-JUL-2000  
 Invoice No. : I0022020  
 P.O. Number :  
 Account : MZI

Project : 00-002  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0022020

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-002-131	1388 276	14	30	88	110	0.0110	130	0.0130	26	0.0026
00-002-132	1388 276	8	5	58	67	0.0067	98	0.0098	21	0.0021
00-002-133	1388 276	8	10	48	62	0.0062	86	0.0086	18	0.0018
00-002-134	1388 276	34	10	30	405	0.0405	68	0.0068	26	0.0026
00-002-135	1388 294	6	5	42	59	0.0059	114	0.0114	27	0.0027
00-002-136	1388 276	14	25	120	162	0.0162	138	0.0138	24	0.0024
00-002-137	1388 276	10	< 5	60	65	0.0065	89	0.0089	17	0.0017
00-002-138	1388 276	10	< 5	58	127	0.0127	105	0.0105	19	0.0019
00-002-139	1388 276	12	20	94	127	0.0127	136	0.0136	21	0.0021
00-002-140	1388 276	16	< 5	266	173	0.0173	159	0.0159	20	0.0020
00-002-141	1388 276	22	85	642	119	0.0119	140	0.0140	17	0.0017
00-002-142	1388 276	12	50	320	130	0.0130	132	0.0132	17	0.0017
00-002-143	1388 276	12	20	116	170	0.0170	193	0.0193	20	0.0020
00-002-144	1388 276	12	20	88	90	0.0090	65	0.0065	12	0.0012
00-002-145	1388 276	6	25	80	87	0.0087	71	0.0071	14	0.0014
00-002-146	1388 276	8	15	88	79	0.0079	80	0.0080	13	0.0013
00-002-147	1388 276	22	25	144	101	0.0101	81	0.0081	12	0.0012
00-002-148	1388 276	6	35	210	65	0.0065	113	0.0113	23	0.0023
00-002-149	1388 276	6	65	130	47	0.0047	100	0.0100	23	0.0023
00-002-150	1388 276	12	35	148	329	0.0329	325	0.0325	51	0.0051
00-002-151	1388 276	6	15	46	64	0.0064	99	0.0099	21	0.0021
00-002-152	1388 276	2	< 5	10	24	0.0024	18	0.0018	7	0.0007
00-002-153	1388 276	2	< 5	6	53	0.0053	30	0.0030	28	0.0028
00-002-154	1388 276	2	< 5	10	132	0.0132	15	0.0015	9	0.0009
00-002-155	1388 276	< 2	< 5	< 2	21	0.0021	11	0.0011	8	0.0008
00-002-156	1388 276	< 2	< 5	4	28	0.0028	13	0.0013	7	0.0007
00-002-157	1388 276	< 2	< 5	4	28	0.0028	16	0.0016	8	0.0008
00-002-158	1388 276	8	< 5	< 2	23	0.0023	9	0.0009	7	0.0007
00-002-159	1388 276	4	< 5	< 2	16	0.0016	9	0.0009	9	0.0009
00-002-160	1388 276	< 2	< 5	8	118	0.0118	51	0.0051	22	0.0022
002-STA-211	214 238	358	305	3210	1190	0.1190	1075	0.1075	47	0.0047

CERTIFICATION: *Sarah Comand*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020960

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020960**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-003  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 27-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	90	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	59	0-3 Kg crush and split
294	27	4-7 Kg crush and split
276	4	8-12 Kg crush and split
3202	77	Rock - save entire reject
238	91	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	91	Au ppb: FA ICP package	FA-ICP	2	10000
976	91	Pt ppb: FA ICP package	FA-ICP	5	10000
977	91	Pd ppb: FA ICP package	FA-ICP	2	10000
2	91	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	91	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	91	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	91	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	91	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	91	Co %: calculation from Co ppm	AAS	0.0001	10.000





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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-003  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :3  
 Certificate Date: 27-JUN-2000  
 Invoice No. : I0020960  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020960

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-003-001	1388 226	8	10	60	149	0.0149	150	0.0150	22	0.0022
00-003-002	1388 276	< 2	< 5	< 2	80	0.0080	46	0.0046	17	0.0017
00-003-003	1388 226	< 2	20	30	162	0.0162	59	0.0059	21	0.0021
00-003-004	1388 276	< 2	< 5	< 2	80	0.0080	33	0.0033	19	0.0019
00-003-005	1388 294	< 2	< 5	< 2	77	0.0077	36	0.0036	20	0.0020
00-003-006	1388 294	< 2	< 5	4	83	0.0083	41	0.0041	17	0.0017
00-003-007	1388 226	< 2	< 5	< 2	129	0.0129	37	0.0037	17	0.0017
00-003-008	1388 226	< 2	< 5	2	89	0.0089	43	0.0043	21	0.0021
00-003-009	1388 226	< 2	< 5	< 2	89	0.0089	43	0.0043	18	0.0018
00-003-010	1388 226	< 2	< 5	< 2	143	0.0143	42	0.0042	20	0.0020
00-003-011	1388 226	< 2	< 5	< 2	251	0.0251	41	0.0041	19	0.0019
00-003-012	1388 226	222	< 5	6	2640	0.2640	105	0.0105	54	0.0054
00-003-013	1388 294	< 2	< 5	< 2	110	0.0110	40	0.0040	18	0.0018
00-003-014	1388 226	< 2	< 5	2	92	0.0092	37	0.0037	17	0.0017
00-003-015	1388 294	< 2	< 5	< 2	115	0.0115	37	0.0037	18	0.0018
00-003-016	1388 294	16	< 5	2	191	0.0191	35	0.0035	18	0.0018
00-003-017	1388 226	< 2	< 5	6	257	0.0257	34	0.0034	17	0.0017
00-003-018	1388 226	< 2	< 5	6	70	0.0070	55	0.0055	13	0.0013
00-003-019	1388 226	< 2	< 5	6	108	0.0108	40	0.0040	19	0.0019
00-003-020	1388 226	< 2	< 5	2	98	0.0098	38	0.0038	17	0.0017
00-003-021	1388 226	< 2	< 5	22	68	0.0068	37	0.0037	16	0.0016
00-003-022	1388 226	< 2	< 5	12	30	0.0030	38	0.0038	16	0.0016
00-003-023	1388 226	< 2	< 5	< 2	209	0.0209	39	0.0039	49	0.0049
00-003-024	1388 226	< 2	< 5	4	115	0.0115	33	0.0033	17	0.0017
00-003-025	1388 226	< 2	< 5	4	115	0.0115	44	0.0044	19	0.0019
00-003-026	1388 226	< 2	< 5	4	149	0.0149	42	0.0042	18	0.0018
00-003-027	1388 226	< 2	< 5	< 2	66	0.0066	85	0.0085	22	0.0022
00-003-028	1388 226	< 2	< 5	4	146	0.0146	40	0.0040	17	0.0017
00-003-029	1388 226	< 2	< 5	< 2	31	0.0031	47	0.0047	17	0.0017
00-003-030	1388 294	< 2	< 5	6	134	0.0134	42	0.0042	18	0.0018
00-003-031	1388 226	< 2	< 5	6	185	0.0185	44	0.0044	22	0.0022
00-003-032	1388 226	< 2	< 5	4	26	0.0026	35	0.0035	12	0.0012
00-003-033	1388 226	< 2	< 5	6	105	0.0105	39	0.0039	17	0.0017
00-003-034	1388 276	< 2	< 5	8	135	0.0135	37	0.0037	16	0.0016
00-003-035	1388 226	< 2	< 5	6	77	0.0077	42	0.0042	16	0.0016
00-003-036	1388 226	< 2	< 5	< 2	244	0.0244	30	0.0030	31	0.0031
00-003-037	1388 226	< 2	< 5	8	74	0.0074	37	0.0037	15	0.0015
00-003-038	1388 226	< 2	< 5	6	73	0.0073	37	0.0037	15	0.0015
00-003-039	1388 226	< 2	< 5	6	71	0.0071	28	0.0028	15	0.0015
00-003-040	1388 226	< 2	< 5	6	77	0.0077	41	0.0041	17	0.0017

CERTIFICATION: \_\_\_\_\_



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-003  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 3  
 Certificate Date: 27-JUN-2000  
 Invoice No. : 10020960  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020960

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-003-041	1388	226	< 2	< 5	12	88	0.0088	49	0.0049	22	0.0022
00-003-042	1388	226	< 2	< 5	14	77	0.0077	43	0.0043	17	0.0017
00-003-043	1388	226	< 2	< 5	14	86	0.0086	45	0.0045	17	0.0017
00-003-044	1388	226	< 2	< 5	14	78	0.0078	47	0.0047	17	0.0017
00-003-045	1388	226	< 2	< 5	14	83	0.0083	46	0.0046	16	0.0016
00-003-046	1388	226	< 2	< 5	14	84	0.0084	48	0.0048	17	0.0017
00-003-047	1388	226	< 2	< 5	16	78	0.0078	47	0.0047	18	0.0018
00-003-048	1388	226	< 2	< 5	16	70	0.0070	44	0.0044	17	0.0017
00-003-049	1388	226	< 2	< 5	18	67	0.0067	47	0.0047	17	0.0017
00-003-050	1388	226	< 2	< 5	18	76	0.0076	45	0.0045	17	0.0017
00-003-051	1388	226	8	< 5	12	137	0.0137	39	0.0039	24	0.0024
00-003-052	1388	294	< 2	< 5	18	79	0.0079	48	0.0048	17	0.0017
00-003-053	1388	294	< 2	< 5	18	81	0.0081	45	0.0045	16	0.0016
00-003-054	1388	226	< 2	< 5	14	70	0.0070	40	0.0040	15	0.0015
00-003-055	1388	226	< 2	5	18	82	0.0082	46	0.0046	18	0.0018
00-003-056	1388	294	< 2	< 5	18	64	0.0064	39	0.0039	15	0.0015
00-003-057	1388	226	< 2	< 5	22	68	0.0068	46	0.0046	20	0.0020
00-003-058	1388	226	< 2	< 5	18	46	0.0046	36	0.0036	15	0.0015
00-003-059	1388	226	< 2	< 5	14	70	0.0070	49	0.0049	22	0.0022
00-003-060	1388	294	2	< 5	20	73	0.0073	44	0.0044	18	0.0018
00-003-061	1388	226	< 2	< 5	24	80	0.0080	52	0.0052	18	0.0018
00-003-062	1388	226	< 2	< 5	22	68	0.0068	42	0.0042	19	0.0019
00-003-063	1388	226	2	< 5	20	84	0.0084	37	0.0037	16	0.0016
00-003-064	1388	226	< 2	< 5	20	67	0.0067	37	0.0037	17	0.0017
00-003-065	1388	226	< 2	< 5	24	53	0.0053	52	0.0052	18	0.0018
00-003-066	1388	226	2	< 5	24	70	0.0070	49	0.0049	18	0.0018
00-003-067	1388	294	4	5	26	64	0.0064	50	0.0050	18	0.0018
00-003-068	1388	294	< 2	< 5	24	71	0.0071	55	0.0055	20	0.0020
00-003-069	1388	226	4	10	38	107	0.0107	56	0.0056	15	0.0015
00-003-070	1388	294	22	35	74	258	0.0258	121	0.0121	29	0.0029
00-003-071	1388	294	6	30	308	66	0.0066	67	0.0067	21	0.0021
00-003-072	1388	294	20	60	308	232	0.0232	146	0.0146	27	0.0027
00-003-073	1388	294	2	25	194	50	0.0050	86	0.0086	21	0.0021
00-003-074	1388	294	2	15	78	48	0.0048	115	0.0115	25	0.0025
00-003-075	1388	276	8	50	256	84	0.0084	151	0.0151	32	0.0032
00-003-076	1388	294	10	35	256	25	0.0025	70	0.0070	14	0.0014
00-003-077	1388	226	< 2	35	192	23	0.0023	64	0.0064	13	0.0013
00-003-078	1388	294	14	20	224	51	0.0051	55	0.0055	10	0.0010
00-003-079	1388	294	12	15	74	47	0.0047	72	0.0072	16	0.0016
00-003-080	1388	294	6	25	92	45	0.0045	82	0.0082	17	0.0017

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-003  
 Comments: ATTN: MOE LAVIGNE

Page Number :3  
 Total Pages :3  
 Certificate Date: 27-JUN-2000  
 Invoice No. :10020960  
 P.O. Number :  
 Account :MZI

## CERTIFICATE OF ANALYSIS

A0020960

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-003-081	1388 294	< 2	25	114	48	0.0048	75	0.0075	16	0.0016
00-003-082	1388 294	4	20	86	51	0.0051	80	0.0080	16	0.0016
00-003-083	1388 226	6	50	880	50	0.0050	88	0.0088	17	0.0017
00-003-084	1388 226	12	65	1200	103	0.0103	128	0.0128	22	0.0022
00-003-085	1388 226	10	30	302	90	0.0090	111	0.0111	17	0.0017
00-003-086	1388 294	< 2	< 5	84	25	0.0025	62	0.0062	10	0.0010
00-003-087	1388 294	< 2	5	86	21	0.0021	55	0.0055	8	0.0008
00-003-088	1388 294	6	50	492	44	0.0044	65	0.0065	11	0.0011
00-003-089	1388 226	12	145	2400	30	0.0030	82	0.0082	14	0.0014
00-003-090	1388 294	< 2	20	84	13	0.0013	108	0.0108	17	0.0017
003-STA-176	2143202	336	320	3680	1420	0.1420	1115	0.1115	41	0.0041

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021050

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0021050**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-003  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 30-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	51	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	9	4-7 Kg crush and split
276	42	8-12 Kg crush and split
3202	51	Rock - save entire reject
238	52	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	52	Au ppb: FA ICP package	FA-ICP	2	10000
976	52	Pt ppb: FA ICP package	FA-ICP	5	10000
977	52	Pd ppb: FA ICP package	FA-ICP	2	10000
2	52	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	52	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	52	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	52	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	52	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	52	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-003  
 Comments : ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 28-JUN-2000  
 Invoice No. : I0021050  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021050

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-003-091	1388 294	< 2	25	162	23	0.0023	120	0.0120	20	0.0020
00-003-092	1388 276	18	50	684	47	0.0047	104	0.0104	18	0.0018
00-003-093	1388 294	58	100	766	99	0.0099	164	0.0164	21	0.0021
00-003-094	1388 276	44	40	314	136	0.0136	145	0.0145	19	0.0019
00-003-095	1388 276	14	75	484	53	0.0053	146	0.0146	22	0.0022
00-003-096	1388 294	4	45	678	19	0.0019	146	0.0146	21	0.0021
00-003-097	1388 276	< 2	65	502	20	0.0020	192	0.0192	33	0.0033
00-003-098	1388 276	2	< 5	< 2	108	0.0108	54	0.0054	45	0.0045
00-003-099	1388 276	6	100	2280	17	0.0017	97	0.0097	15	0.0015
00-003-100	1388 276	4	30	260	60	0.0060	88	0.0088	16	0.0016
00-003-101	1388 276	12	70	506	90	0.0090	114	0.0114	18	0.0018
00-003-102	1388 276	10	60	500	88	0.0088	91	0.0091	14	0.0014
00-003-103	1388 276	< 2	25	128	31	0.0031	83	0.0083	14	0.0014
00-003-104	1388 276	< 2	25	156	29	0.0029	74	0.0074	14	0.0014
00-003-105	1388 276	< 2	25	148	29	0.0029	74	0.0074	13	0.0013
00-003-106	1388 294	< 2	210	260	43	0.0043	76	0.0076	11	0.0011
00-003-107	1388 294	12	105	838	127	0.0127	152	0.0152	17	0.0017
00-003-108	1388 276	4	140	790	83	0.0083	193	0.0193	25	0.0025
00-003-109	1388 276	< 2	30	186	67	0.0067	73	0.0073	13	0.0013
00-003-110	1388 276	4	40	232	171	0.0171	141	0.0141	21	0.0021
00-003-111	1388 276	< 2	30	128	15	0.0015	55	0.0055	10	0.0010
00-003-112	1388 276	8	20	96	128	0.0128	63	0.0063	18	0.0018
00-003-113	1388 276	< 2	15	152	23	0.0023	51	0.0051	9	0.0009
00-003-114	1388 276	8	15	104	136	0.0136	85	0.0085	18	0.0018
00-003-115	1388 276	50	110	1105	274	0.0274	184	0.0184	17	0.0017
00-003-116	1388 276	18	105	1030	104	0.0104	100	0.0100	12	0.0012
00-003-117	1388 276	18	125	1460	98	0.0098	127	0.0127	12	0.0012
00-003-118	1388 276	16	30	330	81	0.0081	69	0.0069	11	0.0011
00-003-119	1388 276	334	130	386	522	0.0522	411	0.0411	17	0.0017
00-003-120	1388 276	248	75	158	414	0.0414	308	0.0308	16	0.0016
00-003-121	1388 276	228	70	138	828	0.0828	521	0.0521	23	0.0023
00-003-122	1388 276	136	40	96	1245	0.1245	781	0.0781	34	0.0034
00-003-123	1388 276	80	15	42	1275	0.1275	720	0.0720	37	0.0037
00-003-124	1388 276	316	95	108	1245	0.1245	793	0.0793	36	0.0036
00-003-125	1388 294	370	180	524	2030	0.2030	1700	0.1700	43	0.0043
00-003-126	1388 294	164	95	260	762	0.0762	643	0.0643	26	0.0026
00-003-127	1388 276	110	130	404	341	0.0341	288	0.0288	30	0.0030
00-003-128	1388 276	42	75	234	152	0.0152	144	0.0144	17	0.0017
00-003-129	1388 276	96	135	296	176	0.0176	160	0.0160	19	0.0019
00-003-130	1388 276	22	65	250	333	0.0333	265	0.0265	20	0.0020

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-003  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 2  
 Certificate Date: 28-JUN-2000  
 Invoice No. : 10021050  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0021050

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-003-131	1388 276	14	25	74	95	0.0095	89	0.0089	14	0.0014
00-003-132	1388 294	20	55	208	221	0.0221	230	0.0230	22	0.0022
00-003-133	1388 294	28	55	184	255	0.0255	179	0.0179	18	0.0018
00-003-134	1388 276	18	25	56	91	0.0091	76	0.0076	13	0.0013
00-003-135	1388 276	16	25	58	76	0.0076	82	0.0082	15	0.0015
00-003-136	1388 276	14	25	82	104	0.0104	100	0.0100	16	0.0016
00-003-137	1388 276	12	20	58	97	0.0097	72	0.0072	13	0.0013
00-003-138	1388 276	10	15	38	81	0.0081	71	0.0071	13	0.0013
00-003-139	1388 276	10	15	42	85	0.0085	70	0.0070	14	0.0014
00-003-140	1388 276	10	15	48	82	0.0082	75	0.0075	15	0.0015
00-003-141	1388 276	20	25	114	183	0.0183	176	0.0176	25	0.0025
003-STA-179	214 238	314	255	3710	1275	0.1275	1125	0.1125	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021210

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0021210**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-003  
 P.O.#:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 30-JUN-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	16	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	12	4-7 Kg crush and split
276	4	8-12 Kg crush and split
3202	16	Rock - save entire reject
238	17	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	17	Au ppb: FA ICP package	FA-ICP	2	10000
976	17	Pt ppb: FA ICP package	FA-ICP	5	10000
977	17	Pd ppb: FA ICP package	FA-ICP	2	10000
2	17	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	17	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	17	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	17	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	17	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	17	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

Aurora Laboratory Services Ltd.  
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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-003  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-JUN-2000  
 Invoice No. : 10021210  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0021210

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-003-142	1388 276	8	5	30	100	0.0100	77	0.0077	19	0.0019	
00-003-143	1388 294	30	40	306	118	0.0118	128	0.0128	22	0.0022	
00-003-144	1388 294	12	15	106	67	0.0067	74	0.0074	12	0.0012	
00-003-145	1388 294	12	20	146	101	0.0101	89	0.0089	13	0.0013	
00-003-146	1388 294	8	30	142	76	0.0076	83	0.0083	12	0.0012	
00-003-147	1388 276	8	15	84	80	0.0080	87	0.0087	15	0.0015	
00-003-148	1388 276	10	25	110	57	0.0057	93	0.0093	15	0.0015	
00-003-149	1388 294	12	25	96	131	0.0131	127	0.0127	20	0.0020	
00-003-150	1388 294	8	25	90	79	0.0079	124	0.0124	22	0.0022	
00-003-151	1388 294	8	45	96	58	0.0058	102	0.0102	21	0.0021	
00-003-152	1388 294	24	70	130	341	0.0341	236	0.0236	56	0.0056	
00-003-153	1388 276	10	35	116	93	0.0093	150	0.0150	26	0.0026	
00-003-154	1388 294	< 2	15	40	26	0.0026	73	0.0073	19	0.0019	
00-003-155	1388 294	< 2	< 5	4	25	0.0025	11	0.0011	6	0.0006	
00-003-156	1388 294	< 2	< 5	2	26	0.0026	8	0.0008	8	0.0008	
00-003-157	1388 294	< 2	< 5	< 2	39	0.0039	10	0.0010	9	0.0009	
003-STA-181	214 238	278	280	3100	1205	0.1205	1105	0.1105	42	0.0042	

CERTIFICATION: *[Signature]*





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A00.

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020286**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-88  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 16-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	87	Ring 500 g to approx -150 mesh
214	1	Revd as pulp; mesh size checked
226	5	0-3 Kg crush and split
294	72	4-7 Kg crush and split
276	10	8-12 Kg crush and split
3202	88	Rock - save entire reject
238	88	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	88	Au ppb: FA ICP package	FA-ICP	2	10000
976	88	Pt ppb: FA ICP package	FA-ICP	5	10000
977	88	Pd ppb: FA ICP package	FA-ICP	2	10000
2	88	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	88	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	88	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	88	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	88	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	88	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-88  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 16-JUN-  
 Invoice No. : I002028  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020286

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-005-001	1388 226	4	< 5	44	95	0.0095	64	0.0064	21	0.0021
00-005-002	1388 294	2	< 5	46	97	0.0097	67	0.0067	22	0.0022
00-005-003	1388 294	4	< 10	18	98	0.0098	69	0.0069	20	0.0020
00-005-004	1388 294	4	< 5	12	168	0.0168	30	0.0030	14	0.0014
00-005-005	1388 294	2	< 5	8	96	0.0096	28	0.0028	16	0.0016
00-005-006	1388 294	2	< 5	8	102	0.0102	30	0.0030	21	0.0021
00-005-007	1388 294	2	< 5	8	77	0.0077	32	0.0032	18	0.0018
00-005-008	1388 294	2	< 5	12	70	0.0070	40	0.0040	23	0.0023
00-005-009	1388 294	8	< 5	10	100	0.0100	38	0.0038	25	0.0025
00-005-010	1388 294	2	< 5	10	74	0.0074	35	0.0035	21	0.0021
00-005-011	1388 276	2	< 5	8	98	0.0098	30	0.0030	18	0.0018
00-005-012	1388 226	4	< 5	4	86	0.0086	32	0.0032	11	0.0011
00-005-013	1388 294	2	< 5	4	75	0.0075	36	0.0036	19	0.0019
00-005-014	1388 294	2	< 5	4	83	0.0083	42	0.0042	17	0.0017
00-005-015	1388 294	2	< 5	6	94	0.0094	43	0.0043	20	0.0020
00-005-016	1388 294	2	< 5	6	86	0.0086	42	0.0042	18	0.0018
00-005-017	1388 294	2	< 5	4	89	0.0089	44	0.0044	15	0.0015
00-005-018	1388 294	2	< 5	8	82	0.0082	43	0.0043	19	0.0019
00-005-019	1388 294	2	< 5	4	90	0.0090	44	0.0044	16	0.0016
00-005-020	1388 294	6	< 5	6	92	0.0092	46	0.0046	17	0.0017
00-005-021	1388 294	6	< 5	4	157	0.0157	44	0.0044	18	0.0018
00-005-022	1388 276	2	< 5	4	99	0.0099	44	0.0044	17	0.0017
00-005-023	1388 276	2	< 5	6	101	0.0101	41	0.0041	16	0.0016
00-005-024	1388 276	4	< 5	6	111	0.0111	40	0.0040	17	0.0017
00-005-025	1388 294	2	< 5	6	97	0.0097	42	0.0042	17	0.0017
00-005-026	1388 294	4	< 5	10	107	0.0107	46	0.0046	18	0.0018
00-005-027	1388 294	4	< 5	10	130	0.0130	39	0.0039	17	0.0017
00-005-028	1388 294	4	< 5	12	111	0.0111	46	0.0046	19	0.0019
00-005-029	1388 294	4	< 5	10	113	0.0113	50	0.0050	16	0.0016
00-005-030	1388 294	4	< 5	10	108	0.0108	38	0.0038	16	0.0016
00-005-031	1388 294	2	< 5	10	94	0.0094	40	0.0040	13	0.0013
00-005-032	1388 294	4	< 5	10	97	0.0097	47	0.0047	17	0.0017
00-005-033	1388 294	2	< 5	10	92	0.0092	42	0.0042	15	0.0015
00-005-034	1388 294	4	< 5	12	90	0.0090	47	0.0047	16	0.0016
00-005-035	1388 294	2	< 5	12	86	0.0086	48	0.0048	19	0.0019
00-005-036	1388 294	< 2	< 5	12	88	0.0088	49	0.0049	16	0.0016
00-005-037	1388 294	< 2	< 5	12	85	0.0085	48	0.0048	15	0.0015
00-005-038	1388 294	< 2	< 5	12	80	0.0080	49	0.0049	16	0.0016
00-005-039	1388 294	< 2	< 5	10	76	0.0076	49	0.0049	18	0.0018
00-005-040	1388 294	< 2	< 5	10	74	0.0074	46	0.0046	16	0.0016

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-88  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 3  
 Certificate Date: 16-JUN-  
 Invoice No. : I002028  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020286

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-005-041	1388 294	< 2	< 5	14	80	0.0080	48	0.0048	16	0.0016
00-005-042	1388 294	< 2	< 5	16	76	0.0076	51	0.0051	18	0.0018
00-005-043	1388 294	< 2	< 5	14	76	0.0076	48	0.0048	14	0.0014
00-005-044	1388 294	< 2	< 5	16	75	0.0075	51	0.0051	15	0.0015
00-005-045	1388 294	< 2	< 5	12	74	0.0074	50	0.0050	16	0.0016
00-005-046	1388 226	< 2	< 5	14	58	0.0058	46	0.0046	15	0.0015
00-005-047	1388 226	< 2	< 5	12	47	0.0047	47	0.0047	18	0.0018
00-005-048	1388 294	6	25	28	70	0.0070	83	0.0083	87	0.0087
00-005-049	1388 226	< 2	< 5	14	133	0.0133	50	0.0050	18	0.0018
00-005-050	1388 294	< 2	< 5	16	73	0.0073	54	0.0054	20	0.0020
00-005-051	1388 294	< 2	< 5	14	70	0.0070	48	0.0048	15	0.0015
00-005-052	1388 294	< 2	< 5	16	75	0.0075	54	0.0054	18	0.0018
00-005-053	1388 294	< 2	< 5	18	53	0.0053	44	0.0044	15	0.0015
00-005-054	1388 294	< 2	< 5	18	51	0.0051	41	0.0041	13	0.0013
00-005-055	1388 294	< 2	< 5	18	64	0.0064	50	0.0050	17	0.0017
00-005-056	1388 294	< 2	< 5	12	56	0.0056	37	0.0037	15	0.0015
00-005-057	1388 294	< 2	< 5	20	61	0.0061	49	0.0049	17	0.0017
00-005-058	1388 294	< 2	< 5	20	70	0.0070	47	0.0047	14	0.0014
00-005-059	1388 276	< 2	< 5	22	97	0.0097	39	0.0039	11	0.0011
00-005-060	1388 276	< 2	< 5	20	60	0.0060	47	0.0047	17	0.0017
00-005-061	1388 294	4	< 5	36	118	0.0118	64	0.0064	17	0.0017
00-005-062	1388 294	18	10	64	375	0.0375	117	0.0117	26	0.0026
00-005-063	1388 294	20	25	72	252	0.0252	119	0.0119	35	0.0035
00-005-064	1388 294	20	15	60	167	0.0167	93	0.0093	23	0.0023
00-005-065	1388 294	26	80	444	275	0.0275	169	0.0169	27	0.0027
00-005-066	1388 294	18	85	982	137	0.0137	175	0.0175	30	0.0030
00-005-067	1388 294	12	45	458	70	0.0070	97	0.0097	24	0.0024
00-005-068	1388 294	6	55	242	67	0.0067	104	0.0104	20	0.0020
00-005-069	1388 294	8	80	472	51	0.0051	80	0.0080	15	0.0015
00-005-070	1388 294	36	45	328	50	0.0050	73	0.0073	14	0.0014
00-005-071	1388 294	24	35	268	85	0.0085	101	0.0101	15	0.0015
00-005-072	1388 294	18	55	494	194	0.0194	184	0.0184	25	0.0025
00-005-073	1388 276	22	35	402	162	0.0162	139	0.0139	21	0.0021
00-005-074	1388 276	74	170	3350	195	0.0195	140	0.0140	19	0.0019
00-005-075	1388 276	38	95	1690	88	0.0088	178	0.0178	26	0.0026
00-005-076	1388 276	6	20	208	20	0.0020	98	0.0098	13	0.0013
00-005-077	1388 294	12	190	2590	46	0.0046	122	0.0122	15	0.0015
00-005-078	1388 294	22	305	6010	33	0.0033	61	0.0061	7	0.0007
00-005-079	1388 294	24	120	1060	123	0.0123	73	0.0073	13	0.0013
00-005-080	1388 294	86	35	218	125	0.0125	155	0.0155	11	0.0011

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-88  
 Comments: ATTN: MOE LAVIGNE

Page Number :3  
 Total Pages :3  
 Certificate Date: 16-JUN  
 Invoice No. : I00202  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020286

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-005-081	1388 294	168	80	538	294	0.0294	440	0.0440	17	0.0017
00-005-082	1388 294	54	160	1440	84	0.0084	144	0.0144	15	0.0015
00-005-083	1388 294	32	145	1850	52	0.0052	114	0.0114	16	0.0016
00-005-084	1388 294	38	80	516	76	0.0076	144	0.0144	20	0.0020
00-005-085	1388 294	14	45	340	34	0.0034	112	0.0112	16	0.0016
00-005-086	1388 294	16	45	342	57	0.0057	129	0.0129	17	0.0017
00-005-087	1388 294	6	75	440	53	0.0053	79	0.0079	11	0.0011
005-STA-158	2143202	240	300	3440	1415	0.1415	1140	0.1140	41	0.0041

CERTIFICATION: \_\_\_\_\_



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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-010  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 22-JUN-2000  
 Invoice No. : I0020625  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020625

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-010-001	1388 294	14	45	198	104	0.0104	254	0.0254	70	0.0070
00-010-002	1388 294	< 2	< 5	54	92	0.0092	160	0.0160	57	0.0057
00-010-003	1388 276	< 2	< 5	36	70	0.0070	133	0.0133	47	0.0047
00-010-004	1388 276	< 2	< 5	20	20	0.0020	168	0.0168	56	0.0056
00-010-005	1388 294	10	10	156	185	0.0185	329	0.0329	90	0.0090
00-010-006	1388 294	< 2	< 5	36	39	0.0039	71	0.0071	20	0.0020
00-010-007	1388 276	< 2	< 5	78	43	0.0043	83	0.0083	27	0.0027
00-010-008	1388 276	2	10	128	77	0.0077	89	0.0089	26	0.0026
00-010-009	1388 276	< 2	< 5	8	174	0.0174	58	0.0058	18	0.0018
00-010-010	1388 294	< 2	< 5	8	204	0.0204	36	0.0036	17	0.0017
00-010-011	1388 276	< 2	< 5	6	71	0.0071	34	0.0034	17	0.0017
00-010-012	1388 294	< 2	< 5	< 2	66	0.0066	29	0.0029	18	0.0018
00-010-013	1388 294	2	< 5	6	73	0.0073	30	0.0030	21	0.0021
00-010-014	1388 226	< 2	< 5	< 2	39	0.0039	68	0.0068	15	0.0015
00-010-015	1388 294	< 2	< 5	8	72	0.0072	32	0.0032	20	0.0020
00-010-016	1388 294	< 2	< 5	6	127	0.0127	28	0.0028	19	0.0019
00-010-017	1388 294	< 2	< 5	< 2	68	0.0068	25	0.0025	16	0.0016
00-010-018	1388 226	< 2	< 5	< 2	46	0.0046	19	0.0019	13	0.0013
00-010-019	1388 294	< 2	< 5	< 2	120	0.0120	33	0.0033	17	0.0017
00-010-020	1388 276	< 2	< 5	< 2	125	0.0125	29	0.0029	16	0.0016
00-010-021	1388 276	< 2	< 5	2	87	0.0087	37	0.0037	23	0.0023
00-010-022	1388 276	< 2	< 5	4	86	0.0086	35	0.0035	19	0.0019
00-010-023	1388 226	< 2	< 5	< 2	20	0.0020	56	0.0056	17	0.0017
00-010-024	1388 294	< 2	< 5	4	155	0.0155	35	0.0035	20	0.0020
00-010-025	1388 294	< 2	< 5	2	98	0.0098	34	0.0034	17	0.0017
00-010-026	1388 276	2	10	8	149	0.0149	27	0.0027	15	0.0015
00-010-027	1388 294	2	< 5	4	130	0.0130	37	0.0037	19	0.0019
00-010-028	1388 276	< 2	< 5	2	197	0.0197	26	0.0026	13	0.0013
00-010-029	1388 294	< 2	< 5	4	89	0.0089	35	0.0035	17	0.0017
00-010-030	1388 226	< 2	< 5	< 2	14	0.0014	23	0.0023	13	0.0013
00-010-031	1388 276	< 2	< 5	6	109	0.0109	38	0.0038	17	0.0017
00-010-032	1388 294	< 2	< 5	6	104	0.0104	43	0.0043	22	0.0022
00-010-033	1388 294	< 2	< 5	6	94	0.0094	46	0.0046	25	0.0025
00-010-034	1388 276	< 2	< 5	8	90	0.0090	39	0.0039	18	0.0018
00-010-035	1388 276	< 2	< 5	8	170	0.0170	37	0.0037	19	0.0019
00-010-036	1388 276	< 2	< 5	6	142	0.0142	44	0.0044	21	0.0021
00-010-037	1388 294	< 2	< 5	10	103	0.0103	49	0.0049	23	0.0023
00-010-038	1388 226	< 2	< 5	< 2	14	0.0014	41	0.0041	17	0.0017
00-010-039	1388 294	< 2	< 5	8	74	0.0074	50	0.0050	24	0.0024
00-010-040	1388 226	4	< 5	< 2	167	0.0167	69	0.0069	45	0.0045

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-010  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 22-JUN-2000  
 Invoice No. : I0020625  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0020625

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-010-041	1388 294	< 2	< 5	6	87	0.0087	42	0.0042	20	0.0020
00-010-042	1388 294	68	< 5	8	107	0.0107	52	0.0052	28	0.0028
00-010-043	1388 294	< 2	< 5	6	91	0.0091	41	0.0041	20	0.0020
00-010-044	1388 294	< 2	< 5	8	83	0.0083	41	0.0041	19	0.0019
00-010-045	1388 276	< 2	< 5	8	86	0.0086	44	0.0044	19	0.0019
00-010-046	1388 294	< 2	< 5	8	104	0.0104	37	0.0037	14	0.0014
00-010-047	1388 294	< 2	< 5	4	121	0.0121	33	0.0033	12	0.0012
00-010-048	1388 276	< 2	< 5	18	124	0.0124	41	0.0041	13	0.0013
010-STA-165	214 238	266	265	3200	1265	0.1265	1185	0.1185	45	0.0045

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-010  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020770  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0020770

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-010-049	1388 276	4	< 5	8	123	0.0123	42	0.0042	14	0.0014
00-010-050	1388 276	< 2	< 5	8	88	0.0088	46	0.0046	18	0.0018
00-010-051	1388 276	< 2	< 5	8	88	0.0088	51	0.0051	17	0.0017
00-010-052	1388 276	< 2	< 5	10	86	0.0086	46	0.0046	16	0.0016
00-010-053	1388 276	< 2	< 5	18	80	0.0080	48	0.0048	15	0.0015
00-010-054	1388 294	< 2	< 5	10	77	0.0077	45	0.0045	15	0.0015
00-010-055	1388 226	< 2	< 5	8	58	0.0058	48	0.0048	18	0.0018
00-010-056	1388 276	< 2	< 5	12	76	0.0076	50	0.0050	18	0.0018
00-010-057	1388 276	< 2	< 5	14	67	0.0067	41	0.0041	16	0.0016
00-010-058	1388 294	< 2	< 5	12	64	0.0064	46	0.0046	19	0.0019
00-010-059	1388 294	< 2	< 5	12	57	0.0057	40	0.0040	17	0.0017
00-010-060	1388 276	< 2	< 5	12	48	0.0048	31	0.0031	12	0.0012
00-010-061	1388 294	< 2	< 5	14	52	0.0052	41	0.0041	13	0.0013
00-010-062	1388 226	< 2	< 5	12	20	0.0020	49	0.0049	18	0.0018
00-010-063	1388 294	2	< 5	18	67	0.0067	44	0.0044	17	0.0017
00-010-064	1388 294	< 2	< 5	12	44	0.0044	36	0.0036	15	0.0015
00-010-065	1388 294	< 2	< 5	16	70	0.0070	44	0.0044	20	0.0020
00-010-066	1388 294	< 2	< 5	16	71	0.0071	41	0.0041	16	0.0016
00-010-067	1388 294	< 2	< 5	12	31	0.0031	61	0.0061	22	0.0022
00-010-068	1388 294	4	5	16	92	0.0092	62	0.0062	27	0.0027
00-010-069	1388 276	16	15	44	173	0.0173	83	0.0083	22	0.0022
00-010-070	1388 294	8	5	76	121	0.0121	75	0.0075	18	0.0018
00-010-071	1388 226	< 2	40	252	7	0.0007	142	0.0142	31	0.0031
00-010-072	1388 294	< 2	< 5	108	25	0.0025	91	0.0091	18	0.0018
00-010-073	1388 226	34	< 5	18	514	0.0514	55	0.0055	39	0.0039
00-010-074	1388 294	4	5	114	69	0.0069	70	0.0070	13	0.0013
00-010-075	1388 226	< 2	30	100	23	0.0023	144	0.0144	33	0.0033
00-010-076	1388 294	42	215	2150	206	0.0206	152	0.0152	25	0.0025
00-010-077	1388 294	264	455	5200	68	0.0068	124	0.0124	19	0.0019
00-010-078	1388 276	32	10	68	32	0.0032	52	0.0052	8	0.0008
00-010-079	1388 294	6	15	74	43	0.0043	44	0.0044	7	0.0007
00-010-080	1388 294	10	< 5	8	143	0.0143	84	0.0084	25	0.0025
00-010-081	1388 294	32	105	1180	174	0.0174	138	0.0138	25	0.0025
00-010-082	1388 276	14	25	116	50	0.0050	55	0.0055	11	0.0011
00-010-083	1388 276	10	45	422	62	0.0062	77	0.0077	16	0.0016
00-010-084	1388 276	12	45	564	62	0.0062	77	0.0077	15	0.0015
00-010-085	1388 294	8	5	98	39	0.0039	95	0.0095	17	0.0017
00-010-086	1388 276	8	15	252	38	0.0038	80	0.0080	16	0.0016
00-010-087	1388 276	4	40	568	50	0.0050	113	0.0113	21	0.0021
00-010-088	1388 294	8	25	448	74	0.0074	112	0.0112	26	0.0026

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-010  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :3  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020770  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020770

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-010-089	1388 226	2	25	250	10	0.0010	86	0.0086	12	0.0012
00-010-090	1388 294	34	120	1225	52	0.0052	134	0.0134	20	0.0020
00-010-091	1388 294	50	105	496	62	0.0062	149	0.0149	20	0.0020
00-010-092	1388 226	10	15	114	8	0.0008	133	0.0133	18	0.0018
00-010-093	1388 294	78	80	858	185	0.0185	266	0.0266	25	0.0025
00-010-094	1388 276	40	30	116	107	0.0107	155	0.0155	19	0.0019
00-010-095	1388 294	18	30	152	98	0.0098	182	0.0182	25	0.0025
00-010-096	1388 276	22	50	320	115	0.0115	145	0.0145	18	0.0018
00-010-097	1388 226	8	< 5	44	85	0.0085	50	0.0050	12	0.0012
00-010-098	1388 294	76	130	1170	239	0.0239	221	0.0221	25	0.0025
00-010-099	1388 276	24	65	710	81	0.0081	179	0.0179	25	0.0025
00-010-100	1388 294	< 2	35	138	19	0.0019	91	0.0091	14	0.0014
00-010-101	1388 294	2	30	142	17	0.0017	84	0.0084	13	0.0013
00-010-102	1388 226	68	< 5	28	351	0.0351	57	0.0057	13	0.0013
00-010-103	1388 294	6	35	138	42	0.0042	76	0.0076	13	0.0013
00-010-104	1388 294	10	65	380	54	0.0054	108	0.0108	14	0.0014
00-010-105	1388 294	22	105	1180	34	0.0034	122	0.0122	20	0.0020
00-010-106	1388 226	< 2	5	50	7	0.0007	131	0.0131	17	0.0017
00-010-107	1388 276	< 2	25	106	24	0.0024	82	0.0082	14	0.0014
00-010-108	1388 276	4	55	282	21	0.0021	88	0.0088	13	0.0013
00-010-109	1388 276	14	40	222	88	0.0088	110	0.0110	17	0.0017
00-010-110	1388 294	8	15	96	61	0.0061	137	0.0137	25	0.0025
00-010-111	1388 294	26	35	184	237	0.0237	98	0.0098	17	0.0017
00-010-112	1388 294	8	50	228	36	0.0036	74	0.0074	11	0.0011
00-010-113	1388 294	20	30	134	170	0.0170	100	0.0100	22	0.0022
00-010-114	1388 294	34	110	620	221	0.0221	212	0.0212	25	0.0025
00-010-115	1388 226	152	325	2200	628	0.0628	391	0.0391	37	0.0037
00-010-116	1388 294	46	90	460	241	0.0241	192	0.0192	27	0.0027
00-010-117	1388 294	16	65	462	76	0.0076	104	0.0104	18	0.0018
00-010-118	1388 294	10	15	84	85	0.0085	63	0.0063	13	0.0013
00-010-119	1388 276	20	30	174	191	0.0191	127	0.0127	19	0.0019
00-010-120	1388 276	80	130	704	367	0.0367	243	0.0243	30	0.0030
00-010-121	1388 226	52	30	132	187	0.0187	147	0.0147	26	0.0026
00-010-122	1388 294	26	40	258	123	0.0123	118	0.0118	22	0.0022
00-010-123	1388 294	36	60	634	153	0.0153	169	0.0169	22	0.0022
00-010-124	1388 226	156	180	1080	895	0.0895	488	0.0488	51	0.0051
00-010-125	1388 294	42	50	206	222	0.0222	107	0.0107	17	0.0017
00-010-126	1388 276	76	95	500	416	0.0416	283	0.0283	35	0.0035
00-010-127	1388 276	18	50	746	98	0.0098	91	0.0091	17	0.0017
00-010-128	1388 276	18	95	1190	74	0.0074	100	0.0100	18	0.0018

CERTIFICATION: 





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-010  
 Comments: ATTN: MOE LAVIGNE

Page Number :3  
 Total Pages :3  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020770  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0020770

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-010-129	1388	276	28	85	462	150	0.0150	151	0.0151	21	0.0021
010-STA-169	214	238	220	335	3630	1345	0.1345	1080	0.1080	42	0.0042

CERTIFICATION:



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 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020855

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020855**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-010  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 27-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	28	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	3	0-3 Kg crush and split
294	9	4-7 Kg crush and split
276	16	8-12 Kg crush and split
3202	29	Rock - save entire reject
238	29	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	29	Au ppb: FA ICP package	FA-ICP	2	10000
976	29	Pt ppb: FA ICP package	FA-ICP	5	10000
977	29	Pd ppb: FA ICP package	FA-ICP	2	10000
2	29	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	29	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	29	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	29	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	29	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	29	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-010  
 Comments : ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 27-JUN-2000  
 Invoice No. : I0020855  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020855

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-010-130	1388 276	10	< 5	8	136	0.0136	231	0.0231	34	0.0034
00-010-131	1388 226	8	40	212	41	0.0041	77	0.0077	13	0.0013
00-010-132	1388 294	68	70	316	171	0.0171	125	0.0125	14	0.0014
00-010-133	1388 276	250	85	302	502	0.0502	417	0.0417	18	0.0018
00-010-134	1388 294	188	50	92	602	0.0602	424	0.0424	20	0.0020
00-010-135	1388 294	48	35	100	262	0.0262	218	0.0218	17	0.0017
00-010-136	1388 276	32	20	106	383	0.0383	229	0.0229	19	0.0019
00-010-137	1388 294	8	15	52	67	0.0067	186	0.0186	26	0.0026
00-010-138	1388 276	144	85	78	600	0.0600	494	0.0494	39	0.0039
00-010-139	1388 294	30	25	48	138	0.0138	138	0.0138	23	0.0023
00-010-140	1388 226	48	65	90	290	0.0290	119	0.0119	36	0.0036
00-010-141	1388 276	38	65	206	162	0.0162	136	0.0136	20	0.0020
00-010-142	1388 276	26	45	102	183	0.0183	144	0.0144	22	0.0022
00-010-143	1388 276	18	50	118	105	0.0105	131	0.0131	18	0.0018
00-010-144	1388 276	34	65	98	156	0.0156	123	0.0123	21	0.0021
00-010-145	1388 276	26	40	124	149	0.0149	136	0.0136	25	0.0025
00-010-146	1388 276	8	15	54	82	0.0082	82	0.0082	17	0.0017
00-010-147	1388 294	10	25	74	78	0.0078	99	0.0099	16	0.0016
00-010-148	1388 276	8	15	44	83	0.0083	83	0.0083	17	0.0017
00-010-149	1388 276	10	15	50	133	0.0133	104	0.0104	15	0.0015
00-010-150	1388 276	8	< 5	28	82	0.0082	70	0.0070	14	0.0014
00-010-151	1388 276	10	15	50	196	0.0196	199	0.0199	24	0.0024
00-010-152	1388 294	10	15	76	128	0.0128	110	0.0110	16	0.0016
00-010-153	1388 226	6	< 5	22	216	0.0216	85	0.0085	42	0.0042
00-010-154	1388 276	6	20	80	48	0.0048	88	0.0088	15	0.0015
00-010-155	1388 294	4	25	74	130	0.0130	145	0.0145	22	0.0022
00-010-156	1388 294	4	15	42	66	0.0066	70	0.0070	13	0.0013
00-010-157	1388 276	6	25	78	65	0.0065	70	0.0070	10	0.0010
010-STA-172	214 3202	320	280	3330	1410	0.1410	1145	0.1145	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

RECEIVED  
 JUL 19 2000

A0021214

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021214

(MZI) - LAC DES ILES MINES LTD.

Project: 00-015  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 05-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	39	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	2	0-3 Kg crush and split
294	9	4-7 Kg crush and split
276	28	8-12 Kg crush and split
3202	39	Rock - save entire reject
238	40	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	40	Au ppb: FA ICP package	FA-ICP	2	10000
976	40	Pt ppb: FA ICP package	FA-ICP	5	10000
977	40	Pd ppb: FA ICP package	FA-ICP	2	10000
2	40	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	40	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	40	Ni ppm: HNO3-aqua regia digest	AAS-BRGD CORR	1	10000
3003	40	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	40	Co ppm: HNO3-aqua regia digest	AAS-BRGD CORR	1	10000
3002	40	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

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 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
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Page Number : 1  
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 Certificate Date: 05-JUL-2000  
 Invoice No. : I0021214  
 P.O. Number :  
 Account : MZI

Project : 00-015  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021214

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-015-001	1388 294	2	< 5	< 2	75	0.0075	39	0.0039	22	0.0022
00-015-002	1388 294	< 2	< 5	2	70	0.0070	36	0.0036	20	0.0020
00-015-003	1388 276	2	< 5	4	72	0.0072	34	0.0034	18	0.0018
00-015-004	1388 276	4	< 5	4	202	0.0202	38	0.0038	25	0.0025
00-015-005	1388 276	6	< 5	12	70	0.0070	38	0.0038	21	0.0021
00-015-006	1388 294	< 2	< 5	4	100	0.0100	37	0.0037	22	0.0022
00-015-007	1388 276	< 2	< 5	4	113	0.0113	35	0.0035	21	0.0021
00-015-008	1388 276	< 2	< 5	2	113	0.0113	37	0.0037	19	0.0019
00-015-009	1388 276	< 2	< 5	6	98	0.0098	44	0.0044	28	0.0028
00-015-010	1388 276	< 2	< 5	6	96	0.0096	42	0.0042	23	0.0023
00-015-011	1388 276	4	< 5	6	99	0.0099	46	0.0046	21	0.0021
00-015-012	1388 276	2	< 5	6	93	0.0093	48	0.0048	20	0.0020
00-015-013	1388 276	2	< 5	8	104	0.0104	47	0.0047	20	0.0020
00-015-014	1388 276	2	< 5	8	88	0.0088	45	0.0045	18	0.0018
00-015-015	1388 276	< 2	< 5	20	70	0.0070	41	0.0041	14	0.0014
00-015-016	1388 276	10	< 5	8	162	0.0162	42	0.0042	27	0.0027
00-015-017	1388 276	6	< 5	10	245	0.0245	37	0.0037	21	0.0021
00-015-018	1388 276	2	< 5	8	105	0.0105	38	0.0038	16	0.0016
00-015-019	1388 276	32	< 5	10	157	0.0157	46	0.0046	19	0.0019
00-015-020	1388 276	6	< 5	10	154	0.0154	42	0.0042	16	0.0016
00-015-021	1388 276	2	< 5	12	110	0.0110	39	0.0039	22	0.0022
00-015-022	1388 294	2	< 5	10	96	0.0096	49	0.0049	22	0.0022
00-015-023	1388 294	4	< 5	20	81	0.0081	45	0.0045	16	0.0016
00-015-024	1388 294	2	< 5	8	86	0.0086	49	0.0049	20	0.0020
00-015-025	1388 276	2	< 5	10	81	0.0081	51	0.0051	19	0.0019
00-015-026	1388 276	< 2	< 5	8	76	0.0076	51	0.0051	17	0.0017
00-015-027	1388 276	2	< 5	8	77	0.0077	56	0.0056	15	0.0015
00-015-028	1388 276	< 2	< 5	14	61	0.0061	36	0.0036	12	0.0012
00-015-029	1388 276	< 2	< 5	14	53	0.0053	41	0.0041	13	0.0013
00-015-030	1388 276	< 2	< 5	14	54	0.0054	41	0.0041	14	0.0014
00-015-031	1388 276	< 2	< 5	16	60	0.0060	39	0.0039	13	0.0013
00-015-032	1388 276	< 2	< 5	12	57	0.0057	37	0.0037	14	0.0014
00-015-033	1388 226	2	< 5	14	36	0.0036	42	0.0042	9	0.0009
00-015-034	1388 226	2	< 5	14	41	0.0041	69	0.0069	17	0.0017
00-015-035	1388 294	100	285	3650	342	0.0342	243	0.0243	42	0.0042
00-015-036	1388 294	20	75	1060	88	0.0088	78	0.0078	19	0.0019
00-015-037	1388 294	122	200	1225	303	0.0303	283	0.0283	43	0.0043
00-015-038	1388 276	242	170	1435	369	0.0369	420	0.0420	25	0.0025
00-015-039	1388 276	80	65	942	140	0.0140	111	0.0111	18	0.0018
015-STA-183	214 238	280	280	3300	1245	0.1245	1140	0.1140	44	0.0044

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

RECEIVED  
 JUN 25 2000

A0021532

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021532

(MZI) - LAC DES ILES MINES LTD.

Project: 00-015  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 12-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	66	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	8	0-3 Kg crush and split
294	17	4-7 Kg crush and split
276	41	8-12 Kg crush and split
3202	66	Rock - save entire reject
238	67	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	67	Au ppb: FA ICP package	FA-ICP	2	10000
976	67	Pt ppb: FA ICP package	FA-ICP	5	10000
977	67	Pd ppb: FA ICP package	FA-ICP	2	10000
2	67	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	67	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	67	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	67	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	67	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	67	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

**RECEIVED**  
**JUL 25 2000**

Page Number :1  
 Total Pages :2  
 Certificate Date: 05-JUL-2000  
 Invoice No. :10021532  
 P.O. Number :  
 Account :MZI

Project: 00-015  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021532

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-015-040	1388 276	10	< 5	98	51	0.0051	70	0.0070	13	0.0013
00-015-041	1388 276	12	15	170	44	0.0044	79	0.0079	19	0.0019
00-015-042	1388 276	12	< 5	62	43	0.0043	80	0.0080	18	0.0018
00-015-043	1388 276	14	20	288	41	0.0041	76	0.0076	17	0.0017
00-015-044	1388 276	28	100	1280	75	0.0075	96	0.0096	21	0.0021
00-015-045	1388 276	30	115	2300	50	0.0050	71	0.0071	15	0.0015
00-015-046	1388 276	18	25	214	42	0.0042	87	0.0087	17	0.0017
00-015-047	1388 294	6	20	452	26	0.0026	76	0.0076	13	0.0013
00-015-048	1388 294	2	< 5	40	40	0.0040	65	0.0065	15	0.0015
00-015-049	1388 226	4	< 5	56	19	0.0019	50	0.0050	9	0.0009
00-015-050	1388 226	6	5	126	30	0.0030	64	0.0064	12	0.0012
00-015-051	1388 294	12	40	640	22	0.0022	83	0.0083	13	0.0013
00-015-052	1388 276	80	130	1610	69	0.0069	143	0.0143	20	0.0020
00-015-053	1388 276	124	55	392	92	0.0092	233	0.0233	19	0.0019
00-015-054	1388 276	96	65	352	177	0.0177	251	0.0251	16	0.0016
00-015-055	1388 276	46	20	228	144	0.0144	108	0.0108	17	0.0017
00-015-056	1388 276	18	5	128	65	0.0065	84	0.0084	16	0.0016
00-015-057	1388 276	62	265	2330	136	0.0136	131	0.0131	18	0.0018
00-015-058	1388 294	22	20	286	61	0.0061	72	0.0072	13	0.0013
00-015-059	1388 226	20	65	800	43	0.0043	117	0.0117	17	0.0017
00-015-060	1388 226	24	25	236	74	0.0074	124	0.0124	23	0.0023
00-015-061	1388 276	4	25	162	20	0.0020	103	0.0103	15	0.0015
00-015-062	1388 276	10	35	346	34	0.0034	94	0.0094	13	0.0013
00-015-063	1388 276	4	20	150	24	0.0024	68	0.0068	11	0.0011
00-015-064	1388 276	8	25	184	56	0.0056	66	0.0066	10	0.0010
00-015-065	1388 276	6	20	128	47	0.0047	56	0.0056	9	0.0009
00-015-066	1388 276	18	40	352	136	0.0136	117	0.0117	12	0.0012
00-015-067	1388 276	20	15	152	100	0.0100	82	0.0082	13	0.0013
00-015-068	1388 276	14	15	198	80	0.0080	81	0.0081	13	0.0013
00-015-069	1388 276	4	25	144	18	0.0018	65	0.0065	11	0.0011
00-015-070	1388 276	8	15	110	57	0.0057	78	0.0078	15	0.0015
00-015-071	1388 276	28	45	353	116	0.0116	141	0.0141	21	0.0021
00-015-072	1388 276	26	45	226	153	0.0153	97	0.0097	16	0.0016
00-015-073	1388 276	8	40	152	44	0.0044	90	0.0090	14	0.0014
00-015-074	1388 276	10	40	248	78	0.0078	101	0.0101	14	0.0014
00-015-075	1388 294	52	45	252	482	0.0482	269	0.0269	28	0.0028
00-015-076	1388 294	34	55	330	300	0.0300	231	0.0231	24	0.0024
00-015-077	1388 276	58	110	522	294	0.0294	253	0.0253	24	0.0024
00-015-078	1388 276	22	15	100	160	0.0160	99	0.0099	17	0.0017
00-015-079	1388 276	22	5	66	181	0.0181	112	0.0112	19	0.0019

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-015  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : I0021532  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021532

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-015-080	1388 276	196	90	382	408	0.0408	365	0.0365	26	0.0026	
00-015-081	1388 276	24	10	116	247	0.0247	141	0.0141	20	0.0020	
00-015-082	1388 276	28	30	116	234	0.0234	132	0.0132	21	0.0021	
00-015-083	1388 294	16	< 5	26	111	0.0111	71	0.0071	16	0.0016	
00-015-084	1388 276	266	75	100	651	0.0651	410	0.0410	24	0.0024	
00-015-085	1388 294	216	60	62	840	0.0840	602	0.0602	29	0.0029	
00-015-086	1388 226	52	45	72	191	0.0191	143	0.0143	15	0.0015	
00-015-087	1388 226	138	< 5	174	516	0.0516	280	0.0280	24	0.0024	
00-015-088	1388 226	40	20	112	199	0.0199	119	0.0119	23	0.0023	
00-015-089	1388 276	38	45	182	197	0.0197	137	0.0137	17	0.0017	
00-015-090	1388 276	24	25	106	103	0.0103	82	0.0082	11	0.0011	
00-015-091	1388 294	30	55	152	182	0.0182	143	0.0143	20	0.0020	
00-015-092	1388 294	36	50	116	212	0.0212	154	0.0154	21	0.0021	
00-015-093	1388 294	10	10	44	66	0.0066	88	0.0088	19	0.0019	
00-015-094	1388 294	8	< 5	46	52	0.0052	71	0.0071	14	0.0014	
00-015-095	1388 276	8	10	44	83	0.0083	72	0.0072	17	0.0017	
00-015-096	1388 294	16	20	92	159	0.0159	123	0.0123	19	0.0019	
00-015-097	1388 294	14	20	66	141	0.0141	97	0.0097	15	0.0015	
00-015-098	1388 294	12	20	134	94	0.0094	79	0.0079	13	0.0013	
00-015-099	1388 294	12	10	78	77	0.0077	80	0.0080	14	0.0014	
00-015-100	1388 226	12	35	176	114	0.0114	122	0.0122	21	0.0021	
00-015-101	1388 294	8	20	88	109	0.0109	120	0.0120	20	0.0020	
00-015-102	1388 276	10	< 5	62	80	0.0080	111	0.0111	20	0.0020	
00-015-103	1388 276	8	25	126	77	0.0077	123	0.0123	19	0.0019	
00-015-104	1388 276	6	10	48	66	0.0066	90	0.0090	15	0.0015	
00-015-105	1388 276	8	20	72	125	0.0125	119	0.0119	24	0.0024	
015-STA-191	214 238	240	260	3390	1215	0.1215	1030	0.1030	42	0.0042	

CERTIFICATION: 





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020492

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020492**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-019  
 P.O.#:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 21-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	75	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	5	4-7 Kg crush and split
276	69	8-12 Kg crush and split
3202	76	Rock - save entire reject
238	76	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	76	Au ppb: FA ICP package	FA-ICP	2	10000
976	76	Pt ppb: FA ICP package	FA-ICP	5	10000
977	76	Pd ppb: FA ICP package	FA-ICP	2	10000
2	76	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	76	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	76	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	76	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	76	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	76	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

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 P7B 5J9

Project : 00-019  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 21-JUN-2000  
 Invoice No. : I0020492  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020492

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-019-001	1388 276	4	15	112	22	0.0022	120	0.0120	36	0.0036
00-019-002	1388 276	6	< 5	112	53	0.0053	94	0.0094	26	0.0026
00-019-003	1388 294	< 2	< 5	8	70	0.0070	80	0.0080	15	0.0015
00-019-004	1388 294	4	< 5	4	105	0.0105	57	0.0057	16	0.0016
00-019-005	1388 276	2	< 5	8	118	0.0118	34	0.0034	20	0.0020
00-019-006	1388 276	< 2	< 5	12	57	0.0057	29	0.0029	20	0.0020
00-019-007	1388 276	< 2	< 5	< 2	62	0.0062	25	0.0025	16	0.0016
00-019-008	1388 276	< 2	< 5	8	78	0.0078	34	0.0034	22	0.0022
00-019-009	1388 276	< 2	< 5	10	74	0.0074	29	0.0029	19	0.0019
00-019-010	1388 276	< 2	< 5	8	83	0.0083	32	0.0032	20	0.0020
00-019-011	1388 276	6	< 5	12	230	0.0230	69	0.0069	50	0.0050
00-019-012	1388 276	2	< 5	10	87	0.0087	28	0.0028	16	0.0016
00-019-013	1388 276	< 2	< 5	2	108	0.0108	32	0.0032	22	0.0022
00-019-014	1388 276	2	< 5	< 2	73	0.0073	33	0.0033	19	0.0019
00-019-015	1388 276	< 2	< 5	4	71	0.0071	38	0.0038	22	0.0022
00-019-016	1388 276	4	< 5	10	211	0.0211	49	0.0049	24	0.0024
00-019-017	1388 276	6	< 5	6	169	0.0169	40	0.0040	30	0.0030
00-019-018	1388 276	< 2	< 5	4	100	0.0100	33	0.0033	17	0.0017
00-019-019	1388 276	6	< 5	4	230	0.0230	38	0.0038	22	0.0022
00-019-020	1388 276	< 2	< 5	6	88	0.0088	39	0.0039	21	0.0021
00-019-021	1388 276	4	< 5	8	225	0.0225	43	0.0043	22	0.0022
00-019-022	1388 276	6	< 5	8	229	0.0229	49	0.0049	38	0.0038
00-019-023	1388 276	4	< 5	6	152	0.0152	35	0.0035	20	0.0020
00-019-024	1388 276	2	< 5	8	113	0.0113	45	0.0045	16	0.0016
00-019-025	1388 276	< 2	< 5	10	99	0.0099	40	0.0040	16	0.0016
00-019-026	1388 276	< 2	< 5	6	102	0.0102	43	0.0043	16	0.0016
00-019-027	1388 276	2	< 5	10	99	0.0099	42	0.0042	17	0.0017
00-019-028	1388 276	4	< 5	12	91	0.0091	45	0.0045	15	0.0015
00-019-029	1388 276	2	< 5	12	92	0.0092	45	0.0045	18	0.0018
00-019-030	1388 276	< 2	< 5	12	63	0.0063	59	0.0059	26	0.0026
00-019-031	1388 276	2	< 5	10	89	0.0089	45	0.0045	18	0.0018
00-019-032	1388 276	4	< 5	12	89	0.0089	41	0.0041	15	0.0015
00-019-033	1388 3202	2	< 5	12	77	0.0077	40	0.0040	16	0.0016
00-019-034	1388 294	2	< 5	14	82	0.0082	42	0.0042	16	0.0016
00-019-035	1388 276	4	< 5	12	80	0.0080	46	0.0046	16	0.0016
00-019-036	1388 276	2	< 5	14	73	0.0073	45	0.0045	17	0.0017
00-019-037	1388 276	4	< 5	60	122	0.0122	52	0.0052	19	0.0019
00-019-038	1388 276	2	< 5	14	70	0.0070	47	0.0047	16	0.0016
00-019-039	1388 276	10	< 5	14	92	0.0092	55	0.0055	19	0.0019
00-019-040	1388 276	< 2	< 5	18	68	0.0068	44	0.0044	16	0.0016

CERTIFICATION: 



# ALS Chemex

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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-019  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 21-JUN-2000  
 Invoice No. : I0020492  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020492

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-019-041	1388 276	2	< 5	14	59	0.0059	41	0.0041	15	0.0015
00-019-042	1388 276	< 2	< 5	14	55	0.0055	44	0.0044	15	0.0015
00-019-043	1388 276	< 2	< 5	30	47	0.0047	42	0.0042	15	0.0015
00-019-044	1388 276	< 2	< 5	16	58	0.0058	43	0.0043	14	0.0014
00-019-045	1388 276	8	< 5	14	57	0.0057	45	0.0045	15	0.0015
00-019-046	1388 276	< 2	< 5	14	59	0.0059	48	0.0048	17	0.0017
00-019-047	1388 276	2	< 5	16	68	0.0068	54	0.0054	17	0.0017
00-019-048	1388 276	4	< 5	12	73	0.0073	40	0.0040	12	0.0012
00-019-049	1388 294	10	30	168	185	0.0185	144	0.0144	36	0.0036
00-019-050	1388 294	4	30	196	68	0.0068	133	0.0133	31	0.0031
00-019-051	1388 276	12	20	196	51	0.0051	114	0.0114	24	0.0024
00-019-052	1388 276	4	30	138	29	0.0029	86	0.0086	17	0.0017
00-019-053	1388 276	12	40	756	19	0.0019	81	0.0081	14	0.0014
00-019-054	1388 276	16	85	910	44	0.0044	76	0.0076	16	0.0016
00-019-055	1388 276	16	10	84	38	0.0038	57	0.0057	11	0.0011
00-019-056	1388 276	48	20	106	38	0.0038	60	0.0060	12	0.0012
00-019-057	1388 276	38	155	2150	95	0.0095	73	0.0073	12	0.0012
00-019-058	1388 276	44	95	2720	103	0.0103	84	0.0084	14	0.0014
00-019-059	1388 276	12	25	266	48	0.0048	55	0.0055	10	0.0010
00-019-060	1388 276	20	145	1885	71	0.0071	66	0.0066	14	0.0014
00-019-061	1388 276	4	15	188	27	0.0027	79	0.0079	14	0.0014
00-019-062	1388 276	14	95	1195	63	0.0063	85	0.0085	18	0.0018
00-019-063	1388 276	50	185	2180	51	0.0051	114	0.0114	15	0.0015
00-019-064	1388 276	288	75	414	752	0.0752	770	0.0770	24	0.0024
00-019-065	1388 276	156	60	360	634	0.0634	785	0.0785	27	0.0027
00-019-066	1388 276	48	35	170	132	0.0132	150	0.0150	16	0.0016
00-019-067	1388 276	22	35	326	82	0.0082	102	0.0102	22	0.0022
00-019-068	1388 276	14	50	450	49	0.0049	116	0.0116	19	0.0019
00-019-069	1388 276	8	55	442	28	0.0028	131	0.0131	17	0.0017
00-019-070	1388 276	16	55	314	64	0.0064	107	0.0107	17	0.0017
00-019-071	1388 276	4	20	88	26	0.0026	80	0.0080	13	0.0013
00-019-072	1388 276	2	25	100	18	0.0018	78	0.0078	11	0.0011
00-019-073	1388 276	24	85	530	85	0.0085	130	0.0130	14	0.0014
00-019-074	1388 276	24	50	254	82	0.0082	120	0.0120	16	0.0016
00-019-075	1388 276	22	45	236	129	0.0129	155	0.0155	22	0.0022
019-STA-162	2143202	360	320	3590	1265	0.1265	1050	0.1050	42	0.0042

CERTIFICATION: \_\_\_\_\_



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

RECEIVED  
JUL 27 2000

## Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

Monday, July 24, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 23-Jun-00  
Date Completed : 26-Jun-00  
Job # 200040435  
Reference : 00-027  
Sample #: 85      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15896	00-027-1	< 0.005	0.029	< 0.01			0.002	0.010		0.005		
15897	00-027-2	< 0.005	0.024	< 0.01			0.001	0.002		0.003		
15898	00-027-3	< 0.005	0.031	0.012			0.002	0.012		0.004		
15899	00-027-4	0.006	0.047	0.013			0.003	0.016		0.003		
15900	00-027-5	< 0.005	0.044	< 0.01			0.003	0.007		0.002		
15901	00-027-6	< 0.005	< 0.015	< 0.01			0.002	0.008		0.002		
15902	00-027-7	< 0.005	< 0.015	< 0.01			0.003	0.032		0.002		
15903	00-027-8	< 0.005	0.018	< 0.01			0.001	0.008		0.003		
15904	00-027-9	< 0.005	0.046	< 0.01			0.002	0.008		0.003		
15905	00-027-10	< 0.005	0.020	< 0.01			0.001	0.010		0.003		
15906	Check 00-027-10	< 0.005	0.021	< 0.01			0.001	0.010		0.003		
15907	00-027-11	< 0.005	0.037	< 0.01			0.001	0.018		0.003		
15908	00-027-12	< 0.005	0.045	0.010			0.002	0.010		0.004		
15909	00-027-13	< 0.005	0.028	0.013			0.003	0.015		0.004		
15910	00-027-14	< 0.005	0.027	< 0.01			0.002	0.009		0.004		
15911	00-027-15	< 0.005	0.031	< 0.01			0.002	0.005		0.004		
15912	00-027-16	< 0.005	0.033	< 0.01			0.002	0.006		0.004		
15913	00-027-17	< 0.005	0.030	< 0.01			0.003	0.010		0.005		
15914	00-027-18	< 0.005	0.021	0.011			0.003	0.008		0.005		
15915	00-027-19	< 0.005	0.022	0.014			0.002	0.006		0.004		
15916	00-027-20	< 0.005	< 0.015	< 0.01			0.003	0.007		0.005		
15917	Check 00-027-20	< 0.005	0.017	0.012			0.002	0.007		0.005		
15918	00-027-21	< 0.005	0.025	0.022			0.002	0.007		0.005		
15919	00-027-22	< 0.005	< 0.015	< 0.01			0.002	0.006		0.005		

PROCEDURE CODES AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

JUL 27 2000

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G5  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Monday, July 24, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 23-Jun-00  
Date Completed : 26-Jun-00  
Job # 200040435  
Reference : 00-027  
Sample #: 85 Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15920	00-027-23	< 0.005	< 0.015	0.017			0.002	0.006		0.005		
15921	00-027-24	< 0.005	< 0.015	0.026			0.002	0.006		0.005		
15922	00-027-25	< 0.005	< 0.015	0.016			0.002	0.007		0.006		
15923	00-027-26	< 0.005	< 0.015	0.024			0.002	0.007		0.005		
15924	00-027-27	< 0.005	< 0.015	0.018			0.002	0.006		0.005		
15925	00-027-28	< 0.005	< 0.015	0.015			0.002	0.006		0.005		
15926	00-027-29	< 0.005	< 0.015	0.031			0.002	0.006		0.005		
15927	00-027-30	< 0.005	< 0.015	0.013			0.002	0.005		0.005		
15928	Check 00-027-30	< 0.005	< 0.015	0.018			0.002	0.006		0.005		
15929	00-027-31	< 0.005	0.017	0.025			0.002	0.006		0.005		
15930	00-027-32	< 0.005	0.019	0.033			0.002	0.005		0.005		
15931	00-027-33	0.023	0.023	0.065			0.003	0.035		0.017		
15932	00-027-34	< 0.005	0.070	0.586			0.003	0.004		0.011		
15933	00-027-35	< 0.005	0.030	0.118			0.002	0.003		0.006		
15934	00-027-36	< 0.005	0.052	0.114			0.002	0.002		0.007		
15935	00-027-37	0.008	0.042	0.342			0.002	0.002		0.008		
15936	00-027-38	< 0.005	0.024	0.040			0.002	0.008		0.007		
15937	00-027-39	< 0.005	0.043	0.108			0.002	0.002		0.009		
15938	00-027-40	< 0.005	0.053	0.101			0.002	<0.001		0.009		
15939	Check 00-027-40	< 0.005	0.050	0.092			0.002	0.001		0.009		
15940	00-027-41	< 0.005	0.050	0.153			0.002	0.001		0.009		
15941	00-027-42	< 0.005	< 0.015	0.012			0.002	0.008		0.008		
15942	00-027-43	0.203	0.497	9.419			0.004	0.011		0.025		
15943	00-027-44	0.029	0.324	3.584			0.002	0.001		0.014		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

RECEIVED  
JUL 27 2000

## Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
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Monday, July 24, 2000

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Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 23-Jun-00  
Date Completed : 26-Jun-00  
Job # 200040435  
Reference : 00-027  
Sample #: 85      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15944	00-027-45	0.018	0.188	1.918			0.002	0.003		0.013		
15945	00-027-46	0.012	0.175	2.207			0.002	0.003		0.010		
15946	00-027-47	0.021	0.219	3.274			0.002	0.003		0.011		
15947	00-027-48	0.172	0.173	1.560			0.002	0.009		0.012		
15948	00-027-49	0.043	0.067	0.316			0.002	0.010		0.012		
15949	00-027-50	0.075	0.123	0.144			0.002	0.037		0.031		
15950	Check 00-027-50	0.076	0.119	0.128			0.002	0.037		0.031		
15951	00-027-51	0.042	0.123	0.231			0.002	0.013		0.012		
15952	00-027-52	0.023	0.081	0.502			0.002	0.004		0.011		
15953	00-027-53	0.015	0.052	0.256			0.002	0.006		0.011		
15954	00-027-54	0.016	0.054	0.349			0.002	0.005		0.011		
15955	00-027-55	0.016	0.079	0.350			0.002	0.007		0.011		
15956	00-027-56	0.014	0.121	0.630			0.002	0.006		0.010		
15957	00-027-57	0.019	0.117	1.167			0.002	0.011		0.011		
15958	00-027-58	< 0.005	0.061	0.205			0.002	0.003		0.007		
15959	00-027-59	0.009	0.097	0.575			0.002	0.008		0.009		
15960	00-027-60	0.011	0.048	0.188			0.002	0.008		0.010		
15961	Check 00-027-60	0.012	0.049	0.146			0.002	0.010		0.011		
15962	00-027-61	< 0.005	0.087	0.307			0.003	0.003		0.015		
15963	00-027-62	0.025	0.101	0.551			0.003	0.018		0.017		
15964	00-027-63	0.052	0.276	1.792			0.003	0.010		0.014		
15965	00-027-64	0.041	0.071	0.512			0.004	0.033		0.018		
15966	00-027-65	0.033	0.044	0.327			0.003	0.017		0.014		
15967	00-027-66	0.020	< 0.015	0.127			0.003	0.021		0.011		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

RECEIVED  
JUL 27 2000

## Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

Monday, July 24, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P. O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 23-Jun-00  
Date Completed : 26-Jun-00  
Job # 200040435  
Reference : 00-027  
Sample #: 85 Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15968	00-027-67	0.022	0.039	0.174			0.003	0.028		0.019		
15969	00-027-68	0.028	0.022	0.162			0.002	0.020		0.013		
15970	00-027-69	0.022	0.072	0.272			0.003	0.017		0.016		
15971	00-027-70	0.038	0.080	0.349			0.003	0.021		0.015		
15972	Check 00-027-70	0.034	0.079	0.358			0.003	0.021		0.016		
15973	00-027-71	0.034	0.091	0.394			0.003	0.023		0.016		
15974	00-027-72	< 0.005	0.052	0.256			0.003	0.005		0.013		
15975	00-027-73	< 0.005	0.050	0.098			0.002	0.004		0.009		
15976	00-027-74	< 0.005	0.057	0.182			0.003	0.005		0.011		
15977	00-027-75	< 0.005	0.091	0.426			0.002	0.002		0.010		
15978	00-027-76	< 0.005	0.050	0.081			0.002	<0.001		0.009		
15979	00-027-77	0.006	0.060	0.887			0.002	0.006		0.011		
15980	00-027-78	0.414	0.247	1.039			0.003	0.046		0.036		
15981	00-027-79	0.197	0.084	0.116			0.004	0.043		0.043		
15982	00-027-80	0.128	0.091	0.359			0.004	0.043		0.031		
15983	Check 00-027-80	0.092	0.104	0.339			0.004	0.040		0.029		
15984	00-027-81	0.170	0.091	0.343			0.006	0.146		0.113		
15985	00-027-82	0.082	0.044	0.119			0.003	0.055		0.035		
15986	00-027-83	0.033	0.033	0.089			0.003	0.035		0.026		
15987	00-027-84	0.119	0.068	0.057			0.003	0.055		0.036		
15988	027-STA-192	0.319	0.299	3.069			0.005	0.121		0.109		

PROCEDURE CODES: AL4APP, AL4So, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

RECEIVED  
JUL 27 2000

## Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

Monday, July 03, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 26-Jun-00  
Date Completed : 30-Jun-00  
Job # 200040454  
Reference : 00-027 eoh  
Sample #: 12      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16199	00-027-85	0.114	0.097	0.061			0.003	0.043		0.036		
16200	00-027-86	0.160	0.100	0.113			0.004	0.091		0.063		
16201	00-027-87	0.047	0.062	0.021			0.002	0.020		0.016		
16202	00-027-88	0.038	0.078	0.055			0.002	0.016		0.013		
16203	00-027-89	0.015	0.058	0.063			0.002	0.008		0.010		
16204	00-027-90	0.020	0.082	0.089			0.002	0.010		0.010		
16205	00-027-91	0.043	0.104	0.150			0.002	0.016		0.016		
16206	00-027-92	0.020	0.018	0.058			0.002	0.013		0.013		
16207	00-027-93	0.009	< 0.015	0.042			0.002	0.007		0.009		
16208	00-027-94	0.012	< 0.015	0.044			0.002	0.010		0.009		
16209	Check 00-027-94	0.014	< 0.015	0.052			0.002	0.009		0.010		
16210	00-027-95	0.012	0.027	0.032			0.002	0.006		0.008		
16211	027-STA-202	0.249	0.346	3.442			0.005	0.123		0.112		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Page 1 of 1

Certified By:





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

RECEIVED  
 JUL 19 2000

A0021686

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021686

(MZI) - LAC DES ILES MINES LTD.

Project: 00-033  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 05-JUL-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	42	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	5	0-3 Kg crush and split
294	19	4-7 Kg crush and split
276	18	8-12 Kg crush and split
3202	42	Rock - save entire reject
238	43	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	43	Au ppb: FA ICP package	FA-ICP	2	10000
976	43	Pt ppb: FA ICP package	FA-ICP	5	10000
977	43	Pd ppb: FA ICP package	FA-ICP	2	10000
2	43	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	43	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	43	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	43	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	43	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	43	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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 JUL 19 2000

Page Number :1  
 Total Pages :2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : I0021686  
 P.O. Number :  
 Account : MZI

Project : 00-033  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021686

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-033-001	1388 294	< 2	< 5	6	93	0.0093	40	0.0040	15	0.0015
00-033-002	1388 294	< 2	< 5	8	100	0.0100	39	0.0039	17	0.0017
00-033-003	1388 226	< 2	< 5	4	77	0.0077	24	0.0024	19	0.0019
00-033-004	1388 276	< 2	< 5	8	98	0.0098	41	0.0041	15	0.0015
00-033-005	1388 276	< 2	< 5	12	93	0.0093	42	0.0042	17	0.0017
00-033-006	1388 276	< 2	< 5	10	75	0.0075	33	0.0033	13	0.0013
00-033-007	1388 276	< 2	< 5	10	50	0.0050	29	0.0029	11	0.0011
00-033-008	1388 276	< 2	< 5	12	66	0.0066	33	0.0033	13	0.0013
00-033-009	1388 276	< 2	< 5	14	86	0.0086	50	0.0050	17	0.0017
00-033-010	1388 276	< 2	< 5	12	84	0.0084	49	0.0049	20	0.0020
00-033-011	1388 276	< 2	< 5	10	111	0.0111	53	0.0053	20	0.0020
00-033-012	1388 276	2	< 5	12	72	0.0072	47	0.0047	17	0.0017
00-033-013	1388 276	< 2	< 5	14	70	0.0070	46	0.0046	17	0.0017
00-033-014	1388 276	< 2	< 5	16	56	0.0056	38	0.0038	13	0.0013
00-033-015	1388 226	< 2	< 5	10	87	0.0087	30	0.0030	20	0.0020
00-033-016	1388 294	< 2	< 5	18	63	0.0063	43	0.0043	16	0.0016
00-033-017	1388 276	< 2	< 5	14	46	0.0046	38	0.0038	13	0.0013
00-033-018	1388 276	< 2	< 5	16	49	0.0049	37	0.0037	12	0.0012
00-033-019	1388 276	< 2	< 5	16	45	0.0045	35	0.0035	11	0.0011
00-033-020	1388 276	< 2	< 5	18	57	0.0057	39	0.0039	14	0.0014
00-033-021	1388 294	< 2	< 5	18	81	0.0081	54	0.0054	18	0.0018
00-033-022	1388 226	14	15	164	155	0.0155	93	0.0093	25	0.0025
00-033-023	1388 226	4	< 5	100	29	0.0029	72	0.0072	17	0.0017
00-033-024	1388 294	< 2	30	204	26	0.0026	106	0.0106	23	0.0023
00-033-025	1388 294	2	25	122	19	0.0019	71	0.0071	13	0.0013
00-033-026	1388 294	14	10	294	22	0.0022	72	0.0072	13	0.0013
00-033-027	1388 294	< 2	15	72	25	0.0025	86	0.0086	15	0.0015
00-033-028	1388 294	6	15	128	84	0.0084	109	0.0109	21	0.0021
00-033-029	1388 294	20	85	1450	62	0.0062	90	0.0090	19	0.0019
00-033-030	1388 294	16	80	1820	70	0.0070	169	0.0169	28	0.0028
00-033-031	1388 294	26	235	3700	101	0.0101	121	0.0121	20	0.0020
00-033-032	1388 294	8	95	1225	25	0.0025	73	0.0073	11	0.0011
00-033-033	1388 294	124	410	6010	52	0.0052	97	0.0097	10	0.0010
00-033-034	1388 294	160	195	1060	414	0.0414	483	0.0483	26	0.0026
00-033-035	1388 294	116	50	316	288	0.0288	222	0.0222	18	0.0018
00-033-036	1388 294	16	15	98	89	0.0089	66	0.0066	13	0.0013
00-033-037	1388 294	22	10	202	110	0.0110	91	0.0091	17	0.0017
00-033-038	1388 294	16	25	126	51	0.0051	67	0.0067	12	0.0012
00-033-039	1388 276	32	40	302	118	0.0118	118	0.0118	17	0.0017
00-033-040	1388 276	14	5	142	139	0.0139	122	0.0122	23	0.0023

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-033  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : 10021686  
 P.O. Number :  
 Account : MZI

<b>CERTIFICATE OF ANALYSIS</b>	<b>A0021686</b>
--------------------------------	-----------------

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-033-041	1388 276	16	15	114	139	0.0139	92	0.0092	22	0.0022
00-033-042	1388 226	4	25	152	39	0.0039	96	0.0096	18	0.0018
033-STA-203	214 238	294	320	3380	1210	0.1210	1150	0.1150	44	0.0044

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

RECEIVED  
 JUL 19 2000

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 10-JUL-2000  
 Invoice No. : I0022164  
 P.O. Number :  
 Account : MZI

Project : 00-033  
 Comments: ATTN: MOE LAVIGNE

CERTIFICATE OF ANALYSIS A0022164

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-033-043	1388 294	20	< 5	14	144	0.0144	26	0.0026	20	0.0020
00-033-044	1388 226	16	10	114	173	0.0173	93	0.0093	27	0.0027
00-033-045	1388 294	24	20	122	172	0.0172	77	0.0077	18	0.0018
00-033-046	1388 226	8	< 5	34	90	0.0090	77	0.0077	21	0.0021
00-033-047	1388 226	22	15	146	175	0.0175	143	0.0143	25	0.0025
00-033-048	1388 294	18	10	106	115	0.0115	98	0.0098	17	0.0017
00-033-049	1388 226	8	5	86	44	0.0044	76	0.0076	14	0.0014
00-033-050	1388 226	4	5	10	59	0.0059	157	0.0157	20	0.0020
00-033-051	1388 226	4	10	62	43	0.0043	72	0.0072	12	0.0012
00-033-052	1388 294	10	< 5	12	137	0.0137	35	0.0035	24	0.0024
00-033-053	1388 294	6	10	80	37	0.0037	59	0.0059	10	0.0010
00-033-054	1388 276	8	10	56	34	0.0034	60	0.0060	10	0.0010
00-033-055	1388 276	36	75	514	204	0.0204	157	0.0157	17	0.0017
00-033-056	1388 276	18	45	278	94	0.0094	120	0.0120	15	0.0015
00-033-057	1388 294	4	20	114	48	0.0048	88	0.0088	13	0.0013
00-033-058	1388 276	8	25	250	56	0.0056	95	0.0095	16	0.0016
00-033-059	1388 276	18	35	220	84	0.0084	108	0.0108	16	0.0016
00-033-060	1388 276	10	35	178	61	0.0061	101	0.0101	14	0.0014
00-033-061	1388 294	72	40	236	417	0.0417	316	0.0316	41	0.0041
00-033-062	1388 294	44	35	266	369	0.0369	260	0.0260	28	0.0028
00-033-063	1388 276	24	45	450	137	0.0137	118	0.0118	14	0.0014
00-033-064	1388 226	24	35	616	116	0.0116	113	0.0113	14	0.0014
00-033-065	1388 226	18	< 5	46	163	0.0163	95	0.0095	19	0.0019
00-033-066	1388 276	32	70	342	161	0.0161	125	0.0125	19	0.0019
00-033-067	1388 276	22	65	708	52	0.0052	132	0.0132	15	0.0015
00-033-068	1388 276	170	110	468	299	0.0299	331	0.0331	23	0.0023
00-033-069	1388 276	46	10	30	281	0.0281	260	0.0260	19	0.0019
00-033-070	1388 276	80	20	54	332	0.0332	233	0.0233	22	0.0022
00-033-071	1388 276	94	35	90	365	0.0365	279	0.0279	24	0.0024
00-033-072	1388 276	40	20	66	140	0.0140	99	0.0099	12	0.0012
00-033-073	1388 294	18	20	80	136	0.0136	103	0.0103	16	0.0016
00-033-074	1388 226	18	10	64	134	0.0134	99	0.0099	13	0.0013
00-033-075	1388 294	22	20	120	159	0.0159	114	0.0114	13	0.0013
00-033-076	1388 276	24	20	68	239	0.0239	190	0.0190	31	0.0031
00-033-077	1388 276	14	10	56	97	0.0097	97	0.0097	13	0.0013
00-033-078	1388 276	10	5	42	113	0.0113	92	0.0092	15	0.0015
00-033-079	1388 276	8	< 5	30	73	0.0073	66	0.0066	11	0.0011
00-033-080	1388 276	14	10	64	157	0.0157	119	0.0119	18	0.0018
00-033-081	1388 276	12	< 5	32	96	0.0096	82	0.0082	13	0.0013
00-033-082	1388 276	16	15	114	168	0.0168	130	0.0130	16	0.0016

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

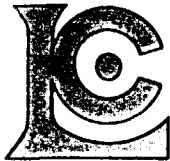
Project : 00-033  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 10-JUL-2000  
 Invoice No. : I0022164  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0022164

SAMPLE	PREP CODE		Au ppb	Pt ppb	Pd ppb	Cu	Cu %	Ni	Ni %	Co	Co %	
			ICP	ICP	ICP	ppm	calc.	ppm	calc.	ppm	calc.	
00-033-083	1388	276	14	30	198	185	0.0185	170	0.0170	31	0.0031	
00-033-084	1388	276	4	15	98	32	0.0032	86	0.0086	17	0.0017	
00-033-085	1388	276	6	15	102	41	0.0041	94	0.0094	17	0.0017	
00-033-086	1388	276	6	25	98	68	0.0068	157	0.0157	21	0.0021	
00-033-087	1388	276	8	45	146	121	0.0121	238	0.0238	25	0.0025	
00-033-088	1388	294	6	60	236	48	0.0048	127	0.0127	17	0.0017	
00-033-089	1388	294	6	40	162	87	0.0087	152	0.0152	17	0.0017	
00-033-090	1388	276	< 2	< 5	4	13	0.0013	10	0.0010	4	0.0004	
00-033-091	1388	276	2	< 5	6	26	0.0026	18	0.0018	7	0.0007	
00-033-092	1388	276	6	< 5	< 2	16	0.0016	7	0.0007	6	0.0006	
00-033-093	1388	276	< 2	< 5	< 2	17	0.0017	12	0.0012	11	0.0011	
00-033-094	1388	294	< 2	< 5	< 2	20	0.0020	10	0.0010	9	0.0009	
00-033-095	1388	294	< 2	< 5	< 2	6	0.0006	18	0.0018	14	0.0014	
00-033-096	1388	294	< 2	< 5	< 2	11	0.0011	8	0.0008	8	0.0008	
00-033-097	1388	276	< 2	< 5	2	7	0.0007	4	0.0004	7	0.0007	
00-033-098	1388	276	< 2	< 5	2	5	0.0005	5	0.0005	6	0.0006	
00-033-099	1388	276	< 2	< 5	2	15	0.0015	5	0.0005	6	0.0006	
00-033-100	1388	276	2	< 5	< 2	13	0.0013	5	0.0005	6	0.0006	
00-033-101	1388	276	2	< 5	< 2	70	0.0070	9	0.0009	9	0.0009	
00-033-102	1388	276	< 2	< 5	2	46	0.0046	5	0.0005	4	0.0004	
033-STA-214	214	238	278	315	3270	1190	0.1190	1095	0.1095	39	0.0039	

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0019170

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0019170**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-062  
 P.O. #:

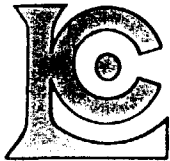
Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 29-MAY-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	102	Ring 600 g to approx -150 mesh
214	2	Rcvd as pulp; mesh size checked
294	41	4-7 Kg crush and split
276	61	8-12 Kg crush and split
3202	102	Rock - save entire reject
238	104	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	104	Au ppb: FA ICP package	FA-ICP	2	10000
976	104	Pt ppb: FA ICP package	FA-ICP	5	10000
977	104	Pd ppb: FA ICP package	FA-ICP	2	10000
2	104	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	104	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	104	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	104	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	104	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	104	Co %: calculation from Co ppm	AAS	0.0001	10.000



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P.O. BOX 3386  
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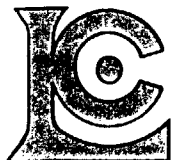
Project : 00-062  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 29-MAY-2000  
 Invoice No. : 10019170  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019170

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
062-STA-150	214	238	180	° 195	2990	1425	0.1425	1260	0.1260	47	0.0047
00-062-001	1388	294	< 2	< 5	16	50	0.0050	54	0.0054	18	0.0018
00-062-002	1388	294	< 2	< 5	14	43	0.0043	41	0.0041	12	0.0012
00-062-003	1388	294	< 2	< 5	< 2	159	0.0159	41	0.0041	24	0.0024
00-062-004	1388	276	8	< 5	< 2	189	0.0189	44	0.0044	34	0.0034
00-062-005	1388	294	< 2	< 5	14	140	0.0140	48	0.0048	27	0.0027
00-062-006	1388	276	< 2	< 5	98	96	0.0096	65	0.0065	15	0.0015
00-062-007	1388	294	< 2	5	124	33	0.0033	34	0.0034	5	0.0005
00-062-008	1388	294	< 2	20	302	49	0.0049	70	0.0070	10	0.0010
00-062-009	1388	276	< 2	50	636	57	0.0057	96	0.0096	10	0.0010
00-062-010	1388	294	4	35	512	106	0.0106	121	0.0121	12	0.0012
00-062-011	1388	294	28	110	1320	226	0.0226	301	0.0301	21	0.0021
00-062-012	1388	276	142	270	2410	914	0.0914	811	0.0811	65	0.0065
00-062-013	1388	276	72	170	1370	544	0.0544	431	0.0431	44	0.0044
00-062-014	1388	276	64	115	752	449	0.0449	296	0.0296	33	0.0033
00-062-015	1388	294	28	70	766	275	0.0275	245	0.0245	28	0.0028
00-062-016	1388	294	10	35	366	113	0.0113	145	0.0145	21	0.0021
00-062-017	1388	276	8	40	412	134	0.0134	145	0.0145	23	0.0023
00-062-018	1388	276	22	105	1275	223	0.0223	297	0.0297	26	0.0026
00-062-019	1388	276	20	70	786	208	0.0208	265	0.0265	33	0.0033
00-062-020	1388	276	40	110	994	298	0.0298	370	0.0370	28	0.0028
00-062-021	1388	276	22	80	860	146	0.0146	290	0.0290	23	0.0023
00-062-022	1388	276	70	85	454	507	0.0507	555	0.0555	37	0.0037
00-062-023	1388	276	330	245	980	1585	0.1585	1415	0.1415	65	0.0065
00-062-024	1388	276	134	160	1090	1025	0.1025	720	0.0720	47	0.0047
00-062-025	1388	294	124	360	4780	806	0.0806	592	0.0592	48	0.0048
00-062-026	1388	276	80	195	2030	1090	0.1090	667	0.0667	55	0.0055
00-062-027	1388	276	36	90	978	426	0.0426	332	0.0332	39	0.0039
00-062-028	1388	276	4	5	156	89	0.0089	117	0.0117	28	0.0028
00-062-029	1388	276	4	5	76	137	0.0137	110	0.0110	30	0.0030
00-062-030	1388	276	< 2	< 5	26	101	0.0101	97	0.0097	31	0.0031
00-062-031	1388	276	8	40	284	184	0.0184	116	0.0116	23	0.0023
00-062-032	1388	276	4	40	262	155	0.0155	144	0.0144	23	0.0023
00-062-033	1388	294	226	380	2700	981	0.0981	615	0.0615	48	0.0048
00-062-034	1388	294	124	170	1340	575	0.0575	527	0.0527	29	0.0029
00-062-035	1388	294	24	40	302	254	0.0254	211	0.0211	37	0.0037
00-062-036	1388	294	< 2	20	84	83	0.0083	173	0.0173	43	0.0043
00-062-037	1388	294	< 2	10	62	88	0.0088	164	0.0164	45	0.0045
00-062-038	1388	276	4	10	68	98	0.0098	123	0.0123	35	0.0035
00-062-039	1388	276	< 2	30	208	404	0.0404	278	0.0278	74	0.0074

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-062  
 Comments: ATTN: MOE LAVIGNE

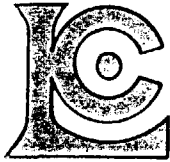
Page Number : 2  
 Total Pages : 3  
 Certificate Date: 29-MAY-2000  
 Invoice No. : 10019170  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019170

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-062-040	1388 276	< 2	35	274	234	0.0234	248	0.0248	49	0.0049
00-062-041	1388 276	4	35	266	168	0.0168	211	0.0211	41	0.0041
00-062-042	1388 276	106	120	880	773	0.0773	526	0.0526	53	0.0053
00-062-043	1388 276	46	50	362	417	0.0417	293	0.0293	48	0.0048
00-062-044	1388 276	12	25	168	135	0.0135	135	0.0135	30	0.0030
00-062-045	1388 276	8	15	88	122	0.0122	139	0.0139	36	0.0036
00-062-046	1388 276	36	50	378	266	0.0266	275	0.0275	47	0.0047
00-062-047	1388 276	6	10	198	155	0.0155	221	0.0221	38	0.0038
00-062-048	1388 276	6	30	90	96	0.0096	129	0.0129	25	0.0025
00-062-049	1388 276	24	50	266	286	0.0286	310	0.0310	46	0.0046
00-062-050	1388 276	4	30	208	240	0.0240	255	0.0255	46	0.0046
00-062-051	1388 276	< 2	20	80	76	0.0076	149	0.0149	30	0.0030
00-062-052	1388 294	8	40	196	81	0.0081	168	0.0168	30	0.0030
00-062-053	1388 276	18	25	186	233	0.0233	186	0.0186	31	0.0031
00-062-054	1388 276	42	30	218	643	0.0643	361	0.0361	42	0.0042
00-062-055	1388 294	26	40	236	610	0.0610	400	0.0400	58	0.0058
00-062-056	1388 276	14	55	318	596	0.0596	516	0.0516	74	0.0074
00-062-057	1388 294	< 2	< 5	46	125	0.0125	149	0.0149	38	0.0038
00-062-058	1388 294	< 2	< 5	30	81	0.0081	129	0.0129	33	0.0033
00-062-059	1388 294	< 2	< 5	14	79	0.0079	98	0.0098	31	0.0031
00-062-060	1388 294	< 2	< 5	18	66	0.0066	125	0.0125	41	0.0041
00-062-061	1388 294	< 2	< 5	32	92	0.0092	143	0.0143	49	0.0049
00-062-062	1388 276	16	65	378	508	0.0508	468	0.0468	82	0.0082
00-062-063	1388 276	16	95	606	672	0.0672	627	0.0627	91	0.0091
00-062-064	1388 276	2	65	400	696	0.0696	437	0.0437	76	0.0076
00-062-065	1388 276	< 2	< 5	50	97	0.0097	189	0.0189	61	0.0061
00-062-066	1388 276	< 2	< 5	46	107	0.0107	183	0.0183	56	0.0056
00-062-067	1388 276	18	75	464	675	0.0675	619	0.0619	90	0.0090
00-062-068	1388 276	4	20	128	242	0.0242	247	0.0247	46	0.0046
00-062-069	1388 276	16	25	176	288	0.0288	240	0.0240	44	0.0044
00-062-070	1388 276	4	10	104	185	0.0185	163	0.0163	32	0.0032
00-062-071	1388 276	10	40	248	433	0.0433	361	0.0361	65	0.0065
00-062-072	1388 276	2	20	128	266	0.0266	224	0.0224	47	0.0047
00-062-073	1388 276	< 2	5	58	123	0.0123	163	0.0163	39	0.0039
00-062-074	1388 276	< 2	< 5	54	127	0.0127	163	0.0163	52	0.0052
00-062-075	1388 276	< 2	25	174	227	0.0227	242	0.0242	61	0.0061
00-062-076	1388 294	< 2	35	226	470	0.0470	366	0.0366	65	0.0065
00-062-077	1388 294	4	195	1815	103	0.0103	354	0.0354	47	0.0047
00-062-078	1388 294	16	480	4600	1050	0.1050	804	0.0804	89	0.0089
00-062-079	1388 294	18	550	4920	211	0.0211	437	0.0437	44	0.0044

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

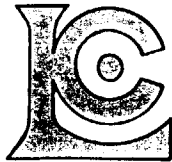
Project : 00-062  
 Comments: ATTN: MOE LAVIGNE

Page Number : 3  
 Total Pages : 3  
 Certificate Date: 29-MAY-2000  
 Invoice No. : 10019170  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019170

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-062-080	1388 294	< 2	45	350	63	0.0063	281	0.0281	40	0.0040
00-062-081	1388 276	< 2	115	862	581	0.0581	489	0.0489	60	0.0060
00-062-082	1388 276	12	125	1025	587	0.0587	605	0.0605	66	0.0066
00-062-083	1388 276	18	150	1100	591	0.0591	548	0.0548	65	0.0065
00-062-084	1388 276	42	500	4170	2160	0.2160	1505	0.1505	107	0.0107
00-062-085	1388 276	< 2	135	990	280	0.0280	443	0.0443	59	0.0059
00-062-086	1388 294	< 2	135	960	402	0.0402	421	0.0421	44	0.0044
00-062-087	1388 294	< 2	125	1075	722	0.0722	442	0.0442	56	0.0056
00-062-088	1388 294	< 2	15	128	16	0.0016	156	0.0156	21	0.0021
00-062-089	1388 276	< 2	< 5	26	11	0.0011	131	0.0131	21	0.0021
00-062-090	1388 276	< 2	< 5	6	10	0.0010	152	0.0152	28	0.0028
00-062-091	1388 276	< 2	40	440	462	0.0462	255	0.0255	55	0.0055
00-062-092	1388 294	< 2	< 5	26	18	0.0018	181	0.0181	30	0.0030
00-062-093	1388 294	< 2	< 5	22	78	0.0078	166	0.0166	36	0.0036
00-062-094	1388 294	< 2	< 5	6	122	0.0122	215	0.0215	40	0.0040
00-062-095	1388 294	6	15	190	385	0.0385	294	0.0294	47	0.0047
00-062-096	1388 276	66	80	776	775	0.0775	573	0.0573	75	0.0075
00-062-097	1388 294	< 2	< 5	14	100	0.0100	187	0.0187	36	0.0036
00-062-098	1388 294	6	< 5	36	128	0.0128	231	0.0231	42	0.0042
00-062-099	1388 294	< 2	< 5	60	159	0.0159	252	0.0252	44	0.0044
00-062-100	1388 294	6	< 5	100	206	0.0206	238	0.0238	43	0.0043
00-062-101	1388 294	< 2	< 5	4	118	0.0118	179	0.0179	33	0.0033
00-062-102	1388 294	2	< 5	24	143	0.0143	209	0.0209	38	0.0038
062-STA-151	214 238	266	310	3340	1275	0.1275	1190	0.1190	40	0.0040

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
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 P7B 5J9

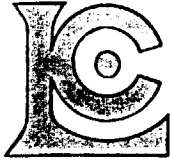
Project: 00-062  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 30-MAY-2000  
 Invoice No. : 10019177  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019177

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-062-103	1388 276	8	5	66	136	0.0136	182	0.0182	35	0.0035
00-062-104	1388 276	10	5	88	170	0.0170	204	0.0204	34	0.0034
00-062-105	1388 276	4	15	150	158	0.0158	197	0.0197	38	0.0038
00-062-106	1388 276	36	30	290	270	0.0270	256	0.0256	37	0.0037
00-062-107	1388 276	8	5	82	161	0.0161	186	0.0186	33	0.0033
00-062-108	1388 276	8	< 5	42	128	0.0128	149	0.0149	24	0.0024
00-062-109	1388 276	4	< 5	10	95	0.0095	143	0.0143	27	0.0027
00-062-110	1388 276	2	< 5	6	119	0.0119	131	0.0131	23	0.0023
00-062-111	1388 276	4	< 5	14	112	0.0112	180	0.0180	29	0.0029
00-062-112	1388 276	2	< 5	10	120	0.0120	148	0.0148	23	0.0023
00-062-113	1388 276	14	15	120	161	0.0161	134	0.0134	17	0.0017
00-062-114	1388 276	4	< 5	6	109	0.0109	141	0.0141	23	0.0023
00-062-115	1388 276	4	< 5	6	84	0.0084	108	0.0108	18	0.0018
00-062-116	1388 276	2	< 5	4	71	0.0071	163	0.0163	30	0.0030
00-062-117	1388 276	< 2	< 5	4	99	0.0099	159	0.0159	30	0.0030
00-062-118	1388 276	16	10	142	172	0.0172	182	0.0182	29	0.0029
00-062-119	1388 276	2	< 5	10	89	0.0089	142	0.0142	28	0.0028
00-062-120	1388 276	2	< 5	26	90	0.0090	153	0.0153	27	0.0027
00-062-121	1388 276	6	< 5	46	105	0.0105	130	0.0130	24	0.0024
00-062-122	1388 276	34	40	344	226	0.0226	214	0.0214	32	0.0032
00-062-123	1388 276	58	45	566	279	0.0279	207	0.0207	22	0.0022
00-062-124	1388 276	30	50	464	203	0.0203	186	0.0186	24	0.0024
00-062-125	1388 276	16	20	214	182	0.0182	162	0.0162	20	0.0020
00-062-126	1388 276	68	80	724	317	0.0317	237	0.0237	28	0.0028
00-062-127	1388 276	248	285	2830	744	0.0744	585	0.0585	36	0.0036
00-062-128	1388 276	86	70	780	288	0.0288	246	0.0246	23	0.0023
00-062-129	1388 276	10	10	138	134	0.0134	144	0.0144	20	0.0020
00-062-130	1388 276	58	30	362	208	0.0208	194	0.0194	27	0.0027
00-062-131	1388 276	22	20	222	181	0.0181	178	0.0178	27	0.0027
00-062-132	1388 276	8	5	64	115	0.0115	177	0.0177	29	0.0029
00-062-133	1388 276	16	20	206	150	0.0150	244	0.0244	38	0.0038
00-062-134	1388 276	6	< 5	38	106	0.0106	201	0.0201	36	0.0036
00-062-135	1388 276	24	15	290	181	0.0181	140	0.0140	13	0.0013
00-062-136	1388 276	90	90	984	432	0.0432	337	0.0337	43	0.0043
00-062-137	1388 276	4	< 5	14	115	0.0115	207	0.0207	38	0.0038
00-062-138	1388 276	2	< 5	12	88	0.0088	184	0.0184	35	0.0035
00-062-139	1388 276	< 2	< 5	8	73	0.0073	151	0.0151	30	0.0030
00-062-140	1388 276	4	< 5	10	88	0.0088	143	0.0143	28	0.0028
00-062-141	1388 276	6	< 5	24	96	0.0096	186	0.0186	34	0.0034
00-062-142	1388 276	4	< 5	8	112	0.0112	191	0.0191	34	0.0034

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

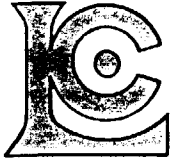
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 Total Pages : 3  
 Certificate Date: 30-MAY-2000  
 Invoice No. : 10019177  
 P.O. Number :  
 Account : MZI

Project : 00-062  
 Comments: ATTN: MOE LAVIGNE

<b>CERTIFICATE OF ANALYSIS</b>	<b>A0019177</b>
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SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-062-143	1388	276	< 2	< 5	8	81	0.0081	112	0.0112	23	0.0023
00-062-144	1388	276	2	< 5	12	86	0.0086	126	0.0126	25	0.0025
00-062-145	1388	276	4	< 5	12	92	0.0092	185	0.0185	35	0.0035
00-062-146	1388	276	6	< 5	22	83	0.0083	198	0.0198	37	0.0037
00-062-147	1388	276	6	< 5	12	125	0.0125	45	0.0045	21	0.0021
00-062-148	1388	276	4	< 5	10	81	0.0081	191	0.0191	37	0.0037
00-062-149	1388	276	< 2	< 5	8	69	0.0069	173	0.0173	35	0.0035
00-062-150	1388	276	< 2	< 5	10	70	0.0070	164	0.0164	33	0.0033
00-062-151	1388	276	2	< 5	8	77	0.0077	176	0.0176	32	0.0032
00-062-152	1388	276	4	< 5	10	80	0.0080	166	0.0166	36	0.0036
00-062-153	1388	276	4	< 5	12	109	0.0109	105	0.0105	11	0.0011
00-062-154	1388	276	6	< 5	6	106	0.0106	100	0.0100	13	0.0013
00-062-155	1388	276	2	< 5	4	103	0.0103	128	0.0128	21	0.0021
00-062-156	1388	276	6	10	96	121	0.0121	194	0.0194	33	0.0033
00-062-157	1388	276	8	10	74	117	0.0117	139	0.0139	20	0.0020
00-062-158	1388	276	6	5	48	118	0.0118	105	0.0105	16	0.0016
00-062-159	1388	276	4	< 5	10	100	0.0100	101	0.0101	11	0.0011
00-062-160	1388	276	6	< 5	6	115	0.0115	143	0.0143	25	0.0025
00-062-161	1388	276	6	< 5	10	123	0.0123	148	0.0148	24	0.0024
00-062-162	1388	276	4	< 5	18	98	0.0098	164	0.0164	30	0.0030
00-062-163	1388	276	6	< 5	36	115	0.0115	213	0.0213	40	0.0040
00-062-164	1388	276	18	15	162	134	0.0134	227	0.0227	38	0.0038
00-062-165	1388	276	90	150	1160	989	0.0989	624	0.0624	67	0.0067
00-062-166	1388	276	58	65	610	458	0.0458	308	0.0308	45	0.0045
00-062-167	1388	276	10	15	166	103	0.0103	202	0.0202	38	0.0038
00-062-168	1388	276	10	5	104	92	0.0092	196	0.0196	35	0.0035
00-062-169	1388	276	118	155	1515	494	0.0494	473	0.0473	48	0.0048
00-062-170	1388	276	42	65	562	336	0.0336	280	0.0280	46	0.0046
00-062-171	1388	276	54	55	562	237	0.0237	266	0.0266	45	0.0045
00-062-172	1388	276	46	65	528	194	0.0194	247	0.0247	40	0.0040
00-062-173	1388	276	38	55	552	200	0.0200	270	0.0270	41	0.0041
00-062-174	1388	276	410	585	5730	1340	0.1340	1125	0.1125	66	0.0066
00-062-175	1388	276	74	195	1895	472	0.0472	516	0.0516	74	0.0074
00-062-176	1388	276	156	325	3030	840	0.0840	610	0.0610	57	0.0057
00-062-177	1388	276	12	45	432	145	0.0145	269	0.0269	38	0.0038
00-062-178	1388	276	34	55	564	189	0.0189	244	0.0244	42	0.0042
00-062-179	1388	276	208	185	1900	723	0.0723	449	0.0449	56	0.0056
00-062-180	1388	276	144	180	1625	567	0.0567	370	0.0370	58	0.0058
00-062-181	1388	276	38	70	612	337	0.0337	231	0.0231	34	0.0034
00-062-182	1388	276	4	< 5	40	119	0.0119	107	0.0107	17	0.0017

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-062  
 Comments: ATTN: MOE LAVIGNE

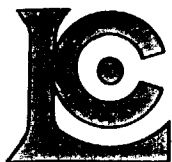
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 Total Pages : 3  
 Certificate Date: 30-MAY-2000  
 Invoice No. : 10019177  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0019177

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-062-183	1388	276	4	< 5	26	82	0.0082	99	0.0099	14	0.0014
00-062-184	1388	276	4	< 5	22	100	0.0100	97	0.0097	18	0.0018
00-062-185	1388	276	2	< 5	6	98	0.0098	102	0.0102	16	0.0016
00-062-186	1388	276	6	< 5	70	107	0.0107	111	0.0111	12	0.0012
00-062-187	1388	276	2	< 5	56	76	0.0076	116	0.0116	22	0.0022
00-062-188	1388	276	< 2	< 5	4	26	0.0026	103	0.0103	19	0.0019
00-062-189	1388	276	2	< 5	30	90	0.0090	102	0.0102	18	0.0018
00-062-190	1388	276	18	20	154	179	0.0179	131	0.0131	19	0.0019
062-STA-155	214	238	296	310	3340	1185	0.1185	1100	0.1100	42	0.0042

CERTIFICATION: \_\_\_\_\_



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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0019045

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0019045

(MZI) - LAC DES ILES MINES LTD.

Project: 00-074  
 P.O. #:

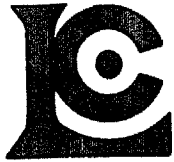
Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 24-MAY-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	54	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
276	54	8-12 Kg crush and split
3202	54	Rock - save entire reject
238	55	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	55	Au ppb: FA ICP package	FA-ICP	2	10000
976	55	Pt ppb: FA ICP package	FA-ICP	5	10000
977	55	Pd ppb: FA ICP package	FA-ICP	2	10000
2	55	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	55	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	55	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	55	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	55	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	55	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-074  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 24-MAY  
 Invoice No. : 1001894  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0018994

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-074-001	1388 294	< 2	< 5	4	66	0.0066	32	0.0032	30	0.0030
00-074-002	1388 276	< 2	< 5	< 2	53	0.0053	29	0.0029	31	0.0031
00-074-003	1388 276	< 2	< 5	< 2	49	0.0049	19	0.0019	27	0.0027
00-074-004	1388 276	< 2	< 5	4	55	0.0055	25	0.0025	24	0.0024
00-074-005	1388 276	< 2	< 5	2	64	0.0064	27	0.0027	22	0.0022
00-074-006	1388 276	< 2	< 5	< 2	54	0.0054	34	0.0034	25	0.0025
00-074-007	1388 276	< 2	< 5	< 2	54	0.0054	28	0.0028	25	0.0025
00-074-008	1388 276	< 2	< 5	8	60	0.0060	28	0.0028	24	0.0024
00-074-009	1388 276	< 2	< 5	< 2	62	0.0062	45	0.0045	27	0.0027
00-074-010	1388 276	< 2	< 5	< 2	75	0.0075	21	0.0021	28	0.0028
00-074-011	1388 276	< 2	< 5	< 2	106	0.0106	32	0.0032	30	0.0030
00-074-012	1388 276	< 2	< 5	< 2	55	0.0055	43	0.0043	26	0.0026
00-074-013	1388 294	< 2	< 5	< 2	95	0.0095	48	0.0048	29	0.0029
00-074-014	1388 294	< 2	< 5	10	13	0.0013	15	0.0015	9	0.0009
00-074-015	1388 294	< 2	< 5	16	67	0.0067	25	0.0025	11	0.0011
00-074-016	1388 276	< 2	< 5	4	47	0.0047	13	0.0013	19	0.0019
00-074-017	1388 276	2	< 5	< 2	67	0.0067	13	0.0013	24	0.0024
00-074-018	1388 276	< 2	< 5	< 2	56	0.0056	17	0.0017	15	0.0015
00-074-019	1388 276	4	< 5	4	186	0.0186	30	0.0030	16	0.0016
00-074-020	1388 294	4	5	34	135	0.0135	61	0.0061	24	0.0024
00-074-021	1388 294	< 2	5	18	58	0.0058	53	0.0053	12	0.0012
00-074-022	1388 276	6	95	612	197	0.0197	349	0.0349	32	0.0032
00-074-023	1388 276	2	40	246	88	0.0088	160	0.0160	17	0.0017
00-074-024	1388 294	2	30	208	129	0.0129	186	0.0186	21	0.0021
00-074-025	1388 294	92	200	1360	1190	0.1190	865	0.0865	104	0.0104
00-074-026	1388 276	112	215	1430	1400	0.1400	882	0.0882	96	0.0096
00-074-027	1388 294	4	15	122	226	0.0226	186	0.0186	24	0.0024
00-074-028	1388 276	14	60	414	294	0.0294	260	0.0260	37	0.0037
00-074-029	1388 276	2	20	138	163	0.0163	114	0.0114	18	0.0018
00-074-030	1388 276	6	10	90	161	0.0161	109	0.0109	27	0.0027
00-074-031	1388 276	4	15	108	194	0.0194	79	0.0079	23	0.0023
00-074-032	1388 276	< 2	10	54	160	0.0160	48	0.0048	16	0.0016
00-074-033	1388 276	2	< 5	16	219	0.0219	48	0.0048	22	0.0022
074-STA-148	214 238	300	310	3110	1190	0.1190	1190	0.1190	46	0.0046

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

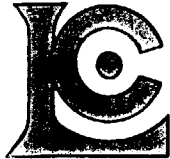
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 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 24-MAY-2000  
 Invoice No. : 10019045  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019045

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-074-034	1388 276	< 2	< 5	4	198	0.0198	41	0.0041	24	0.0024
00-074-035	1388 276	< 2	< 5	< 2	134	0.0134	74	0.0074	20	0.0020
00-074-036	1388 276	2	< 5	2	174	0.0174	35	0.0035	19	0.0019
00-074-037	1388 276	< 2	< 5	4	131	0.0131	34	0.0034	18	0.0018
00-074-038	1388 276	< 2	< 5	4	99	0.0099	33	0.0033	16	0.0016
00-074-039	1388 276	< 2	< 5	< 2	82	0.0082	32	0.0032	16	0.0016
00-074-040	1388 276	< 2	< 5	14	157	0.0157	48	0.0048	29	0.0029
00-074-041	1388 276	< 2	< 5	4	186	0.0186	34	0.0034	16	0.0016
00-074-042	1388 276	< 2	< 5	10	230	0.0230	74	0.0074	27	0.0027
00-074-043	1388 276	2	< 5	6	209	0.0209	34	0.0034	24	0.0024
00-074-044	1388 276	< 2	< 5	6	241	0.0241	36	0.0036	22	0.0022
00-074-045	1388 276	< 2	10	66	101	0.0101	68	0.0068	24	0.0024
00-074-046	1388 276	< 2	< 5	8	108	0.0108	37	0.0037	15	0.0015
00-074-047	1388 276	< 2	< 5	2	109	0.0109	28	0.0028	13	0.0013
00-074-048	1388 276	< 2	< 5	< 2	170	0.0170	32	0.0032	17	0.0017
00-074-049	1388 276	< 2	< 5	< 2	87	0.0087	20	0.0020	11	0.0011
00-074-050	1388 276	< 2	< 5	< 2	127	0.0127	28	0.0028	14	0.0014
00-074-051	1388 276	< 2	< 5	< 2	134	0.0134	45	0.0045	24	0.0024
00-074-052	1388 276	< 2	< 5	< 2	131	0.0131	46	0.0046	18	0.0018
00-074-053	1388 276	2	15	94	199	0.0199	72	0.0072	24	0.0024
00-074-054	1388 276	2	5	50	178	0.0178	82	0.0082	25	0.0025
00-074-055	1388 276	< 2	< 5	6	148	0.0148	53	0.0053	22	0.0022
00-074-056	1388 276	2	< 5	< 2	69	0.0069	20	0.0020	25	0.0025
00-074-057	1388 276	< 2	< 5	< 2	81	0.0081	33	0.0033	27	0.0027
00-074-058	1388 276	38	125	778	419	0.0419	404	0.0404	57	0.0057
00-074-059	1388 276	36	130	816	335	0.0335	422	0.0422	58	0.0058
00-074-060	1388 276	68	95	570	326	0.0326	371	0.0371	59	0.0059
00-074-061	1388 276	24	50	252	100	0.0100	223	0.0223	52	0.0052
00-074-062	1388 276	30	55	322	106	0.0106	231	0.0231	50	0.0050
00-074-063	1388 276	28	45	266	83	0.0083	171	0.0171	40	0.0040
00-074-064	1388 276	40	75	504	115	0.0115	216	0.0216	41	0.0041
00-074-065	1388 276	12	20	84	60	0.0060	191	0.0191	43	0.0043
00-074-066	1388 276	14	40	236	105	0.0105	233	0.0233	52	0.0052
00-074-067	1388 276	14	40	196	171	0.0171	252	0.0252	54	0.0054
00-074-068	1388 276	32	75	444	162	0.0162	280	0.0280	47	0.0047
00-074-069	1388 276	44	100	704	320	0.0320	374	0.0374	55	0.0055
00-074-070	1388 276	16	15	28	216	0.0216	131	0.0131	22	0.0022
00-074-071	1388 276	2	20	28	198	0.0198	138	0.0138	31	0.0031
00-074-072	1388 276	14	35	168	79	0.0079	177	0.0177	36	0.0036
00-074-073	1388 276	32	55	318	214	0.0214	284	0.0284	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-074  
 Comments: ATTN: MOE LAVIGNE

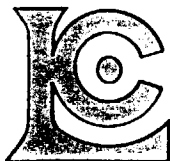
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 Certificate Date: 24-MAY-2000  
 Invoice No. : 10019045  
 P.O. Number :  
 Account : MZI

<b>CERTIFICATE OF ANALYSIS</b>	<b>A0019045</b>
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00-074-074	1388	276	16	30	148	113	0.0113	156	0.0156	31	0.0031	
00-074-075	1388	276	18	45	206	134	0.0134	164	0.0164	33	0.0033	
00-074-076	1388	276	28	65	390	107	0.0107	154	0.0154	27	0.0027	
00-074-077	1388	276	30	45	328	82	0.0082	123	0.0123	21	0.0021	
00-074-078	1388	276	28	45	244	75	0.0075	124	0.0124	23	0.0023	
00-074-079	1388	276	38	65	388	89	0.0089	115	0.0115	19	0.0019	
00-074-080	1388	276	16	40	192	62	0.0062	134	0.0134	23	0.0023	
00-074-081	1388	276	36	60	328	263	0.0263	214	0.0214	34	0.0034	
00-074-082	1388	276	74	135	752	341	0.0341	323	0.0323	35	0.0035	
00-074-083	1388	276	76	110	634	351	0.0351	313	0.0313	31	0.0031	
00-074-084	1388	276	20	35	238	73	0.0073	137	0.0137	28	0.0028	
00-074-085	1388	276	12	25	126	66	0.0066	97	0.0097	26	0.0026	
00-074-086	1388	276	20	40	190	52	0.0052	124	0.0124	25	0.0025	
00-074-087	1388	276	30	50	274	77	0.0077	153	0.0153	28	0.0028	
074-STA-149	214	238	244	280	3010	1190	0.1190	1145	0.1145	46	0.0046	

CERTIFICATION:





# ALS Chemex

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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0019176

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0019176

(MZI) - LAC DES ILES MINES LTD.

Project: 00-074  
 P.O. #:

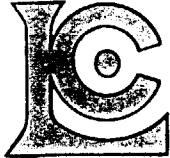
Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 29-MAY-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	26	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	14	4-7 Kg crush and split
276	12	8-12 Kg crush and split
3202	26	Rock - save entire reject
238	27	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	27	Au ppb: FA ICP package	FA-ICP	2	10000
976	27	Pt ppb: FA ICP package	FA-ICP	5	10000
977	27	Pd ppb: FA ICP package	FA-ICP	2	10000
2	27	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	27	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	27	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	27	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	27	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	27	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-074  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 29-MAY-2000  
 Invoice No. : 10019176  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019176

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-074-088	1388 294	24	50	338	96	0.0096	149	0.0149	24	0.0024
00-074-089	1388 294	< 2	10	118	27	0.0027	123	0.0123	24	0.0024
00-074-090	1388 276	6	20	196	17	0.0017	117	0.0117	19	0.0019
00-074-091	1388 294	38	115	918	178	0.0178	259	0.0259	26	0.0026
00-074-092	1388 294	16	100	850	61	0.0061	124	0.0124	17	0.0017
00-074-093	1388 294	44	80	656	212	0.0212	193	0.0193	30	0.0030
00-074-094	1388 294	174	195	1505	732	0.0732	452	0.0452	35	0.0035
00-074-095	1388 276	328	385	3090	1845	0.1845	1190	0.1190	55	0.0055
00-074-096	1388 276	750	830	6640	3150	0.3150	2730	0.2730	95	0.0095
00-074-097	1388 294	674	735	6050	2510	0.2510	2030	0.2030	86	0.0086
00-074-098	1388 294	6	80	876	30	0.0030	148	0.0148	13	0.0013
00-074-099	1388 294	< 2	< 5	56	10	0.0010	145	0.0145	20	0.0020
00-074-100	1388 294	410	555	4330	2400	0.2400	2370	0.2370	104	0.0104
00-074-101	1388 294	178	265	2220	763	0.0763	709	0.0709	51	0.0051
00-074-102	1388 294	98	160	1270	396	0.0396	430	0.0430	40	0.0040
00-074-103	1388 276	20	40	320	129	0.0129	181	0.0181	29	0.0029
00-074-104	1388 276	16	40	326	113	0.0113	164	0.0164	27	0.0027
00-074-105	1388 276	46	80	586	232	0.0232	250	0.0250	31	0.0031
00-074-106	1388 276	90	70	592	302	0.0302	304	0.0304	31	0.0031
00-074-107	1388 294	38	65	510	218	0.0218	318	0.0318	36	0.0036
00-074-108	1388 294	84	110	938	479	0.0479	419	0.0419	42	0.0042
00-074-109	1388 276	78	100	880	458	0.0458	440	0.0440	41	0.0041
00-074-110	1388 276	60	85	658	286	0.0286	368	0.0368	39	0.0039
00-074-111	1388 276	12	50	288	99	0.0099	138	0.0138	25	0.0025
00-074-112	1388 276	110	170	1390	533	0.0533	502	0.0502	44	0.0044
00-074-113	1388 276	16	60	348	125	0.0125	207	0.0207	35	0.0035
074-STA-154	214 238	304	325	3290	1205	0.1205	1075	0.1075	40	0.0040

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020285

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020285**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-074  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 20-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	115	Ring 600 g to approx -150 mesh
214	2	Rcvd as pulp; mesh size checked
226	1	0-3 Kg crush and split
294	28	4-7 Kg crush and split
276	85	8-12 Kg crush and split
3202	116	Rock - save entire reject
238	116	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	116	Au ppb: FA ICP package	FA-ICP	2	10000
976	116	Pt ppb: FA ICP package	FA-ICP	5	10000
977	116	Pd ppb: FA ICP package	FA-ICP	2	10000
2	116	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	116	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	116	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	116	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	116	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	116	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-074  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 20-JUN-2000  
 Invoice No. : 10020285  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020285

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-074-114	1388 226	6	15	50	42	0.0042	172	0.0172	36	0.0036
00-074-115	1388 294	34	80	554	179	0.0179	295	0.0295	41	0.0041
00-074-116	1388 294	28	100	662	254	0.0254	294	0.0294	42	0.0042
00-074-117	1388 294	56	170	1420	592	0.0592	605	0.0605	58	0.0058
00-074-118	1388 294	228	425	3680	1730	0.1730	1255	0.1255	81	0.0081
00-074-119	1388 294	442	745	6780	2680	0.2680	2400	0.2400	113	0.0113
00-074-120	1388 294	20	320	2770	371	0.0371	649	0.0649	31	0.0031
00-074-121	1388 294	22	130	974	536	0.0536	515	0.0515	54	0.0054
00-074-122	1388 276	66	195	1640	745	0.0745	550	0.0550	56	0.0056
00-074-123	1388 276	50	110	862	404	0.0404	396	0.0396	48	0.0048
00-074-124	1388 276	12	5	70	133	0.0133	196	0.0196	39	0.0039
00-074-125	1388 294	6	< 5	30	106	0.0106	140	0.0140	29	0.0029
00-074-126	1388 294	136	165	1480	654	0.0654	538	0.0538	49	0.0049
00-074-127	1388 276	36	80	308	247	0.0247	237	0.0237	34	0.0034
00-074-128	1388 276	24	30	280	210	0.0210	183	0.0183	28	0.0028
00-074-129	1388 276	14	30	168	140	0.0140	171	0.0171	26	0.0026
00-074-130	1388 276	8	5	80	104	0.0104	121	0.0121	22	0.0022
00-074-131	1388 276	12	35	322	126	0.0126	237	0.0237	30	0.0030
00-074-132	1388 294	4	< 5	18	93	0.0093	121	0.0121	22	0.0022
00-074-133	1388 294	4	< 5	22	111	0.0111	111	0.0111	17	0.0017
00-074-134	1388 276	4	< 5	20	102	0.0102	109	0.0109	19	0.0019
00-074-135	1388 276	50	55	550	375	0.0375	301	0.0301	29	0.0029
00-074-136	1388 276	54	55	466	433	0.0433	315	0.0315	33	0.0033
00-074-137	1388 294	36	50	416	431	0.0431	366	0.0366	38	0.0038
00-074-138	1388 294	142	155	1190	964	0.0964	724	0.0724	52	0.0052
00-074-139	1388 294	40	40	296	348	0.0348	317	0.0317	29	0.0029
00-074-140	1388 276	10	20	144	201	0.0201	158	0.0158	17	0.0017
00-074-141	1388 276	64	90	652	589	0.0589	474	0.0474	30	0.0030
00-074-142	1388 276	54	35	318	354	0.0354	306	0.0306	28	0.0028
00-074-143	1388 214	108	100	732	667	0.0667	494	0.0494	38	0.0038
00-074-144	1388 276	48	45	386	525	0.0525	420	0.0420	42	0.0042
00-074-145	1388 276	34	35	272	360	0.0360	341	0.0341	41	0.0041
00-074-146	1388 276	66	90	710	546	0.0546	425	0.0425	37	0.0037
00-074-147	1388 276	10	5	70	144	0.0144	175	0.0175	31	0.0031
00-074-148	1388 276	32	45	366	315	0.0315	278	0.0278	32	0.0032
00-074-149	1388 276	80	75	790	514	0.0514	429	0.0429	43	0.0043
00-074-150	1388 276	412	230	1560	1135	0.1135	811	0.0811	48	0.0048
00-074-151	1388 276	310	360	2920	1770	0.1770	1100	0.1100	69	0.0069
00-074-152	1388 276	280	405	3630	1330	0.1330	925	0.0925	58	0.0058
00-074-153	1388 276	74	115	932	393	0.0393	335	0.0335	33	0.0033

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-074  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :3  
 Certificate Date: 20-JUN-2000  
 Invoice No. : 10020285  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020285

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-074-154	1388 276	16	5	66	141	0.0141	136	0.0136	18	0.0018
00-074-155	1388 276	30	25	244	150	0.0150	138	0.0138	16	0.0016
00-074-156	1388 294	48	75	710	361	0.0361	294	0.0294	34	0.0034
00-074-157	1388 276	54	75	650	378	0.0378	332	0.0332	39	0.0039
00-074-158	1388 276	136	190	1450	908	0.0908	716	0.0716	52	0.0052
00-074-159	1388 276	10	< 5	40	115	0.0115	116	0.0116	17	0.0017
00-074-160	1388 294	20	25	296	166	0.0166	168	0.0168	25	0.0025
00-074-161	1388 276	26	35	280	200	0.0200	174	0.0174	21	0.0021
00-074-162	1388 276	142	200	1730	719	0.0719	612	0.0612	37	0.0037
00-074-163	1388 276	102	70	620	287	0.0287	270	0.0270	26	0.0026
00-074-164	1388 276	24	20	204	154	0.0154	147	0.0147	13	0.0013
00-074-165	1388 276	34	35	322	247	0.0247	219	0.0219	19	0.0019
00-074-166	1388 276	96	145	1225	708	0.0708	561	0.0561	62	0.0062
00-074-167	1388 276	12	5	70	138	0.0138	118	0.0118	16	0.0016
00-074-168	1388 276	12	10	60	128	0.0128	113	0.0113	11	0.0011
00-074-169	1388 276	36	50	428	185	0.0185	184	0.0184	18	0.0018
00-074-170	1388 276	18	20	164	182	0.0182	186	0.0186	23	0.0023
00-074-171	1388 276	22	30	210	187	0.0187	266	0.0266	41	0.0041
00-074-172	1388 276	138	175	1405	849	0.0849	733	0.0733	53	0.0053
00-074-173	1388 276	34	45	390	236	0.0236	310	0.0310	42	0.0042
00-074-174	1388 276	52	65	566	308	0.0308	356	0.0356	49	0.0049
00-074-175	1388 276	66	110	944	310	0.0310	387	0.0387	43	0.0043
00-074-176	1388 276	14	50	362	146	0.0146	274	0.0274	35	0.0035
00-074-177	1388 276	18	50	362	375	0.0375	324	0.0324	55	0.0055
00-074-178	1388 276	22	45	256	361	0.0361	336	0.0336	54	0.0054
00-074-179	1388 276	18	20	170	261	0.0261	306	0.0306	49	0.0049
00-074-180	1388 276	44	45	402	486	0.0486	422	0.0422	68	0.0068
00-074-181	1388 294	42	45	318	374	0.0374	340	0.0340	48	0.0048
00-074-182	1388 294	192	220	1865	1080	0.1080	983	0.0983	65	0.0065
00-074-183	1388 276	208	285	2280	670	0.0670	773	0.0773	53	0.0053
00-074-184	1388 276	76	115	978	348	0.0348	400	0.0400	39	0.0039
00-074-185	1388 276	14	< 5	14	217	0.0217	40	0.0040	27	0.0027
00-074-186	1388 294	30	240	1540	420	0.0420	511	0.0511	48	0.0048
00-074-187	1388 276	12	< 5	68	105	0.0105	222	0.0222	37	0.0037
00-074-188	1388 276	32	50	490	188	0.0188	268	0.0268	38	0.0038
00-074-189	1388 276	228	290	2370	606	0.0606	474	0.0474	39	0.0039
00-074-190	1388 276	62	85	826	328	0.0328	329	0.0329	45	0.0045
00-074-191	1388 276	150	285	2820	488	0.0488	473	0.0473	51	0.0051
00-074-192	1388 276	38	75	764	220	0.0220	239	0.0239	33	0.0033
00-074-193	1388 276	40	100	934	227	0.0227	303	0.0303	40	0.0040

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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 Analytical Chemists \* Geochemists \* Registered Assayers  
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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-074  
 Comments: ATTN: MOE LAVIGNE

Page Number :3  
 Total Pages :3  
 Certificate Date: 20-JUN-2000  
 Invoice No. : I0020285  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020285

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-074-194	1388 276	12	10	98	84	0.0084	191	0.0191	33	0.0033
00-074-195	1388 276	70	95	852	272	0.0272	304	0.0304	39	0.0039
00-074-196	1388 276	12	5	46	128	0.0128	142	0.0142	17	0.0017
00-074-197	1388 294	78	115	1090	272	0.0272	225	0.0225	21	0.0021
00-074-198	1388 276	60	40	470	189	0.0189	163	0.0163	18	0.0018
00-074-199	1388 276	172	165	1605	428	0.0428	355	0.0355	28	0.0028
00-074-200	1388 276	102	135	1280	307	0.0307	276	0.0276	28	0.0028
00-074-201	1388 276	92	135	1105	387	0.0387	339	0.0339	34	0.0034
00-074-202	1388 276	230	310	2940	774	0.0774	639	0.0639	39	0.0039
00-074-203	1388 276	176	245	2210	546	0.0546	477	0.0477	35	0.0035
00-074-204	1388 276	74	80	752	323	0.0323	276	0.0276	22	0.0022
00-074-205	1388 294	50	65	600	223	0.0223	160	0.0160	14	0.0014
00-074-206	1388 276	96	115	1030	421	0.0421	334	0.0334	21	0.0021
00-074-207	1388 276	104	165	1490	616	0.0616	516	0.0516	29	0.0029
00-074-208	1388 294	78	85	736	422	0.0422	353	0.0353	24	0.0024
00-074-209	1388 276	258	305	2530	1335	0.1335	1040	0.1040	53	0.0053
00-074-210	1388 276	80	115	824	546	0.0546	433	0.0433	30	0.0030
00-074-211	1388 276	96	110	834	530	0.0530	432	0.0432	29	0.0029
00-074-212	1388 294	62	65	798	373	0.0373	279	0.0279	26	0.0026
00-074-213	1388 294	72	90	714	455	0.0455	392	0.0392	32	0.0032
00-074-214	1388 276	120	165	1350	627	0.0627	635	0.0635	39	0.0039
00-074-215	1388 276	122	155	1185	792	0.0792	609	0.0609	37	0.0037
00-074-216	1388 276	244	270	2210	1345	0.1345	1060	0.1060	51	0.0051
00-074-217	1388 276	108	130	1150	560	0.0560	447	0.0447	26	0.0026
00-074-218	1388 276	158	180	1385	1035	0.1035	731	0.0731	42	0.0042
00-074-219	1388 276	288	330	2460	1935	0.1935	1340	0.1340	55	0.0055
00-074-220	1388 276	312	340	2580	1675	0.1675	1195	0.1195	57	0.0057
00-074-221	1388 276	30	30	238	173	0.0173	231	0.0231	26	0.0026
00-074-222	1388 276	208	240	1975	1065	0.1065	689	0.0689	64	0.0064
00-074-223	1388 294	206	250	1920	1150	0.1150	824	0.0824	53	0.0053
00-074-224	1388 276	328	140	1220	626	0.0626	570	0.0570	36	0.0036
00-074-225	1388 294	20	15	126	126	0.0126	127	0.0127	18	0.0018
00-074-226	1388 294	62	75	664	229	0.0229	237	0.0237	30	0.0030
00-074-227	1388 276	248	240	2250	652	0.0652	576	0.0576	47	0.0047
00-074-228	1388 294	38	30	260	164	0.0164	163	0.0163	25	0.0025
074-STA-156	2143202	242	345	3720	1260	0.1260	1205	0.1205	45	0.0045

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020374

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020374**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-074  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 21-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	53	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	3	0-3 Kg crush and split
294	4	4-7 Kg crush and split
276	45	8-12 Kg crush and split
3202	53	Rock - save entire reject
238	53	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2	53	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	53	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	53	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	53	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	53	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	53	Co %: calculation from Co ppm	AAS	0.0001	10.000
975	53	Au ppb: FA ICP package	FA-ICP	2	10000
976	53	Pt ppb: FA ICP package	FA-ICP	5	10000
977	53	Pd ppb: FA ICP package	FA-ICP	2	10000



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 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-074  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :2  
 Certificate Date: 21-JUN-2000  
 Invoice No. :10020374  
 P.O. Number :  
 Account :MZI

## CERTIFICATE OF ANALYSIS

A0020374

SAMPLE	PREP CODE	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	
00-074-229	1388 294	975	0.0975	758	0.0758	56	0.0056	358	380	3480	
00-074-230	1388 276	404	0.0404	380	0.0380	36	0.0036	122	170	1500	
00-074-231	1388 276	605	0.0605	506	0.0506	48	0.0048	248	245	2110	
00-074-232	1388 276	124	0.0124	126	0.0126	19	0.0019	22	20	152	
00-074-233	1388 276	191	0.0191	135	0.0135	17	0.0017	36	40	362	
00-074-234	1388 276	344	0.0344	271	0.0271	22	0.0022	92	125	1055	
00-074-235	1388 276	350	0.0350	273	0.0273	27	0.0027	88	120	1040	
00-074-236	1388 276	293	0.0293	264	0.0264	33	0.0033	72	100	970	
00-074-237	1388 276	60	0.0060	83	0.0083	15	0.0015	16	10	90	
00-074-238	1388 226	598	0.0598	523	0.0523	52	0.0052	178	240	2000	
00-074-239	1388 294	100	0.0100	38	0.0038	24	0.0024	12	< 5	46	
00-074-240	1388 276	45	0.0045	148	0.0148	25	0.0025	8	20	102	
00-074-241	1388 276	51	0.0051	165	0.0165	30	0.0030	14	20	86	
00-074-242	1388 276	119	0.0119	10	0.0010	21	0.0021	8	< 5	< 2	
00-074-243	1388 276	68	0.0068	162	0.0162	27	0.0027	10	20	110	
00-074-244	1388 276	84	0.0084	163	0.0163	28	0.0028	16	25	120	
00-074-245	1388 276	86	0.0086	177	0.0177	29	0.0029	18	25	122	
00-074-246	1388 276	90	0.0090	152	0.0152	25	0.0025	18	25	134	
00-074-247	1388 276	99	0.0099	102	0.0102	13	0.0013	24	30	170	
00-074-248	1388 276	80	0.0080	95	0.0095	14	0.0014	16	25	112	
00-074-249	1388 276	86	0.0086	108	0.0108	15	0.0015	24	25	122	
00-074-250	1388 276	95	0.0095	116	0.0116	19	0.0019	22	25	114	
00-074-251	1388 276	146	0.0146	193	0.0193	29	0.0029	30	45	382	
00-074-252	1388 276	227	0.0227	239	0.0239	31	0.0031	72	85	760	
00-074-253	1388 276	104	0.0104	156	0.0156	28	0.0028	18	25	136	
00-074-254	1388 276	231	0.0231	246	0.0246	34	0.0034	48	75	636	
00-074-255	1388 276	164	0.0164	177	0.0177	27	0.0027	32	45	484	
00-074-256	1388 294	121	0.0121	25	0.0025	23	0.0023	8	< 5	16	
00-074-257	1388 276	443	0.0443	657	0.0657	36	0.0036	46	320	3070	
00-074-258	1388 276	133	0.0133	274	0.0274	38	0.0038	14	60	528	
00-074-259	1388 276	181	0.0181	299	0.0299	35	0.0035	24	110	1075	
00-074-260	1388 276	209	0.0209	260	0.0260	34	0.0034	38	45	528	
00-074-261	1388 276	331	0.0331	251	0.0251	29	0.0029	78	90	896	
00-074-262	1388 276	372	0.0372	338	0.0338	32	0.0032	182	215	2220	
00-074-263	1388 276	386	0.0386	327	0.0327	37	0.0037	78	150	1485	
00-074-264	1388 276	498	0.0498	371	0.0371	33	0.0033	98	205	1425	
00-074-265	1388 226	94	0.0094	119	0.0119	17	0.0017	36	45	354	
00-074-266	1388 276	267	0.0267	294	0.0294	39	0.0039	54	120	1025	
00-074-267	1388 276	401	0.0401	370	0.0370	47	0.0047	114	105	1095	
00-074-268	1388 226	613	0.0613	514	0.0514	48	0.0048	162	225	1940	

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Page Number :2  
 Total Pages :2  
 Certificate Date: 21-JUN-2000  
 Invoice No. : 10020374  
 P.O. Number :  
 Account : MZI

Project : 00-074  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0020374

SAMPLE	PREP CODE	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	
00-074-269	1388 276	507	0.0507	442	0.0442	39	0.0039	138	190	2000	
00-074-270	1388 276	313	0.0313	310	0.0310	37	0.0037	48	125	1360	
00-074-271	1388 276	140	0.0140	148	0.0148	31	0.0031	12	< 5	80	
00-074-272	1388 276	210	0.0210	102	0.0102	13	0.0013	20	35	318	
00-074-273	1388 294	945	0.0945	657	0.0657	46	0.0046	162	210	1965	
00-074-274	1388 276	409	0.0409	288	0.0288	36	0.0036	82	75	810	
00-074-275	1388 276	373	0.0373	314	0.0314	36	0.0036	54	70	604	
00-074-276	1388 276	320	0.0320	221	0.0221	26	0.0026	44	60	472	
00-074-277	1388 276	243	0.0243	148	0.0148	18	0.0018	28	35	344	
00-074-278	1388 276	187	0.0187	148	0.0148	21	0.0021	14	15	184	
00-074-279	1388 276	343	0.0343	300	0.0300	38	0.0038	42	70	590	
00-074-280	1388 276	317	0.0317	272	0.0272	26	0.0026	22	70	618	
074-STA-160	1388 214	1240	0.1240	1140	0.1140	45	0.0045	300	310	3800	

CERTIFICATION: \_\_\_\_\_



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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 JUL 19 2000

A0021688

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021688

(MZI) - LAC DES ILES MINES LTD.

Project: 00-092  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 05-JUL-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	71	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	6	0-3 Kg crush and split
294	7	4-7 Kg crush and split
276	58	8-12 Kg crush and split
3202	71	Rock - save entire reject
238	72	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	72	Au ppb: FA ICP package	FA-ICP	2	10000
976	72	Pt ppb: FA ICP package	FA-ICP	5	10000
977	72	Pd ppb: FA ICP package	FA-ICP	2	10000
2	72	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	72	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	72	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	72	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	72	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	72	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-092  
 Comments: ATTN: MOE LAVIGNE

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 JUL 19 2000

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : 10021688  
 P.O. Number :  
 Account : MZI

CERTIFICATE OF ANALYSIS A0021688

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
OB-00-092-001	1388 226	204	395	6520	686	0.0686	631	0.0631	38	0.0038
OB-00-092-002	1388 276	206	180	1420	718	0.0718	507	0.0507	30	0.0030
OB-00-092-003	1388 276	194	160	1230	1090	0.1090	599	0.0599	35	0.0035
OB-00-092-004	1388 294	60	35	176	537	0.0537	314	0.0314	29	0.0029
OB-00-092-005	1388 276	56	70	1320	286	0.0286	230	0.0230	22	0.0022
00-092-001	1388 226	62	95	564	264	0.0264	184	0.0184	31	0.0031
00-092-002	1388 276	60	110	868	380	0.0380	322	0.0322	38	0.0038
00-092-003	1388 276	50	90	792	314	0.0314	289	0.0289	28	0.0028
00-092-004	1388 276	52	35	464	288	0.0288	228	0.0228	31	0.0031
00-092-005	1388 276	86	105	932	447	0.0447	362	0.0362	32	0.0032
00-092-006	1388 276	94	75	744	409	0.0409	328	0.0328	31	0.0031
00-092-007	1388 276	54	70	498	332	0.0332	282	0.0282	30	0.0030
00-092-008	1388 276	62	80	636	416	0.0416	255	0.0255	28	0.0028
00-092-009	1388 276	98	150	1250	613	0.0613	338	0.0338	27	0.0027
00-092-010	1388 276	126	115	1355	865	0.0865	377	0.0377	32	0.0032
00-092-011	1388 276	136	90	892	716	0.0716	379	0.0379	31	0.0031
00-092-012	1388 276	148	100	830	1225	0.1225	565	0.0565	41	0.0041
00-092-013	1388 276	72	20	964	528	0.0528	468	0.0468	31	0.0031
00-092-014	1388 276	90	165	1650	1050	0.1050	1260	0.1260	66	0.0066
00-092-015	1388 276	38	10	332	355	0.0355	251	0.0251	26	0.0026
00-092-016	1388 276	62	45	644	653	0.0653	465	0.0465	34	0.0034
00-092-017	1388 276	52	25	248	461	0.0461	273	0.0273	25	0.0025
00-092-018	1388 294	20	10	108	212	0.0212	178	0.0178	25	0.0025
00-092-019	1388 226	16	< 5	50	235	0.0235	71	0.0071	12	0.0012
00-092-020	1388 276	14	< 5	4	180	0.0180	26	0.0026	18	0.0018
00-092-021	1388 276	6	< 5	12	61	0.0061	37	0.0037	9	0.0009
00-092-022	1388 276	6	< 5	8	75	0.0075	22	0.0022	9	0.0009
00-092-023	1388 276	2	< 5	2	27	0.0027	10	0.0010	8	0.0008
00-092-024	1388 276	2	< 5	< 2	43	0.0043	10	0.0010	7	0.0007
00-092-025	1388 276	22	20	536	158	0.0158	177	0.0177	11	0.0011
00-092-026	1388 276	26	15	392	156	0.0156	102	0.0102	10	0.0010
00-092-027	1388 276	32	15	338	501	0.0501	149	0.0149	18	0.0018
00-092-028	1388 294	8	< 5	10	44	0.0044	19	0.0019	10	0.0010
00-092-029	1388 276	4	< 5	6	31	0.0031	20	0.0020	9	0.0009
00-092-030	1388 276	40	15	326	245	0.0245	114	0.0114	14	0.0014
00-092-031	1388 276	26	< 5	388	173	0.0173	122	0.0122	12	0.0012
00-092-032	1388 276	8	< 5	84	80	0.0080	44	0.0044	10	0.0010
00-092-033	1388 276	4	< 5	6	27	0.0027	20	0.0020	11	0.0011
00-092-034	1388 276	2	< 5	4	24	0.0024	20	0.0020	12	0.0012
00-092-035	1388 276	14	< 5	194	151	0.0151	108	0.0108	15	0.0015

CERTIFICATION: See attached



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-092  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : 10021688  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021688

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-092-036	1388 276	22	< 5	208	114	0.0114	82	0.0082	13	0.0013
00-092-037	1388 276	12	5	244	94	0.0094	75	0.0075	12	0.0012
00-092-038	1388 276	10	< 5	78	52	0.0052	39	0.0039	11	0.0011
00-092-039	1388 276	6	< 5	28	40	0.0040	26	0.0026	10	0.0010
00-092-040	1388 276	6	< 5	14	103	0.0103	30	0.0030	16	0.0016
00-092-041	1388 276	8	< 5	22	75	0.0075	32	0.0032	11	0.0011
00-092-042	1388 276	94	40	1050	479	0.0479	341	0.0341	20	0.0020
00-092-043	1388 276	196	135	2430	1210	0.1210	784	0.0784	35	0.0035
00-092-044	1388 276	36	30	616	305	0.0305	218	0.0218	19	0.0019
00-092-045	1388 276	6	< 5	50	41	0.0041	30	0.0030	12	0.0012
00-092-046	1388 294	8	< 5	56	61	0.0061	24	0.0024	7	0.0007
00-092-047	1388 276	14	< 5	232	117	0.0117	63	0.0063	10	0.0010
00-092-048	1388 276	12	< 5	80	150	0.0150	45	0.0045	16	0.0016
00-092-049	1388 276	4	< 5	< 2	17	0.0017	10	0.0010	8	0.0008
00-092-050	1388 276	10	< 5	146	80	0.0080	79	0.0079	14	0.0014
00-092-051	1388 276	16	< 5	128	206	0.0206	97	0.0097	22	0.0022
00-092-052	1388 226	22	10	316	321	0.0321	149	0.0149	22	0.0022
00-092-053	1388 276	136	25	2590	1160	0.1160	946	0.0946	59	0.0059
00-092-054	1388 294	250	225	4060	2000	0.2000	1570	0.1570	82	0.0082
00-092-055	1388 276	18	< 5	96	234	0.0234	70	0.0070	29	0.0029
00-092-056	1388 276	12	< 5	44	146	0.0146	40	0.0040	27	0.0027
00-092-057	1388 276	10	270	1450	47	0.0047	245	0.0245	17	0.0017
00-092-058	1388 226	4	125	526	21	0.0021	126	0.0126	19	0.0019
00-092-059	1388 276	8	< 5	14	95	0.0095	47	0.0047	15	0.0015
00-092-060	1388 294	6	< 5	4	63	0.0063	54	0.0054	16	0.0016
00-092-061	1388 276	8	70	404	67	0.0067	169	0.0169	16	0.0016
00-092-062	1388 276	52	85	1105	586	0.0586	436	0.0436	28	0.0028
00-092-063	1388 294	12	60	290	105	0.0105	190	0.0190	24	0.0024
00-092-064	1388 226	58	400	2840	446	0.0446	492	0.0492	43	0.0043
00-092-065	1388 276	20	100	502	85	0.0085	231	0.0231	33	0.0033
00-092-066	1388 276	18	100	460	93	0.0093	240	0.0240	34	0.0034
092-STA-200	214 238	230	255	2920	1220	0.1220	1135	0.1135	45	0.0045

CERTIFICATION: *[Signature]*



# ALS Chemex

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 Analytical Chemists \* Geochemists \* Registered Assayers  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021874

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0021874**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-092  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 06-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	39	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	5	4-7 Kg crush and split
276	34	8-12 Kg crush and split
3202	39	Rock - save entire reject
238	40	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	40	Au ppb: FA ICP package	FA-ICP	2	10000
976	40	Pt ppb: FA ICP package	FA-ICP	5	10000
977	40	Pd ppb: FA ICP package	FA-ICP	2	10000
2	40	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	40	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	40	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	40	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	40	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	40	Co %: calculation from Co ppm	AAS	0.0001	10.000

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 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 1  
 Certificate Date: 06-JUL-2000  
 Invoice No. : 10021874  
 P.O. Number :  
 Account : MZI

Project : 00-092  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS

A0021874

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-092-067	1388	276	42	145	658	225	0.0225	318	0.0318	30	0.0030
00-092-068	1388	276	22	115	470	110	0.0110	211	0.0211	27	0.0027
00-092-069	1388	276	18	95	390	89	0.0089	113	0.0113	15	0.0015
00-092-070	1388	276	32	90	628	156	0.0156	135	0.0135	13	0.0013
00-092-071	1388	276	86	175	1270	436	0.0436	271	0.0271	24	0.0024
00-092-072	1388	276	64	150	1020	493	0.0493	470	0.0470	36	0.0036
00-092-073	1388	276	50	125	716	283	0.0283	301	0.0301	19	0.0019
00-092-074	1388	294	38	105	648	207	0.0207	253	0.0253	21	0.0021
00-092-075	1388	294	86	70	676	626	0.0626	361	0.0361	22	0.0022
00-092-076	1388	294	34	20	184	273	0.0273	218	0.0218	24	0.0024
00-092-077	1388	276	32	30	278	239	0.0239	180	0.0180	21	0.0021
00-092-078	1388	276	40	70	398	155	0.0155	154	0.0154	16	0.0016
00-092-079	1388	276	54	215	1050	312	0.0312	284	0.0284	27	0.0027
00-092-080	1388	276	48	165	766	332	0.0332	314	0.0314	30	0.0030
00-092-081	1388	276	26	65	498	171	0.0171	221	0.0221	26	0.0026
00-092-082	1388	276	38	90	688	227	0.0227	338	0.0338	30	0.0030
00-092-083	1388	276	22	55	302	140	0.0140	191	0.0191	23	0.0023
00-092-084	1388	276	22	125	588	129	0.0129	218	0.0218	24	0.0024
00-092-085	1388	276	180	120	1315	800	0.0800	530	0.0530	42	0.0042
00-092-086	1388	276	98	245	2030	813	0.0813	641	0.0641	37	0.0037
00-092-087	1388	276	14	115	854	109	0.0109	210	0.0210	27	0.0027
00-092-088	1388	276	20	85	554	115	0.0115	190	0.0190	28	0.0028
00-092-089	1388	276	14	45	294	100	0.0100	196	0.0196	28	0.0028
00-092-090	1388	276	26	65	290	132	0.0132	141	0.0141	19	0.0019
00-092-091	1388	276	108	95	540	413	0.0413	377	0.0377	28	0.0028
00-092-092	1388	276	26	30	294	165	0.0165	227	0.0227	33	0.0033
00-092-093	1388	276	40	90	498	201	0.0201	266	0.0266	37	0.0037
00-092-094	1388	276	12	25	160	147	0.0147	161	0.0161	26	0.0026
00-092-095	1388	276	12	10	92	120	0.0120	138	0.0138	25	0.0025
00-092-096	1388	276	8	30	122	126	0.0126	134	0.0134	25	0.0025
00-092-097	1388	294	12	55	266	134	0.0134	149	0.0149	28	0.0028
00-092-098	1388	294	14	90	344	188	0.0188	173	0.0173	27	0.0027
00-092-099	1388	276	10	45	148	105	0.0105	97	0.0097	17	0.0017
00-092-100	1388	276	16	70	172	166	0.0166	97	0.0097	16	0.0016
00-092-101	1388	276	30	80	566	287	0.0287	237	0.0237	24	0.0024
00-092-102	1388	276	18	95	418	201	0.0201	139	0.0139	17	0.0017
00-092-103	1388	276	30	80	532	409	0.0409	270	0.0270	25	0.0025
00-092-104	1388	276	8	25	124	154	0.0154	135	0.0135	25	0.0025
00-092-105	1388	276	26	55	274	300	0.0300	242	0.0242	31	0.0031
092-STA-207	214	238	292	335	3390	1215	0.1215	1095	0.1095	41	0.0041

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-092  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :1  
 Certificate Date: 06-JUL-2000  
 Invoice No. : I0021874  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021874

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-092-067	1388 276	42	145	658	225	0.0225	318	0.0318	30	0.0030	
00-092-068	1388 276	22	115	470	110	0.0110	211	0.0211	27	0.0027	
00-092-069	1388 276	18	95	390	89	0.0089	113	0.0113	15	0.0015	
00-092-070	1388 276	32	90	628	156	0.0156	135	0.0135	13	0.0013	
00-092-071	1388 276	86	175	1270	436	0.0436	271	0.0271	24	0.0024	
00-092-072	1388 276	64	150	1020	493	0.0493	470	0.0470	36	0.0036	
00-092-073	1388 276	50	125	716	283	0.0283	301	0.0301	19	0.0019	
00-092-074	1388 294	38	105	648	207	0.0207	253	0.0253	21	0.0021	
00-092-075	1388 294	86	70	676	626	0.0626	361	0.0361	22	0.0022	
00-092-076	1388 294	34	20	184	273	0.0273	218	0.0218	24	0.0024	
00-092-077	1388 276	32	30	278	239	0.0239	180	0.0180	21	0.0021	
00-092-078	1388 276	40	70	398	155	0.0155	154	0.0154	16	0.0016	
00-092-079	1388 276	54	215	1050	312	0.0312	284	0.0284	27	0.0027	
00-092-080	1388 276	48	165	766	332	0.0332	314	0.0314	30	0.0030	
00-092-081	1388 276	26	65	498	171	0.0171	221	0.0221	26	0.0026	
00-092-082	1388 276	38	90	688	227	0.0227	338	0.0338	30	0.0030	
00-092-083	1388 276	22	55	302	140	0.0140	191	0.0191	23	0.0023	
00-092-084	1388 276	22	125	588	129	0.0129	218	0.0218	24	0.0024	
00-092-085	1388 276	180	120	1315	800	0.0800	530	0.0530	42	0.0042	
00-092-086	1388 276	98	245	2030	813	0.0813	641	0.0641	37	0.0037	
00-092-087	1388 276	14	115	854	109	0.0109	210	0.0210	27	0.0027	
00-092-088	1388 276	20	85	554	115	0.0115	190	0.0190	28	0.0028	
00-092-089	1388 276	14	45	294	100	0.0100	196	0.0196	28	0.0028	
00-092-090	1388 276	26	65	290	132	0.0132	141	0.0141	19	0.0019	
00-092-091	1388 276	108	95	540	413	0.0413	377	0.0377	28	0.0028	
00-092-092	1388 276	26	30	294	165	0.0165	227	0.0227	33	0.0033	
00-092-093	1388 276	40	90	498	201	0.0201	266	0.0266	37	0.0037	
00-092-094	1388 276	12	25	160	147	0.0147	161	0.0161	26	0.0026	
00-092-095	1388 276	12	10	92	120	0.0120	138	0.0138	25	0.0025	
00-092-096	1388 276	8	30	122	126	0.0126	134	0.0134	25	0.0025	
00-092-097	1388 294	12	55	266	134	0.0134	149	0.0149	28	0.0028	
00-092-098	1388 294	14	90	344	188	0.0188	173	0.0173	27	0.0027	
00-092-099	1388 276	10	45	148	105	0.0105	97	0.0097	17	0.0017	
00-092-100	1388 276	16	70	172	166	0.0166	97	0.0097	16	0.0016	
00-092-101	1388 276	30	80	566	287	0.0287	237	0.0237	24	0.0024	
00-092-102	1388 276	18	95	418	201	0.0201	139	0.0139	17	0.0017	
00-092-103	1388 276	30	80	532	409	0.0409	270	0.0270	25	0.0025	
00-092-104	1388 276	8	25	124	154	0.0154	135	0.0135	25	0.0025	
00-092-105	1388 276	26	55	274	300	0.0300	242	0.0242	31	0.0031	
092-STA-207	214 238	292	335	3390	1215	0.1215	1095	0.1095	41	0.0041	

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

RECEIVED  
 JUL 25 2000

A0022021

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0022021

(MZI) - LAC DES ILES MINES LTD.

Project: 00-092  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 13-JUL-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	51	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	4	0-3 Kg crush and split
294	3	4-7 Kg crush and split
276	44	8-12 Kg crush and split
3202	51	Rock - save entire reject
238	52	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	52	Au ppb: FA ICP package	FA-ICP	2	10000
976	52	Pt ppb: FA ICP package	FA-ICP	5	10000
977	52	Pd ppb: FA ICP package	FA-ICP	2	10000
2	52	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	52	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	52	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	52	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	52	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	52	Co %: calculation from Co ppm	AAS	0.0001	10.000





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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-092  
 Comments: ATTN: MOE LAVIGNE

RECEIVED  
 JUL 25 2000

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 13-JUL-2000  
 Invoice No. : I0022021  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0022021

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-092-106	1388 276	38	140	868	309	0.0309	324	0.0324	31	0.0031
00-092-107	1388 276	58	100	926	468	0.0468	365	0.0365	30	0.0030
00-092-108	1388 276	56	110	650	390	0.0390	273	0.0273	25	0.0025
00-092-109	1388 226	20	75	770	241	0.0241	283	0.0283	24	0.0024
00-092-110	1388 276	12	< 5	188	128	0.0128	144	0.0144	22	0.0022
00-092-111	1388 294	2	< 5	4	97	0.0097	29	0.0029	10	0.0010
00-092-112	1388 276	10	< 5	92	172	0.0172	126	0.0126	21	0.0021
00-092-113	1388 276	20	10	148	298	0.0298	171	0.0171	27	0.0027
00-092-114	1388 276	16	10	200	271	0.0271	155	0.0155	24	0.0024
00-092-115	1388 276	8	10	104	149	0.0149	123	0.0123	23	0.0023
00-092-116	1388 226	16	10	134	169	0.0169	131	0.0131	23	0.0023
00-092-117	1388 226	50	30	486	320	0.0320	236	0.0236	25	0.0025
00-092-118	1388 276	26	10	270	151	0.0151	107	0.0107	17	0.0017
00-092-119	1388 276	18	25	180	133	0.0133	110	0.0110	17	0.0017
00-092-120	1388 276	36	25	444	146	0.0146	126	0.0126	16	0.0016
00-092-121	1388 294	14	20	128	119	0.0119	92	0.0092	14	0.0014
00-092-122	1388 276	62	45	454	203	0.0203	150	0.0150	17	0.0017
00-092-123	1388 276	20	20	204	108	0.0108	96	0.0096	15	0.0015
00-092-124	1388 276	34	60	560	209	0.0209	153	0.0153	17	0.0017
00-092-125	1388 276	36	105	876	216	0.0216	152	0.0152	15	0.0015
00-092-126	1388 276	48	120	1170	311	0.0311	316	0.0316	22	0.0022
00-092-127	1388 276	20	35	340	159	0.0159	168	0.0168	21	0.0021
00-092-128	1388 276	32	30	502	233	0.0233	167	0.0167	18	0.0018
00-092-129	1388 276	14	5	88	122	0.0122	102	0.0102	20	0.0020
00-092-130	1388 276	20	25	240	185	0.0185	123	0.0123	21	0.0021
00-092-131	1388 276	20	< 5	200	197	0.0197	104	0.0104	19	0.0019
00-092-132	1388 276	14	15	216	170	0.0170	83	0.0083	19	0.0019
00-092-133	1388 276	18	50	630	153	0.0153	128	0.0128	13	0.0013
00-092-134	1388 276	36	40	582	228	0.0228	142	0.0142	18	0.0018
00-092-135	1388 276	34	30	504	232	0.0232	129	0.0129	20	0.0020
00-092-136	1388 276	24	20	352	195	0.0195	221	0.0221	24	0.0024
00-092-137	1388 276	18	15	202	176	0.0176	143	0.0143	25	0.0025
00-092-138	1388 276	40	25	432	298	0.0298	183	0.0183	23	0.0023
00-092-139	1388 276	18	< 5	132	178	0.0178	98	0.0098	20	0.0020
00-092-140	1388 276	34	25	304	170	0.0170	132	0.0132	19	0.0019
00-092-141	1388 276	20	30	246	126	0.0126	87	0.0087	16	0.0016
00-092-142	1388 276	24	15	320	195	0.0195	153	0.0153	20	0.0020
00-092-143	1388 276	36	10	230	217	0.0217	164	0.0164	20	0.0020
00-092-144	1388 276	14	< 5	76	110	0.0110	107	0.0107	19	0.0019
00-092-145	1388 276	36	20	330	254	0.0254	163	0.0163	23	0.0023

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-092  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 13-JUL-2000  
 Invoice No. :10022021  
 P.O. Number :  
 Account :MZI

## CERTIFICATE OF ANALYSIS A0022021

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-092-146	1388	276	38	40	388	261	0.0261	227	0.0227	24	0.0024
00-092-147	1388	276	38	45	368	216	0.0216	175	0.0175	23	0.0023
00-092-148	1388	276	62	60	380	227	0.0227	195	0.0195	23	0.0023
00-092-149	1388	276	46	45	490	226	0.0226	169	0.0169	20	0.0020
00-092-150	1388	226	142	90	934	600	0.0600	411	0.0411	33	0.0033
00-092-151	1388	294	106	120	1440	503	0.0503	468	0.0468	31	0.0031
00-092-152	1388	276	216	210	2310	782	0.0782	629	0.0629	41	0.0041
00-092-153	1388	276	76	90	858	336	0.0336	350	0.0350	33	0.0033
00-092-154	1388	276	36	20	164	314	0.0314	247	0.0247	25	0.0025
00-092-155	1388	276	22	55	198	148	0.0148	136	0.0136	21	0.0021
00-092-156	1388	276	86	60	640	262	0.0262	267	0.0267	23	0.0023
092-STA-210	214	238	330	320	3300	1270	0.1270	1145	0.1145	41	0.0041

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0019175

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0019175**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-093  
 P.O. #:

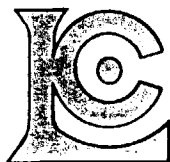
Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 26-MAY-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	54	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	1	0-3 Kg crush and split
294	28	4-7 Kg crush and split
276	25	8-12 Kg crush and split
3202	54	Rock - save entire reject
238	55	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	55	Au ppb: FA ICP package	FA-ICP	2	10000
976	55	Pt ppb: FA ICP package	FA-ICP	5	10000
977	55	Pd ppb: FA ICP package	FA-ICP	2	10000
2	55	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	55	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	55	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	55	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	55	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	55	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

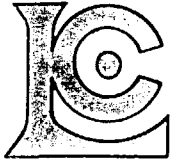
Project : 00-093  
 Comments : ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 26-MAY-2000  
 Invoice No. : 10019175  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019175

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-093-001	1388 226	78	70	908	633	0.0633	620	0.0620	57	0.0057
00-093-002	1388 294	20	10	166	144	0.0144	62	0.0062	10	0.0010
00-093-003	1388 276	6	< 5	38	77	0.0077	28	0.0028	9	0.0009
00-093-004	1388 294	6	< 5	36	98	0.0098	34	0.0034	11	0.0011
00-093-005	1388 276	52	80	1410	857	0.0857	265	0.0265	38	0.0038
00-093-006	1388 276	4	< 5	< 2	64	0.0064	21	0.0021	13	0.0013
00-093-007	1388 276	8	< 5	< 2	82	0.0082	23	0.0023	12	0.0012
00-093-008	1388 276	4	< 5	< 2	49	0.0049	18	0.0018	9	0.0009
00-093-009	1388 276	70	40	460	670	0.0670	225	0.0225	17	0.0017
00-093-010	1388 276	4	< 5	8	51	0.0051	22	0.0022	10	0.0010
00-093-011	1388 276	2	< 5	4	46	0.0046	20	0.0020	9	0.0009
00-093-012	1388 276	4	< 5	24	50	0.0050	31	0.0031	13	0.0013
00-093-013	1388 276	32	25	314	304	0.0304	124	0.0124	14	0.0014
00-093-014	1388 294	26	20	240	249	0.0249	84	0.0084	12	0.0012
00-093-015	1388 294	2	< 5	< 2	72	0.0072	29	0.0029	25	0.0025
00-093-016	1388 294	< 2	< 5	< 2	65	0.0065	21	0.0021	24	0.0024
00-093-017	1388 294	4	< 5	< 2	83	0.0083	19	0.0019	24	0.0024
00-093-018	1388 294	4	< 5	< 2	67	0.0067	21	0.0021	23	0.0023
00-093-019	1388 294	10	10	84	123	0.0123	97	0.0097	25	0.0025
00-093-020	1388 276	6	< 5	22	53	0.0053	32	0.0032	9	0.0009
00-093-021	1388 276	6	< 5	30	36	0.0036	27	0.0027	7	0.0007
00-093-022	1388 276	4	< 5	28	41	0.0041	28	0.0028	8	0.0008
00-093-023	1388 276	4	< 5	< 2	43	0.0043	21	0.0021	8	0.0008
00-093-024	1388 276	< 2	< 5	< 2	15	0.0015	17	0.0017	8	0.0008
00-093-025	1388 276	2	< 5	< 2	26	0.0026	15	0.0015	9	0.0009
00-093-026	1388 276	14	< 5	98	143	0.0143	38	0.0038	7	0.0007
00-093-027	1388 294	18	< 5	< 2	268	0.0268	21	0.0021	18	0.0018
00-093-028	1388 294	4	< 5	14	36	0.0036	18	0.0018	7	0.0007
00-093-029	1388 294	12	< 5	< 2	183	0.0183	28	0.0028	17	0.0017
00-093-030	1388 294	8	< 5	46	108	0.0108	56	0.0056	24	0.0024
00-093-031	1388 294	10	< 5	74	101	0.0101	70	0.0070	14	0.0014
00-093-032	1388 294	70	40	534	320	0.0320	176	0.0176	25	0.0025
00-093-033	1388 294	4	< 5	16	39	0.0039	30	0.0030	9	0.0009
00-093-034	1388 294	2	< 5	6	32	0.0032	21	0.0021	9	0.0009
00-093-035	1388 276	4	< 5	14	64	0.0064	21	0.0021	7	0.0007
00-093-036	1388 276	8	< 5	46	101	0.0101	52	0.0052	8	0.0008
00-093-037	1388 294	6	< 5	58	71	0.0071	38	0.0038	7	0.0007
00-093-038	1388 276	28	< 5	14	284	0.0284	36	0.0036	15	0.0015
00-093-039	1388 276	20	< 5	68	281	0.0281	84	0.0084	10	0.0010
00-093-040	1388 276	6	< 5	20	94	0.0094	57	0.0057	7	0.0007

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-093  
 Comments: ATTN: MOE LAVIGNE

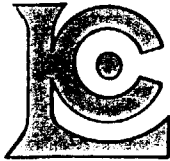
Page Number : 2  
 Total Pages : 2  
 Certificate Date: 26-MAY-2000  
 Invoice No. : 10019175  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0019175

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-093-041	1388 276	10	< 5	28	147	0.0147	108	0.0108	12	0.0012
00-093-042	1388 276	14	< 5	58	127	0.0127	93	0.0093	10	0.0010
00-093-043	1388 294	8	< 5	46	81	0.0081	67	0.0067	10	0.0010
00-093-044	1388 294	12	10	96	116	0.0116	91	0.0091	13	0.0013
00-093-045	1388 294	14	< 5	36	242	0.0242	191	0.0191	29	0.0029
00-093-046	1388 294	48	135	2350	510	0.0510	1470	0.1470	70	0.0070
00-093-047	1388 294	32	50	974	198	0.0198	681	0.0681	40	0.0040
00-093-048	1388 294	92	80	928	673	0.0673	741	0.0741	48	0.0048
00-093-049	1388 294	32	10	158	313	0.0313	349	0.0349	37	0.0037
00-093-050	1388 294	102	125	1700	1170	0.1170	904	0.0904	55	0.0055
00-093-051	1388 294	94	50	652	1325	0.1325	798	0.0798	51	0.0051
00-093-052	1388 294	16	15	92	277	0.0277	179	0.0179	22	0.0022
00-093-053	1388 294	42	220	568	435	0.0435	383	0.0383	29	0.0029
00-093-054	1388 276	20	55	414	227	0.0227	256	0.0256	24	0.0024
093-STA-153	214 238	336	300	3300	1285	0.1285	1120	0.1120	43	0.0043

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

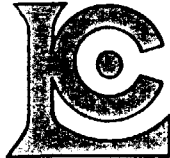
Project: 00-093  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 31-MAY-2000  
 Invoice No. : 10019192  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019192

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-093-055	1388	276	42	75	388	460	0.0460	317	0.0317	27	0.0027
00-093-056	1388	276	24	80	412	393	0.0393	220	0.0220	21	0.0021
00-093-057	1388	276	18	15	184	185	0.0185	161	0.0161	17	0.0017
00-093-058	1388	276	60	80	1295	1225	0.1225	636	0.0636	55	0.0055
00-093-059	1388	294	20	15	244	219	0.0219	149	0.0149	17	0.0017
00-093-060	1388	294	24	15	290	209	0.0209	205	0.0205	20	0.0020
00-093-061	1388	276	14	30	498	280	0.0280	254	0.0254	23	0.0023
00-093-062	1388	276	28	70	520	237	0.0237	200	0.0200	22	0.0022
00-093-063	1388	276	30	65	298	205	0.0205	183	0.0183	21	0.0021
00-093-064	1388	294	22	85	430	159	0.0159	174	0.0174	23	0.0023
00-093-065	1388	294	12	5	102	154	0.0154	70	0.0070	14	0.0014
00-093-066	1388	276	36	< 5	50	125	0.0125	99	0.0099	15	0.0015
00-093-067	1388	294	50	180	988	263	0.0263	246	0.0246	23	0.0023
00-093-068	1388	294	38	120	638	188	0.0188	222	0.0222	24	0.0024
00-093-069	1388	276	28	85	536	162	0.0162	177	0.0177	23	0.0023
00-093-070	1388	276	24	50	350	154	0.0154	167	0.0167	26	0.0026
00-093-071	1388	276	26	50	410	157	0.0157	178	0.0178	23	0.0023
00-093-072	1388	276	62	110	1125	451	0.0451	386	0.0386	40	0.0040
00-093-073	1388	276	50	70	706	232	0.0232	298	0.0298	29	0.0029
00-093-074	1388	276	24	45	290	216	0.0216	225	0.0225	32	0.0032
00-093-075	1388	294	42	100	500	243	0.0243	247	0.0247	41	0.0041
00-093-076	1388	294	16	60	200	112	0.0112	115	0.0115	20	0.0020
00-093-077	1388	3202	8	100	288	57	0.0057	87	0.0087	14	0.0014
00-093-078	1388	276	72	115	638	224	0.0224	182	0.0182	21	0.0021
00-093-079	1388	276	44	140	896	271	0.0271	268	0.0268	24	0.0024
00-093-080	1388	276	60	80	570	169	0.0169	225	0.0225	30	0.0030
00-093-081	1388	276	12	65	268	87	0.0087	219	0.0219	28	0.0028
00-093-082	1388	276	24	50	386	151	0.0151	147	0.0147	18	0.0018
00-093-083	1388	276	40	65	368	251	0.0251	190	0.0190	30	0.0030
00-093-084	1388	276	56	90	604	271	0.0271	246	0.0246	32	0.0032
00-093-085	1388	276	44	80	490	254	0.0254	217	0.0217	27	0.0027
00-093-086	1388	276	30	55	458	263	0.0263	228	0.0228	24	0.0024
00-093-087	1388	276	46	70	292	191	0.0191	161	0.0161	23	0.0023
00-093-088	1388	294	36	115	638	184	0.0184	153	0.0153	21	0.0021
00-093-089	1388	294	34	35	314	227	0.0227	209	0.0209	27	0.0027
00-093-090	1388	276	50	45	408	278	0.0278	204	0.0204	25	0.0025
00-093-091	1388	294	82	80	964	393	0.0393	262	0.0262	27	0.0027
00-093-092	1388	294	36	80	494	207	0.0207	150	0.0150	21	0.0021
00-093-093	1388	294	54	70	270	203	0.0203	159	0.0159	22	0.0022
00-093-094	1388	276	154	125	1350	506	0.0506	403	0.0403	36	0.0036

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

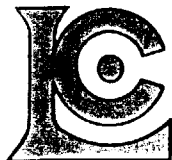
Project : 00-093  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 3  
 Certificate Date: 31-MAY-2000  
 Invoice No. : 10019192  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019192

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-093-095	1388	276	44	50	440	264	0.0264	188	0.0188	24	0.0024
00-093-096	1388	276	26	20	274	148	0.0148	111	0.0111	16	0.0016
00-093-097	1388	294	38	70	316	218	0.0218	128	0.0128	22	0.0022
00-093-098	1388	294	122	85	1180	531	0.0531	339	0.0339	28	0.0028
00-093-099	1388	294	38	65	368	234	0.0234	159	0.0159	24	0.0024
00-093-100	1388	294	78	140	1020	465	0.0465	282	0.0282	29	0.0029
00-093-101	1388	226	46	130	602	303	0.0303	212	0.0212	25	0.0025
00-093-102	1388	276	40	125	520	278	0.0278	174	0.0174	18	0.0018
00-093-103	1388	276	34	135	646	284	0.0284	163	0.0163	18	0.0018
00-093-104	1388	294	44	80	692	245	0.0245	195	0.0195	26	0.0026
00-093-105	1388	294	56	35	544	387	0.0387	187	0.0187	26	0.0026
00-093-106	1388	294	12	10	64	109	0.0109	86	0.0086	15	0.0015
00-093-107	1388	294	20	30	222	140	0.0140	101	0.0101	20	0.0020
00-093-108	1388	276	22	75	352	136	0.0136	117	0.0117	19	0.0019
00-093-109	1388	294	48	140	1475	299	0.0299	328	0.0328	26	0.0026
00-093-110	1388	294	26	20	310	257	0.0257	150	0.0150	22	0.0022
00-093-111	1388	294	16	10	46	149	0.0149	104	0.0104	21	0.0021
00-093-112	1388	294	26	< 5	14	370	0.0370	29	0.0029	26	0.0026
00-093-113	1388	294	20	15	34	135	0.0135	85	0.0085	21	0.0021
00-093-114	1388	294	6	< 5	4	72	0.0072	25	0.0025	9	0.0009
00-093-115	1388	276	16	10	28	137	0.0137	86	0.0086	22	0.0022
00-093-116	1388	276	12	5	22	130	0.0130	80	0.0080	21	0.0021
00-093-117	1388	294	12	10	24	130	0.0130	117	0.0117	21	0.0021
00-093-118	1388	226	14	10	30	127	0.0127	80	0.0080	20	0.0020
00-093-119	1388	294	22	15	166	185	0.0185	131	0.0131	24	0.0024
00-093-120	1388	294	12	15	30	122	0.0122	84	0.0084	21	0.0021
00-093-121	1388	276	14	15	66	132	0.0132	96	0.0096	22	0.0022
00-093-122	1388	276	14	15	64	136	0.0136	93	0.0093	18	0.0018
00-093-123	1388	294	18	35	112	129	0.0129	99	0.0099	19	0.0019
00-093-124	1388	294	12	5	38	131	0.0131	89	0.0089	18	0.0018
00-093-125	1388	294	8	10	34	64	0.0064	73	0.0073	18	0.0018
00-093-126	1388	294	8	5	58	104	0.0104	67	0.0067	15	0.0015
00-093-127	1388	294	10	10	62	112	0.0112	80	0.0080	17	0.0017
00-093-128	1388	294	10	< 5	18	91	0.0091	75	0.0075	16	0.0016
00-093-129	1388	294	20	35	264	124	0.0124	114	0.0114	19	0.0019
00-093-130	1388	294	16	10	40	135	0.0135	84	0.0084	18	0.0018
00-093-131	1388	226	54	70	650	282	0.0282	200	0.0200	21	0.0021
00-093-132	1388	294	14	25	140	91	0.0091	108	0.0108	19	0.0019
00-093-133	1388	294	18	15	104	126	0.0126	125	0.0125	21	0.0021
00-093-134	1388	294	20	20	246	69	0.0069	44	0.0044	10	0.0010

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-093  
 Comments: ATTN: MOE LAVIGNE

Page Number : 3  
 Total Pages : 3  
 Certificate Date: 31-MAY-2000  
 Invoice No. : 10019192  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0019192

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-093-135	1388 226	32	60	522	177	0.0177	180	0.0180	26	0.0026
00-093-136	1388 294	46	125	1275	372	0.0372	313	0.0313	28	0.0028
00-093-137	1388 226	18	10	46	227	0.0227	64	0.0064	19	0.0019
00-093-138	1388 294	16	10	72	131	0.0131	72	0.0072	21	0.0021
00-093-139	1388 294	18	15	40	164	0.0164	109	0.0109	25	0.0025
00-093-140	1388 276	26	25	248	202	0.0202	136	0.0136	22	0.0022
00-093-141	1388 294	14	20	50	84	0.0084	114	0.0114	24	0.0024
00-093-142	1388 294	18	20	42	135	0.0135	138	0.0138	25	0.0025
00-093-143	1388 294	14	35	130	109	0.0109	117	0.0117	25	0.0025
00-093-144	1388 294	50	55	490	293	0.0293	284	0.0284	34	0.0034
00-093-145	1388 276	78	50	280	288	0.0288	240	0.0240	28	0.0028
00-093-146	1388 276	84	95	712	579	0.0579	266	0.0266	30	0.0030
00-093-147	1388 276	30	45	186	154	0.0154	126	0.0126	21	0.0021
00-093-148	1388 276	84	95	908	441	0.0441	309	0.0309	28	0.0028
00-093-149	1388 276	100	180	1850	572	0.0572	507	0.0507	46	0.0046
00-093-150	1388 294	20	50	308	115	0.0115	134	0.0134	24	0.0024
00-093-151	1388 294	24	25	144	127	0.0127	111	0.0111	19	0.0019
00-093-152	1388 294	10	35	234	15	0.0015	160	0.0160	25	0.0025
00-093-153	1388 294	20	25	204	121	0.0121	135	0.0135	17	0.0017
00-093-154	1388 294	94	80	940	472	0.0472	362	0.0362	31	0.0031
00-093-155	1388 276	18	20	96	149	0.0149	101	0.0101	17	0.0017
00-093-156	1388 294	26	45	380	153	0.0153	118	0.0118	15	0.0015
00-093-157	1388 276	30	60	368	184	0.0184	196	0.0196	19	0.0019
00-093-158	1388 276	32	45	352	212	0.0212	138	0.0138	17	0.0017
00-093-159	1388 276	20	35	190	175	0.0175	143	0.0143	19	0.0019
00-093-160	1388 276	18	40	138	144	0.0144	121	0.0121	16	0.0016
00-093-161	1388 276	12	20	102	102	0.0102	125	0.0125	19	0.0019
00-093-162	1388 276	26	65	312	132	0.0132	162	0.0162	19	0.0019
00-093-163	1388 276	30	50	368	143	0.0143	163	0.0163	23	0.0023
093-STA-156	2143 202	286	275	2910	1235	0.1235	1160	0.1160	40	0.0040

CERTIFICATION: \_\_\_\_\_





# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

REC-111111  
JUN 27 2000

## Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO-P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

Tuesday, June 27, 2000

Lac Des Iles Mines Ltd.(Exp.). Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 21-Jun-00  
Date Completed : 26-Jun-00  
Job # 200040428  
Reference : 00-101  
Sample #: 37      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15517	00-101-1	0.060	0.155	1.068			0.003	0.074		0.030		
15518	00-101-2	0.047	0.097	0.602			0.003	0.031		0.030		
15519	00-101-3	0.158	0.252	0.936			0.004	0.146		0.059		
15520	00-101-3A	0.152	0.264	2.541			0.003	0.050		0.034		
15521	00-101-4	0.079	0.130	0.787			0.003	0.033		0.035		
15522	00-101-5	0.067	0.210	0.718			0.003	0.055		0.044		
15523	00-101-6	0.020	0.049	0.217			0.003	0.023		0.034		
15524	00-101-7	0.018	0.025	0.135			0.003	0.027		0.011		
15525	00-101-8	0.019	0.055	0.281			0.003	0.031		0.022		
15526	00-101-9	0.015	0.027	0.087			0.003	0.021		0.015		
15527	00-101-10	0.013	0.034	0.110			0.004	0.020		0.020		
15528	Check 00-101-10	0.019	0.033	0.116			0.004	0.019		0.018		
15529	00-101-11	0.021	< 0.015	0.107			0.004	0.045		0.026		
15530	00-101-12	0.048	0.033	0.454			0.003	0.036		0.019		
15531	00-101-13	0.008	0.018	0.134			0.004	0.012		0.013		
15532	00-101-14	0.010	< 0.015	0.053			0.002	0.010		0.010		
15533	00-101-15	0.032	< 0.015	0.057			0.002	0.019		0.009		
15534	00-101-16	0.017	0.032	0.188			0.003	0.018		0.018		
15535	00-101-17	0.033	0.069	0.553			0.002	0.025		0.022		
15536	00-101-18	0.104	0.111	1.137			0.003	0.047		0.036		
15537	00-101-19	0.030	0.054	0.549			0.002	0.020		0.022		
15538	00-101-20	0.035	< 0.015	0.015			0.001	0.026		0.004		
15539	Check 00-101-20	0.034	< 0.015	0.020			0.001	0.025		0.004		
15540	00-101-21	0.037	0.078	0.701			0.003	0.027		0.025		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:

Handwritten note: 15539



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Tuesday, June 27, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 21-Jun-00  
Date Completed : 26-Jun-00  
Job # 200040428  
Reference : 00-101  
Sample #: 37      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15541	00-101-22	0.036	0.151	0.872			0.004	0.033		0.034		
15542	00-101-23	0.016	0.135	0.527			0.003	0.012		0.025		
15543	00-101-24	0.041	0.101	1.046			0.003	0.020		0.039		
15544	00-101-25	0.095	0.072	0.552			0.004	0.015		0.022		
15545	00-101-26	< 0.005	< 0.015	< 0.01			< 0.001	0.003		0.002		
15546	00-101-27	0.009	0.073	0.211			0.003	0.015		0.019		
15547	00-101-28	0.012	0.052	0.159			0.003	0.016		0.013		
15548	00-101-29	0.042	0.067	0.538			0.003	0.029		0.025		
15549	00-101-30	0.016	0.082	0.364			0.003	0.021		0.021		
15550	Check 00-101-30	0.017	0.037	0.347			0.003	0.023		0.022		
15551	00-101-31	0.023	0.113	0.727			0.003	0.030		0.027		
15552	00-101-32	0.052	0.063	0.541			0.004	0.031		0.033		
15553	00-101-33	0.047	0.060	0.320			0.004	0.025		0.026		
15554	00-101-34	0.010	0.043	0.159			0.004	0.011		0.018		
15555	00-101-35	0.034	0.088	0.443			0.006	0.065		0.062		
15556	00-101-36	0.108	0.139	0.957			0.008	0.181		0.140		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Page 2 of 2

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1670 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Thursday, June 29, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 23-Jun-00  
Date Completed : 28-Jun-00  
Job # 200040437  
Reference : 00-101  
Sample #: 27      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15991	00-101-37	0.061	0.061	0.493			0.005	0.078		0.064		
15992	00-101-38	0.180	0.094	0.921			0.004	0.068		0.050		
15993	00-101-39	0.040	0.083	0.426			0.004	0.028		0.029		
15994	00-101-40	0.045	0.257	0.759			0.005	0.028		0.038		
15995	Check 00-101-40	0.094	0.257	0.759			0.005	0.028		0.038		
15996	00-101-41	0.059	0.131	1.605			0.004	0.044		0.041		
15997	00-101-42	0.011	0.139	0.290			0.003	0.010		0.016		
15998	00-101-43	0.084	0.293	1.069			0.004	0.059		0.046		
15999	00-101-44	0.052	0.110	0.663			0.003	0.029		0.025		
16000	00-101-45	0.040	0.115	0.899			0.003	0.037		0.038		
16001	00-101-46	0.073	0.156	1.136			0.004	0.039		0.031		
16002	00-101-47	0.040	0.394	1.679			0.005	0.011		0.024		
16003	00-101-48	0.061	0.183	1.275			0.004	0.029		0.038		
16004	00-101-49	0.041	0.087	0.574			0.003	0.021		0.024		
16005	00-101-50	0.059	0.054	0.735			0.004	0.043		0.042		
16006	Check 00-101-50	0.056	0.058	0.721			0.004	0.042		0.039		
16007	00-101-51	0.139	0.082	1.644			0.005	0.069		0.061		
16008	00-101-52	0.059	0.116	1.133			0.004	0.036		0.050		
16009	00-101-53	0.042	0.119	0.716			0.005	0.022		0.031		
16010	00-101-54	0.028	0.095	0.458			0.004	0.010		0.021		
16011	00-101-55	0.022	0.105	0.524			0.004	0.012		0.028		
16012	00-101-56	0.013	0.104	0.472			0.004	0.006		0.021		
16013	00-101-57	0.029	0.358	1.679			0.003	0.007		0.022		
16014	00-101-58	0.027	0.222	1.165			0.005	0.012		0.028		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

## Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

Sunday, August 13, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961  
Email:

Date Received : 23-Jun-00  
Date Completed : 28-Jun-00  
Job # 200040437  
Reference : 00-101  
Sample #: 27      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	rh g/t	Ag ppm	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16015	00-101-59	0.026	0.090	0.561			0.004	0.014		0.028		
16016	00-101-60	0.034	0.153	0.786			0.004	0.021		0.029		
16017	Check 00-101-60	0.053	0.174	0.786			0.004	0.020		0.029		
16018	00-101-61	0.013	0.085	0.442			0.003	0.008		0.022		
16019	00-101-62	0.036	0.109	0.493			0.002	0.025		0.018		
16020	00-101-63	0.037	0.205	1.059			0.002	0.018		0.021		
17409	00-101-40A	0.073	0.147	1.107			0.004	0.052		0.033		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO, P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Thursday, June 29, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 23-Jun-00  
Date Completed : 29-Jun-00  
Job # 200040451  
Reference : 00-101  
Sample #: 23      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16150	00-101-64	0.031	0.188	0.775			0.007	0.069		0.061		
16151	00-101-65	0.068	0.320	1.144			0.006	0.077		0.073		
16152	00-101-66	0.070	0.490	1.618			0.005	0.088		0.102		
16153	00-101-67	0.067	0.534	3.745			0.008	0.170		0.206		
16154	00-101-68	0.045	0.511	2.679			0.008	0.306		0.191		
16155	00-101-69	0.135	0.962	5.722			0.014	0.204		0.276		
16156	00-101-70	0.124	1.215	5.940			0.007	0.200		0.220		
16157	00-101-71	0.105	0.881	2.699			0.008	0.120		0.139		
16159	00-100-71A	0.041	0.755	2.958			0.009	0.142		0.142		
16160	Check 00-101-71A	0.116	0.743	3.094			0.008	0.122		0.125		
16161	00-101-72	0.180	1.379	8.203			0.011	0.264		0.274		
16162	00-101-73	0.208	2.033	10.699			0.016	0.404		0.433		
16163	00-101-74	0.328	2.027	8.488			0.015	0.287		0.284		
16164	00-101-75	0.195	0.998	4.417			0.014	0.320		0.305		
16165	00-101-76	0.119	0.519	2.787			0.015	0.262		0.249		
16166	00-101-77	0.248	0.836	5.668			0.019	0.372		0.473		
16167	00-101-78	0.231	1.126	5.907			0.005	0.150		0.129		
16168	00-101-79	0.125	0.552	2.683			0.006	0.146		0.123		
16169	00-101-80	0.067	0.358	1.737			0.004	0.096		0.066		
16170	Check 00-101-80	0.078	0.375	1.762			0.005	0.102		0.077		
16171	00-101-81	0.115	0.801	5.197			0.010	0.207		0.278		
16172	00-101-82	0.103	0.180	1.629			0.008	0.079		0.108		
16173	00-101-83	0.177	0.198	2.223			0.010	0.186		0.193		
16174	00-101-84	0.053	0.281	1.860			0.007	0.085		0.101		

PROCEDURE CODES: AL1APP, AL1Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Thursday, June 29, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 23-Jun-00  
Date Completed : 29-Jun-00  
Job # 200040451  
Reference : 00-101  
Sample #: 23      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16175	101-STA-197	0.180	0.156	2.867			0.007	0.169		0.152		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

JUL 2 1 2000

## Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

Monday, July 03, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 26-Jun-00  
Date Completed : 30-Jun-00  
Job # 200040455  
Reference : 00-101  
Sample #: 49      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16212	00-101-85	0.079	0.272	1.661			0.004	0.043		0.045		
16213	00-101-86	0.053	0.321	1.069			0.004	0.038		0.036		
16214	00-101-87	0.046	0.393	2.092			0.004	0.030		0.045		
16215	00-101-88	0.106	1.416	5.926			0.004	0.027		0.070		
16216	00-101-89	0.161	0.692	5.730			0.006	0.160		0.157		
16217	00-101-90	0.029	0.578	2.986			0.005	0.055		0.086		
16218	00-101-91	0.025	0.640	3.496			0.007	0.123		0.188		
16219	00-101-92	0.023	< 0.015	< 0.01			0.002	0.030		0.006		
16220	00-101-93	0.009	< 0.015	< 0.01			0.002	0.006		0.006		
16221	00-101-94	0.034	0.250	1.154			0.004	0.027		0.056		
16222	Check 00-101-94	0.039	0.232	1.242			0.004	0.028		0.055		
16223	00-101-95	0.039	0.179	0.921			0.004	0.018		0.036		
16224	00-101-96	0.100	0.321	1.864			0.004	0.042		0.051		
16225	00-101-97	0.103	0.493	2.383			0.005	0.065		0.071		
16226	00-101-98	0.153	0.506	2.564			0.005	0.073		0.067		
16227	00-101-99	0.063	0.359	1.891			0.004	0.068		0.067		
16228	00-101-100	0.033	0.194	0.829			0.004	0.028		0.039		
16229	00-101-101	0.052	0.318	1.477			0.005	0.040		0.050		
16230	00-101-102	0.020	0.141	0.724			0.003	0.016		0.028		
16231	00-101-103	0.058	0.203	0.834			0.004	0.035		0.035		
16232	Check 00-101-103	0.056	0.175	1.002			0.004	0.033		0.035		
16233	00-101-104	0.176	0.442	2.455			0.006	0.161		0.119		
16234	00-101-105	0.088	0.400	3.486			0.005	0.070		0.104		
16235	00-101-106	0.124	0.434	3.476			0.005	0.095		0.110		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Monday, July 03, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 26-Jun-00  
Date Completed : 30-Jun-00  
Job # 200040455  
Reference : 00-101  
Sample #: 49      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16236	00-101-107	0.050	0.236	1.054			0.004	0.034		0.038		
16237	00-101-108	0.212	0.272	1.748			0.004	0.057		0.054		
16238	00-101-109	0.211	0.318	1.445			0.004	0.068		0.057		
16239	00-101-110	0.076	0.195	1.552			0.004	0.051		0.052		
16240	00-101-111	0.148	0.247	2.772			0.004	0.085		0.079		
16241	00-101-112	0.061	0.219	1.426			0.004	0.052		0.059		
16242	Check 00-101-112	0.050	0.193	1.357			0.004	0.049		0.055		
16243	00-101-113	0.112	0.351	4.192			0.008	0.153		0.252		
16244	00-101-114	0.041	0.194	0.505			0.004	0.044		0.043		
16245	00-101-115	0.131	0.266	1.349			0.007	0.158		0.150		
16246	00-101-116	0.029	0.175	0.860			0.005	0.023		0.041		
16247	00-101-117	< 0.005	0.082	0.164			0.003	0.004		0.017		
16248	00-101-118	0.011	0.101	0.309			0.004	0.013		0.019		
16249	00-101-119	0.013	0.137	0.350			0.003	0.021		0.019		
16250	00-101-120	0.009	0.100	0.174			0.003	0.010		0.018		
16251	00-101-121	0.017	0.062	0.338			0.003	0.022		0.019		
16252	Check 00-101-121	0.015	0.055	0.285			0.003	0.022		0.021		
16253	00-101-122	0.009	0.057	0.224			0.003	0.011		0.015		
16254	00-101-123	0.009	0.054	0.165			0.003	0.014		0.014		
16255	00-101-124	0.012	0.054	0.177			0.003	0.022		0.025		
16256	00-101-125	< 0.005	< 0.015	< 0.01			0.004	0.010		0.022		
16257	00-101-126	0.008	< 0.015	0.058			0.004	0.012		0.024		
16258	00-101-127	0.018	0.060	0.378			0.004	0.020		0.027		
16259	00-101-128	0.006	0.074	0.449			0.003	0.010		0.020		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:





# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Monday, July 03, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 26-Jun-00  
Date Completed : 30-Jun-00  
Job # 200040455  
Reference : 00-101  
Sample #: 49      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16260	00-101-129	< 0.005	< 0.015	< 0.01			0.001	0.004		0.003		
16261	00-101-130	0.052	0.092	0.652			0.003	0.042		0.053		
16262	Check 00-101-130	0.048	0.087	0.668			0.003	0.043		0.054		
16263	00-101-131	0.031	0.104	0.792			0.003	0.040		0.034		
16264	00-101-132	0.019	0.032	0.196			0.003	0.016		0.017		
16265	101-STA-204	0.216	0.307	2.778			0.005	0.141		0.119		

PROCEDURE CODES: ALAAPP, ALAg, ALACu, ALANi

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Monday, July 10, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 26-Jun-00  
Date Completed : 30-Jun-00  
Job # 200040463  
Reference : 00-101 eoh  
Sample #: 35      Core

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
16928	00-101-133	0.042	0.208	0.732			0.002	0.046		0.025		
16929	00-101-134	0.060	0.054	0.689			0.002	0.025		0.019		
16930	00-101-135	0.034	0.063	0.545			0.002	0.032		0.021		
16931	00-101-136	0.022	0.019	0.233			0.002	0.024		0.017		
16932	00-101-137	0.011	< 0.015	0.015			0.002	0.015		0.010		
16933	00-101-138	0.016	0.020	0.022			0.002	0.018		0.012		
16934	00-101-139	0.020	< 0.015	0.109			0.002	0.020		0.014		
16935	00-101-140	0.065	0.060	0.743			0.003	0.037		0.033		
16936	00-101-141	0.023	< 0.015	0.070			0.002	0.015		0.010		
16937	00-101-142	0.015	< 0.015	0.014			0.003	0.011		0.003		
16938	Check 00-101-142	0.020	< 0.015	< 0.01			0.003	0.011		0.003		
16939	00-101-143	0.126	0.124	1.299			0.003	0.056		0.056		
16940	00-101-144	0.097	0.101	0.826			0.003	0.055		0.039		
16941	00-101-145	0.624	0.492	8.759			0.001	0.003		0.001		
16942	00-101-146	0.161	0.252	3.526			0.004	0.142		0.119		
16943	00-101-147	0.098	0.186	1.395			0.003	0.073		0.050		
16944	00-101-148	0.156	0.079	0.666			0.003	0.046		0.037		
16945	00-101-149	0.194	0.339	1.911			0.004	0.070		0.058		
16946	00-101-150	0.033	0.077	< 0.01			0.003	0.032		0.019		
16947	00-101-151	0.026	0.081	0.839			0.002	0.008		0.016		
16948	Check 00-101-151	0.022	0.076	0.539			0.002	0.009		0.016		
16949	00-101-152	0.029	0.065	0.470			0.002	0.016		0.016		
16950	00-101-153	0.147	0.060	0.383			0.003	0.014		0.014		
16951	00-101-154	0.124	0.172	1.227			0.003	0.069		0.051		

PROCEDURE CODES: AL4APP, AL4Co, AL4Cu, AL4Ni

Certified By:



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2  
THUNDER BAY, ONTARIO P7B 6G3  
PHONE (807) 623-6448  
FAX (807) 623-6820

## Certificate of Analysis

Wednesday, June 28, 2000

Lac Des Iles Mines Ltd.(Exp.), Exploration Office  
P.O. Box 3388, Station P.  
Thunder Bay, ON, CAN  
P7B5J9  
Ph#: (807) 624-0960  
Fax#: (807) 624-0961

Date Received : 21-Jun-00  
Date Completed : 27-Jun-00  
Job # 200040429  
Reference : CF  
Sample #: 24      Rock

Accurassay #	Client Id	Au g/t	Pt g/t	Pd g/t	Rh g/t	Ag %	Co %	Cu %	Fe %	Ni %	Pb %	Zn %
15582	CF-06-20-19	0.013	0.055	1.152			0.002	0.004		0.011		
15583	CF-06-20-20	0.734	0.450	1.620			0.008	0.467		0.332		

PROCEDURE CODES: AL4APR, AL4Co, AL4Cu, AL4Ni

Certified By:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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A0021313

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021313

(MZI) - LAC DES ILES MINES LTD.

Project: 00-130  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 11-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	6	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	1	0-3 Kg crush and split
276	5	8-12 Kg crush and split
3202	6	Rock - save entire reject
238	7	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	7	Au ppb: FA ICP package	FA-ICP	2	10000
976	7	Pt ppb: FA ICP package	FA-ICP	5	10000
977	7	Pd ppb: FA ICP package	FA-ICP	2	10000
2	7	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	7	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	7	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	7	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	7	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	7	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.

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Page Number : 1  
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 Invoice No. : 10021313  
 P.O. Number :  
 Account : MZI

Project : 00-130  
 Comments: ATTN: MOE LAVIGNE

CERTIFICATE OF ANALYSIS A0021313

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-001	1388	276	88	175	1910	448	0.0448	414	0.0414	19	0.0019
00-130-002	1388	226	28	60	246	262	0.0262	148	0.0148	23	0.0023
00-130-003	1388	276	10	130	408	59	0.0059	105	0.0105	13	0.0013
00-130-004	1388	276	6	115	378	56	0.0056	109	0.0109	14	0.0014
00-130-005	1388	276	6	125	398	63	0.0063	107	0.0107	13	0.0013
00-130-006	1388	276	4	130	424	58	0.0058	101	0.0101	12	0.0012
130-STA-185	214	238	264	300	3470	1195	0.1195	1090	0.1090	46	0.0046

CERTIFICATION: *Sarah Lavin*



# ALS Chemex

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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021410

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021410

(MZI) - LAC DES ILES MINES LTD.

Project: 00-130  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 04-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	72	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	1	0-3 Kg crush and split
294	23	4-7 Kg crush and split
276	48	8-12 Kg crush and split
3202	72	Rock - save entire reject
238	73	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	73	Au ppb: FA ICP package	FA-ICP	2	10000
976	73	Pt ppb: FA ICP package	FA-ICP	5	10000
977	73	Pd ppb: FA ICP package	FA-ICP	2	10000
2	73	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	73	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	73	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	73	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	73	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	73	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
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Project: 00-130  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :2  
 Certificate Date: 04-JUL-2000  
 Invoice No. : I0021410  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021410

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-007	1388 276	< 2	135	394	57	0.0057	124	0.0124	15	0.0015
00-130-008	1388 276	< 2	135	396	59	0.0059	140	0.0140	16	0.0016
00-130-009	1388 276	< 2	145	480	50	0.0050	125	0.0125	14	0.0014
00-130-010	1388 276	< 2	150	476	51	0.0051	109	0.0109	13	0.0013
00-130-011	1388 276	< 2	150	520	46	0.0046	113	0.0113	11	0.0011
00-130-012	1388 276	16	120	740	82	0.0082	154	0.0154	16	0.0016
00-130-013	1388 276	8	75	454	80	0.0080	133	0.0133	14	0.0014
00-130-014	1388 276	30	105	792	154	0.0154	231	0.0231	18	0.0018
00-130-015	1388 276	< 2	60	346	54	0.0054	113	0.0113	12	0.0012
00-130-016	1388 276	4	60	352	54	0.0054	138	0.0138	22	0.0022
00-130-017	1388 276	6	55	338	56	0.0056	127	0.0127	15	0.0015
00-130-018	1388 276	22	100	630	121	0.0121	168	0.0168	16	0.0016
00-130-019	1388 294	14	60	404	91	0.0091	128	0.0128	13	0.0013
00-130-020	1388 294	64	200	1045	365	0.0365	312	0.0312	22	0.0022
00-130-021	1388 294	22	105	574	180	0.0180	230	0.0230	22	0.0022
00-130-022	1388 294	74	175	908	410	0.0410	366	0.0366	24	0.0024
00-130-023	1388 294	64	50	194	249	0.0249	195	0.0195	17	0.0017
00-130-024	1388 294	20	55	264	173	0.0173	172	0.0172	17	0.0017
00-130-025	1388 294	16	35	170	183	0.0183	141	0.0141	16	0.0016
00-130-026	1388 276	8	55	296	108	0.0108	154	0.0154	20	0.0020
00-130-027	1388 276	2	45	254	60	0.0060	170	0.0170	21	0.0021
00-130-028	1388 276	22	55	508	226	0.0226	111	0.0111	25	0.0025
00-130-029	1388 294	216	660	5890	1140	0.1140	1070	0.1070	44	0.0044
00-130-030	1388 276	248	565	4580	1225	0.1225	1025	0.1025	33	0.0033
00-130-031	1388 276	282	600	3610	2030	0.2030	1535	0.1535	44	0.0044
00-130-032	1388 276	280	395	2290	2120	0.2120	1730	0.1730	50	0.0050
00-130-033	1388 276	248	325	2600	2390	0.2390	1895	0.1895	49	0.0049
00-130-034	1388 276	208	305	1900	1930	0.1930	1510	0.1510	38	0.0038
00-130-035	1388 276	160	290	1900	1925	0.1925	1590	0.1590	50	0.0050
00-130-036	1388 276	212	215	1855	1775	0.1775	1515	0.1515	40	0.0040
00-130-037	1388 276	300	510	4510	3150	0.3150	2860	0.2860	69	0.0069
00-130-038	1388 276	324	360	2840	1890	0.1890	2380	0.2380	66	0.0066
00-130-039	1388 276	270	305	2520	1510	0.1510	1295	0.1295	42	0.0042
00-130-040	1388 276	344	270	3280	1950	0.1950	1470	0.1470	46	0.0046
00-130-041	1388 276	426	315	4320	2700	0.2700	2170	0.2170	75	0.0075
00-130-042	1388 276	252	195	3210	1395	0.1395	1570	0.1570	64	0.0064
00-130-043	1388 276	104	140	2120	1085	0.1085	761	0.0761	36	0.0036
00-130-044	1388 294	12	60	518	212	0.0212	159	0.0159	10	0.0010
00-130-045	1388 294	82	580	5540	812	0.0812	1590	0.1590	63	0.0063
00-130-046	1388 294	190	390	3280	1430	0.1430	1235	0.1235	50	0.0050

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-130  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 04-JUL-2000  
 Invoice No. : 10021410  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021410

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-047	1388 276	146	200	1920	947	0.0947	671	0.0671	36	0.0036
00-130-048	1388 276	132	200	1965	1440	0.1440	834	0.0834	63	0.0063
00-130-049	1388 226	88	110	1000	600	0.0600	473	0.0473	57	0.0057
00-130-050	1388 294	46	145	1365	389	0.0389	483	0.0483	28	0.0028
00-130-051	1388 294	252	230	1930	2180	0.2180	900	0.0900	65	0.0065
00-130-052	1388 276	120	175	1310	771	0.0771	843	0.0843	49	0.0049
00-130-053	1388 276	112	110	1375	581	0.0581	503	0.0503	37	0.0037
00-130-054	1388 276	80	140	962	451	0.0451	416	0.0416	33	0.0033
00-130-055	1388 276	90	135	1460	578	0.0578	591	0.0591	39	0.0039
00-130-056	1388 276	236	255	2630	1025	0.1025	905	0.0905	45	0.0045
00-130-057	1388 276	88	100	1185	716	0.0716	607	0.0607	38	0.0038
00-130-058	1388 276	90	80	964	877	0.0877	510	0.0510	36	0.0036
00-130-059	1388 276	98	85	726	958	0.0958	683	0.0683	44	0.0044
00-130-060	1388 276	160	130	1205	954	0.0954	896	0.0896	49	0.0049
00-130-061	1388 276	76	70	722	555	0.0555	389	0.0389	29	0.0029
00-130-062	1388 276	72	50	758	492	0.0492	371	0.0371	27	0.0027
00-130-063	1388 276	84	55	1110	609	0.0609	429	0.0429	35	0.0035
00-130-064	1388 276	50	75	454	399	0.0399	317	0.0317	33	0.0033
00-130-065	1388 276	12	30	226	95	0.0095	182	0.0182	36	0.0036
00-130-066	1388 294	6	40	216	74	0.0074	168	0.0168	37	0.0037
00-130-067	1388 294	26	< 5	10	207	0.0207	45	0.0045	26	0.0026
00-130-068	1388 294	10	< 5	34	185	0.0185	41	0.0041	26	0.0026
00-130-069	1388 294	< 2	< 5	16	149	0.0149	42	0.0042	23	0.0023
00-130-070	1388 294	< 2	< 5	12	82	0.0082	32	0.0032	19	0.0019
00-130-071	1388 276	12	< 5	42	139	0.0139	55	0.0055	21	0.0021
00-130-072	1388 276	4	< 5	58	85	0.0085	81	0.0081	24	0.0024
00-130-073	1388 276	10	45	158	171	0.0171	91	0.0091	28	0.0028
00-130-074	1388 294	4	15	114	40	0.0040	120	0.0120	25	0.0025
00-130-075	1388 294	4	< 5	22	91	0.0091	56	0.0056	28	0.0028
00-130-076	1388 294	4	15	164	43	0.0043	110	0.0110	21	0.0021
00-130-077	1388 294	4	< 5	4	136	0.0136	36	0.0036	30	0.0030
00-130-078	1388 294	6	10	96	77	0.0077	114	0.0114	24	0.0024
130-STA-194	214 238	242	280	3130	1275	0.1275	1125	0.1125	46	0.0046

CERTIFICATION: 





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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 JUL 19 2000

A0021530

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021530

(MZI) - LAC DES ILES MINES LTD.

Project: 00-130  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 05-JUL-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	57	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	7	0-3 Kg crush and split
294	12	4-7 Kg crush and split
276	38	8-12 Kg crush and split
3202	57	Rock - save entire reject
238	58	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	58	Au ppb: FA ICP package	FA-ICP	2	10000
976	58	Pt ppb: FA ICP package	FA-ICP	5	10000
977	58	Pd ppb: FA ICP package	FA-ICP	2	10000
2	58	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	58	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	58	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	58	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	58	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	58	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
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 P7B 5J9

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Page Number :1  
 Total Pages :2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : I0021530  
 P.O. Number :  
 Account : MZI

Project : 00-130  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021530

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-079	1388 276	8	5	156	97	0.0097	110	0.0110	21	0.0021
00-130-080	1388 276	4	< 5	100	68	0.0068	105	0.0105	20	0.0020
00-130-081	1388 276	6	< 5	106	82	0.0082	102	0.0102	18	0.0018
00-130-082	1388 276	16	25	256	173	0.0173	193	0.0193	22	0.0022
00-130-083	1388 276	6	10	136	87	0.0087	97	0.0097	16	0.0016
00-130-084	1388 276	4	10	124	90	0.0090	107	0.0107	20	0.0020
00-130-085	1388 276	6	< 5	126	88	0.0088	106	0.0106	20	0.0020
00-130-086	1388 226	4	15	126	98	0.0098	121	0.0121	19	0.0019
00-130-087	1388 226	4	15	110	61	0.0061	116	0.0116	17	0.0017
00-130-088	1388 294	4	20	170	82	0.0082	160	0.0160	25	0.0025
00-130-089	1388 276	12	30	242	138	0.0138	228	0.0228	29	0.0029
00-130-090	1388 226	6	25	232	71	0.0071	172	0.0172	27	0.0027
00-130-091	1388 226	4	30	262	55	0.0055	239	0.0239	34	0.0034
00-130-092	1388 276	4	55	252	55	0.0055	192	0.0192	30	0.0030
00-130-093	1388 294	6	60	320	41	0.0041	172	0.0172	27	0.0027
00-130-094	1388 226	4	55	306	23	0.0023	150	0.0150	27	0.0027
00-130-095	1388 226	6	35	204	44	0.0044	143	0.0143	23	0.0023
00-130-096	1388 276	4	105	270	22	0.0022	152	0.0152	26	0.0026
00-130-097	1388 276	8	120	298	49	0.0049	187	0.0187	30	0.0030
00-130-098	1388 276	10	125	388	74	0.0074	219	0.0219	31	0.0031
00-130-099	1388 276	8	125	262	72	0.0072	200	0.0200	31	0.0031
00-130-100	1388 276	2	110	260	31	0.0031	195	0.0195	33	0.0033
00-130-101	1388 276	4	100	256	41	0.0041	192	0.0192	32	0.0032
00-130-102	1388 294	6	100	242	80	0.0080	188	0.0188	31	0.0031
00-130-103	1388 294	2	15	44	59	0.0059	77	0.0077	26	0.0026
00-130-104	1388 276	< 2	90	216	31	0.0031	162	0.0162	28	0.0028
00-130-105	1388 276	< 2	< 5	22	67	0.0067	29	0.0029	22	0.0022
00-130-106	1388 276	< 2	70	182	30	0.0030	222	0.0222	32	0.0032
00-130-107	1388 294	< 2	50	176	48	0.0048	235	0.0235	31	0.0031
00-130-108	1388 276	4	65	166	44	0.0044	198	0.0198	29	0.0029
00-130-109	1388 294	10	< 5	16	144	0.0144	35	0.0035	19	0.0019
00-130-110	1388 276	< 2	95	232	26	0.0026	195	0.0195	32	0.0032
00-130-111	1388 276	4	100	236	60	0.0060	227	0.0227	32	0.0032
00-130-112	1388 276	4	110	238	74	0.0074	232	0.0232	33	0.0033
00-130-113	1388 276	10	80	232	174	0.0174	239	0.0239	35	0.0035
00-130-114	1388 226	12	100	314	154	0.0154	295	0.0295	38	0.0038
00-130-115	1388 276	16	85	230	104	0.0104	251	0.0251	36	0.0036
00-130-116	1388 276	34	100	460	208	0.0208	310	0.0310	39	0.0039
00-130-117	1388 276	18	70	224	161	0.0161	259	0.0259	32	0.0032
00-130-118	1388 276	70	170	642	443	0.0443	466	0.0466	37	0.0037

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-130  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : 10021530  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021530

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-119	1388 294	72	125	708	298	0.0298	430	0.0430	42	0.0042
00-130-120	1388 294	52	75	388	339	0.0339	408	0.0408	37	0.0037
00-130-121	1388 276	60	85	1120	367	0.0367	364	0.0364	37	0.0037
00-130-122	1388 276	112	200	1845	865	0.0865	564	0.0564	41	0.0041
00-130-123	1388 276	56	205	1465	585	0.0585	498	0.0498	36	0.0036
00-130-124	1388 276	50	175	1045	505	0.0505	376	0.0376	31	0.0031
00-130-125	1388 294	34	55	442	203	0.0203	184	0.0184	22	0.0022
00-130-126	1388 294	64	285	2160	585	0.0585	1035	0.1035	48	0.0048
00-130-127	1388 294	170	190	2630	1305	0.1305	1530	0.1530	64	0.0064
00-130-128	1388 294	176	125	1645	957	0.0957	1005	0.1005	54	0.0054
00-130-129	1388 276	20	35	256	155	0.0155	224	0.0224	22	0.0022
00-130-130	1388 276	32	65	586	257	0.0257	268	0.0268	25	0.0025
00-130-131	1388 276	40	105	460	266	0.0266	288	0.0288	28	0.0028
00-130-132	1388 276	14	95	790	123	0.0123	284	0.0284	23	0.0023
00-130-133	1388 276	28	85	726	356	0.0356	424	0.0424	30	0.0030
00-130-134	1388 276	18	50	406	118	0.0118	170	0.0170	20	0.0020
00-130-135	1388 276	18	5	82	141	0.0141	255	0.0255	21	0.0021
130-STA-195	214 238	286	295	3300	1300	0.1300	1085	0.1085	45	0.0045

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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 JUL 19 2000

A0021622

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE** **A0021622**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-130  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 05-JUL-2000.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	48	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	8	0-3 Kg crush and split
294	9	4-7 Kg crush and split
276	31	8-12 Kg crush and split
3202	48	Rock - save entire reject
238	49	Nitric-aqua-regia digestion

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	49	Au ppb: FA ICP package	FA-ICP	2	10000
976	49	Pt ppb: FA ICP package	FA-ICP	5	10000
977	49	Pd ppb: FA ICP package	FA-ICP	2	10000
2	49	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	49	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	49	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	49	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	49	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	49	Co %: calculation from Co ppm	AAS	0.0001	10.000



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 Ontario, Canada  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.  
 P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : I0021622  
 P.O. Number :  
 Account : MZI

Project : 00-130  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021622

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-136	1388 276	32	100	554	336	0.0336	375	0.0375	21	0.0021
00-130-137	1388 276	18	120	1010	459	0.0459	293	0.0293	21	0.0021
00-130-138	1388 276	46	145	1635	208	0.0208	413	0.0413	27	0.0027
00-130-139	1388 276	74	180	2680	1060	0.1060	804	0.0804	49	0.0049
00-130-140	1388 276	34	100	700	205	0.0205	301	0.0301	26	0.0026
00-130-141	1388 276	100	415	2400	613	0.0613	629	0.0629	34	0.0034
00-130-142	1388 276	38	200	1035	439	0.0439	294	0.0294	27	0.0027
00-130-143	1388 276	18	185	1035	207	0.0207	382	0.0382	29	0.0029
00-130-144	1388 276	124	190	1790	757	0.0757	1330	0.1330	73	0.0073
00-130-145	1388 294	822	135	1125	902	0.0902	612	0.0612	50	0.0050
00-130-146	1388 276	56	125	762	341	0.0341	423	0.0423	43	0.0043
00-130-147	1388 276	70	105	432	306	0.0306	332	0.0332	36	0.0036
00-130-148	1388 226	48	130	718	159	0.0159	283	0.0283	33	0.0033
00-130-149	1388 294	30	15	102	216	0.0216	101	0.0101	26	0.0026
00-130-150	1388 294	188	250	1370	516	0.0516	398	0.0398	40	0.0040
00-130-151	1388 276	90	220	1040	480	0.0480	463	0.0463	44	0.0044
00-130-152	1388 276	28	130	532	169	0.0169	302	0.0302	37	0.0037
00-130-153	1388 276	44	175	922	258	0.0258	411	0.0411	36	0.0036
00-130-154	1388 276	38	145	1060	343	0.0343	413	0.0413	29	0.0029
00-130-155	1388 294	100	105	546	358	0.0358	451	0.0451	42	0.0042
00-130-156	1388 226	64	15	260	386	0.0386	224	0.0224	40	0.0040
00-130-157	1388 276	40	55	344	458	0.0458	326	0.0326	23	0.0023
00-130-158	1388 276	84	25	294	514	0.0514	281	0.0281	22	0.0022
00-130-159	1388 294	254	30	182	199	0.0199	279	0.0279	19	0.0019
00-130-160	1388 226	112	< 5	66	357	0.0357	83	0.0083	11	0.0011
00-130-161	1388 276	24	55	534	343	0.0343	472	0.0472	28	0.0028
00-130-162	1388 276	84	150	1395	1070	0.1070	641	0.0641	37	0.0037
00-130-163	1388 276	148	80	754	790	0.0790	472	0.0472	30	0.0030
00-130-164	1388 276	62	110	840	373	0.0373	335	0.0335	30	0.0030
00-130-165	1388 276	98	300	1620	493	0.0493	484	0.0484	41	0.0041
00-130-166	1388 276	106	230	1335	512	0.0512	541	0.0541	48	0.0048
00-130-167	1388 294	46	120	654	365	0.0365	295	0.0295	27	0.0027
00-130-168	1388 226	86	180	734	604	0.0604	546	0.0546	45	0.0045
00-130-169	1388 226	84	95	582	758	0.0758	330	0.0330	33	0.0033
00-130-170	1388 226	40	150	616	522	0.0522	471	0.0471	41	0.0041
00-130-171	1388 226	46	165	644	624	0.0624	607	0.0607	50	0.0050
00-130-172	1388 276	< 2	< 5	12	56	0.0056	45	0.0045	12	0.0012
00-130-173	1388 276	38	175	712	331	0.0331	415	0.0415	49	0.0049
00-130-174	1388 276	46	90	522	324	0.0324	341	0.0341	30	0.0030
00-130-175	1388 276	68	95	702	518	0.0518	437	0.0437	32	0.0032

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-130  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 2  
 Certificate Date: 05-JUL-2000  
 Invoice No. : 10021622  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021622

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-176	1388	276	40	105	462	321	0.0321	380	0.0380	42	0.0042
00-130-177	1388	276	68	70	374	626	0.0626	512	0.0512	36	0.0036
00-130-178	1388	226	2	< 5	8	80	0.0080	85	0.0085	17	0.0017
00-130-179	1388	294	6	< 5	< 2	153	0.0153	75	0.0075	16	0.0016
00-130-180	1388	276	2	< 5	28	70	0.0070	90	0.0090	14	0.0014
00-130-181	1388	294	30	250	1730	420	0.0420	495	0.0495	41	0.0041
00-130-182	1388	276	30	170	1005	314	0.0314	439	0.0439	45	0.0045
00-130-183	1388	294	< 2	10	58	68	0.0068	78	0.0078	14	0.0014
130-STA-199	214	238	262	290	3310	1260	0.1260	1105	0.1105	43	0.0043

CERTIFICATION: \_\_\_\_\_



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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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A0021775

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0021775

(MZI) - LAC DES ILES MINES LTD.

Project: 00-130  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 17-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	148	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	5	0-3 Kg crush and split
294	49	4-7 Kg crush and split
276	94	8-12 Kg crush and split
3202	148	Rock - save entire reject
238	149	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	149	Au ppb: FA ICP package	FA-ICP	2	10000
976	149	Pt ppb: FA ICP package	FA-ICP	5	10000
977	149	Pd ppb: FA ICP package	FA-ICP	2	10000
2	149	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	149	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	149	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	149	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	149	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	149	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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**JUL 27 2000**

Page Number : 1  
 Total Pages : 4  
 Certificate Date: 17-JUL-2000  
 Invoice No. : 10021775  
 P.O. Number :  
 Account : MZI

Project : 00-130  
 Comments: ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS A0021775**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-184	1388 294	104	265	1010	505	0.0505	375	0.0375	46	0.0046
00-130-185	1388 294	106	250	1255	918	0.0918	541	0.0541	34	0.0034
00-130-186	1388 276	70	105	816	357	0.0357	369	0.0369	24	0.0024
00-130-187	1388 276	78	35	400	222	0.0222	170	0.0170	26	0.0026
00-130-188	1388 294	246	75	600	417	0.0417	419	0.0419	30	0.0030
00-130-189	1388 276	90	205	786	516	0.0516	553	0.0553	48	0.0048
00-130-190	1388 276	88	245	890	431	0.0431	490	0.0490	49	0.0049
00-130-191	1388 276	72	205	986	385	0.0385	498	0.0498	39	0.0039
00-130-192	1388 276	58	210	820	203	0.0203	318	0.0318	32	0.0032
00-130-193	1388 276	60	175	968	628	0.0628	451	0.0451	49	0.0049
00-130-194	1388 276	112	195	934	348	0.0348	658	0.0658	42	0.0042
00-130-195	1388 294	134	205	936	767	0.0767	682	0.0682	51	0.0051
00-130-196	1388 294	84	225	802	556	0.0556	530	0.0530	45	0.0045
00-130-197	1388 294	6	75	60	60	0.0060	41	0.0041	5	0.0005
00-130-198	1388 276	98	160	1190	901	0.0901	661	0.0661	41	0.0041
00-130-199	1388 294	112	165	1520	771	0.0771	567	0.0567	39	0.0039
00-130-200	1388 276	116	220	1070	763	0.0763	645	0.0645	51	0.0051
00-130-201	1388 276	108	250	1190	666	0.0666	576	0.0576	50	0.0050
00-130-202	1388 276	60	160	1135	426	0.0426	425	0.0425	41	0.0041
00-130-203	1388 226	122	285	1910	1135	0.1135	515	0.0515	35	0.0035
00-130-204	1388 294	58	140	826	686	0.0686	458	0.0458	37	0.0037
00-130-205	1388 294	84	145	1180	421	0.0421	327	0.0327	25	0.0025
00-130-206	1388 276	56	90	622	401	0.0401	367	0.0367	30	0.0030
00-130-207	1388 276	42	100	782	536	0.0536	482	0.0482	31	0.0031
00-130-208	1388 276	22	85	366	189	0.0189	198	0.0198	25	0.0025
00-130-209	1388 276	28	60	418	229	0.0229	237	0.0237	29	0.0029
00-130-210	1388 294	26	100	650	164	0.0164	242	0.0242	33	0.0033
00-130-211	1388 294	18	60	298	146	0.0146	252	0.0252	23	0.0023
00-130-212	1388 276	6	100	794	53	0.0053	273	0.0273	15	0.0015
00-130-213	1388 276	34	190	1750	476	0.0476	718	0.0718	35	0.0035
00-130-214	1388 276	36	190	1480	156	0.0156	705	0.0705	34	0.0034
00-130-215	1388 276	4	80	244	17	0.0017	119	0.0119	11	0.0011
00-130-216	1388 276	120	385	2780	468	0.0468	552	0.0552	28	0.0028
00-130-217	1388 276	92	190	1100	530	0.0530	421	0.0421	37	0.0037
00-130-218	1388 276	16	140	1110	90	0.0090	377	0.0377	25	0.0025
00-130-219	1388 276	22	95	738	138	0.0138	298	0.0298	21	0.0021
00-130-220	1388 294	62	105	748	272	0.0272	311	0.0311	41	0.0041
00-130-221	1388 294	106	180	830	485	0.0485	488	0.0488	48	0.0048
00-130-222	1388 276	20	85	434	147	0.0147	250	0.0250	30	0.0030
00-130-223	1388 276	100	125	646	670	0.0670	342	0.0342	32	0.0032

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-130  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 4  
 Certificate Date: 17-JUL-2000  
 Invoice No. : 10021775  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021775

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-224	1388	226	40	175	648	167	0.0167	205	0.0205	19	0.0019
00-130-225A	1388	276	14	130	410	98	0.0098	184	0.0184	17	0.0017
00-130-225B	1388	276	40	130	866	300	0.0300	346	0.0346	23	0.0023
00-130-226	1388	276	10	140	618	53	0.0053	201	0.0201	15	0.0015
00-130-227	1388	276	24	130	652	198	0.0198	239	0.0239	18	0.0018
00-130-228	1388	276	68	170	1515	858	0.0858	860	0.0860	29	0.0029
00-130-229	1388	276	60	175	784	377	0.0377	335	0.0335	20	0.0020
00-130-230	1388	276	22	135	438	144	0.0144	174	0.0174	16	0.0016
00-130-231	1388	276	38	160	794	174	0.0174	288	0.0288	18	0.0018
00-130-232	1388	276	74	155	1020	415	0.0415	418	0.0418	22	0.0022
00-130-233	1388	294	14	105	456	80	0.0080	204	0.0204	21	0.0021
00-130-234	1388	294	52	90	560	614	0.0614	525	0.0525	43	0.0043
00-130-235	1388	276	158	185	1770	1480	0.1480	1325	0.1325	64	0.0064
00-130-236	1388	276	136	230	1860	793	0.0793	697	0.0697	39	0.0039
00-130-237	1388	276	166	130	1315	973	0.0973	830	0.0830	38	0.0038
00-130-238	1388	276	188	90	746	838	0.0838	580	0.0580	32	0.0032
00-130-239	1388	276	88	90	646	449	0.0449	359	0.0359	37	0.0037
00-130-240	1388	276	86	185	1170	522	0.0522	365	0.0365	40	0.0040
00-130-241	1388	276	180	125	1120	1245	0.1245	869	0.0869	44	0.0044
00-130-242	1388	276	52	25	142	307	0.0307	206	0.0206	20	0.0020
00-130-243	1388	276	36	20	220	343	0.0343	204	0.0204	21	0.0021
00-130-244	1388	276	32	105	626	257	0.0257	263	0.0263	33	0.0033
00-130-245	1388	276	48	195	1160	217	0.0217	234	0.0234	35	0.0035
00-130-246	1388	276	54	90	654	346	0.0346	338	0.0338	23	0.0023
00-130-247	1388	276	42	160	902	176	0.0176	154	0.0154	26	0.0026
00-130-248	1388	276	36	100	480	195	0.0195	186	0.0186	24	0.0024
00-130-249	1388	294	36	220	950	213	0.0213	281	0.0281	37	0.0037
00-130-250	1388	294	46	130	734	368	0.0368	306	0.0306	20	0.0020
00-130-251	1388	276	46	135	680	359	0.0359	279	0.0279	22	0.0022
00-130-252	1388	276	30	100	398	320	0.0320	203	0.0203	15	0.0015
00-130-253	1388	294	36	80	420	300	0.0300	227	0.0227	19	0.0019
00-130-254	1388	294	20	< 5	76	189	0.0189	69	0.0069	25	0.0025
00-130-255	1388	276	12	15	58	108	0.0108	85	0.0085	28	0.0028
00-130-256	1388	276	50	170	656	298	0.0298	246	0.0246	30	0.0030
00-130-257	1388	294	56	120	462	263	0.0263	319	0.0319	39	0.0039
00-130-258	1388	294	54	190	644	291	0.0291	374	0.0374	45	0.0045
00-130-259	1388	276	80	215	696	511	0.0511	466	0.0466	49	0.0049
00-130-260	1388	276	58	190	720	315	0.0315	347	0.0347	40	0.0040
00-130-261	1388	294	42	125	586	600	0.0600	536	0.0536	33	0.0033
00-130-262	1388	276	162	140	960	1390	0.1390	1170	0.1170	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-130  
 Comments: ATTN: MOE LAVIGNE

Page Number : 3  
 Total Pages : 4  
 Certificate Date: 17-JUL-2000  
 Invoice No. : 10021775  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021775

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-263	1388 294	40	5	70	360	0.0360	96	0.0096	23	0.0023
00-130-264	1388 276	48	90	544	456	0.0456	397	0.0397	27	0.0027
00-130-265	1388 276	28	145	688	233	0.0233	346	0.0346	37	0.0037
00-130-266	1388 276	46	265	1270	252	0.0252	297	0.0297	32	0.0032
00-130-267	1388 276	62	125	600	428	0.0428	266	0.0266	27	0.0027
00-130-268	1388 294	< 2	< 5	24	71	0.0071	103	0.0103	24	0.0024
00-130-269	1388 276	12	15	78	111	0.0111	117	0.0117	27	0.0027
00-130-270	1388 294	8	< 5	16	129	0.0129	33	0.0033	24	0.0024
00-130-271	1388 294	54	265	1235	289	0.0289	413	0.0413	41	0.0041
00-130-272	1388 294	84	160	912	543	0.0543	511	0.0511	45	0.0045
00-130-273	1388 294	28	55	430	306	0.0306	418	0.0418	44	0.0044
00-130-274	1388 294	6	20	166	345	0.0345	277	0.0277	26	0.0026
00-130-275	1388 294	138	80	656	918	0.0918	673	0.0673	39	0.0039
00-130-276	1388 294	100	110	790	1035	0.1035	761	0.0761	39	0.0039
00-130-277	1388 294	950	270	2770	2050	0.2050	2410	0.2410	61	0.0061
00-130-278	1388 294	130	100	976	761	0.0761	633	0.0633	32	0.0032
00-130-279	1388 276	394	90	1140	926	0.0926	694	0.0694	29	0.0029
00-130-280	1388 294	20	< 5	98	121	0.0121	110	0.0110	7	0.0007
00-130-281	1388 294	106	75	898	819	0.0819	622	0.0622	29	0.0029
00-130-282	1388 276	44	< 5	82	270	0.0270	115	0.0115	7	0.0007
00-130-283	1388 276	178	10	1000	871	0.0871	662	0.0662	35	0.0035
00-130-284	1388 294	160	185	1685	1245	0.1245	978	0.0978	43	0.0043
00-130-285	1388 294	114	20	394	418	0.0418	327	0.0327	16	0.0016
00-130-286	1388 276	150	75	942	701	0.0701	602	0.0602	31	0.0031
00-130-287	1388 294	60	25	392	329	0.0329	289	0.0289	19	0.0019
00-130-288	1388 276	68	65	972	648	0.0648	613	0.0613	36	0.0036
00-130-289	1388 276	12	40	402	287	0.0287	305	0.0305	25	0.0025
00-130-290	1388 294	66	55	614	441	0.0441	487	0.0487	32	0.0032
00-130-291	1388 276	48	85	762	340	0.0340	560	0.0560	32	0.0032
00-130-292	1388 294	34	65	774	421	0.0421	475	0.0475	35	0.0035
00-130-293	1388 294	16	70	420	136	0.0136	259	0.0259	17	0.0017
00-130-294	1388 276	142	125	1220	808	0.0808	643	0.0643	31	0.0031
00-130-295	1388 276	284	180	1600	1245	0.1245	954	0.0954	41	0.0041
00-130-296	1388 276	326	320	3270	2460	0.2460	2300	0.2300	57	0.0057
00-130-297	1388 294	42	90	860	638	0.0638	468	0.0468	34	0.0034
00-130-298	1388 276	2	< 5	40	51	0.0051	145	0.0145	29	0.0029
00-130-299	1388 294	4	< 5	32	84	0.0084	56	0.0056	19	0.0019
00-130-300	1388 276	4	< 5	30	81	0.0081	54	0.0054	16	0.0016
00-130-301	1388 276	2	< 5	30	130	0.0130	78	0.0078	20	0.0020
00-130-302	1388 276	6	< 5	40	216	0.0216	99	0.0099	22	0.0022

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-130  
 Comments: ATTN: MOE LAVIGNE

Page Number : 4  
 Total Pages : 4  
 Certificate Date: 17-JUL-2000  
 Invoice No. : 10021775  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021775

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-130-303	1388 276	< 2	< 5	42	124	0.0124	70	0.0070	21	0.0021
00-130-304	1388 276	< 2	< 5	34	62	0.0062	49	0.0049	17	0.0017
00-130-305	1388 276	< 4	< 5	26	86	0.0086	58	0.0058	17	0.0017
00-130-306	1388 276	< 2	< 5	26	94	0.0094	76	0.0076	22	0.0022
00-130-307	1388 276	4	< 5	30	97	0.0097	69	0.0069	20	0.0020
00-130-308	1388 276	< 2	< 5	26	65	0.0065	54	0.0054	18	0.0018
00-130-309	1388 276	< 2	< 5	24	54	0.0054	48	0.0048	16	0.0016
00-130-310	1388 276	< 2	< 5	22	49	0.0049	47	0.0047	16	0.0016
00-130-311	1388 276	2	< 5	4	100	0.0100	18	0.0018	29	0.0029
00-130-312	1388 294	< 2	< 5	18	16	0.0016	61	0.0061	20	0.0020
00-130-313	1388 226	< 2	< 5	12	12	0.0012	41	0.0041	12	0.0012
00-130-314	1388 276	< 2	< 5	20	48	0.0048	57	0.0057	18	0.0018
00-130-315	1388 276	< 2	< 5	44	100	0.0100	64	0.0064	19	0.0019
00-130-316	1388 276	< 2	< 5	32	90	0.0090	68	0.0068	16	0.0016
00-130-317	1388 276	< 2	< 5	22	31	0.0031	48	0.0048	17	0.0017
00-130-318	1388 226	< 4	< 5	2	85	0.0085	17	0.0017	25	0.0025
00-130-319	1388 294	< 2	< 5	20	9	0.0009	45	0.0045	16	0.0016
00-130-320	1388 294	< 2	< 5	12	7	0.0007	55	0.0055	14	0.0014
00-130-321	1388 226	< 2	< 5	14	31	0.0031	72	0.0072	30	0.0030
00-130-322	1388 294	4	< 5	6	210	0.0210	23	0.0023	29	0.0029
00-130-323	1388 276	4	< 5	6	166	0.0166	29	0.0029	20	0.0020
00-130-324	1388 294	2	< 5	14	96	0.0096	41	0.0041	18	0.0018
00-130-325	1388 276	< 2	< 5	16	84	0.0084	40	0.0040	18	0.0018
00-130-326	1388 276	2	< 5	14	98	0.0098	41	0.0041	19	0.0019
00-130-327	1388 294	2	< 5	14	90	0.0090	41	0.0041	16	0.0016
00-130-328	1388 276	< 2	< 5	< 2	91	0.0091	8	0.0008	22	0.0022
00-130-329	1388 276	6	< 5	14	94	0.0094	39	0.0039	15	0.0015
00-130-330	1388 276	4	< 5	16	135	0.0135	43	0.0043	16	0.0016
130-STA-205	214 238	264	260	3320	1245	0.1245	1135	0.1135	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020768

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0020768

(MZI) - LAC DES ILES MINES LTD.

Project: 00-133  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 26-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	64	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	11	0-3 Kg crush and split
294	18	4-7 Kg crush and split
276	35	8-12 Kg crush and split
3202	65	Rock - save entire reject
238	65	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	65	Au ppb: FA ICP package	FA-ICP	2	10000
976	65	Pt ppb: FA ICP package	FA-ICP	5	10000
977	65	Pd ppb: FA ICP package	FA-ICP	2	10000
2	65	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	65	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	65	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	65	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	65	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	65	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020768  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020768

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-081	1388 294	18	< 5	22	290	0.0290	134	0.0134	26	0.0026
00-133-082	1388 276	2	< 5	10	88	0.0088	52	0.0052	17	0.0017
00-133-083	1388 276	2	< 5	16	86	0.0086	49	0.0049	14	0.0014
00-133-084	1388 276	< 2	< 5	16	79	0.0079	43	0.0043	14	0.0014
00-133-085	1388 276	2	10	14	93	0.0093	45	0.0045	16	0.0016
00-133-086	1388 276	2	< 5	14	80	0.0080	45	0.0045	17	0.0017
00-133-087	1388 276	6	< 5	48	117	0.0117	56	0.0056	18	0.0018
00-133-088	1388 276	2	< 5	18	78	0.0078	49	0.0049	17	0.0017
00-133-089	1388 276	2	< 5	14	77	0.0077	44	0.0044	15	0.0015
00-133-090	1388 276	< 2	< 5	32	75	0.0075	49	0.0049	16	0.0016
00-133-091	1388 276	6	< 5	24	106	0.0106	49	0.0049	18	0.0018
00-133-092	1388 276	2	< 5	20	78	0.0078	49	0.0049	18	0.0018
00-133-093	1388 276	< 2	< 5	30	77	0.0077	46	0.0046	15	0.0015
00-133-094	1388 276	< 2	< 5	24	66	0.0066	42	0.0042	14	0.0014
00-133-095	1388 276	< 2	5	48	82	0.0082	44	0.0044	17	0.0017
00-133-096	1388 294	< 2	< 5	20	99	0.0099	41	0.0041	15	0.0015
00-133-097	1388 226	< 2	5	30	98	0.0098	72	0.0072	26	0.0026
00-133-098	1388 226	< 2	< 5	10	64	0.0064	25	0.0025	13	0.0013
00-133-099	1388 276	< 2	< 5	16	74	0.0074	40	0.0040	13	0.0013
00-133-100	1388 276	< 2	< 5	16	82	0.0082	31	0.0031	10	0.0010
00-133-101	1388 294	4	< 5	26	91	0.0091	45	0.0045	16	0.0016
00-133-102	1388 294	4	< 5	28	96	0.0096	71	0.0071	31	0.0031
00-133-103	1388 276	< 2	< 5	28	62	0.0062	38	0.0038	15	0.0015
00-133-104	1388 276	4	< 5	28	116	0.0116	54	0.0054	14	0.0014
00-133-105	1388 276	< 2	< 5	26	71	0.0071	36	0.0036	10	0.0010
00-133-106	1388 294	4	< 5	46	188	0.0188	54	0.0054	7	0.0007
00-133-107	1388 294	54	70	268	1290	0.1290	472	0.0472	69	0.0069
00-133-108	1388 226	34	25	144	539	0.0539	266	0.0266	52	0.0052
00-133-109	1388 226	36	65	90	607	0.0607	250	0.0250	40	0.0040
00-133-110	1388 294	84	60	284	755	0.0755	300	0.0300	47	0.0047
00-133-111	1388 226	136	205	1650	1370	0.1370	609	0.0609	76	0.0076
00-133-112	1388 294	54	145	1620	262	0.0262	302	0.0302	44	0.0044
00-133-113	1388 294	20	170	696	134	0.0134	221	0.0221	32	0.0032
00-133-114	1388 226	218	210	2780	743	0.0743	626	0.0626	38	0.0038
00-133-115	1388 226	488	330	4100	1600	0.1600	837	0.0837	68	0.0068
00-133-116	1388 294	700	710	7800	1795	0.1795	1665	0.1665	50	0.0050
00-133-117	1388 294	206	255	2890	513	0.0513	507	0.0507	45	0.0045
00-133-118	1388 294	358	430	5640	2060	0.2060	1285	0.1285	113	0.0113
00-133-119	1388 294	160	135	2030	658	0.0658	510	0.0510	39	0.0039
00-133-120	1388 294	298	340	4790	1200	0.1200	717	0.0717	44	0.0044

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020768  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020768

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-133-121	1388 276	376	405	6810	496	0.0496	669	0.0669			
00-133-122	1388 276	162	205	3090	682	0.0682	855	0.0855	40	0.0040	
00-133-123	1388 276	8	5	76	75	0.0075	87	0.0087	37	0.0037	
00-133-124	1388 276	152	45	190	655	0.0655	986	0.0986	11	0.0011	
00-133-125	1388 276	156	205	2340	464	0.0464	561	0.0561	42	0.0042	
00-133-126	1388 276	94	70	600	304	0.0304	352	0.0352	32	0.0032	
00-133-127	1388 276	214	190	1250	1170	0.1170	707	0.0707	34	0.0034	
00-133-128	1388 226	88	30	288	472	0.0472	246	0.0246	40	0.0040	
00-133-129	1388 226	10	< 5	14	108	0.0108	34	0.0034	23	0.0023	
00-133-130	1388 294	22	65	682	248	0.0248	318	0.0318	24	0.0024	
00-133-131	1388 294	174	160	2350	830	0.0830	638	0.0638	29	0.0029	
00-133-132	1388 226	68	40	434	290	0.0290	100	0.0100	35	0.0035	
00-133-133	1388 294	140	230	4400	607	0.0607	581	0.0581	23	0.0023	
00-133-134	1388 226	22	< 5	20	182	0.0182	79	0.0079	29	0.0029	
00-133-135	1388 276	90	115	1395	397	0.0397	364	0.0364	27	0.0027	
00-133-136	1388 294	46	90	722	179	0.0179	208	0.0208	27	0.0027	
00-133-137	1388 276	56	75	900	238	0.0238	233	0.0233	17	0.0017	
00-133-138	1388 276	88	110	1405	362	0.0362	291	0.0291	20	0.0020	
00-133-139	1388 276	100	155	2070	476	0.0476	539	0.0539	25	0.0025	
00-133-140	1388 276	214	210	3100	817	0.0817	757	0.0757	38	0.0038	
00-133-141	1388 276	324	195	3230	1255	0.1255	1215	0.1215	38	0.0038	
00-133-142	1388 276	618	260	4670	1590	0.1590	1285	0.1285	45	0.0045	
00-133-143	1388 276	672	385	7700	2190	0.2190	1980	0.1980	51	0.0051	
00-133-144	1388 276	200	105	1380	1380	0.1380	1160	0.1160	60	0.0060	
133-STA-168	2143202	294	330	3300	907	0.0907	673	0.0673	41	0.0041	
									38	0.0038	

CERTIFICATION: \_\_\_\_\_



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 5175 Timberlea Blvd., Mississauga  
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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020857

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020857**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-133  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 26-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	45	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	2	0-3 Kg crush and split
294	7	4-7 Kg crush and split
276	36	8-12 Kg crush and split
3202	46	Rock - save entire reject
238	46	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	46	Au ppb: FA ICP package	FA-ICP	2	10000
976	46	Pt ppb: FA ICP package	FA-ICP	5	10000
977	46	Pd ppb: FA ICP package	FA-ICP	2	10000
2	46	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	46	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	46	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	46	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	46	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	46	Co %: calculation from Co ppm	AAS	0.0001	10.000



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 Ontario, Canada L4W 2S3  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020857  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020857

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-145	1388 276	410	200	2730	1765	0.1765	1495	0.1495	50	0.0050
00-133-146	1388 276	46	20	420	377	0.0377	392	0.0392	29	0.0029
00-133-147	1388 294	70	35	716	813	0.0813	633	0.0633	29	0.0029
00-133-148	1388 294	16	40	788	158	0.0158	89	0.0089	21	0.0021
00-133-149	1388 276	10	5	148	203	0.0203	111	0.0111	28	0.0028
00-133-150	1388 276	12	< 5	28	151	0.0151	45	0.0045	28	0.0028
00-133-151	1388 276	398	425	4400	2960	0.2960	1830	0.1830	56	0.0056
00-133-152	1388 276	46	< 5	82	235	0.0235	53	0.0053	23	0.0023
00-133-153	1388 276	476	305	4740	1960	0.1960	1520	0.1520	49	0.0049
00-133-154	1388 276	8	< 5	32	135	0.0135	44	0.0044	24	0.0024
00-133-155	1388 294	6	10	50	89	0.0089	44	0.0044	24	0.0024
00-133-156	1388 276	362	345	2940	1535	0.1535	1150	0.1150	37	0.0037
00-133-157	1388 294	162	< 5	140	403	0.0403	42	0.0042	23	0.0023
00-133-158	1388 276	88	15	178	448	0.0448	99	0.0099	23	0.0023
00-133-159	1388 226	70	170	1870	381	0.0381	659	0.0659	34	0.0034
00-133-160	1388 276	6	< 5	2	82	0.0082	15	0.0015	23	0.0023
00-133-161	1388 276	4	< 5	6	60	0.0060	21	0.0021	22	0.0022
00-133-162	1388 276	< 2	< 5	< 2	76	0.0076	19	0.0019	23	0.0023
00-133-163	1388 276	< 2	< 5	2	54	0.0054	16	0.0016	21	0.0021
00-133-164	1388 276	< 2	< 5	< 2	48	0.0048	22	0.0022	23	0.0023
00-133-165	1388 276	12	< 5	2	88	0.0088	34	0.0034	24	0.0024
00-133-166	1388 276	4	< 5	< 2	61	0.0061	33	0.0033	25	0.0025
00-133-167	1388 276	< 2	< 5	< 2	64	0.0064	26	0.0026	24	0.0024
00-133-168	1388 294	18	15	198	231	0.0231	85	0.0085	23	0.0023
00-133-169	1388 276	10	30	126	63	0.0063	166	0.0166	21	0.0021
00-133-170	1388 276	8	< 5	72	75	0.0075	50	0.0050	26	0.0026
00-133-171	1388 276	6	< 5	22	85	0.0085	31	0.0031	22	0.0022
00-133-172	1388 294	18	< 5	54	134	0.0134	54	0.0054	23	0.0023
00-133-173	1388 226	10	55	548	36	0.0036	241	0.0241	17	0.0017
00-133-174	1388 276	2	< 5	< 2	62	0.0062	22	0.0022	24	0.0024
00-133-175	1388 276	4	< 5	36	64	0.0064	50	0.0050	22	0.0022
00-133-176	1388 294	4	< 5	28	87	0.0087	40	0.0040	22	0.0022
00-133-177	1388 276	42	95	716	210	0.0210	381	0.0381	33	0.0033
00-133-178	1388 276	6	< 5	14	77	0.0077	28	0.0028	21	0.0021
00-133-179	1388 276	132	195	1350	680	0.0680	505	0.0505	31	0.0031
00-133-180	1388 276	8	< 5	2	66	0.0066	9	0.0009	20	0.0020
00-133-181	1388 276	4	< 5	4	89	0.0089	8	0.0008	19	0.0019
00-133-182	1388 276	2	< 5	24	67	0.0067	20	0.0020	21	0.0021
00-133-183	1388 276	< 2	< 5	< 2	52	0.0052	28	0.0028	24	0.0024
00-133-184	1388 276	< 2	< 5	< 2	55	0.0055	21	0.0021	23	0.0023

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020857  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020857

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-133-185	1388 276	< 2	< 5	< 2	43	0.0043	7	0.0007	20	0.0020	
00-133-186	1388 276	< 2	< 5	< 2	59	0.0059	10	0.0010	20	0.0020	
00-133-187	1388 276	< 2	< 5	< 2	66	0.0066	7	0.0007	22	0.0022	
00-133-188	1388 276	< 2	< 5	< 2	74	0.0074	12	0.0012	22	0.0022	
00-133-189	1388 276	< 2	< 5	< 2	51	0.0051	7	0.0007	22	0.0022	
133-STA-171	2143202	246	355	3350	1520	0.1520	1220	0.1220	44	0.0044	

CERTIFICATION: \_\_\_\_\_



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020953

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0020953

(MZI) - LAC DES ILES MINES LTD.

Project: 00-133  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 29-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	16	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	3	4-7 Kg crush and split
276	13	8-12 Kg crush and split
3202	16	Rock - save entire reject
238	17	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	17	Au ppb: FA ICP package	FA-ICP	2	10000
976	17	Pt ppb: FA ICP package	FA-ICP	5	10000
977	17	Pd ppb: FA ICP package	FA-ICP	2	10000
2	17	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	17	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	17	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	17	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	17	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	17	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 29-JUN-2000  
 Invoice No. : I0020953  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020953

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-190	1388	294	18	45	364	151	0.0151	102	0.0102	26	0.0026
00-133-191	1388	276	152	610	3300	866	0.0866	597	0.0597	36	0.0036
00-133-192	1388	276	70	190	1315	510	0.0510	425	0.0425	30	0.0030
00-133-193	1388	276	64	315	1740	378	0.0378	404	0.0404	31	0.0031
00-133-194	1388	276	62	95	924	524	0.0524	460	0.0460	34	0.0034
00-133-195	1388	276	44	350	1615	381	0.0381	372	0.0372	24	0.0024
00-133-196	1388	276	30	185	990	323	0.0323	317	0.0317	23	0.0023
00-133-197	1388	276	54	180	1260	552	0.0552	346	0.0346	27	0.0027
00-133-198	1388	276	4	< 5	16	55	0.0055	54	0.0054	13	0.0013
00-133-199	1388	294	12	20	118	69	0.0069	162	0.0162	27	0.0027
00-133-200	1388	276	74	80	584	455	0.0455	404	0.0404	32	0.0032
00-133-201	1388	276	32	60	566	274	0.0274	291	0.0291	26	0.0026
00-133-202	1388	276	190	60	708	525	0.0525	329	0.0329	29	0.0029
00-133-203	1388	276	56	175	1150	462	0.0462	348	0.0348	28	0.0028
00-133-204	1388	294	12	45	228	94	0.0094	136	0.0136	17	0.0017
00-133-205	1388	276	48	65	480	267	0.0267	120	0.0120	24	0.0024
133-STA-173	214	238	328	315	3400	1495	0.1495	1180	0.1180	43	0.0043

CERTIFICATION:



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 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

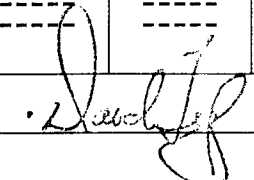
P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 3  
 Certificate Date: 21-JUN-2000  
 Invoice No. : I0020627  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020627

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-133-001	1388 214	8	30	126	-----	-----	-----	-----	-----	-----	
00-133-002	1388 214	8	30	108	-----	-----	-----	-----	-----	-----	
00-133-003	1388 214	18	30	134	-----	-----	-----	-----	-----	-----	
00-133-004	1388 214	6	30	102	-----	-----	-----	-----	-----	-----	
00-133-005	1388 214	8	20	66	-----	-----	-----	-----	-----	-----	
00-133-006	1388 214	16	15	58	-----	-----	-----	-----	-----	-----	
00-133-007	1388 214	22	25	94	-----	-----	-----	-----	-----	-----	
00-133-008	1388 214	12	20	84	-----	-----	-----	-----	-----	-----	
00-133-009	1388 214	12	15	48	-----	-----	-----	-----	-----	-----	
00-133-010	1388 214	< 2	< 5	4	-----	-----	-----	-----	-----	-----	
00-133-011	1388 214	< 2	15	48	-----	-----	-----	-----	-----	-----	
00-133-012	1388 214	2	35	136	-----	-----	-----	-----	-----	-----	
00-133-013	1388 214	4	30	146	-----	-----	-----	-----	-----	-----	
00-133-014	1388 214	< 2	20	88	-----	-----	-----	-----	-----	-----	
00-133-015	1388 214	178	< 10	68	-----	-----	-----	-----	-----	-----	
00-133-016	1388 214	4	5	100	89	0.0089	168	0.0168	26	0.0026	
00-133-017	1388 214	28	45	230	-----	-----	-----	-----	-----	-----	
00-133-018	1388 214	18	35	168	-----	-----	-----	-----	-----	-----	
00-133-019	1388 214	10	30	150	-----	-----	-----	-----	-----	-----	
00-133-020	1388 214	22	15	94	-----	-----	-----	-----	-----	-----	
00-133-021	1388 214	< 2	< 5	22	-----	-----	-----	-----	-----	-----	
00-133-022	1388 214	< 2	< 5	52	-----	-----	-----	-----	-----	-----	
00-133-023	1388 214	< 2	< 5	32	-----	-----	-----	-----	-----	-----	
00-133-024	1388 214	< 2	< 5	24	-----	-----	-----	-----	-----	-----	
00-133-025	1388 214	< 2	< 5	38	-----	-----	-----	-----	-----	-----	
00-133-026	1388 214	2	20	66	-----	-----	-----	-----	-----	-----	
00-133-027	1388 214	< 2	< 5	22	-----	-----	-----	-----	-----	-----	
00-133-028	1388 214	< 2	20	112	-----	-----	-----	-----	-----	-----	
00-133-029	1388 214	< 2	25	98	-----	-----	-----	-----	-----	-----	
00-133-030	1388 214	14	20	112	-----	-----	-----	-----	-----	-----	
00-133-031	1388 214	46	40	244	-----	-----	-----	-----	-----	-----	
00-133-032	1388 214	2	< 5	40	-----	-----	-----	-----	-----	-----	
00-133-033	1388 214	< 2	< 5	32	-----	-----	-----	-----	-----	-----	
00-133-034	1388 214	26	35	198	458	0.0458	275	0.0275	69	0.0069	
00-133-035	1388 214	< 2	< 5	14	-----	-----	-----	-----	-----	-----	
00-133-036	1388 214	< 2	< 5	< 2	-----	-----	-----	-----	-----	-----	
00-133-037	1388 214	< 2	< 5	12	-----	-----	-----	-----	-----	-----	
00-133-038	1388 214	< 2	< 5	< 2	-----	-----	-----	-----	-----	-----	
00-133-039	1388 214	< 2	< 5	12	-----	-----	-----	-----	-----	-----	
00-133-040	1388 214	< 2	< 5	34	-----	-----	-----	-----	-----	-----	

CERTIFICATION:  +



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

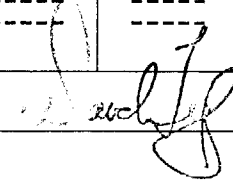
P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :3  
 Certificate Date: 21-JUN-2000  
 Invoice No. :10020627  
 P.O. Number :  
 Account :MZI

## CERTIFICATE OF ANALYSIS A0020627

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-041	1388 214	2	15	28	-----	-----	-----	-----	-----	-----
00-133-042	1388 214	2	15	80	-----	-----	-----	-----	-----	-----
00-133-043	1388 214	< 2	25	190	-----	-----	-----	-----	-----	-----
00-133-044	1388 214	2	60	426	-----	-----	-----	-----	-----	-----
00-133-045	1388 214	< 2	10	126	-----	-----	-----	-----	-----	-----
00-133-046	1388 214	< 2	30	426	-----	-----	-----	-----	-----	-----
00-133-047	1388 214	< 2	20	248	-----	-----	-----	-----	-----	-----
00-133-048	1388 214	< 2	15	238	-----	-----	-----	-----	-----	-----
00-133-049	1388 214	2	20	152	-----	-----	-----	-----	-----	-----
00-133-050	1388 214	10	30	172	-----	-----	-----	-----	-----	-----
00-133-051	1388 214	< 2	25	118	-----	-----	-----	-----	-----	-----
00-133-052	1388 214	4	25	140	-----	-----	-----	-----	-----	-----
00-133-053	1388 214	< 2	< 5	18	-----	-----	-----	-----	-----	-----
00-133-054	1388 214	2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-055	1388 214	132	45	220	-----	-----	-----	-----	-----	-----
00-133-056	1388 214	4	< 5	32	-----	-----	-----	-----	-----	-----
00-133-057	1388 214	< 2	< 5	6	-----	-----	-----	-----	-----	-----
00-133-058	1388 214	6	< 5	10	-----	-----	-----	-----	-----	-----
00-133-059	1388 214	< 2	< 5	10	-----	-----	-----	-----	-----	-----
00-133-060	1388 214	< 2	< 5	20	-----	-----	-----	-----	-----	-----
00-133-061	1388 214	2	< 5	12	-----	-----	-----	-----	-----	-----
00-133-062	1388 214	< 2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-063	1388 214	< 2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-064	1388 214	2	< 5	40	-----	-----	-----	-----	-----	-----
00-133-065	1388 214	4	< 5	18	-----	-----	-----	-----	-----	-----
00-133-066	1388 214	2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-067	1388 214	< 2	< 5	12	-----	-----	-----	-----	-----	-----
00-133-068	1388 214	< 2	< 5	20	-----	-----	-----	-----	-----	-----
00-133-069	1388 214	< 2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-070	1388 214	< 2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-071	1388 214	< 2	< 5	12	-----	-----	-----	-----	-----	-----
00-133-072	1388 214	< 2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-073	1388 214	6	< 5	30	-----	-----	-----	-----	-----	-----
00-133-074	1388 214	16	5	38	-----	-----	-----	-----	-----	-----
00-133-075	1388 214	10	15	28	-----	-----	-----	-----	-----	-----
00-133-075A	1388 214	< 2	< 5	18	-----	-----	-----	-----	-----	-----
00-133-076	1388 214	2	< 5	14	-----	-----	-----	-----	-----	-----
00-133-077	1388 214	2	< 5	16	-----	-----	-----	-----	-----	-----
00-133-078	1388 214	12	< 5	18	-----	-----	-----	-----	-----	-----
00-133-079	1388 214	< 2	10	16	-----	-----	-----	-----	-----	-----

CERTIFICATION:  +



# ALS Chemex

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 Analytical Chemists \* Geochemists \* Registered Assayers  
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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number : 3  
 Total Pages : 3  
 Certificate Date: 21-JUN-2000  
 Invoice No. : I0020627  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

### A0020627

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-080 133-STA-163	1388 214	214 238	2 290	< 5 355	14 3380	----- 1260	----- 0.1260	----- 1145	----- 0.1145	----- 44	----- 0.0044

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Project: 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020768  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020768

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-081	1388 294	18	< 5	22	290	0.0290	134	0.0134	26	0.0026
00-133-082	1388 276	2	< 5	10	88	0.0088	52	0.0052	17	0.0017
00-133-083	1388 276	2	< 5	16	86	0.0086	49	0.0049	14	0.0014
00-133-084	1388 276	< 2	< 5	16	79	0.0079	43	0.0043	14	0.0014
00-133-085	1388 276	2	10	14	93	0.0093	45	0.0045	16	0.0016
00-133-086	1388 276	2	< 5	14	80	0.0080	45	0.0045	17	0.0017
00-133-087	1388 276	6	< 5	48	117	0.0117	56	0.0056	18	0.0018
00-133-088	1388 276	2	< 5	18	78	0.0078	49	0.0049	17	0.0017
00-133-089	1388 276	2	< 5	14	77	0.0077	44	0.0044	15	0.0015
00-133-090	1388 276	< 2	< 5	32	75	0.0075	49	0.0049	16	0.0016
00-133-091	1388 276	6	< 5	24	106	0.0106	49	0.0049	18	0.0018
00-133-092	1388 276	2	< 5	20	78	0.0078	49	0.0049	18	0.0018
00-133-093	1388 276	< 2	< 5	30	77	0.0077	46	0.0046	15	0.0015
00-133-094	1388 276	< 2	< 5	24	66	0.0066	42	0.0042	14	0.0014
00-133-095	1388 276	< 2	5	48	82	0.0082	44	0.0044	17	0.0017
00-133-096	1388 294	< 2	< 5	20	99	0.0099	41	0.0041	15	0.0015
00-133-097	1388 226	< 2	5	30	98	0.0098	72	0.0072	26	0.0026
00-133-098	1388 226	< 2	< 5	10	64	0.0064	25	0.0025	13	0.0013
00-133-099	1388 276	< 2	< 5	16	74	0.0074	40	0.0040	13	0.0013
00-133-100	1388 276	< 2	< 5	16	82	0.0082	31	0.0031	10	0.0010
00-133-101	1388 294	4	< 5	26	91	0.0091	45	0.0045	16	0.0016
00-133-102	1388 294	4	< 5	28	96	0.0096	71	0.0071	31	0.0031
00-133-103	1388 276	< 2	< 5	28	62	0.0062	38	0.0038	15	0.0015
00-133-104	1388 276	4	< 5	28	116	0.0116	54	0.0054	14	0.0014
00-133-105	1388 276	< 2	< 5	26	71	0.0071	36	0.0036	10	0.0010
00-133-106	1388 294	4	< 5	46	188	0.0188	54	0.0054	7	0.0007
00-133-107	1388 294	54	70	268	1290	0.1290	472	0.0472	69	0.0069
00-133-108	1388 226	34	25	144	539	0.0539	266	0.0266	52	0.0052
00-133-109	1388 226	36	65	90	607	0.0607	250	0.0250	40	0.0040
00-133-110	1388 294	84	60	284	755	0.0755	300	0.0300	47	0.0047
00-133-111	1388 226	136	205	1650	1370	0.1370	609	0.0609	76	0.0076
00-133-112	1388 294	54	145	1620	262	0.0262	302	0.0302	44	0.0044
00-133-113	1388 294	20	170	696	134	0.0134	221	0.0221	32	0.0032
00-133-114	1388 226	218	210	2780	743	0.0743	626	0.0626	38	0.0038
00-133-115	1388 226	488	330	4100	1600	0.1600	837	0.0837	68	0.0068
00-133-116	1388 294	700	710	7800	1795	0.1795	1665	0.1665	50	0.0050
00-133-117	1388 294	206	255	2890	513	0.0513	507	0.0507	45	0.0045
00-133-118	1388 294	358	430	5640	2060	0.2060	1285	0.1285	113	0.0113
00-133-119	1388 294	160	135	2030	658	0.0658	510	0.0510	39	0.0039
00-133-120	1388 294	298	340	4790	1200	0.1200	717	0.0717	44	0.0044

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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 5175 Timberlea Blvd., Mississauga  
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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020768  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020768

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-121	1388 276	376	405	6810	496	0.0496	669	0.0669	40	0.0040
00-133-122	1388 276	162	205	3090	682	0.0682	855	0.0855	37	0.0037
00-133-123	1388 276	8	5	76	75	0.0075	87	0.0087	11	0.0011
00-133-124	1388 276	152	45	190	655	0.0655	986	0.0986	42	0.0042
00-133-125	1388 276	156	205	2340	464	0.0464	561	0.0561	32	0.0032
00-133-126	1388 276	94	70	600	304	0.0304	352	0.0352	34	0.0034
00-133-127	1388 276	214	190	1250	1170	0.1170	707	0.0707	40	0.0040
00-133-128	1388 226	88	30	288	472	0.0472	246	0.0246	23	0.0023
00-133-129	1388 226	10	< 5	14	108	0.0108	34	0.0034	24	0.0024
00-133-130	1388 294	22	65	682	248	0.0248	318	0.0318	29	0.0029
00-133-131	1388 294	174	160	2350	830	0.0830	638	0.0638	35	0.0035
00-133-132	1388 226	68	40	434	290	0.0290	100	0.0100	23	0.0023
00-133-133	1388 294	140	230	4400	607	0.0607	581	0.0581	29	0.0029
00-133-134	1388 226	22	< 5	20	182	0.0182	79	0.0079	27	0.0027
00-133-135	1388 276	90	115	1395	397	0.0397	364	0.0364	21	0.0021
00-133-136	1388 294	46	90	722	179	0.0179	208	0.0208	17	0.0017
00-133-137	1388 276	56	75	900	238	0.0238	233	0.0233	20	0.0020
00-133-138	1388 276	88	110	1405	362	0.0362	291	0.0291	25	0.0025
00-133-139	1388 276	100	155	2070	476	0.0476	539	0.0539	38	0.0038
00-133-140	1388 276	214	210	3100	817	0.0817	757	0.0757	38	0.0038
00-133-141	1388 276	324	195	3230	1255	0.1255	1215	0.1215	45	0.0045
00-133-142	1388 276	618	260	4670	1590	0.1590	1285	0.1285	51	0.0051
00-133-143	1388 276	672	385	7700	2190	0.2190	1980	0.1980	60	0.0060
00-133-144	1388 276	200	105	1380	1380	0.1380	1160	0.1160	41	0.0041
133-STA-168	214 3202	294	330	3300	907	0.0907	673	0.0673	38	0.0038

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Page Number :1  
 Total Pages :2  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020857  
 P.O. Number :  
 Account : MZI

Project : 00-133  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0020857

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-145	1388 276	410	200	2730	1765	0.1765	1495	0.1495	50	0.0050
00-133-146	1388 276	46	20	420	377	0.0377	392	0.0392	29	0.0029
00-133-147	1388 294	70	35	716	813	0.0813	633	0.0633	29	0.0029
00-133-148	1388 294	16	40	788	158	0.0158	89	0.0089	21	0.0021
00-133-149	1388 276	10	5	148	203	0.0203	111	0.0111	28	0.0028
00-133-150	1388 276	12	< 5	28	151	0.0151	45	0.0045	28	0.0028
00-133-151	1388 276	398	425	4400	2960	0.2960	1830	0.1830	56	0.0056
00-133-152	1388 276	46	< 5	82	235	0.0235	53	0.0053	23	0.0023
00-133-153	1388 276	476	305	4740	1960	0.1960	1520	0.1520	49	0.0049
00-133-154	1388 276	8	< 5	32	135	0.0135	44	0.0044	24	0.0024
00-133-155	1388 294	6	10	50	89	0.0089	44	0.0044	24	0.0024
00-133-156	1388 276	362	345	2940	1535	0.1535	1150	0.1150	37	0.0037
00-133-157	1388 294	162	< 5	140	403	0.0403	42	0.0042	23	0.0023
00-133-158	1388 276	88	15	178	448	0.0448	99	0.0099	23	0.0023
00-133-159	1388 226	70	170	1870	381	0.0381	659	0.0659	34	0.0034
00-133-160	1388 276	6	< 5	2	82	0.0082	15	0.0015	23	0.0023
00-133-161	1388 276	4	< 5	6	60	0.0060	21	0.0021	22	0.0022
00-133-162	1388 276	< 2	< 5	< 2	76	0.0076	19	0.0019	23	0.0023
00-133-163	1388 276	< 2	< 5	< 2	54	0.0054	16	0.0016	21	0.0021
00-133-164	1388 276	< 2	< 5	< 2	48	0.0048	22	0.0022	23	0.0023
00-133-165	1388 276	12	< 5	2	88	0.0088	34	0.0034	24	0.0024
00-133-166	1388 276	4	< 5	< 2	61	0.0061	33	0.0033	25	0.0025
00-133-167	1388 276	< 2	< 5	< 2	64	0.0064	26	0.0026	24	0.0024
00-133-168	1388 294	18	15	198	231	0.0231	85	0.0085	23	0.0023
00-133-169	1388 276	10	30	126	63	0.0063	166	0.0166	21	0.0021
00-133-170	1388 276	8	< 5	72	75	0.0075	50	0.0050	26	0.0026
00-133-171	1388 276	6	< 5	22	85	0.0085	31	0.0031	22	0.0022
00-133-172	1388 294	18	< 5	54	134	0.0134	54	0.0054	23	0.0023
00-133-173	1388 226	10	55	548	36	0.0036	241	0.0241	17	0.0017
00-133-174	1388 276	2	< 5	< 2	62	0.0062	22	0.0022	24	0.0024
00-133-175	1388 276	4	< 5	36	64	0.0064	50	0.0050	22	0.0022
00-133-176	1388 294	4	< 5	28	87	0.0087	40	0.0040	22	0.0022
00-133-177	1388 276	42	95	716	210	0.0210	381	0.0381	33	0.0033
00-133-178	1388 276	6	< 5	14	77	0.0077	28	0.0028	21	0.0021
00-133-179	1388 276	132	195	1350	680	0.0680	505	0.0505	31	0.0031
00-133-180	1388 276	8	< 5	2	66	0.0066	9	0.0009	20	0.0020
00-133-181	1388 276	4	< 5	4	89	0.0089	8	0.0008	19	0.0019
00-133-182	1388 276	2	< 5	24	67	0.0067	20	0.0020	21	0.0021
00-133-183	1388 276	< 2	< 5	< 2	52	0.0052	28	0.0028	24	0.0024
00-133-184	1388 276	< 2	< 5	< 2	55	0.0055	21	0.0021	23	0.0023

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# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-133  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 26-JUN-2000  
 Invoice No. :10020857  
 P.O. Number :  
 Account :MZI

## CERTIFICATE OF ANALYSIS A0020857

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-185	1388	276	< 2	< 5	< 2	43	0.0043	7	0.0007	20	0.0020
00-133-186	1388	276	< 2	< 5	< 2	59	0.0059	10	0.0010	20	0.0020
00-133-187	1388	276	< 2	< 5	< 2	66	0.0066	7	0.0007	22	0.0022
00-133-188	1388	276	< 2	< 5	< 2	74	0.0074	12	0.0012	22	0.0022
00-133-189	1388	276	< 2	< 5	< 2	51	0.0051	7	0.0007	22	0.0022
133-STA-171	2143	202	246	355	3350	1520	0.1520	1220	0.1220	44	0.0044

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 P7B 5J9

Page Number : 1  
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 Certificate Date: 29-JUN-2000  
 Invoice No. : I0020953  
 P.O. Number :  
 Account : MZI

Project : 00-133  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0020953

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-133-190	1388 294	18	45	364	151	0.0151	102	0.0102	26	0.0026
00-133-191	1388 276	152	610	3300	866	0.0866	597	0.0597	36	0.0036
00-133-192	1388 276	70	190	1315	510	0.0510	425	0.0425	30	0.0030
00-133-193	1388 276	64	315	1740	378	0.0378	404	0.0404	31	0.0031
00-133-194	1388 276	62	95	924	524	0.0524	460	0.0460	34	0.0034
00-133-195	1388 276	44	350	1615	381	0.0381	372	0.0372	24	0.0024
00-133-196	1388 276	30	185	990	323	0.0323	317	0.0317	23	0.0023
00-133-197	1388 276	54	180	1260	552	0.0552	346	0.0346	27	0.0027
00-133-198	1388 276	4	< 5	16	55	0.0055	54	0.0054	13	0.0013
00-133-199	1388 294	12	20	118	69	0.0069	162	0.0162	27	0.0027
00-133-200	1388 276	74	80	584	455	0.0455	404	0.0404	32	0.0032
00-133-201	1388 276	32	60	566	274	0.0274	291	0.0291	26	0.0026
00-133-202	1388 276	190	60	708	525	0.0525	329	0.0329	29	0.0029
00-133-203	1388 276	56	175	1150	462	0.0462	348	0.0348	28	0.0028
00-133-204	1388 294	12	45	228	94	0.0094	136	0.0136	17	0.0017
00-133-205	1388 276	48	65	480	267	0.0267	120	0.0120	24	0.0024
133-STA-173	214 238	328	315	3400	1495	0.1495	1180	0.1180	43	0.0043

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Aurora Laboratory Services Ltd.  
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To: LAC DES ILES MINES LTD.

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A0021312

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE** **A0021312**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-134  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 11-JUL-2000.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	33	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	3	0-3 Kg crush and split
294	3	4-7 Kg crush and split
276	27	8-12 Kg crush and split
3202	33	Rock - save entire reject
238	34	Nitric-aqua-regia digestion

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	34	Au ppb: FA ICP package	FA-ICP	2	10000
976	34	Pt ppb: FA ICP package	FA-ICP	5	10000
977	34	Pd ppb: FA ICP package	FA-ICP	2	10000
2	34	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	34	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	34	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	34	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	34	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	34	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020961

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020961**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-134  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 29-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	63	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	10	0-3 Kg crush and split
294	20	4-7 Kg crush and split
276	33	8-12 Kg crush and split
3202	63	Rock - save entire reject
238	11	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	64	Au ppb: FA ICP package	FA-ICP	2	10000
976	64	Pt ppb: FA ICP package	FA-ICP	5	10000
977	64	Pd ppb: FA ICP package	FA-ICP	2	10000
2	11	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	11	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	11	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	11	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	11	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	11	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

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To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-134  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :2  
 Certificate Date: 29-JUN-2000  
 Invoice No. : I0020961  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020961

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-134-001	1388 226	4	< 5	20	-----	-----	-----	-----	-----	-----
00-134-002	1388 226	6	< 5	4	-----	-----	-----	-----	-----	-----
00-134-003	1388 226	12	30	178	-----	-----	-----	-----	-----	-----
00-134-004	1388 276	26	45	308	-----	-----	-----	-----	-----	-----
00-134-005	1388 276	6	25	128	-----	-----	-----	-----	-----	-----
00-134-006	1388 276	2	30	126	-----	-----	-----	-----	-----	-----
00-134-007	1388 276	4	30	106	-----	-----	-----	-----	-----	-----
00-134-008	1388 276	12	20	124	-----	-----	-----	-----	-----	-----
00-134-009	1388 276	4	10	114	-----	-----	-----	-----	-----	-----
00-134-010	1388 276	4	25	110	-----	-----	-----	-----	-----	-----
00-134-011	1388 276	6	20	92	-----	-----	-----	-----	-----	-----
00-134-012	1388 276	20	25	126	-----	-----	-----	-----	-----	-----
00-134-013	1388 276	12	25	114	-----	-----	-----	-----	-----	-----
00-134-014	1388 276	16	30	134	-----	-----	-----	-----	-----	-----
00-134-015	1388 276	12	40	114	-----	-----	-----	-----	-----	-----
00-134-016	1388 226	192	115	1440	-----	-----	-----	-----	-----	-----
00-134-017	1388 276	32	25	188	-----	-----	-----	-----	-----	-----
00-134-018	1388 276	14	40	142	209	0.0209	140	0.0140	24	0.0024
00-134-019	1388 226	16	25	106	214	0.0214	114	0.0114	20	0.0020
00-134-020	1388 226	200	215	1085	3180	0.3180	2890	0.2890	132	0.0132
00-134-021	1388 276	26	20	158	472	0.0472	322	0.0322	45	0.0045
00-134-022	1388 276	18	35	242	243	0.0243	207	0.0207	37	0.0037
00-134-023	1388 276	62	70	480	378	0.0378	281	0.0281	33	0.0033
00-134-024	1388 276	26	55	330	-----	-----	-----	-----	-----	-----
00-134-025	1388 226	4	10	166	-----	-----	-----	-----	-----	-----
00-134-026	1388 294	< 2	10	48	-----	-----	-----	-----	-----	-----
00-134-027	1388 276	4	35	54	-----	-----	-----	-----	-----	-----
00-134-028	1388 276	42	20	146	-----	-----	-----	-----	-----	-----
00-134-029	1388 276	6	10	90	-----	-----	-----	-----	-----	-----
00-134-030	1388 276	8	20	108	-----	-----	-----	-----	-----	-----
00-134-031	1388 276	8	5	72	-----	-----	-----	-----	-----	-----
00-134-032	1388 276	28	10	98	-----	-----	-----	-----	-----	-----
00-134-033	1388 276	8	20	98	-----	-----	-----	-----	-----	-----
00-134-034	1388 294	< 2	10	84	-----	-----	-----	-----	-----	-----
00-134-035	1388 294	4	< 5	64	-----	-----	-----	-----	-----	-----
00-134-036	1388 294	< 4	< 5	12	-----	-----	-----	-----	-----	-----
00-134-037	1388 294	< 2	< 5	20	-----	-----	-----	-----	-----	-----
00-134-038	1388 294	< 2	< 5	34	-----	-----	-----	-----	-----	-----
00-134-039	1388 294	< 2	< 5	42	-----	-----	-----	-----	-----	-----
00-134-040	1388 226	< 2	< 5	48	-----	-----	-----	-----	-----	-----

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD. ##  
 P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-134  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 29-JUN-2000  
 Invoice No. : I0020961  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020961

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-134-041	1388 294	18	20	120	-----	-----	-----	-----	-----	-----
00-134-042	1388 276	6	10	84	-----	-----	-----	-----	-----	-----
00-134-043	1388 276	22	15	80	-----	-----	-----	-----	-----	-----
00-134-044	1388 276	14	15	104	-----	-----	-----	-----	-----	-----
00-134-045	1388 276	6	5	64	-----	-----	-----	-----	-----	-----
00-134-046	1388 294	14	20	146	-----	-----	-----	-----	-----	-----
00-134-047	1388 294	< 2	< 5	18	-----	-----	-----	-----	-----	-----
00-134-048	1388 276	< 2	< 5	28	-----	-----	-----	-----	-----	-----
00-134-049	1388 294	< 2	< 5	24	-----	-----	-----	-----	-----	-----
00-134-050	1388 294	< 2	< 5	82	-----	-----	-----	-----	-----	-----
00-134-051	1388 294	< 2	15	40	-----	-----	-----	-----	-----	-----
00-134-052	1388 294	4	15	100	-----	-----	-----	-----	-----	-----
00-134-053	1388 276	6	10	108	-----	-----	-----	-----	-----	-----
00-134-054	1388 276	4	5	64	-----	-----	-----	-----	-----	-----
00-134-055	1388 276	6	15	106	-----	-----	-----	-----	-----	-----
00-134-056	1388 294	6	35	208	-----	-----	-----	-----	-----	-----
00-134-057	1388 294	< 2	30	294	-----	-----	-----	-----	-----	-----
00-134-058	1388 294	< 2	15	62	-----	-----	-----	-----	-----	-----
00-134-059	1388 294	4	15	46	-----	-----	-----	-----	-----	-----
00-134-060	1388 294	8	< 5	40	85	0.0085	101	0.0101	17	0.0017
00-134-061	1388 294	6	< 5	20	189	0.0189	127	0.0127	21	0.0021
00-134-062	1388 226	8	< 5	32	366	0.0366	86	0.0086	14	0.0014
00-134-063	1388 226	262	330	1780	>10000	>1.0000	8320	0.8820	425	0.0484
134-STA-174	214 238	338	360	3470	1455	0.1455	1140	0.1140	42	0.0042

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To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-134  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 30-JUN-2000  
 Invoice No. : I0021048  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021048

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-134-064	1388 276	16	10	74	174	0.0174	319	0.0319	62	0.0062	
00-134-065	1388 276	6	< 5	40	157	0.0157	332	0.0332	64	0.0064	
00-134-066	1388 276	< 2	10	60	102	0.0102	387	0.0387	69	0.0069	
00-134-066A	1388 276	20	25	122	582	0.0582	384	0.0384	54	0.0054	
00-134-067	1388 276	34	90	518	-----	-----	-----	-----	-----	-----	
00-134-068	1388 276	2	< 5	6	-----	-----	-----	-----	-----	-----	
00-134-069	1388 276	< 2	< 5	4	-----	-----	-----	-----	-----	-----	
00-134-070	1388 276	< 2	< 5	16	-----	-----	-----	-----	-----	-----	
00-134-071	1388 276	< 2	< 5	8	-----	-----	-----	-----	-----	-----	
00-134-072	1388 276	< 2	< 5	8	-----	-----	-----	-----	-----	-----	
00-134-073	1388 276	< 2	< 5	4	-----	-----	-----	-----	-----	-----	
00-134-074	1388 276	2	< 5	18	-----	-----	-----	-----	-----	-----	
00-134-075	1388 276	< 2	< 5	6	-----	-----	-----	-----	-----	-----	
00-134-076	1388 276	< 2	< 5	6	-----	-----	-----	-----	-----	-----	
00-134-077	1388 276	< 2	< 5	6	-----	-----	-----	-----	-----	-----	
00-134-078	1388 276	8	< 5	18	-----	-----	-----	-----	-----	-----	
00-134-079	1388 276	4	< 5	6	-----	-----	-----	-----	-----	-----	
00-134-080	1388 276	8	< 5	6	-----	-----	-----	-----	-----	-----	
00-134-081	1388 276	2	< 5	12	-----	-----	-----	-----	-----	-----	
00-134-082	1388 276	< 2	< 5	10	-----	-----	-----	-----	-----	-----	
00-134-083	1388 276	4	< 5	22	-----	-----	-----	-----	-----	-----	
00-134-084	1388 276	4	< 5	24	-----	-----	-----	-----	-----	-----	
134-STA-178	214 238	282	285	3170	1275	0.1275	1180	0.1180	45	0.0045	

CERTIFICATION:

*Chas. Lavigne*





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 28-JUN-2000  
 Invoice No. : I0021084  
 P.O. Number :  
 Account : MZI

Project : 00-134  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021084

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-134-085	1388 294	< 2	< 5	14	-----	104	0.0104	42	0.0042	16	0.0016
00-134-086	1388 276	< 2	< 5	10	-----	82	0.0082	42	0.0042	15	0.0015
00-134-087	1388 276	4	< 5	18	-----	104	0.0104	41	0.0041	16	0.0016
00-134-088	1388 276	< 2	< 5	16	-----	100	0.0100	53	0.0053	21	0.0021
00-134-089	1388 294	6	< 5	16	-----	88	0.0088	45	0.0045	21	0.0021
00-134-090	1388 294	< 2	< 5	< 2	-----	22	0.0022	23	0.0023	8	0.0008
00-134-091	1388 294	< 2	< 5	14	-----	92	0.0092	46	0.0046	18	0.0018
00-134-092	1388 294	< 2	< 5	12	-----	84	0.0084	55	0.0055	22	0.0022
00-134-093	1388 294	< 2	< 5	12	-----	118	0.0118	63	0.0063	23	0.0023
00-134-094	1388 276	< 2	< 5	12	-----	110	0.0110	60	0.0060	21	0.0021
00-134-095	1388 276	< 2	< 5	10	-----	100	0.0100	61	0.0061	21	0.0021
00-134-096	1388 294	< 2	< 5	< 2	-----	37	0.0037	25	0.0025	9	0.0009
00-134-097	1388 294	< 2	< 5	16	-----	88	0.0088	46	0.0046	15	0.0015
00-134-098	1388 276	< 2	< 5	< 2	-----	33	0.0033	22	0.0022	9	0.0009
00-134-099	1388 276	< 2	< 5	< 2	-----	21	0.0021	22	0.0022	8	0.0008
00-134-100	1388 226	< 2	< 5	6	-----	106	0.0106	36	0.0036	13	0.0013
00-134-101	1388 276	12	< 5	14	-----	146	0.0146	52	0.0052	19	0.0019
00-134-102	1388 276	< 2	< 5	12	-----	86	0.0086	49	0.0049	21	0.0021
00-134-103	1388 276	4	5	18	-----	102	0.0102	54	0.0054	17	0.0017
00-134-104	1388 276	4	5	20	-----	81	0.0081	53	0.0053	20	0.0020
00-134-105	1388 276	4	< 5	20	-----	104	0.0104	43	0.0043	18	0.0018
00-134-106	1388 276	2	< 5	22	-----	77	0.0077	53	0.0053	20	0.0020
00-134-107	1388 276	2	< 5	20	-----	65	0.0065	44	0.0044	17	0.0017
00-134-108	1388 276	< 2	< 5	26	-----	73	0.0073	44	0.0044	18	0.0018
00-134-109	1388 276	< 2	< 5	24	-----	70	0.0070	46	0.0046	17	0.0017
00-134-110	1388 276	< 2	< 5	22	-----	72	0.0072	50	0.0050	19	0.0019
00-134-111	1388 276	10	< 5	26	-----	73	0.0073	42	0.0042	16	0.0016
00-134-112	1388 276	2	< 5	26	-----	98	0.0098	43	0.0043	17	0.0017
00-134-113	1388 276	4	5	90	-----	67	0.0067	38	0.0038	13	0.0013
00-134-114	1388 276	< 2	5	48	-----	67	0.0067	45	0.0045	19	0.0019
00-134-115	1388 276	4	< 5	48	-----	81	0.0081	44	0.0044	15	0.0015
00-134-116	1388 276	< 2	< 5	16	-----	53	0.0053	35	0.0035	15	0.0015
00-134-117	1388 276	8	5	56	-----	64	0.0064	44	0.0044	17	0.0017
00-134-118	1388 276	< 2	5	32	-----	75	0.0075	42	0.0042	15	0.0015
00-134-119	1388 276	4	10	80	-----	110	0.0110	52	0.0052	18	0.0018
00-134-120	1388 276	28	10	68	-----	136	0.0136	60	0.0060	17	0.0017
00-134-121	1388 276	20	30	176	-----	437	0.0437	163	0.0163	19	0.0019
00-134-122	1388 294	110	190	2110	-----	2090	0.2090	888	0.0888	98	0.0098
00-134-122A	1388 226	22	30	200	-----	568	0.0568	275	0.0275	53	0.0053
00-134-123	1388 294	26	35	172	-----	586	0.0586	266	0.0266	42	0.0042

CERTIFICATION: *S.M. Lavigne*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-134  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 2  
 Certificate Date: 28-JUN-2000  
 Invoice No. : 10021084  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021084

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Pd g/t	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-134-123A	1388	226	46	100	1255	-----						
00-134-124	1388	294	372	405	5500	-----	364	0.0364	415	0.0415	29	0.0029
00-134-125	1388	294	84	140	1880	-----	1280	0.1280	1130	0.1130	44	0.0044
00-134-126	1388	294	36	35	412	-----	684	0.0684	423	0.0423	33	0.0033
00-134-127	1388	294	84	135	2190	-----	160	0.0160	149	0.0149	18	0.0018
							360	0.0360	323	0.0323	27	0.0027
00-134-128	1388	294	86	440	7030	-----	453	0.0453	617	0.0617	40	0.0040
00-134-129	1388	294	164	665	>10000	18.00	690	0.0690	787	0.0787	45	0.0045
00-134-130	1388	294	108	545	>10000	15.20	391	0.0391	501	0.0501	45	0.0045
00-134-131	1388	294	160	535	>10000	15.90	842	0.0842	845	0.0845	52	0.0052
00-134-132	1388	294	114	665	9790	-----	308	0.0308	554	0.0554	38	0.0038
00-134-133	1388	294	56	305	4180	-----	296	0.0296	681	0.0681	41	0.0041
00-134-134	1388	294	144	65	278	-----	1705	0.1705	1765	0.1765	52	0.0052
00-134-135	1388	276	134	115	1595	-----	456	0.0456	488	0.0488	32	0.0032
00-134-136	1388	276	116	80	518	-----	334	0.0334	478	0.0478	31	0.0031
00-134-137	1388	276	410	175	1910	-----	668	0.0668	670	0.0670	37	0.0037
00-134-138	1388	276	346	120	2060	-----	616	0.0616	650	0.0650	36	0.0036
00-134-139	1388	276	480	330	4610	-----	1565	0.1565	994	0.0994	67	0.0067
00-134-140	1388	276	210	325	2590	-----	827	0.0827	627	0.0627	39	0.0039
00-134-141	1388	276	344	200	2820	-----	899	0.0899	821	0.0821	45	0.0045

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

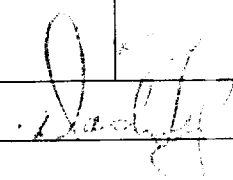
P.O. BOX 3386  
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 P7B 5J9

Project : 00-134  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JUN-2000  
 Invoice No. : 10021212  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021212

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-134-142	1388 294	220	225	3070	688	0.0688	727	0.0727	33	0.0033
00-134-143	1388 276	48	< 5	36	195	0.0195	31	0.0031	22	0.0022
00-134-144	1388 294	202	235	3590	677	0.0677	773	0.0773	36	0.0036
00-134-145	1388 294	238	145	2240	846	0.0846	677	0.0677	37	0.0037
00-134-146	1388 294	18	5	168	190	0.0190	48	0.0048	21	0.0021
00-134-147	1388 294	44	45	680	182	0.0182	213	0.0213	20	0.0020
00-134-148	1388 294	50	55	878	322	0.0322	347	0.0347	23	0.0023
00-134-149	1388 294	48	10	126	255	0.0255	96	0.0096	22	0.0022
00-134-150	1388 276	128	90	1145	392	0.0392	374	0.0374	25	0.0025
00-134-151	1388 276	176	105	1340	869	0.0869	892	0.0892	35	0.0035
00-134-152	1388 276	122	100	604	746	0.0746	685	0.0685	29	0.0029
00-134-153	1388 276	120	85	816	661	0.0661	551	0.0551	28	0.0028
00-134-154	1388 276	174	115	1260	733	0.0733	601	0.0601	31	0.0031
00-134-155	1388 276	32	< 5	70	201	0.0201	52	0.0052	22	0.0022
00-134-156	1388 276	4	< 5	6	62	0.0062	9	0.0009	21	0.0021
00-134-157	1388 276	8	< 5	8	129	0.0129	11	0.0011	22	0.0022
00-134-158	1388 294	< 2	< 5	2	73	0.0073	8	0.0008	21	0.0021
00-134-159	1388 294	44	< 5	40	517	0.0517	29	0.0029	28	0.0028
00-134-160	1388 276	74	20	430	278	0.0278	134	0.0134	26	0.0026
00-134-161	1388 276	376	250	4340	1475	0.1475	1290	0.1290	39	0.0039
00-134-162	1388 276	276	275	3520	2090	0.2090	1200	0.1200	47	0.0047
00-134-163	1388 276	314	245	3330	1455	0.1455	1250	0.1250	40	0.0040
00-134-164	1388 276	248	200	2300	1355	0.1355	899	0.0899	36	0.0036
00-134-165	1388 276	334	230	3590	1590	0.1590	1180	0.1180	44	0.0044
00-134-166	1388 276	196	105	838	582	0.0582	421	0.0421	27	0.0027
00-134-167	1388 294	40	55	340	243	0.0243	307	0.0307	22	0.0022
00-134-168	1388 294	16	< 5	34	118	0.0118	38	0.0038	22	0.0022
00-134-169	1388 294	48	75	530	174	0.0174	389	0.0389	38	0.0038
00-134-170	1388 294	76	125	662	360	0.0360	381	0.0381	43	0.0043
00-134-171	1388 276	326	155	2110	1140	0.1140	982	0.0982	43	0.0043
134-STA-184	214 238	328	265	3080	1280	0.1280	1115	0.1115	44	0.0044

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 1  
 Certificate Date: 11-JUL-2000  
 Invoice No. : I0021312  
 P.O. Number :  
 Account : MZI

Project: 00-134  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021312

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-134-172	1388 276	110	250	1100	499	0.0499	576	0.0576	45	0.0045
00-134-173	1388 276	294	335	4090	1435	0.1435	1685	0.1685	69	0.0069
00-134-174	1388 276	422	285	3050	992	0.0992	1260	0.1260	63	0.0063
00-134-175	1388 276	158	190	2060	919	0.0919	916	0.0916	54	0.0054
00-134-176	1388 226	32	100	886	152	0.0152	419	0.0419	38	0.0038
00-134-177	1388 294	6	< 5	82	97	0.0097	70	0.0070	31	0.0031
00-134-178	1388 276	8	< 5	60	83	0.0083	54	0.0054	25	0.0025
00-134-179	1388 276	8	< 5	6	88	0.0088	68	0.0068	31	0.0031
00-134-180	1388 276	4	< 5	6	42	0.0042	21	0.0021	25	0.0025
00-134-181	1388 276	4	< 5	16	56	0.0056	28	0.0028	25	0.0025
00-134-182	1388 276	4	< 5	18	52	0.0052	37	0.0037	25	0.0025
00-134-183	1388 276	4	20	102	54	0.0054	45	0.0045	26	0.0026
00-134-184	1388 276	36	50	356	265	0.0265	262	0.0262	32	0.0032
00-134-185	1388 276	22	15	134	128	0.0128	54	0.0054	21	0.0021
00-134-186	1388 226	66	120	976	369	0.0369	276	0.0276	29	0.0029
00-134-187	1388 294	44	100	722	176	0.0176	272	0.0272	27	0.0027
00-134-188	1388 276	34	65	604	252	0.0252	213	0.0213	28	0.0028
00-134-189	1388 276	44	485	2500	459	0.0459	562	0.0562	35	0.0035
00-134-190	1388 294	16	210	1265	386	0.0386	449	0.0449	33	0.0033
00-134-191	1388 226	4	< 5	22	56	0.0056	49	0.0049	15	0.0015
00-134-192	1388 276	6	< 5	22	53	0.0053	57	0.0057	16	0.0016
00-134-193	1388 276	8	10	162	98	0.0098	61	0.0061	29	0.0029
00-134-194	1388 276	4	< 5	20	54	0.0054	11	0.0011	23	0.0023
00-134-195	1388 276	36	150	1810	664	0.0664	788	0.0788	41	0.0041
00-134-196	1388 276	74	520	2890	546	0.0546	571	0.0571	33	0.0033
00-134-197	1388 276	102	570	2660	768	0.0768	560	0.0560	37	0.0037
00-134-198	1388 276	38	195	1535	437	0.0437	526	0.0526	34	0.0034
00-134-199	1388 276	38	240	1375	412	0.0412	442	0.0442	32	0.0032
00-134-200	1388 276	78	150	1120	499	0.0499	479	0.0479	36	0.0036
00-134-201	1388 276	60	85	864	446	0.0446	423	0.0423	29	0.0029
00-134-202	1388 276	160	145	1500	863	0.0863	757	0.0757	37	0.0037
00-134-203	1388 276	86	95	576	420	0.0420	345	0.0345	31	0.0031
00-134-204	1388 276	34	45	296	198	0.0198	217	0.0217	29	0.0029
134-STA-187	214 238	312	330	3200	1220	0.1220	1120	0.1120	46	0.0046

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

**RECEIVED**  
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Page Number :1  
 Total Pages :1  
 Certificate Date: 05-JUL-2000  
 Invoice No. : I0021407  
 P.O. Number :  
 Account : MZI

Project : 00-134  
 Comments: ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS A0021407**

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-134-205	1388	276	138	125	1255	621					
00-134-206	1388	294	102	90	626	368	0.0621	481	0.0481	39	0.0039
00-134-207	1388	294	74	165	1020	450	0.0368	347	0.0347	38	0.0038
00-134-208	1388	294	74	40	496	458	0.0450	400	0.0400	41	0.0041
00-134-209	1388	276	34	75	632	233	0.0458	366	0.0366	29	0.0029
							0.0233	225	0.0225	27	0.0027
00-134-210	1388	226	36	115	1130	281					
00-134-211	1388	294	72	60	618	319	0.0281	300	0.0300	31	0.0031
00-134-212	1388	294	184	95	1395	751	0.0319	268	0.0268	29	0.0029
00-134-213	1388	294	126	90	1245	794	0.0751	627	0.0627	40	0.0040
00-134-214	1388	294	88	140	902	629	0.0794	620	0.0620	36	0.0036
							0.0629	558	0.0558	44	0.0044
00-134-215	1388	276	14	140	582	165					
00-134-216	1388	294	28	180	928	345	0.0165	248	0.0248	19	0.0019
00-134-217	1388	294	22	170	812	119	0.0345	305	0.0305	18	0.0018
134-STA-188	214	238	440	300	3490	1250	0.0119	269	0.0269	16	0.0016
							0.1250	1135	0.1135	44	0.0044

CERTIFICATION:



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021409

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0021409**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-196  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 03-JUL-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	51	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	9	4-7 Kg crush and split
276	42	8-12 Kg crush and split
3202	51	Rock - save entire reject
238	52	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	52	Au ppb: FA ICP package	FA-ICP	2	10000
976	52	Pt ppb: FA ICP package	FA-ICP	5	10000
977	52	Pd ppb: FA ICP package	FA-ICP	2	10000
2	52	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	52	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	52	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	52	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	52	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	52	Co %: calculation from Co ppm	AAS	0.0001	10.000



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0021409

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0021409**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-196  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 03-JUL-2000.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	51	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	9	4-7 Kg crush and split
276	42	8-12 Kg crush and split
3202	51	Rock - save entire reject
238	52	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	52	Au ppb: FA ICP package	FA-ICP	2	10000
976	52	Pt ppb: FA ICP package	FA-ICP	5	10000
977	52	Pd ppb: FA ICP package	FA-ICP	2	10000
2	52	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	52	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	52	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	52	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	52	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	52	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

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Page Number : 1  
 Total Pages : 2  
 Certificate Date: 03-JUL-2000  
 Invoice No. : I0021409  
 P.O. Number :  
 Account : MZI

Project : 00-196  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021409

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-196-001	1388 276	16	50	206	109	0.0109	115	0.0115	18	0.0018
00-196-002	1388 276	22	50	154	141	0.0141	139	0.0139	24	0.0024
00-196-003	1388 276	32	95	378	205	0.0205	228	0.0228	27	0.0027
00-196-004	1388 276	32	70	344	219	0.0219	178	0.0178	22	0.0022
00-196-005	1388 276	30	45	196	208	0.0208	158	0.0158	19	0.0019
00-196-006	1388 276	18	10	68	141	0.0141	103	0.0103	18	0.0018
00-196-007	1388 276	92	155	588	457	0.0457	353	0.0353	32	0.0032
00-196-008	1388 276	70	75	266	267	0.0267	195	0.0195	20	0.0020
00-196-009	1388 276	14	50	160	68	0.0068	101	0.0101	15	0.0015
00-196-010	1388 294	72	125	562	492	0.0492	345	0.0345	27	0.0027
00-196-011	1388 294	98	180	1075	546	0.0546	358	0.0358	28	0.0028
00-196-012	1388 294	46	40	198	280	0.0280	159	0.0159	18	0.0018
00-196-013	1388 276	30	25	222	211	0.0211	152	0.0152	17	0.0017
00-196-014	1388 276	82	75	462	297	0.0297	233	0.0233	23	0.0023
00-196-015	1388 276	92	90	502	437	0.0437	347	0.0347	33	0.0033
00-196-016	1388 276	44	25	176	287	0.0287	196	0.0196	25	0.0025
00-196-017	1388 276	46	40	154	300	0.0300	311	0.0311	27	0.0027
00-196-018	1388 276	54	40	298	382	0.0382	298	0.0298	30	0.0030
00-196-019	1388 276	30	10	74	118	0.0118	95	0.0095	16	0.0016
00-196-020	1388 276	310	85	218	693	0.0693	485	0.0485	29	0.0029
00-196-021	1388 276	68	30	176	212	0.0212	151	0.0151	19	0.0019
00-196-022	1388 276	164	70	308	358	0.0358	269	0.0269	23	0.0023
00-196-023	1388 276	70	90	2140	177	0.0177	227	0.0227	23	0.0023
00-196-024	1388 276	52	140	3110	99	0.0099	173	0.0173	21	0.0021
00-196-025	1388 276	30	110	2050	61	0.0061	120	0.0120	16	0.0016
00-196-026	1388 276	8	35	250	46	0.0046	92	0.0092	14	0.0014
00-196-027	1388 276	28	185	1825	71	0.0071	139	0.0139	21	0.0021
00-196-028	1388 294	8	35	372	91	0.0091	90	0.0090	27	0.0027
00-196-029	1388 276	32	135	1490	103	0.0103	113	0.0113	17	0.0017
00-196-030	1388 294	12	30	376	84	0.0084	79	0.0079	14	0.0014
00-196-031	1388 276	10	30	160	42	0.0042	64	0.0064	12	0.0012
00-196-032	1388 276	4	35	192	25	0.0025	66	0.0066	12	0.0012
00-196-033	1388 276	< 2	40	164	12	0.0012	88	0.0088	14	0.0014
00-196-034	1388 276	< 2	40	164	23	0.0023	84	0.0084	13	0.0013
00-196-035	1388 276	12	70	564	68	0.0068	114	0.0114	16	0.0016
00-196-036	1388 276	8	55	232	46	0.0046	74	0.0074	14	0.0014
00-196-037	1388 276	2	40	146	19	0.0019	77	0.0077	12	0.0012
00-196-038	1388 294	52	185	2650	108	0.0108	215	0.0215	20	0.0020
00-196-039	1388 294	42	255	3840	33	0.0033	86	0.0086	10	0.0010
00-196-040	1388 276	32	160	2100	95	0.0095	153	0.0153	19	0.0019

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD. ##

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-196  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 03-JUL-2000  
 Invoice No. : I0021409  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021409

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-196-041	1388	276	10	125	1570	16	0.0016	62	0.0062	10	0.0010
00-196-042	1388	276	14	30	364	104	0.0104	73	0.0073	13	0.0013
00-196-043	1388	276	6	25	212	36	0.0036	71	0.0071	13	0.0013
00-196-044	1388	276	8	30	172	25	0.0025	80	0.0080	15	0.0015
00-196-045	1388	276	8	30	202	20	0.0020	46	0.0046	8	0.0008
00-196-046	1388	276	4	25	274	17	0.0017	79	0.0079	13	0.0013
00-196-047	1388	276	< 2	20	138	14	0.0014	75	0.0075	13	0.0013
00-196-048	1388	276	< 2	30	146	19	0.0019	57	0.0057	10	0.0010
00-196-049	1388	276	< 2	40	140	19	0.0019	61	0.0061	11	0.0011
00-196-050	1388	294	4	45	162	28	0.0028	57	0.0057	11	0.0011
00-196-051	1388	294	2	30	140	33	0.0033	44	0.0044	8	0.0008
196-STA-190	214	238	364	355	3550	1270	0.1270	1105	0.1105	45	0.0045

CERTIFICATION: \_\_\_\_\_



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 THUNDER BAY, ON  
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Page Number : 1  
 Total Pages : 1  
 Certificate Date: 07-JUL-2000  
 Invoice No. : I0021531  
 P.O. Number :  
 Account : MZI

Project : 00-196  
 Comments : ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021531

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-196-052	1388 294	4	30	150	27	0.0027	56	0.0056	10	0.0010
00-196-053	1388 276	4	< 5	216	17	0.0017	59	0.0059	10	0.0010
00-196-054	1388 294	4	25	160	12	0.0012	72	0.0072	13	0.0013
00-196-055	1388 276	6	35	146	18	0.0018	91	0.0091	16	0.0016
00-196-056	1388 294	8	50	442	42	0.0042	78	0.0078	14	0.0014
00-196-057	1388 276	4	25	188	13	0.0013	97	0.0097	17	0.0017
00-196-058	1388 276	2	20	132	15	0.0015	75	0.0075	13	0.0013
00-196-059	1388 276	4	30	140	17	0.0017	56	0.0056	8	0.0008
00-196-060	1388 276	2	20	88	12	0.0012	60	0.0060	10	0.0010
00-196-061	1388 276	4	35	132	28	0.0028	48	0.0048	9	0.0009
00-196-062	1388 276	2	30	146	18	0.0018	48	0.0048	8	0.0008
00-196-063	1388 276	4	25	146	14	0.0014	43	0.0043	8	0.0008
00-196-064	1388 276	4	25	144	17	0.0017	46	0.0046	9	0.0009
00-196-065	1388 276	4	35	290	13	0.0013	66	0.0066	12	0.0012
00-196-066	1388 276	4	25	128	10	0.0010	82	0.0082	14	0.0014
00-196-067	1388 276	4	20	132	21	0.0021	67	0.0067	12	0.0012
00-196-068	1388 276	12	30	208	84	0.0084	85	0.0085	13	0.0013
00-196-069	1388 276	6	35	216	52	0.0052	93	0.0093	16	0.0016
00-196-070	1388 294	4	20	128	38	0.0038	80	0.0080	12	0.0012
00-196-071	1388 294	26	40	318	159	0.0159	166	0.0166	26	0.0026
00-196-072	1388 294	8	35	192	61	0.0061	82	0.0082	15	0.0015
00-196-073	1388 294	6	40	248	10	0.0010	69	0.0069	13	0.0013
00-196-074	1388 276	4	50	216	12	0.0012	61	0.0061	10	0.0010
00-196-075	1388 276	4	25	158	14	0.0014	67	0.0067	11	0.0011
00-196-076	1388 276	2	25	162	16	0.0016	70	0.0070	11	0.0011
00-196-077	1388 276	20	75	644	116	0.0116	151	0.0151	20	0.0020
00-196-078	1388 294	6	< 5	152	40	0.0040	96	0.0096	16	0.0016
00-196-079	1388 294	44	365	2610	102	0.0102	229	0.0229	20	0.0020
00-196-080	1388 294	126	290	4840	412	0.0412	381	0.0381	28	0.0028
00-196-081	1388 276	20	85	622	80	0.0080	123	0.0123	18	0.0018
00-196-082	1388 294	22	50	402	95	0.0095	134	0.0134	19	0.0019
00-196-083	1388 294	28	90	1470	72	0.0072	93	0.0093	16	0.0016
00-196-084	1388 294	30	90	858	134	0.0134	167	0.0167	22	0.0022
00-196-085	1388 294	12	40	322	83	0.0083	88	0.0088	15	0.0015
196-STA-196	214 238	276	290	3410	1275	0.1275	1165	0.1165	46	0.0046

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020952

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020952**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-198  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 27-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	33	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	4	4-7 Kg crush and split
276	29	8-12 Kg crush and split
3202	34	Rock - save entire reject
238	34	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	34	Au ppb: FA ICP package	FA-ICP	2	10000
976	34	Pt ppb: FA ICP package	FA-ICP	5	10000
977	34	Pd ppb: FA ICP package	FA-ICP	2	10000
2	34	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	34	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	34	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	34	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	34	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	34	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
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Project : 00-198  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 27-JUN-2000  
 Invoice No. : 10020952  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020952

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-198-001	1388 294	24	15	50	84	0.0084	101	0.0101	18	0.0018
00-198-002	1388 276	10	< 5	24	59	0.0059	91	0.0091	16	0.0016
00-198-003	1388 276	12	5	32	77	0.0077	92	0.0092	18	0.0018
00-198-004	1388 276	18	20	56	93	0.0093	101	0.0101	17	0.0017
00-198-005	1388 276	12	15	44	62	0.0062	95	0.0095	15	0.0015
00-198-006	1388 276	14	20	52	91	0.0091	65	0.0065	10	0.0010
00-198-007	1388 276	20	55	132	121	0.0121	118	0.0118	14	0.0014
00-198-008	1388 276	168	375	1210	966	0.0966	1035	0.1035	50	0.0050
00-198-009	1388 294	20	10	36	146	0.0146	99	0.0099	22	0.0022
00-198-010	1388 294	88	100	276	499	0.0499	322	0.0322	29	0.0029
00-198-011	1388 276	94	80	314	440	0.0440	295	0.0295	26	0.0026
00-198-012	1388 276	196	100	64	1060	0.1060	842	0.0842	42	0.0042
00-198-013	1388 276	244	70	86	813	0.0813	748	0.0748	51	0.0051
00-198-014	1388 276	468	120	128	1320	0.1320	793	0.0793	43	0.0043
00-198-015	1388 276	400	100	180	1295	0.1295	821	0.0821	37	0.0037
00-198-016	1388 276	84	40	184	935	0.0935	519	0.0519	34	0.0034
00-198-017	1388 276	82	25	84	753	0.0753	516	0.0516	34	0.0034
00-198-018	1388 276	40	10	40	332	0.0332	260	0.0260	31	0.0031
00-198-019	1388 276	164	35	54	582	0.0582	392	0.0392	19	0.0019
00-198-020	1388 276	232	60	88	559	0.0559	473	0.0473	25	0.0025
00-198-021	1388 276	394	115	188	830	0.0830	618	0.0618	19	0.0019
00-198-022	1388 276	516	130	228	840	0.0840	688	0.0688	19	0.0019
00-198-023	1388 276	252	285	2510	442	0.0442	377	0.0377	22	0.0022
00-198-024	1388 276	24	30	412	62	0.0062	189	0.0189	27	0.0027
00-198-025	1388 294	10	10	132	118	0.0118	35	0.0035	21	0.0021
00-198-026	1388 276	4	30	100	17	0.0017	73	0.0073	12	0.0012
00-198-027	1388 276	4	25	88	16	0.0016	74	0.0074	12	0.0012
00-198-028	1388 276	6	30	88	182	0.0182	92	0.0092	15	0.0015
00-198-029	1388 276	2	25	76	12	0.0012	84	0.0084	13	0.0013
00-198-030	1388 276	2	30	82	14	0.0014	96	0.0096	14	0.0014
00-198-031	1388 276	2	35	100	16	0.0016	107	0.0107	14	0.0014
00-198-032	1388 276	2	25	64	16	0.0016	94	0.0094	13	0.0013
00-198-033	1388 276	8	40	186	43	0.0043	92	0.0092	14	0.0014
198-STA-175	2143202	282	320	3330	1315	0.1315	1245	0.1245	46	0.0046

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-198  
 Comments: ATTN: MOE LAVIGNE

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Page Number : 1  
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 Certificate Date: 28-JUN-2000  
 Invoice No. : 10021049  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0021049

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-198-034	1388 276	4	60	468	43	0.0043	112	0.0112	17	0.0017
00-198-035	1388 276	8	65	418	38	0.0038	102	0.0102	14	0.0014
00-198-036	1388 276	86	195	5120	133	0.0133	300	0.0300	22	0.0022
00-198-037	1388 276	68	225	3820	106	0.0106	313	0.0313	22	0.0022
00-198-038	1388 276	102	375	2740	445	0.0445	1160	0.1160	38	0.0038
00-198-039	1388 276	8	< 5	36	73	0.0073	19	0.0019	2	0.0002
00-198-040	1388 276	< 2	< 5	34	44	0.0044	19	0.0019	1	0.0001
00-198-041	1388 276	30	250	2400	110	0.0110	679	0.0679	35	0.0035
00-198-042	1388 276	94	490	7500	293	0.0293	722	0.0722	38	0.0038
00-198-043	1388 276	62	85	1460	254	0.0254	200	0.0200	18	0.0018
00-198-044	1388 294	40	145	3300	99	0.0099	250	0.0250	31	0.0031
00-198-045	1388 294	28	< 5	106	877	0.0877	72	0.0072	24	0.0024
00-198-046	1388 294	34	65	1495	84	0.0084	217	0.0217	31	0.0031
00-198-047	1388 294	84	175	4670	144	0.0144	335	0.0335	32	0.0032
00-198-048	1388 276	54	200	4470	152	0.0152	383	0.0383	28	0.0028
00-198-049	1388 276	124	215	2120	315	0.0315	763	0.0763	30	0.0030
00-198-050	1388 276	104	230	2440	374	0.0374	684	0.0684	32	0.0032
00-198-051	1388 276	694	295	1250	1375	0.1375	1395	0.1395	48	0.0048
00-198-052	1388 276	542	145	484	1075	0.1075	897	0.0897	28	0.0028
00-198-053	1388 276	786	280	2460	1950	0.1950	1690	0.1690	42	0.0042
00-198-054	1388 276	654	245	1770	1270	0.1270	1250	0.1250	39	0.0039
00-198-055	1388 276	836	385	3420	2530	0.2530	2150	0.2150	63	0.0063
00-198-056	1388 276	374	235	1270	1410	0.1410	1315	0.1315	43	0.0043
00-198-057	1388 276	844	530	2800	1980	0.1980	1635	0.1635	46	0.0046
00-198-058	1388 276	138	70	454	403	0.0403	207	0.0207	14	0.0014
00-198-059	1388 276	1155	390	1015	2400	0.2400	2200	0.2200	51	0.0051
00-198-060	1388 276	254	80	158	1065	0.1065	1110	0.1110	43	0.0043
00-198-061	1388 276	154	65	240	1660	0.1660	1140	0.1140	47	0.0047
00-198-062	1388 276	446	105	292	2940	0.2940	2210	0.2210	71	0.0071
00-198-063	1388 276	92	80	436	854	0.0854	790	0.0790	37	0.0037
00-198-064	1388 276	146	95	306	1520	0.1520	1215	0.1215	46	0.0046
00-198-065	1388 276	168	85	348	1500	0.1500	1395	0.1395	48	0.0048
00-198-066	1388 294	140	50	266	1065	0.1065	902	0.0902	39	0.0039
00-198-067	1388 276	80	45	294	839	0.0839	706	0.0706	38	0.0038
00-198-068	1388 276	358	140	382	3550	0.3550	2590	0.2590	91	0.0091
00-198-069	1388 276	330	100	374	3020	0.3020	2420	0.2420	70	0.0070
00-198-070	1388 276	162	50	130	2280	0.2280	1630	0.1630	57	0.0057
00-198-071	1388 276	98	25	106	1280	0.1280	589	0.0589	29	0.0029
00-198-072	1388 276	108	45	230	1340	0.1340	739	0.0739	33	0.0033
198-STA-177	214 238	326	325	3080	1345	0.1345	1255	0.1255	47	0.0047

CERTIFICATION: *Sara Lema*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 1  
 Certificate Date: 28-JUN-2000  
 Invoice No. : I0021049  
 P.O. Number :  
 Account : MZI

Project: 00-198  
 Comments: ATTN: MOE LAVIGNE

## CERTIFICATE OF ANALYSIS A0021049

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-198-034	1388 276	4	60	468	43	0.0043	112	0.0112	17	0.0017
00-198-035	1388 276	8	65	418	38	0.0038	102	0.0102	14	0.0014
00-198-036	1388 276	86	195	5120	133	0.0133	300	0.0300	22	0.0022
00-198-037	1388 276	68	225	3820	106	0.0106	313	0.0313	22	0.0022
00-198-038	1388 276	102	375	2740	445	0.0445	1160	0.1160	38	0.0038
00-198-039	1388 276	8	< 5	36	73	0.0073	19	0.0019	2	0.0002
00-198-040	1388 276	< 2	< 5	34	44	0.0044	19	0.0019	1	0.0001
00-198-041	1388 276	30	250	2400	110	0.0110	679	0.0679	35	0.0035
00-198-042	1388 276	94	490	7500	293	0.0293	722	0.0722	38	0.0038
00-198-043	1388 276	62	85	1460	254	0.0254	200	0.0200	18	0.0018
00-198-044	1388 294	40	145	3300	99	0.0099	250	0.0250	31	0.0031
00-198-045	1388 294	28	< 5	106	877	0.0877	72	0.0072	24	0.0024
00-198-046	1388 294	34	65	1495	84	0.0084	217	0.0217	31	0.0031
00-198-047	1388 294	84	175	4670	144	0.0144	335	0.0335	32	0.0032
00-198-048	1388 276	54	200	4470	152	0.0152	383	0.0383	28	0.0028
00-198-049	1388 276	124	215	2120	315	0.0315	763	0.0763	30	0.0030
00-198-050	1388 276	104	230	2440	374	0.0374	684	0.0684	32	0.0032
00-198-051	1388 276	694	295	1250	1375	0.1375	1395	0.1395	48	0.0048
00-198-052	1388 276	542	145	484	1075	0.1075	897	0.0897	28	0.0028
00-198-053	1388 276	786	280	2460	1950	0.1950	1690	0.1690	42	0.0042
00-198-054	1388 276	654	245	1770	1270	0.1270	1250	0.1250	39	0.0039
00-198-055	1388 276	836	385	3420	2530	0.2530	2150	0.2150	63	0.0063
00-198-056	1388 276	374	235	1270	1410	0.1410	1315	0.1315	43	0.0043
00-198-057	1388 276	844	530	2800	1980	0.1980	1635	0.1635	46	0.0046
00-198-058	1388 276	138	70	454	403	0.0403	207	0.0207	14	0.0014
00-198-059	1388 276	1155	390	1015	2400	0.2400	2200	0.2200	51	0.0051
00-198-060	1388 276	254	80	158	1065	0.1065	1110	0.1110	43	0.0043
00-198-061	1388 276	154	65	240	1660	0.1660	1140	0.1140	47	0.0047
00-198-062	1388 276	446	105	292	2940	0.2940	2210	0.2210	71	0.0071
00-198-063	1388 276	92	80	436	854	0.0854	790	0.0790	37	0.0037
00-198-064	1388 276	146	95	306	1520	0.1520	1215	0.1215	46	0.0046
00-198-065	1388 276	168	85	348	1500	0.1500	1395	0.1395	48	0.0048
00-198-066	1388 294	140	50	266	1065	0.1065	902	0.0902	39	0.0039
00-198-067	1388 276	80	45	294	839	0.0839	706	0.0706	38	0.0038
00-198-068	1388 276	358	140	382	3550	0.3550	2590	0.2590	91	0.0091
00-198-069	1388 276	330	100	374	3020	0.3020	2420	0.2420	70	0.0070
00-198-070	1388 276	162	50	130	2280	0.2280	1630	0.1630	57	0.0057
00-198-071	1388 276	98	25	106	1280	0.1280	589	0.0589	29	0.0029
00-198-072	1388 276	108	45	230	1340	0.1340	739	0.0739	33	0.0033
198-STA-177	214 238	326	325	3080	1345	0.1345	1255	0.1255	47	0.0047

CERTIFICATION:

*[Handwritten Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

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Page Number : 1  
 Total Pages : 1  
 Certificate Date: 04-JUL-2000  
 Invoice No. : I0021408  
 P.O. Number :  
 Account : MZI

Project : 00-198  
 Comments : ATTN: MOE LAVIGNE

**CERTIFICATE OF ANALYSIS A0021408**

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-198-109	1388 294	292	110	194	1165	0.1165	895	0.0895	30	0.0030
00-198-110	1388 276	354	120	202	1395	0.1395	1040	0.1040	38	0.0038
00-198-111	1388 276	338	105	186	1360	0.1360	1050	0.1050	44	0.0044
00-198-112	1388 294	164	70	132	747	0.0747	573	0.0573	33	0.0033
00-198-113	1388 294	160	75	142	785	0.0785	559	0.0559	34	0.0034
00-198-114	1388 294	126	75	134	589	0.0589	530	0.0530	30	0.0030
00-198-115	1388 276	370	215	346	2120	0.2120	3280	0.3280	54	0.0054
00-198-116	1388 276	336	365	544	2460	0.2460	1745	0.1745	90	0.0090
00-198-117	1388 276	648	330	484	3000	0.3000	3150	0.3150	81	0.0081
00-198-118	1388 276	636	240	358	2450	0.2450	2160	0.2160	65	0.0065
00-198-119	1388 294	260	70	142	1195	0.1195	859	0.0859	40	0.0040
00-198-120	1388 294	286	50	104	877	0.0877	618	0.0618	33	0.0033
00-198-121	1388 276	100	60	138	643	0.0643	489	0.0489	33	0.0033
00-198-122	1388 294	176	230	584	1215	0.1215	1115	0.1115	48	0.0048
00-198-123	1388 276	112	195	764	805	0.0805	1075	0.1075	43	0.0043
00-198-124	1388 294	438	175	484	2270	0.2270	1790	0.1790	58	0.0058
00-198-125	1388 294	358	250	1170	1685	0.1685	1135	0.1135	44	0.0044
00-198-126	1388 294	172	135	810	586	0.0586	809	0.0809	33	0.0033
00-198-127	1388 276	70	60	294	331	0.0331	285	0.0285	26	0.0026
00-198-128	1388 294	200	110	302	1185	0.1185	890	0.0890	42	0.0042
00-198-129	1388 294	94	105	364	351	0.0351	371	0.0371	25	0.0025
00-198-130	1388 226	126	120	680	360	0.0360	374	0.0374	30	0.0030
00-198-131	1388 294	150	60	530	284	0.0284	237	0.0237	26	0.0026
00-198-132	1388 276	144	110	456	216	0.0216	242	0.0242	24	0.0024
00-198-133	1388 294	82	290	4100	98	0.0098	250	0.0250	27	0.0027
00-198-134	1388 276	80	845	5220	213	0.0213	222	0.0222	31	0.0031
00-198-135	1388 276	38	205	2200	46	0.0046	159	0.0159	26	0.0026
00-198-136	1388 276	28	175	2360	38	0.0038	118	0.0118	16	0.0016
00-198-137	1388 276	28	70	660	33	0.0033	101	0.0101	20	0.0020
00-198-138	1388 294	32	70	1185	16	0.0016	113	0.0113	18	0.0018
00-198-139	1388 294	24	85	1475	12	0.0012	124	0.0124	20	0.0020
00-198-140	1388 294	32	100	1470	29	0.0029	109	0.0109	18	0.0018
00-198-141	1388 294	34	115	1710	14	0.0014	123	0.0123	18	0.0018
00-198-142	1388 294	34	110	1760	30	0.0030	162	0.0162	25	0.0025
00-198-143	1388 294	36	60	884	90	0.0090	101	0.0101	19	0.0019
00-198-144	1388 294	12	55	798	63	0.0063	126	0.0126	25	0.0025
198-STA-189	214 238	486	265	3270	1235	0.1235	1105	0.1105	45	0.0045

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020767

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020767**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-199  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 27-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	30	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	14	4-7 Kg crush and split
3202	31	Rock - save entire reject
238	31	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	31	Au ppb: FA ICP package	FA-ICP	2	10000
976	31	Pt ppb: FA ICP package	FA-ICP	5	10000
977	31	Pd ppb: FA ICP package	FA-ICP	2	10000
2	31	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	31	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	31	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	31	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	31	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	31	Co %: calculation from Co ppm	AAS	0.0001	10.000





# ALS Chemex

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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020767

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**

**A0020767**

(MZI) - LAC DES ILES MINES LTD.

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### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	30	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	14	4-7 Kg crush and split
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238	31	Nitric-aqua-regia digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	31	Au ppb: FA ICP package	FA-ICP	2	10000
976	31	Pt ppb: FA ICP package	FA-ICP	5	10000
977	31	Pd ppb: FA ICP package	FA-ICP	2	10000
2	31	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	31	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	31	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	31	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	31	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	31	Co %: calculation from Co ppm	AAS	0.0001	10.000



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P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-199  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :1  
 Certificate Date: 27-JUN-2000  
 Invoice No. : I0020767  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020767

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-199-001	1388 294	14	155	1330	28	0.0028	128	0.0128	18	0.0018
00-199-002	1388 294	40	45	532	99	0.0099	108	0.0108	16	0.0016
00-199-003	1388 3202	44	70	860	224	0.0224	154	0.0154	26	0.0026
00-199-004	1388 294	8	45	334	59	0.0059	86	0.0086	13	0.0013
00-199-005	1388 294	6	30	116	36	0.0036	76	0.0076	15	0.0015
00-199-006	1388 294	< 2	40	134	9	0.0009	83	0.0083	16	0.0016
00-199-007	1388 3202	< 2	35	146	12	0.0012	94	0.0094	14	0.0014
00-199-008	1388 3202	< 2	25	98	9	0.0009	103	0.0103	18	0.0018
00-199-009	1388 3202	< 2	35	366	8	0.0008	86	0.0086	15	0.0015
00-199-010	1388 3202	4	40	300	10	0.0010	83	0.0083	14	0.0014
00-199-011	1388 3202	< 2	55	302	8	0.0008	93	0.0093	13	0.0013
00-199-012	1388 3202	< 2	45	266	12	0.0012	91	0.0091	15	0.0015
00-199-013	1388 294	40	185	1205	242	0.0242	192	0.0192	28	0.0028
00-199-014	1388 3202	4	30	86	18	0.0018	76	0.0076	15	0.0015
00-199-015	1388 3202	4	35	324	12	0.0012	76	0.0076	13	0.0013
00-199-016	1388 294	52	180	2960	157	0.0157	155	0.0155	23	0.0023
00-199-017	1388 294	56	100	480	318	0.0318	226	0.0226	41	0.0041
00-199-018	1388 294	4	25	126	20	0.0020	78	0.0078	14	0.0014
00-199-019	1388 294	4	25	96	12	0.0012	71	0.0071	12	0.0012
00-199-020	1388 3202	8	30	128	14	0.0014	70	0.0070	12	0.0012
00-199-021	1388 3202	6	30	90	13	0.0013	72	0.0072	12	0.0012
00-199-022	1388 3202	< 2	45	124	18	0.0018	89	0.0089	17	0.0017
00-199-023	1388 294	16	15	76	144	0.0144	121	0.0121	34	0.0034
00-199-024	1388 294	14	55	290	72	0.0072	124	0.0124	18	0.0018
00-199-025	1388 294	2	45	310	15	0.0015	109	0.0109	18	0.0018
00-199-026	1388 294	< 2	< 5	2	13	0.0013	4	0.0004	1	0.0001
00-199-027	1388 3202	6	45	240	42	0.0042	102	0.0102	20	0.0020
00-199-028	1388 3202	12	20	132	82	0.0082	95	0.0095	20	0.0020
00-199-029	1388 3202	4	30	108	22	0.0022	86	0.0086	16	0.0016
00-199-030	1388 3202	8	75	1005	44	0.0044	93	0.0093	17	0.0017
199-STA-167	214 3202	270	290	3330	1195	0.1195	1080	0.1080	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

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 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-199  
 Comments: ATTN: MOE LAVIGNE

Page Number :1  
 Total Pages :2  
 Certificate Date: 27-JUN-2000  
 Invoice No. : I0020856  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020856

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	
00-199-031	1388 276	6	30	112	13	0.0013	82	0.0082	13	0.0013	
00-199-032	1388 276	6	35	190	99	0.0099	108	0.0108	22	0.0022	
00-199-033	1388 276	14	65	754	74	0.0074	89	0.0089	16	0.0016	
00-199-034	1388 294	6	45	458	44	0.0044	85	0.0085	11	0.0011	
00-199-035	1388 294	46	50	284	264	0.0264	198	0.0198	30	0.0030	
00-199-036	1388 294	16	45	100	187	0.0187	97	0.0097	17	0.0017	
00-199-037	1388 276	4	55	196	17	0.0017	96	0.0096	17	0.0017	
00-199-038	1388 276	52	100	756	319	0.0319	237	0.0237	32	0.0032	
00-199-039	1388 276	52	190	1290	282	0.0282	322	0.0322	26	0.0026	
00-199-040	1388 276	8	100	716	120	0.0120	170	0.0170	19	0.0019	
00-199-041	1388 276	6	30	244	114	0.0114	108	0.0108	25	0.0025	
00-199-042	1388 294	2	25	160	30	0.0030	67	0.0067	11	0.0011	
00-199-043	1388 294	< 2	35	126	15	0.0015	70	0.0070	12	0.0012	
00-199-044	1388 276	< 2	35	140	12	0.0012	71	0.0071	10	0.0010	
00-199-045	1388 276	< 2	40	280	14	0.0014	75	0.0075	10	0.0010	
00-199-046	1388 276	< 2	30	160	49	0.0049	74	0.0074	16	0.0016	
00-199-047	1388 276	< 2	30	252	28	0.0028	88	0.0088	14	0.0014	
00-199-048	1388 276	4	15	140	74	0.0074	89	0.0089	15	0.0015	
00-199-049	1388 276	< 2	30	172	41	0.0041	86	0.0086	16	0.0016	
00-199-050	1388 276	< 2	25	146	16	0.0016	83	0.0083	15	0.0015	
00-199-051	1388 276	< 2	15	94	18	0.0018	89	0.0089	14	0.0014	
00-199-052	1388 276	< 2	15	112	15	0.0015	90	0.0090	15	0.0015	
00-199-053	1388 276	< 2	15	98	17	0.0017	90	0.0090	13	0.0013	
00-199-054	1388 276	< 2	10	116	18	0.0018	100	0.0100	15	0.0015	
00-199-055	1388 276	< 2	10	100	62	0.0062	86	0.0086	14	0.0014	
00-199-056	1388 294	46	115	668	863	0.0863	729	0.0729	94	0.0094	
00-199-057	1388 294	8	45	966	93	0.0093	111	0.0111	16	0.0016	
00-199-058	1388 294	16	65	546	405	0.0405	348	0.0348	46	0.0046	
00-199-059	1388 276	12	90	632	59	0.0059	123	0.0123	13	0.0013	
00-199-060	1388 276	< 2	35	138	17	0.0017	76	0.0076	11	0.0011	
00-199-061	1388 276	< 2	150	1130	18	0.0018	105	0.0105	15	0.0015	
00-199-062	1388 294	22	20	198	209	0.0209	82	0.0082	31	0.0031	
00-199-063	1388 294	22	< 5	66	333	0.0333	170	0.0170	39	0.0039	
00-199-064	1388 294	< 2	15	158	18	0.0018	91	0.0091	16	0.0016	
00-199-065	1388 276	2	40	404	47	0.0047	95	0.0095	12	0.0012	
00-199-066	1388 276	< 2	< 5	34	61	0.0061	57	0.0057	13	0.0013	
00-199-067	1388 276	< 2	15	120	9	0.0009	85	0.0085	14	0.0014	
00-199-068	1388 276	< 2	25	122	16	0.0016	80	0.0080	14	0.0014	
00-199-069	1388 276	< 2	25	146	37	0.0037	87	0.0087	15	0.0015	
00-199-070	1388 276	< 2	20	182	34	0.0034	127	0.0127	19	0.0019	

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-199  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 27-JUN-2000  
 Invoice No. :10020856  
 P.O. Number :  
 Account :MZI

## CERTIFICATE OF ANALYSIS

## A0020856

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-199-071	1388 276	6	10	104	116	0.0116	93	0.0093	23	0.0023
00-199-072	1388 276	< 2	35	386	5	0.0005	109	0.0109	17	0.0017
00-199-073	1388 276	24	20	208	726	0.0726	126	0.0126	46	0.0046
00-199-074	1388 276	< 2	35	150	19	0.0019	114	0.0114	13	0.0013
00-199-075	1388 276	< 2	25	164	13	0.0013	103	0.0103	16	0.0016
199-STA-170	2143202	290	285	3150	1430	0.1430	956	0.0956	40	0.0040

CERTIFICATION: \_\_\_\_\_



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020375

Comments: ATTN: MOE LAVIGNE

CERTIFICATE

A0020375

(MZI) - LAC DES ILES MINES LTD.

Project: 00-201  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 21-JUN-2000.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	82	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
226	1	0-3 Kg crush and split
294	11	4-7 Kg crush and split
276	70	8-12 Kg crush and split
3202	83	Rock - save entire reject
238	83	Nitric-aqua-regia digestion

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2	83	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	83	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	83	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	83	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	83	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	83	Co %: calculation from Co ppm	AAS	0.0001	10.000
975	83	Au ppb: FA ICP package	FA-ICP	2	10000
976	83	Pt ppb: FA ICP package	FA-ICP	5	10000
977	83	Pd ppb: FA ICP package	FA-ICP	2	10000



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P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-201  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 20-JUN-2000  
 Invoice No. : 10020284  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020284

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-201-001	1388 294	94	100	356	305	0.0305	208	0.0208	21	0.0021
00-201-002	1388 276	78	120	420	254	0.0254	280	0.0280	20	0.0020
00-201-003	1388 276	356	235	180	958	0.0958	797	0.0797	33	0.0033
00-201-004	1388 276	80	80	182	302	0.0302	245	0.0245	19	0.0019
00-201-005	1388 276	270	120	90	732	0.0732	568	0.0568	22	0.0022
00-201-006	1388 276	740	350	174	2610	0.2610	2070	0.2070	54	0.0054
00-201-007	1388 276	474	115	140	1285	0.1285	949	0.0949	31	0.0031
00-201-008	1388 276	476	130	144	1930	0.1930	1330	0.1330	53	0.0053
00-201-009	1388 276	108	40	36	570	0.0570	410	0.0410	25	0.0025
00-201-010	1388 294	24	< 5	10	197	0.0197	195	0.0195	21	0.0021
00-201-011	1388 294	34	10	14	268	0.0268	229	0.0229	17	0.0017
00-201-012	1388 294	66	15	24	205	0.0205	201	0.0201	21	0.0021
00-201-013	1388 294	6	< 5	4	41	0.0041	97	0.0097	17	0.0017
00-201-014	1388 294	262	125	216	438	0.0438	375	0.0375	21	0.0021
00-201-015	1388 294	186	65	86	313	0.0313	237	0.0237	14	0.0014
00-201-016	1388 294	234	100	146	370	0.0370	328	0.0328	16	0.0016
00-201-017	1388 294	200	145	536	303	0.0303	311	0.0311	24	0.0024
00-201-018	1388 294	80	155	1690	465	0.0465	362	0.0362	39	0.0039
00-201-019	1388 294	16	65	1075	57	0.0057	97	0.0097	14	0.0014
00-201-020	1388 294	144	70	246	142	0.0142	169	0.0169	12	0.0012
00-201-021	1388 294	12	50	378	60	0.0060	80	0.0080	12	0.0012
00-201-022	1388 294	8	25	236	86	0.0086	95	0.0095	19	0.0019
00-201-023	1388 294	4	20	72	62	0.0062	90	0.0090	18	0.0018
00-201-024	1388 294	18	80	1385	54	0.0054	145	0.0145	19	0.0019
00-201-025	1388 294	< 2	35	282	18	0.0018	92	0.0092	13	0.0013
00-201-026	1388 294	26	155	1980	128	0.0128	254	0.0254	17	0.0017
00-201-027	1388 294	38	50	238	236	0.0236	205	0.0205	20	0.0020
00-201-028	1388 294	478	165	206	1030	0.1030	962	0.0962	33	0.0033
00-201-029	1388 294	744	215	532	1465	0.1465	1475	0.1475	37	0.0037
00-201-030	1388 294	748	240	704	1550	0.1550	1770	0.1770	32	0.0032
00-201-031	1388 294	626	165	510	1450	0.1450	1640	0.1640	31	0.0031
00-201-032	1388 294	754	265	952	1730	0.1730	1985	0.1985	38	0.0038
00-201-033	1388 294	432	120	438	682	0.0682	609	0.0609	31	0.0031
00-201-034	1388 294	1105	400	1610	2200	0.2200	2420	0.2420	45	0.0045
00-201-035	1388 294	392	120	238	1160	0.1160	1130	0.1130	29	0.0029
00-201-036	1388 294	268	160	336	816	0.0816	1005	0.1005	32	0.0032
00-201-037	1388 294	232	90	210	675	0.0675	498	0.0498	23	0.0023
00-201-038	1388 294	160	60	126	435	0.0435	409	0.0409	23	0.0023
00-201-039	1388 294	660	140	244	1770	0.1770	1505	0.1505	40	0.0040
00-201-040	1388 294	606	145	244	2250	0.2250	1825	0.1825	45	0.0045

CERTIFICATION: \_\_\_\_\_



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 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-201  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 20-JUN-2000  
 Invoice No. : I0020284  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020284

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-201-041	1388 294	480	150	376	2530	0.2530	2050	0.2050	57	0.0057
00-201-042	1388 294	168	50	166	1140	0.1140	375	0.0375	42	0.0042
00-201-043	1388 294	272	70	120	1675	0.1675	1180	0.1180	38	0.0038
00-201-044	1388 294	184	80	162	1065	0.1065	1030	0.1030	34	0.0034
00-201-045	1388 276	510	130	194	1945	0.1945	1460	0.1460	38	0.0038
00-201-046	1388 276	698	185	246	2250	0.2250	1990	0.1990	49	0.0049
00-201-047	1388 276	154	25	52	1155	0.1155	848	0.0848	24	0.0024
00-201-048	1388 276	256	95	206	1580	0.1580	1340	0.1340	39	0.0039
201-STA-157	2143202	274	290	3170	1240	0.1240	1155	0.1155	42	0.0042

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Project : 00-201  
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Page Number : 1  
 Total Pages : 3  
 Certificate Date: 21-JUN-2000  
 Invoice No. : I0020375  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020375

SAMPLE	PREP CODE	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	Au ppb ICP	Pt ppb ICP	Pd ppb ICP
00-201-049	1388 276	1610	0.1610	1440	0.1440	45	0.0045	342	135	344
00-201-050	1388 276	1420	0.1420	1195	0.1195	40	0.0040	236	75	324
00-201-051	1388 276	578	0.0578	1280	0.1280	43	0.0043	132	135	468
00-201-052	1388 276	1725	0.1725	1285	0.1285	41	0.0041	338	125	280
00-201-053	1388 276	1345	0.1345	1030	0.1030	41	0.0041	188	75	188
00-201-054	1388 276	1750	0.1750	1230	0.1230	42	0.0042	196	75	268
00-201-055	1388 276	1945	0.1945	1510	0.1510	56	0.0056	296	65	168
00-201-056	1388 294	1810	0.1810	1805	0.1805	68	0.0068	302	65	248
00-201-057	1388 294	3720	0.3720	3060	0.3060	107	0.0107	398	140	256
00-201-058	1388 226	209	0.0209	111	0.0111	43	0.0043	254	< 5	10
00-201-059	1388 294	2840	0.2840	2420	0.2420	77	0.0077	708	185	336
00-201-060	1388 276	2700	0.2700	2170	0.2170	51	0.0051	714	180	374
00-201-061	1388 294	1380	0.1380	1455	0.1455	41	0.0041	308	75	162
00-201-062	1388 276	1345	0.1345	1150	0.1150	51	0.0051	340	100	242
00-201-063	1388 276	1430	0.1430	1045	0.1045	35	0.0035	270	70	140
00-201-064	1388 276	1815	0.1815	1375	0.1375	42	0.0042	408	75	168
00-201-065	1388 276	1915	0.1915	1385	0.1385	34	0.0034	280	65	154
00-201-066	1388 276	2320	0.2320	1785	0.1785	44	0.0044	520	105	208
00-201-067	1388 276	2200	0.2200	1985	0.1985	60	0.0060	462	135	260
00-201-068	1388 294	1560	0.1560	1235	0.1235	49	0.0049	250	50	108
00-201-069	1388 294	1300	0.1300	965	0.0965	45	0.0045	166	25	82
00-201-070	1388 294	2290	0.2290	1995	0.1995	69	0.0069	638	200	514
00-201-071	1388 294	1535	0.1535	1385	0.1385	50	0.0050	790	235	602
00-201-072	1388 294	4140	0.4140	3680	0.3680	75	0.0075	1260	305	616
00-201-073	1388 294	4220	0.4220	4270	0.4270	82	0.0082	1020	360	988
00-201-074	1388 276	2040	0.2040	1595	0.1595	42	0.0042	896	250	554
00-201-075	1388 276	371	0.0371	523	0.0523	25	0.0025	84	35	92
00-201-077	1388 276	394	0.0394	440	0.0440	27	0.0027	176	15	46
00-201-078	1388 276	1340	0.1340	1005	0.1005	29	0.0029	490	95	214
00-201-079	1388 276	2610	0.2610	2110	0.2110	45	0.0045	1010	275	536
00-201-080	1388 276	1485	0.1485	1460	0.1460	41	0.0041	572	180	404
00-201-081	1388 276	1585	0.1585	1165	0.1165	28	0.0028	880	240	412
00-201-082	1388 276	2380	0.2380	2370	0.2370	49	0.0049	950	330	498
00-201-083	1388 276	2410	0.2410	2590	0.2590	47	0.0047	1430	395	916
00-201-084	1388 276	2140	0.2140	2260	0.2260	43	0.0043	1200	410	1585
00-201-085	1388 276	1435	0.1435	1230	0.1230	31	0.0031	890	365	1190
00-201-086	1388 276	264	0.0264	261	0.0261	12	0.0012	288	220	516
00-201-087	1388 276	264	0.0264	271	0.0271	13	0.0013	346	220	482
00-201-088	1388 276	96	0.0096	204	0.0204	14	0.0014	104	195	2600
00-201-089	1388 276	215	0.0215	232	0.0232	15	0.0015	126	175	2270

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

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 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-201  
 Comments: ATTN: MOE LAVIGNE

Page Number : 2  
 Total Pages : 3  
 Certificate Date: 21-JUN-2000  
 Invoice No. : I0020375  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020375

SAMPLE	PREP CODE	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	Au ppb ICP	Pt ppb ICP	Pd ppb ICP
00-201-090	1388 276	815	0.0815	852	0.0852	25	0.0025	506	460	7720
00-201-091	1388 276	56	0.0056	102	0.0102	12	0.0012	28	80	1040
00-201-092	1388 276	47	0.0047	103	0.0103	13	0.0013	16	45	624
00-201-093	1388 276	42	0.0042	102	0.0102	12	0.0012	14	60	1010
00-201-094	1388 276	100	0.0100	108	0.0108	13	0.0013	24	65	1485
00-201-095	1388 276	278	0.0278	241	0.0241	16	0.0016	120	80	1060
00-201-096	1388 276	1245	0.1245	940	0.0940	39	0.0039	354	130	456
00-201-097	1388 276	2580	0.2580	2080	0.2080	52	0.0052	642	160	352
00-201-098	1388 276	3200	0.3200	1895	0.1895	45	0.0045	662	140	280
00-201-099	1388 276	2170	0.2170	1605	0.1605	39	0.0039	654	145	286
00-201-100	1388 276	1255	0.1255	1035	0.1035	36	0.0036	306	70	140
00-201-101	1388 276	1715	0.1715	1505	0.1505	44	0.0044	392	130	346
00-201-102	1388 276	1475	0.1475	1035	0.1035	33	0.0033	394	90	236
00-201-103	1388 276	1415	0.1415	1135	0.1135	37	0.0037	304	120	436
00-201-104	1388 276	2930	0.2930	2610	0.2610	53	0.0053	920	200	440
00-201-105	1388 276	2120	0.2120	1640	0.1640	33	0.0033	714	190	534
00-201-106	1388 276	2350	0.2350	2060	0.2060	47	0.0047	540	175	698
00-201-107	1388 276	2790	0.2790	2640	0.2640	64	0.0064	596	175	562
00-201-108	1388 276	1125	0.1125	721	0.0721	30	0.0030	188	100	338
00-201-109	1388 276	2920	0.2920	2210	0.2210	50	0.0050	488	145	322
00-201-110	1388 294	1085	0.1085	791	0.0791	33	0.0033	256	85	278
00-201-111	1388 276	458	0.0458	402	0.0402	19	0.0019	138	65	110
00-201-112	1388 276	1915	0.1915	1500	0.1500	42	0.0042	456	190	474
00-201-113	1388 276	1810	0.1810	1015	0.1015	38	0.0038	416	105	194
00-201-114	1388 276	2500	0.2500	2130	0.2130	65	0.0065	468	140	292
00-201-115	1388 276	1195	0.1195	1215	0.1215	49	0.0049	368	105	316
00-201-116	1388 276	2600	0.2600	1980	0.1980	61	0.0061	810	200	500
00-201-117	1388 276	1615	0.1615	1260	0.1260	38	0.0038	780	185	390
00-201-118	1388 276	1640	0.1640	1255	0.1255	30	0.0030	670	155	304
00-201-119	1388 276	2350	0.2350	1980	0.1980	52	0.0052	780	145	292
00-201-120	1388 276	967	0.0967	731	0.0731	24	0.0024	272	90	326
00-201-121	1388 276	1800	0.1800	1290	0.1290	35	0.0035	636	225	560
00-201-122	1388 276	2030	0.2030	1485	0.1485	36	0.0036	722	180	346
00-201-123	1388 276	1045	0.1045	952	0.0952	34	0.0034	410	95	154
00-201-124	1388 276	441	0.0441	446	0.0446	26	0.0026	254	85	216
00-201-125	1388 276	2140	0.2140	1855	0.1855	53	0.0053	1030	200	420
00-201-126	1388 276	2250	0.2250	1985	0.1985	61	0.0061	492	160	362
00-201-127	1388 276	804	0.0804	1080	0.1080	44	0.0044	174	130	360
00-201-128	1388 276	1010	0.1010	1080	0.1080	42	0.0042	150	120	280
00-201-129	1388 276	3180	0.3180	2910	0.2910	78	0.0078	1340	375	660

CERTIFICATION: \_\_\_\_\_



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-201  
 Comments: ATTN: MOE LAVIGNE

Page Number :3  
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 Certificate Date: 21-JUN-2000  
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## CERTIFICATE OF ANALYSIS

A0020375

SAMPLE	PREP CODE	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.	Au ppb ICP	Pt ppb ICP	Pd ppb ICP
00-201-130	1388 276	844	0.0844	2180	0.2180	68	0.0068	260	390	812
00-201-131	1388 276	970	0.0970	862	0.0862	35	0.0035	304	135	386
201-STA-159	2143202	1230	0.1230	1165	0.1165	43	0.0043	294	335	3270

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

A0020493

Comments: ATTN: MOE LAVIGNE

**CERTIFICATE**                      **A0020493**

(MZI) - LAC DES ILES MINES LTD.

Project: 00-202  
 P.O. #:

Samples submitted to our lab in Thunder Bay, ON.  
 This report was printed on 20-JUN-2000.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
1388	36	Ring 600 g to approx -150 mesh
214	1	Rcvd as pulp; mesh size checked
294	3	4-7 Kg crush and split
276	33	8-12 Kg crush and split
3202	37	Rock - save entire reject
238	37	Nitric-aqua-regia digestion

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	37	Au ppb: FA ICP package	FA-ICP	2	10000
976	37	Pt ppb: FA ICP package	FA-ICP	5	10000
977	37	Pd ppb: FA ICP package	FA-ICP	2	10000
2	37	Cu ppm: HNO3-aqua regia digest	AAS	1	10000
3000	37	Cu %: calculation from Cu ppm	AAS	0.0001	10.000
8	37	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3003	37	Ni %: calculation from Ni ppm	AAS	0.0001	10.000
9	37	Co ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
3002	37	Co %: calculation from Co ppm	AAS	0.0001	10.000



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To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-202  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 20-JUN-2000  
 Invoice No. : I0020493  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020493

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-202-001	1388 276	14	120	1060	12	0.0012	88	0.0088	14	0.0014
00-202-002	1388 276	< 2	30	146	13	0.0013	76	0.0076	13	0.0013
00-202-003	1388 294	4	< 5	12	93	0.0093	97	0.0097	24	0.0024
00-202-004	1388 276	6	25	224	40	0.0040	82	0.0082	14	0.0014
00-202-005	1388 276	4	55	992	18	0.0018	94	0.0094	13	0.0013
00-202-006	1388 276	2	25	140	42	0.0042	102	0.0102	17	0.0017
00-202-007	1388 276	14	80	1660	45	0.0045	99	0.0099	15	0.0015
00-202-008	1388 276	2	25	120	29	0.0029	89	0.0089	15	0.0015
00-202-009	1388 276	6	65	476	27	0.0027	121	0.0121	16	0.0016
00-202-010	1388 276	8	60	382	35	0.0035	124	0.0124	17	0.0017
00-202-011	1388 276	6	20	120	121	0.0121	106	0.0106	22	0.0022
00-202-012	1388 276	< 2	30	116	19	0.0019	84	0.0084	13	0.0013
00-202-013	1388 276	< 2	35	114	10	0.0010	85	0.0085	13	0.0013
00-202-014	1388 276	< 2	< 5	14	57	0.0057	37	0.0037	27	0.0027
00-202-015	1388 276	6	85	702	44	0.0044	212	0.0212	18	0.0018
00-202-016	1388 276	16	70	622	92	0.0092	136	0.0136	19	0.0019
00-202-017	1388 276	< 2	25	116	22	0.0022	78	0.0078	12	0.0012
00-202-018	1388 276	4	30	134	38	0.0038	86	0.0086	15	0.0015
00-202-019	1388 294	2	35	160	24	0.0024	78	0.0078	13	0.0013
00-202-020	1388 276	18	55	436	123	0.0123	127	0.0127	20	0.0020
00-202-021	1388 276	26	40	268	172	0.0172	140	0.0140	21	0.0021
00-202-022	1388 276	6	30	126	11	0.0011	82	0.0082	13	0.0013
00-202-023	1388 276	20	100	592	95	0.0095	149	0.0149	16	0.0016
00-202-024	1388 276	10	35	178	51	0.0051	80	0.0080	12	0.0012
00-202-025	1388 276	4	35	144	27	0.0027	82	0.0082	12	0.0012
00-202-026	1388 276	< 2	40	174	10	0.0010	95	0.0095	13	0.0013
00-202-027	1388 276	14	65	234	88	0.0088	119	0.0119	17	0.0017
00-202-028	1388 276	6	40	162	13	0.0013	81	0.0081	12	0.0012
00-202-029	1388 276	54	180	812	218	0.0218	181	0.0181	24	0.0024
00-202-030	1388 276	56	90	306	201	0.0201	179	0.0179	28	0.0028
00-202-031	1388 276	22	15	110	109	0.0109	106	0.0106	16	0.0016
00-202-032	1388 276	20	25	170	97	0.0097	109	0.0109	17	0.0017
00-202-033	1388 276	42	105	706	193	0.0193	145	0.0145	20	0.0020
00-202-034	1388 276	32	85	666	181	0.0181	142	0.0142	20	0.0020
00-202-035	1388 276	6	45	348	33	0.0033	98	0.0098	14	0.0014
00-202-036	1388 294	30	55	340	217	0.0217	155	0.0155	31	0.0031
202-S7A-161	2143202	304	300	3640	1295	0.1295	1175	0.1175	43	0.0043

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-202  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 27-JUN-2000  
 Invoice No. : I0020624  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS A0020624

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-202-037	1388 294	14	90	716	87	0.0087	167	0.0167	27	0.0027
00-202-038	1388 294	4	< 5	< 2	125	0.0125	73	0.0073	32	0.0032
00-202-039	1388 294	2	5	86	62	0.0062	46	0.0046	27	0.0027
00-202-040	1388 294	2	< 5	88	61	0.0061	77	0.0077	15	0.0015
00-202-041	1388 294	< 2	35	150	22	0.0022	102	0.0102	17	0.0017
00-202-042	1388 276	8	85	446	82	0.0082	138	0.0138	20	0.0020
00-202-043	1388 276	< 2	25	100	24	0.0024	75	0.0075	14	0.0014
00-202-044	1388 276	10	65	354	50	0.0050	114	0.0114	15	0.0015
00-202-045	1388 276	< 2	10	62	67	0.0067	71	0.0071	24	0.0024
00-202-046	1388 276	12	70	602	72	0.0072	96	0.0096	14	0.0014
00-202-047	1388 276	8	40	136	47	0.0047	69	0.0069	10	0.0010
00-202-048	1388 276	2	30	170	17	0.0017	86	0.0086	14	0.0014
00-202-049	1388 276	4	25	172	36	0.0036	83	0.0083	14	0.0014
00-202-050	1388 276	8	75	580	56	0.0056	117	0.0117	16	0.0016
00-202-051	1388 276	< 2	35	152	11	0.0011	82	0.0082	11	0.0011
00-202-052	1388 276	< 2	25	104	30	0.0030	60	0.0060	10	0.0010
00-202-053	1388 294	< 2	25	130	57	0.0057	60	0.0060	8	0.0008
00-202-054	1388 294	6	< 5	< 2	231	0.0231	55	0.0055	21	0.0021
00-202-055	1388 294	14	70	432	115	0.0115	107	0.0107	16	0.0016
00-202-056	1388 294	14	45	242	116	0.0116	92	0.0092	16	0.0016
00-202-057	1388 276	< 2	20	126	16	0.0016	67	0.0067	11	0.0011
00-202-058	1388 276	46	125	2550	31	0.0031	110	0.0110	15	0.0015
00-202-059	1388 276	24	120	1335	64	0.0064	121	0.0121	17	0.0017
00-202-060	1388 276	24	85	644	112	0.0112	116	0.0116	15	0.0015
00-202-061	1388 276	4	20	160	64	0.0064	91	0.0091	17	0.0017
00-202-062	1388 276	< 2	25	154	17	0.0017	91	0.0091	14	0.0014
00-202-063	1388 276	12	50	296	99	0.0099	96	0.0096	13	0.0013
00-202-064	1388 276	< 2	20	116	18	0.0018	66	0.0066	11	0.0011
00-202-065	1388 276	< 2	25	134	29	0.0029	72	0.0072	12	0.0012
00-202-066	1388 276	< 2	30	154	37	0.0037	78	0.0078	12	0.0012
00-202-067	1388 276	24	105	902	169	0.0169	132	0.0132	19	0.0019
00-202-068	1388 276	< 2	15	94	28	0.0028	84	0.0084	12	0.0012
00-202-069	1388 276	6	20	96	43	0.0043	81	0.0081	13	0.0013
00-202-070	1388 276	20	80	316	18	0.0018	76	0.0076	12	0.0012
00-202-071	1388 276	22	105	792	82	0.0082	135	0.0135	18	0.0018
00-202-072	1388 276	6	20	148	59	0.0059	77	0.0077	12	0.0012
00-202-073	1388 276	< 2	20	116	49	0.0049	68	0.0068	12	0.0012
00-202-074	1388 276	< 2	25	112	15	0.0015	63	0.0063	8	0.0008
00-202-075	1388 276	< 2	25	128	23	0.0023	76	0.0076	10	0.0010
00-202-076	1388 276	< 2	20	104	20	0.0020	75	0.0075	10	0.0010

CERTIFICATION: 



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project : 00-202  
 Comments: ATTN: MOE LAVIGNE

Page Number :2  
 Total Pages :2  
 Certificate Date: 27-JUN-2000  
 Invoice No. : I0020624  
 P.O. Number :  
 Account : MZI

**CERTIFICATE OF ANALYSIS** **A0020624**

SAMPLE	PREP CODE		Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-202-077	1388	276	< 2	20	94	15	0.0015	72	0.0072	10	0.0010
00-202-078	1388	276	< 2	20	100	10	0.0010	87	0.0087	11	0.0011
00-202-079	1388	276	< 2	25	100	13	0.0013	88	0.0088	12	0.0012
00-202-080	1388	276	10	25	118	94	0.0094	108	0.0108	17	0.0017
00-202-081	1388	276	< 2	25	110	19	0.0019	102	0.0102	15	0.0015
<b>202-STA-164</b>	<b>214</b>	<b>238</b>	<b>278</b>	<b>315</b>	<b>3090</b>	<b>1315</b>	<b>0.1315</b>	<b>1200</b>	<b>0.1200</b>	<b>42</b>	<b>0.0042</b>

CERTIFICATION: \_\_\_\_\_



# ALS Chemex

Aurora Laboratory Services Ltd.  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 5175 Timberlea Blvd., Mississauga  
 Ontario, Canada L4W 2S3  
 PHONE: 905-624-2806 FAX: 905-624-6163

To: LAC DES ILES MINES LTD.

P.O. BOX 3386  
 THUNDER BAY, ON  
 P7B 5J9

Project: 00-202  
 Comments: ATTN: MOE LAVIGNE

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 26-JUN-2000  
 Invoice No. : I0020769  
 P.O. Number :  
 Account : MZI

## CERTIFICATE OF ANALYSIS

A0020769

SAMPLE	PREP CODE	Au ppb ICP	Pt ppb ICP	Pd ppb ICP	Cu ppm	Cu % calc.	Ni ppm	Ni % calc.	Co ppm	Co % calc.
00-202-082	1388 276	10	40	324	41	0.0041	95	0.0095	15	0.0015
00-202-083	1388 276	< 2	25	128	11	0.0011	91	0.0091	13	0.0013
00-202-084	1388 276	4	30	162	32	0.0032	90	0.0090	12	0.0012
00-202-085	1388 294	6	20	154	41	0.0041	118	0.0118	21	0.0021
00-202-086	1388 294	4	35	286	30	0.0030	131	0.0131	16	0.0016
00-202-087	1388 276	4	50	246	17	0.0017	104	0.0104	15	0.0015
00-202-088	1388 276	2	25	142	37	0.0037	98	0.0098	16	0.0016
00-202-089	1388 276	6	20	170	54	0.0054	91	0.0091	14	0.0014
00-202-090	1388 276	46	90	982	166	0.0166	155	0.0155	14	0.0014
00-202-091	1388 276	26	160	1990	108	0.0108	187	0.0187	15	0.0015
00-202-092	1388 276	14	120	1020	62	0.0062	137	0.0137	13	0.0013
00-202-093	1388 276	12	90	732	53	0.0053	107	0.0107	14	0.0014
00-202-094	1388 276	2	30	136	27	0.0027	90	0.0090	14	0.0014
00-202-095	1388 276	16	175	714	64	0.0064	97	0.0097	14	0.0014
00-202-096	1388 276	18	30	336	46	0.0046	82	0.0082	10	0.0010
00-202-097	1388 276	10	5	52	48	0.0048	75	0.0075	11	0.0011
00-202-098	1388 294	144	240	3030	376	0.0376	373	0.0373	23	0.0023
00-202-099	1388 294	8	60	356	35	0.0035	95	0.0095	11	0.0011
00-202-100	1388 276	38	60	450	133	0.0133	127	0.0127	19	0.0019
00-202-101	1388 276	24	45	430	82	0.0082	108	0.0108	16	0.0016
00-202-102	1388 276	10	40	330	41	0.0041	84	0.0084	11	0.0011
00-202-103	1388 276	10	70	560	11	0.0011	111	0.0111	14	0.0014
00-202-104	1388 276	< 2	20	78	6	0.0006	91	0.0091	13	0.0013
00-202-105	1388 294	< 2	5	22	4	0.0004	130	0.0130	17	0.0017
00-202-106	1388 294	< 2	25	102	5	0.0005	116	0.0116	16	0.0016
00-202-107	1388 276	< 2	30	118	6	0.0006	91	0.0091	14	0.0014
00-202-108	1388 276	< 2	25	110	23	0.0023	76	0.0076	11	0.0011
00-202-109	1388 276	< 2	25	134	22	0.0022	80	0.0080	13	0.0013
00-202-110	1388 276	< 2	35	128	18	0.0018	85	0.0085	12	0.0012
00-202-111	1388 294	< 2	5	40	43	0.0043	137	0.0137	21	0.0021
00-202-112	1388 276	4	25	96	18	0.0018	98	0.0098	16	0.0016
00-202-113	1388 276	4	35	244	22	0.0022	74	0.0074	12	0.0012
00-202-114	1388 276	8	25	172	37	0.0037	77	0.0077	11	0.0011
00-202-115	1388 276	6	40	192	32	0.0032	96	0.0096	17	0.0017
202-STA-166	2143202	266	265	3210	1380	0.1380	1115	0.1115	42	0.0042

CERTIFICATION: \_\_\_\_\_

## Work Report Summary

Transaction No: W0240.01980 Status: APPROVED (D)  
 Recording Date: 2002-MAY-07 Work Done from: 2000-MAY-11  
 Approval Date: 2002-AUG-05 to: 2000-JUN-28

Client(s):  
 217699 LAC DES ILES MINES LTD.

Survey Type(s):  
 ASSAY PDRILL

**Work Report Details:**

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
G 4000189	\$172,546	\$172,546	\$0	\$0	\$0	0	\$172,546	\$172,546	
G 4000192	\$366,659	\$366,659	\$0	\$0	\$0	0	\$366,659	\$366,659	
	\$539,205	\$539,205	\$0	\$0	\$0	\$0	\$539,205	\$539,205	

External Credits: \$0

Reserve:  
 \$539,205 Reserve of Work Report#: W0240.01980  


---

 \$539,205 Total Remaining

Status of claim is based on information currently on record.



52H04NE2012 2.23510 LAC DES ILES

900



Date: 2004-SEP-09

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

LAC DES ILES MINES LTD.  
710 NORAH CRES  
THUNDER BAY, ONTARIO  
P7C 4T8 CANADA

Tel: (888) 415-9845  
Fax: (877) 670-1555

**Submission Number:** 2.23510  
**Transaction Number(s):** W0240.01980

Dear Sir or Madam

**Subject: Deemed Approval of Assessment Work**

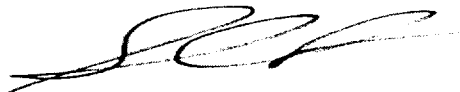
We have approved your Assessment Work Submission with the above noted Transaction Number(s) as per 6(7) of the Assessment Work Regulation. Only eligible assessment work is deemed approved for assessment work credit. The attached Work Report Summary indicates the results of the approval.

NOTE: The report has not been reviewed for technical deficiencies and reported expenses were not evaluated based on the Industry Standard.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@ndm.gov.on.ca) or by phone at (705) 670-5855.

Yours Sincerely,



Sheila Lessard  
Senior Manager(A), Mining Lands Section

**Cc:** Resident Geologist

Karen Kettles  
(Agent)

Lac Des Iles Mines Ltd.  
(Assessment Office)

✓Assessment File Library

Lac Des Iles Mines Ltd.  
(Claim Holder)



52H04NE2012 2.23510 LAC DES ILES

200

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES  
PROVINCIAL MINING RECORDER'S OFFICE

Mining Land Tenure Map

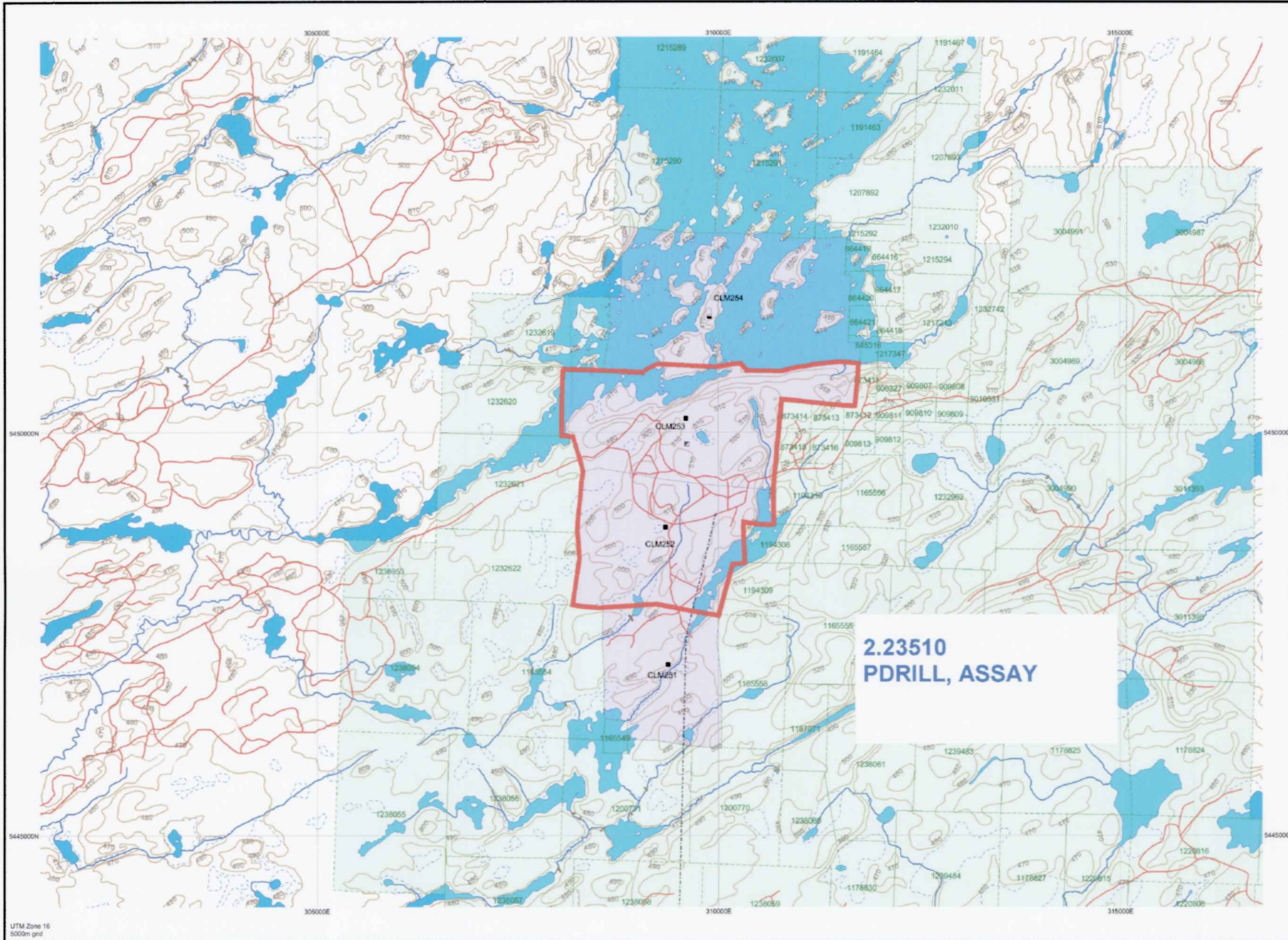
Date / Time of Issue: Thu Oct 21 10:55:24 EDT 2004

TOWNSHIP / AREA  
LAC DES ILES AREA

PLAN  
G-0739

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division: Thunder Bay  
Land Titles/Registry Division: THUNDER BAY  
Ministry of Natural Resources District: THUNDER BAY



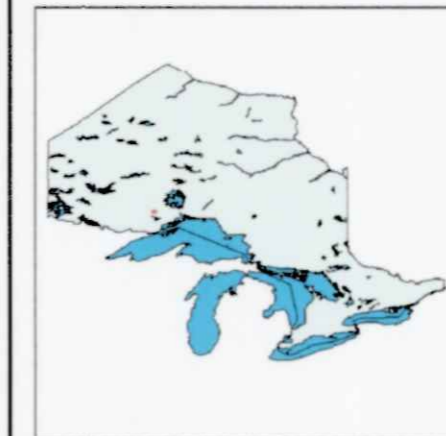
2.23510  
PDRILL, ASSAY

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shaft
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order In Council (Not open for staking)
  - Water Power Lease Agreement
- Mining Claim**
  - Mining Claim
  - Filed Only Mining Claims
- LAND TENURE WITHDRAWALS**
  - Areas Withdrawn from Disposition
  - Mining Acts Withdrawal Types**
    - Surface And Mining Rights Withdrawn
    - Surface Rights Only Withdrawn
    - Mining Rights Only Withdrawn
  - Order In Council Withdrawal Types**
    - Surface And Mining Rights Withdrawn
    - Surface Rights Only Withdrawn
    - Mining Rights Only Withdrawn
- IMPORTANT NOTICES**
  - IMPORTANT NOTICES



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

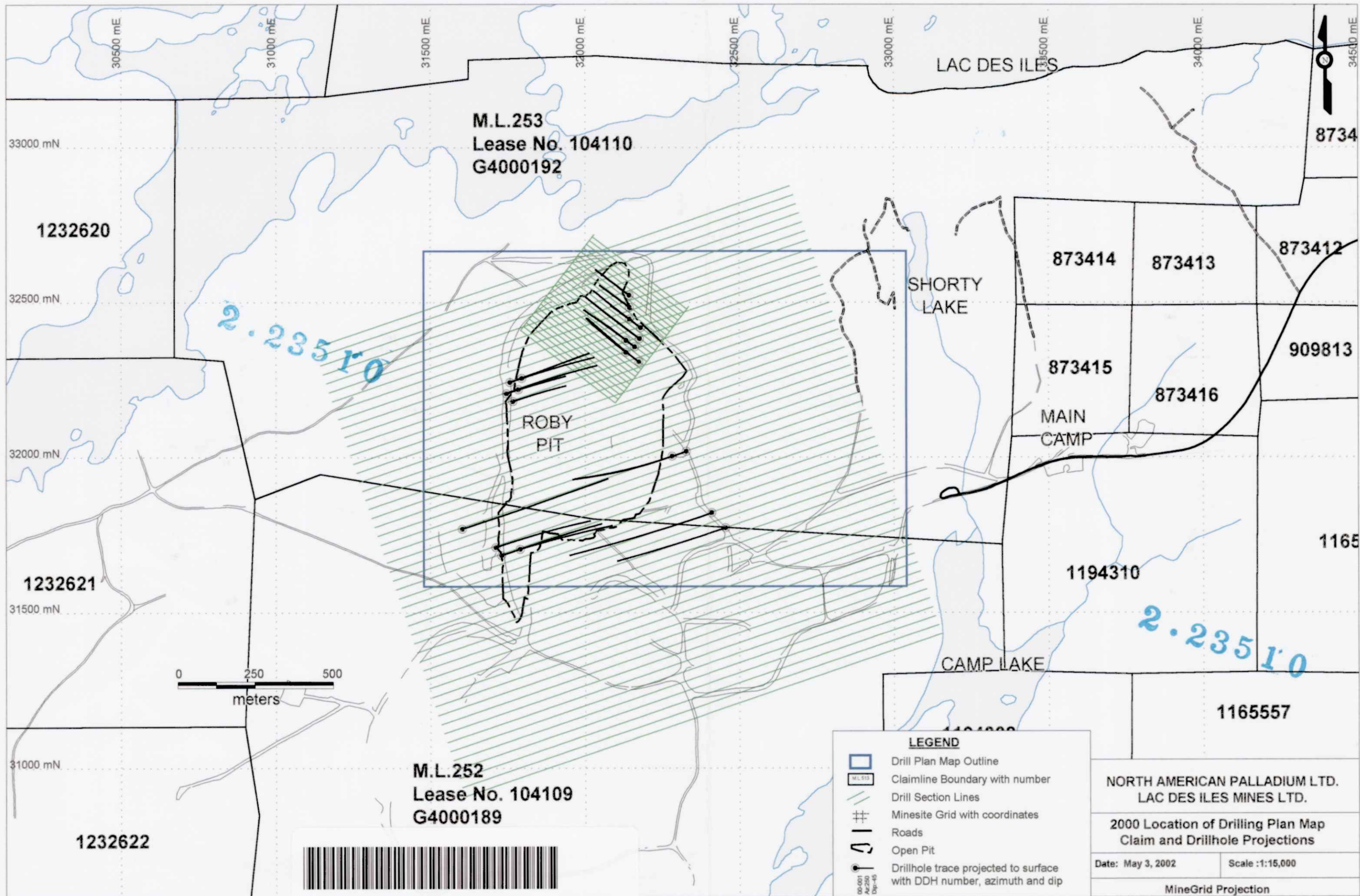
General Information and Limitations

Contact Information:  
Provincial Mining Recorders' Office  
Willet Green Miller Centre 933 Ramsey Lake Road  
Sudbury ON P3E 6B5  
Home Page: www.mndm.gov.on.ca/MNDMMINES/LANDS/misnmpg.htm

Toll Free  
Tel: 1 (888) 415-9845 ext 5790  
Fax: 1 (877) 670-1444

Map Datum: NAD 83  
Projection: UTM (6 degree)  
Topographic Data Source: Land Information Ontario  
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.



**M.L.253**  
**Lease No. 104110**  
**G4000192**

**M.L.252**  
**Lease No. 104109**  
**G4000189**

ROBY  
 PIT

LAC DES ILES

SHORTY  
 LAKE

MAIN  
 CAMP

CAMP LAKE

**LEGEND**

- Drill Plan Map Outline
- Claimline Boundary with number
- Drill Section Lines
- Minesite Grid with coordinates
- Roads
- Open Pit
- Drillhole trace projected to surface with DDH number, azimuth and dip

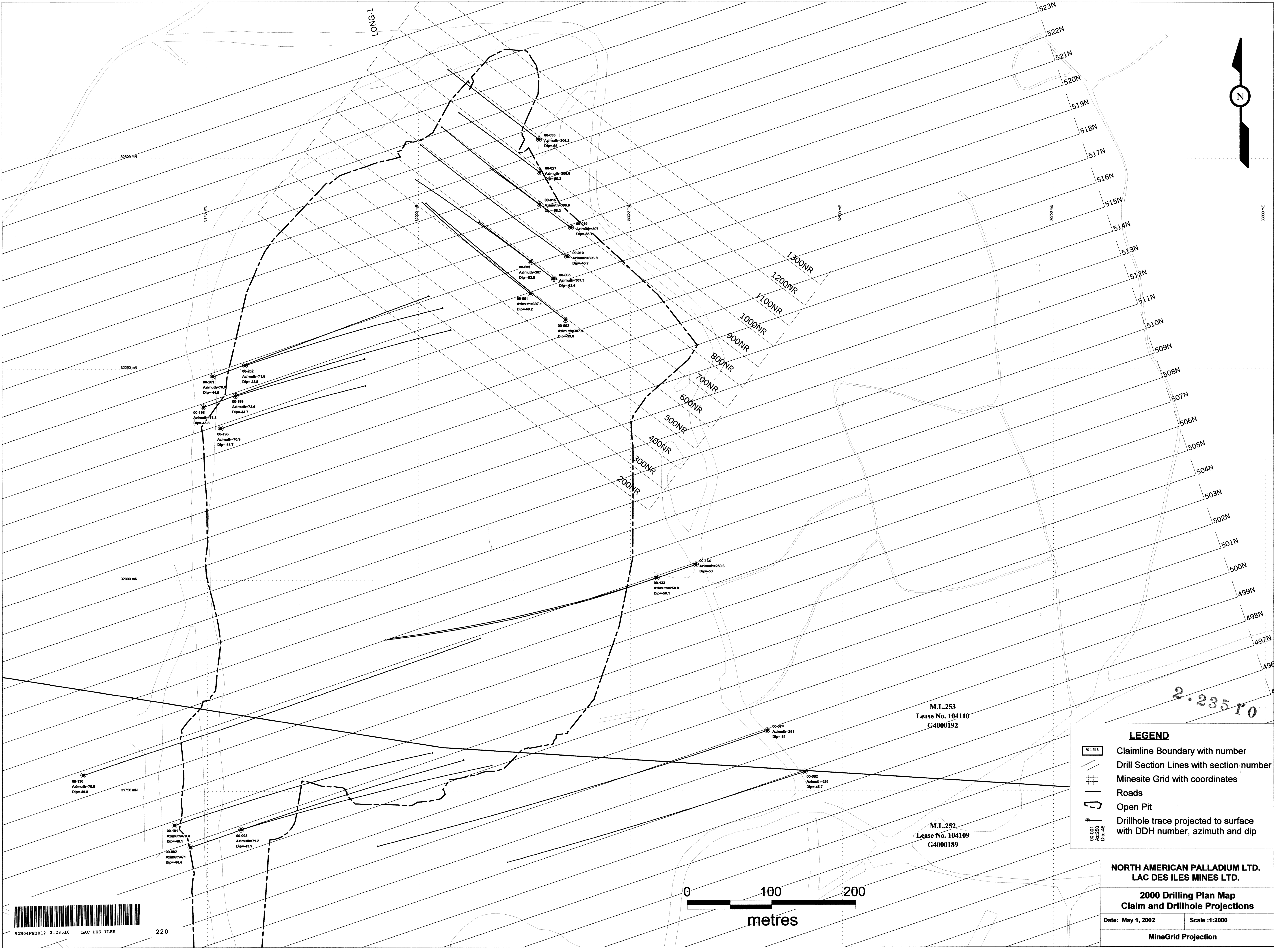
**NORTH AMERICAN PALLADIUM LTD.**  
**LAC DES ILES MINES LTD.**

**2000 Location of Drilling Plan Map Claim and Drillhole Projections**

Date: May 3, 2002      Scale :1:15,000

MineGrid Projection





**LEGEND**

- M.L.513 Claimline Boundary with number
- Drill Section Lines with section number
- Minesite Grid with coordinates
- Roads
- Open Pit
- Drillhole trace projected to surface with DDH number, azimuth and dip

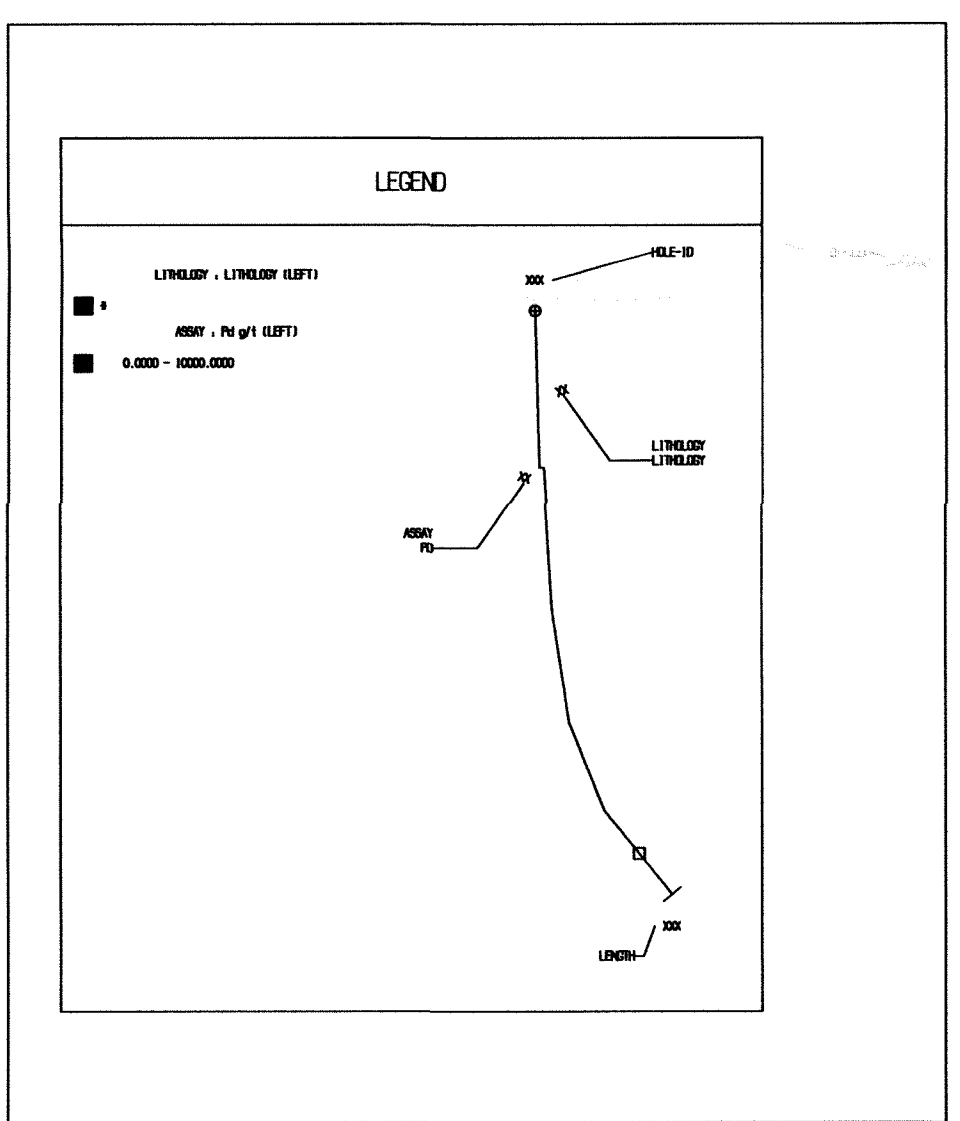
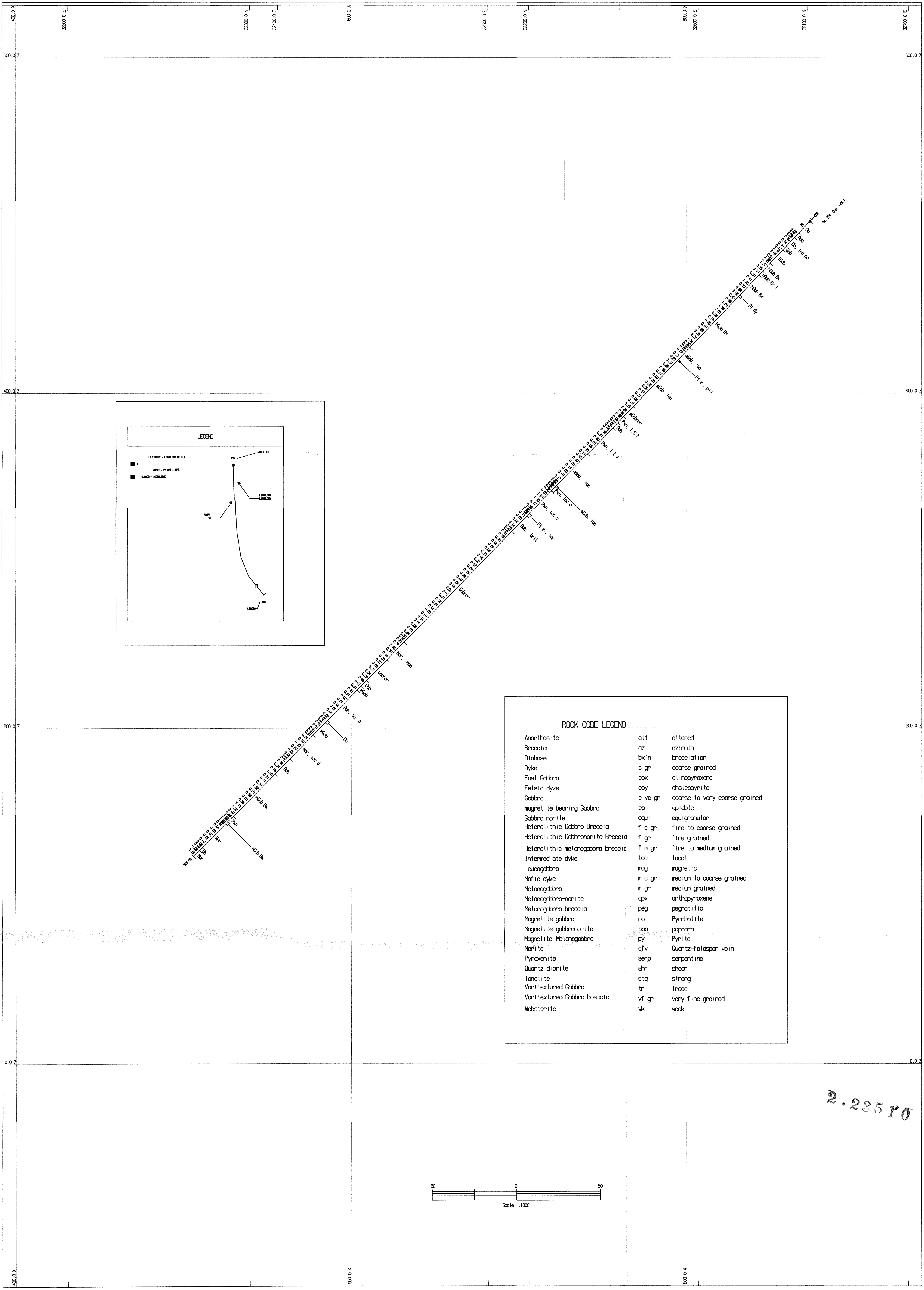
**NORTH AMERICAN PALLADIUM LTD.  
LAC DES ILES MINES LTD.**

**2000 Drilling Plan Map  
Claim and Drillhole Projections**

Date: May 1, 2002      Scale :1:2000

MineGrid Projection

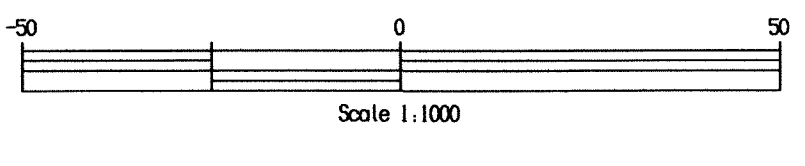




**ROCK CODE LEGEND**

Anorthosite	alt	altered
Breccia	az	azimuth
Diabase	bx'n	brecciation
Dyke	c gr	coarse grained
East Gabbro	cpx	clinopyroxene
Felsic dyke	cpy	chaldopyrite
Gabbro	c vc gr	coarse to very coarse grained
magnetite bearing Gabbro	ep	epidote
Gabbro-norite	equi	equigranular
Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
Heterolithic Gabbro-norite Breccia	f gr	fine grained
Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Intermediate dyke	loc	local
Leucogabbro	mag	magnetic
Mafic dyke	m c gr	medium to coarse grained
Melanogabbro	m gr	medium grained
Melanogabbro-norite	opx	orthopyroxene
Melanogabbro breccia	peg	pegmatitic
Magnetite gabbro	po	Pyrrhotite
Magnetite gabbro-norite	pop	popcorn
Magnetite Melanogabbro	py	Pyrite
Norite	qfv	Quartz-feldspar vein
Pyroxenite	serp	serpentine
Quartz diorite	shr	shear
Tonalite	stg	strong
Varitextured Gabbro	tr	trace
Varitextured Gabbro breccia	vf gr	very fine grained
Websterite	wk	weak

2.235 r0

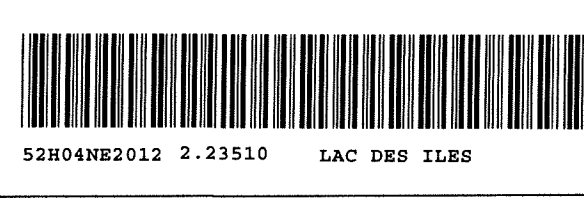


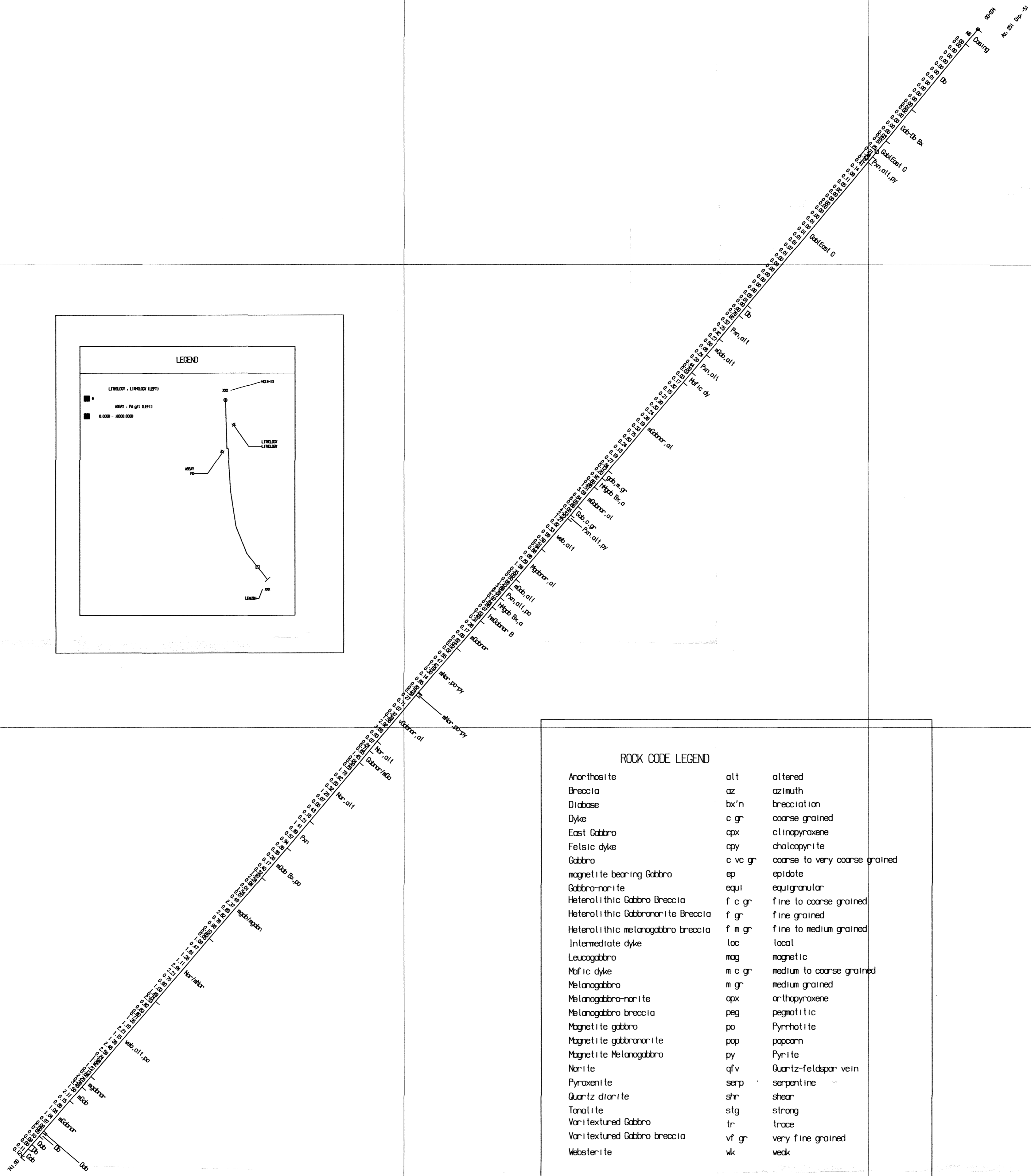
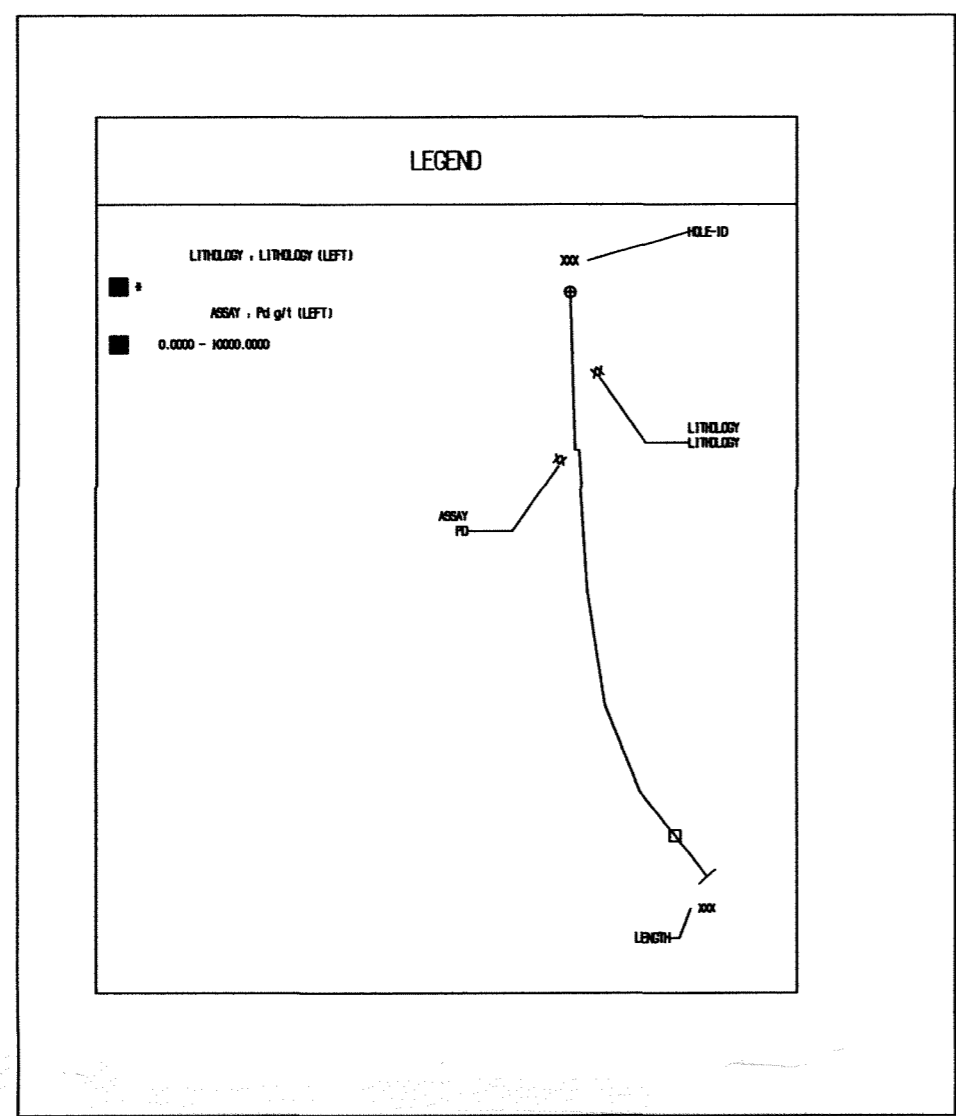
Thunder Bay Office  
P.O. Box 3386  
Thunder Bay, ON  
P7B 5J9

UNITS : METRES DATE: 02/05/01 TIME: 15:03:41  
DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

Section = 498 N  
2000 Drillholes - Lithology and Pd g/t  
Claim M.L. 252  
Looking North West

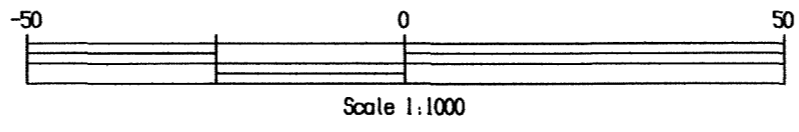




**ROCK CODE LEGEND**

Anorthosite	alt	altered
Breccia	az	azimuth
Diorite	bx'n	brecciation
Dyke	c gr	coarse grained
East Gabbro	apx	clinopyroxene
Felsic dyke	cpy	chalcopyrite
Gabbro	c vc gr	coarse to very coarse grained
magnetite bearing Gabbro	ep	epidote
Gabbro-nanite	equi	equigranular
Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
Heterolithic Gabbro-nanite Breccia	f gr	fine grained
Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Intermediate dyke	loc	local
Leucogabbro	mag	magnetic
Mafic dyke	m c gr	medium to coarse grained
Melanogabbro	m gr	medium grained
Melanogabbro-nanite	apx	orthopyroxene
Melanogabbro breccia	peg	pegmatitic
Magnetite gabbro	py	Pyrite
Magnetite gabbro-nanite	py	Pyrite
Magnetite Melanogabbro	py	Pyrite
Nanite	qfv	Quartz-feldspar vein
Pyroxenite	serp	serpentine
Quartz diorite	shr	shear
Tonalite	str	strong
Varitextured Gabbro	tr	trace
Varitextured Gabbro breccia	vf gr	very fine grained
Websterite	wk	weak

2.23510



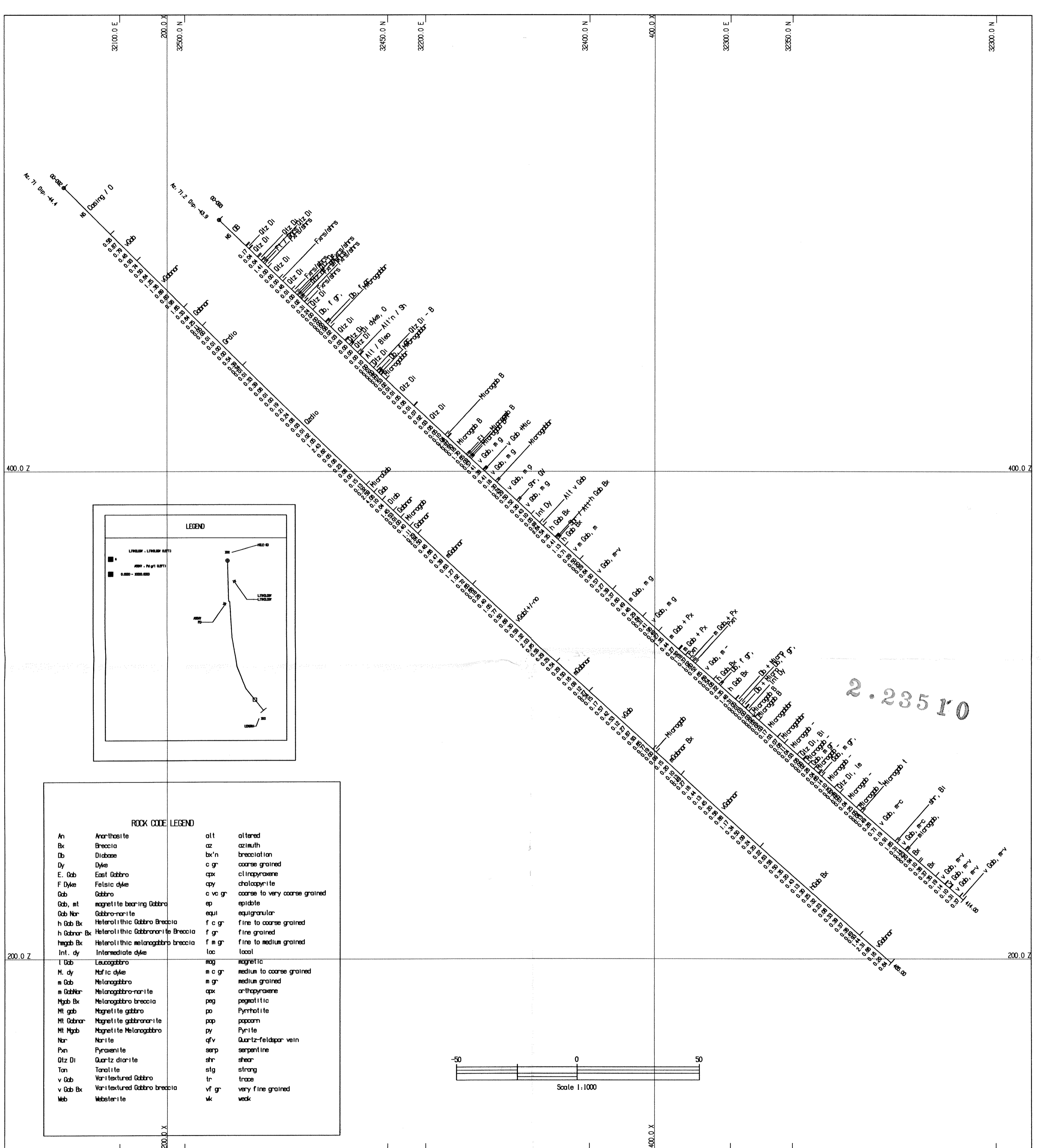
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 Thunder Bay, ON  
 P7B 5J9

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 DRAWN BY : EXPLORATION

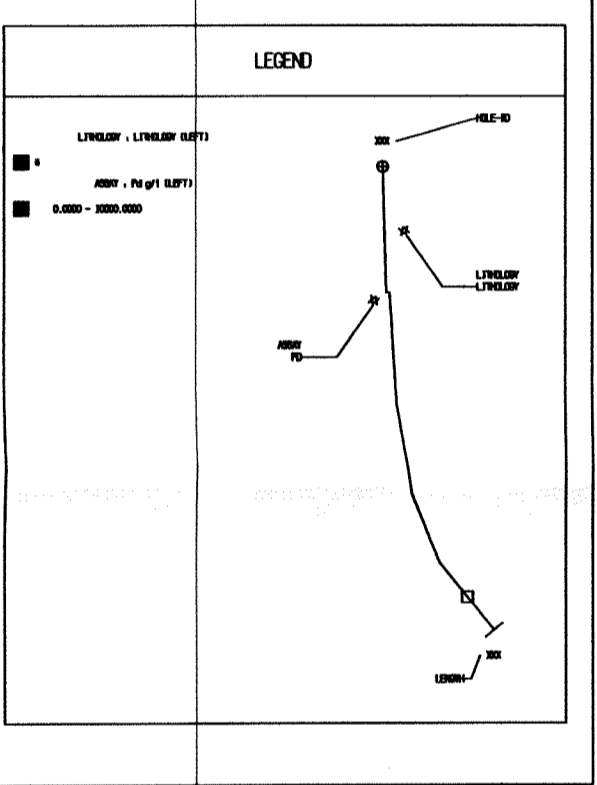
Lac des Iles Mines Ltd.

Section = 500 N  
 2000 Drillholes - Lithology and Pd g/t  
 Claim M.L. 253 & 252  
 Looking North West



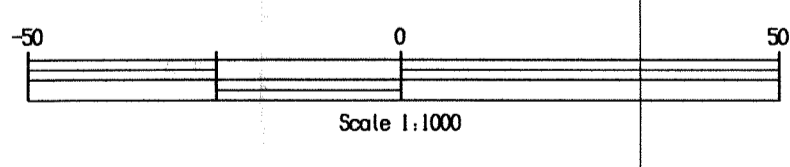


2.23510



**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Dabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	cpx	clinopyroxene
F Dyke	Felsic dyke	cpy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-narite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabbor Bx	Heterolithic Gabbro-narite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabbor	Melanogabbro-narite	orp	orthopyroxene
mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	Pyrrhotite
Mt Gabbor	Magnetite gabbro-narite	pap	pappam
Mt mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Narite	qfv	Quartz-feldspar vein
Pxn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tan	Tonalite	stg	strong
v Gab	Vari textured Gabbro	tr	trace
v Gab Bx	Vari textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak



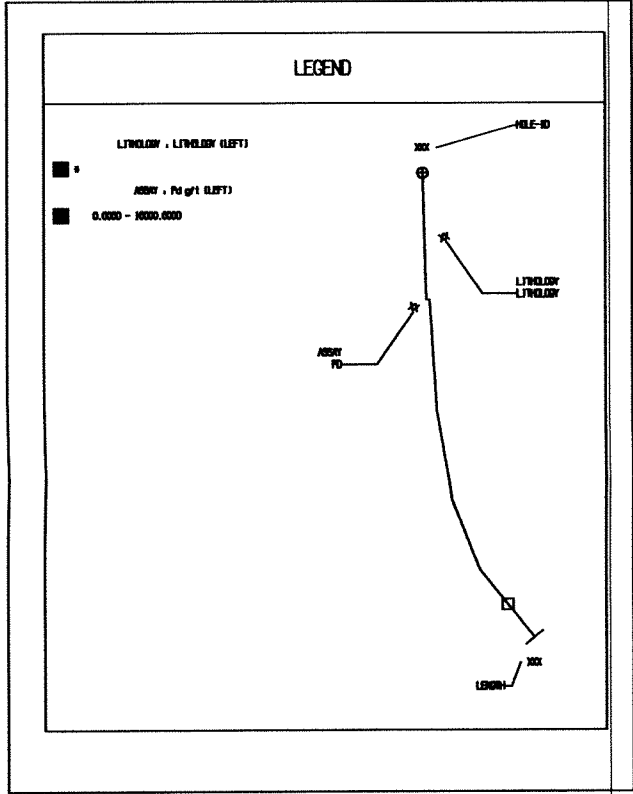
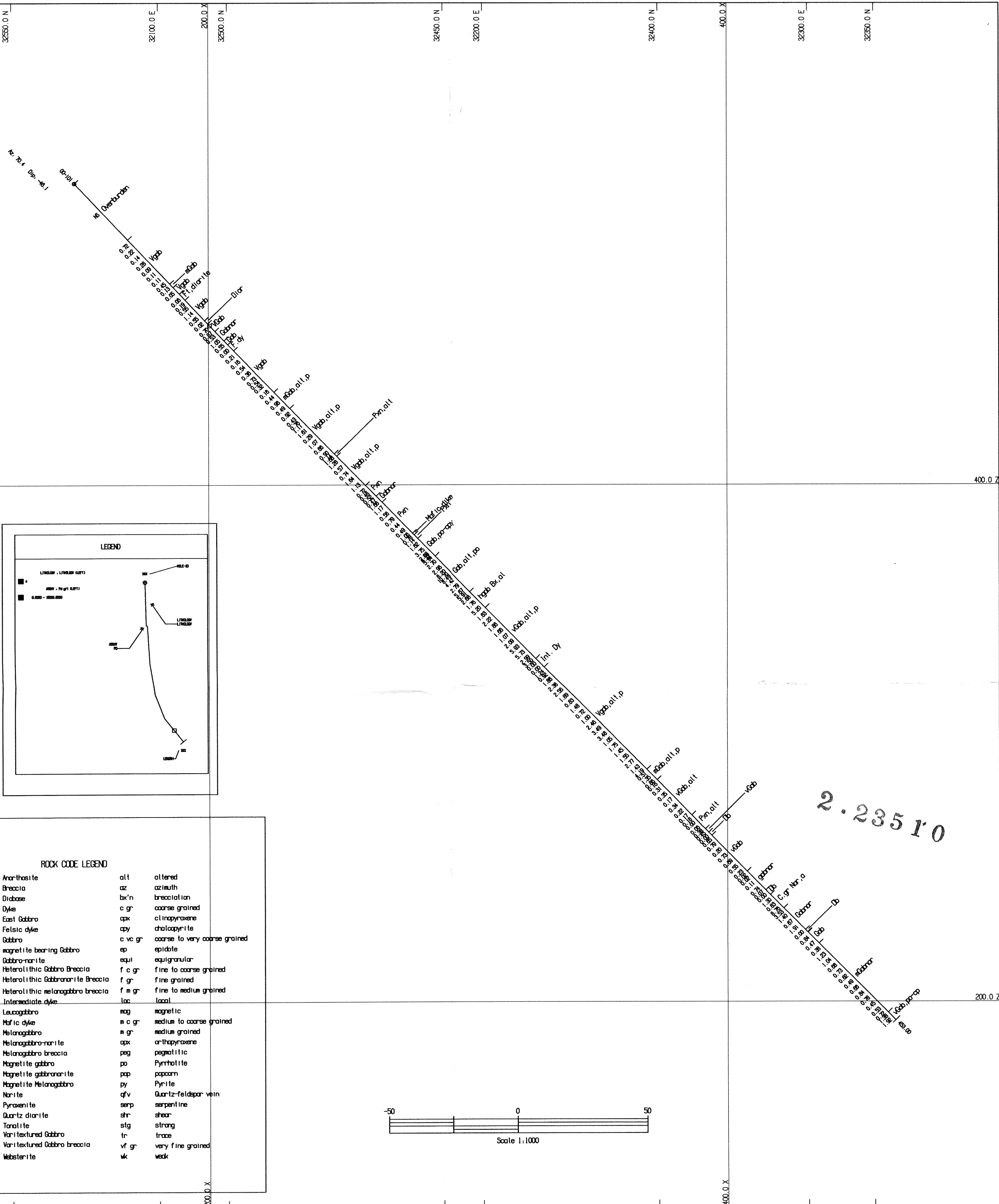
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P7B 5J9

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DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

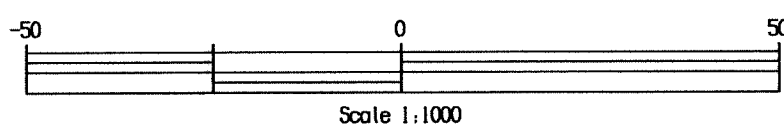
Section = 503 N  
2000 Drillholes - Lithology and Pd g/t

Claim M.L. 252  
Looking North West



**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diorite	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	apx	clinopyroxene
F Dyke	Felsic dyke	apy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidate
Gab Nar	Gabbro-narite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnar Bx	Heterolithic Gabbro-narite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	lac	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnar	Melanogabbro-narite	apx	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	Pyroxenite
Mt Gabnar	Magnetite gabbro-narite	pop	popcorn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Narite	qfz	Quartz-feldspar vein
Pn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tn	Tonalite	stg	strong
v Gab	Varitextured Gabbro	tr	trace
v Gab Bx	Varitextured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak



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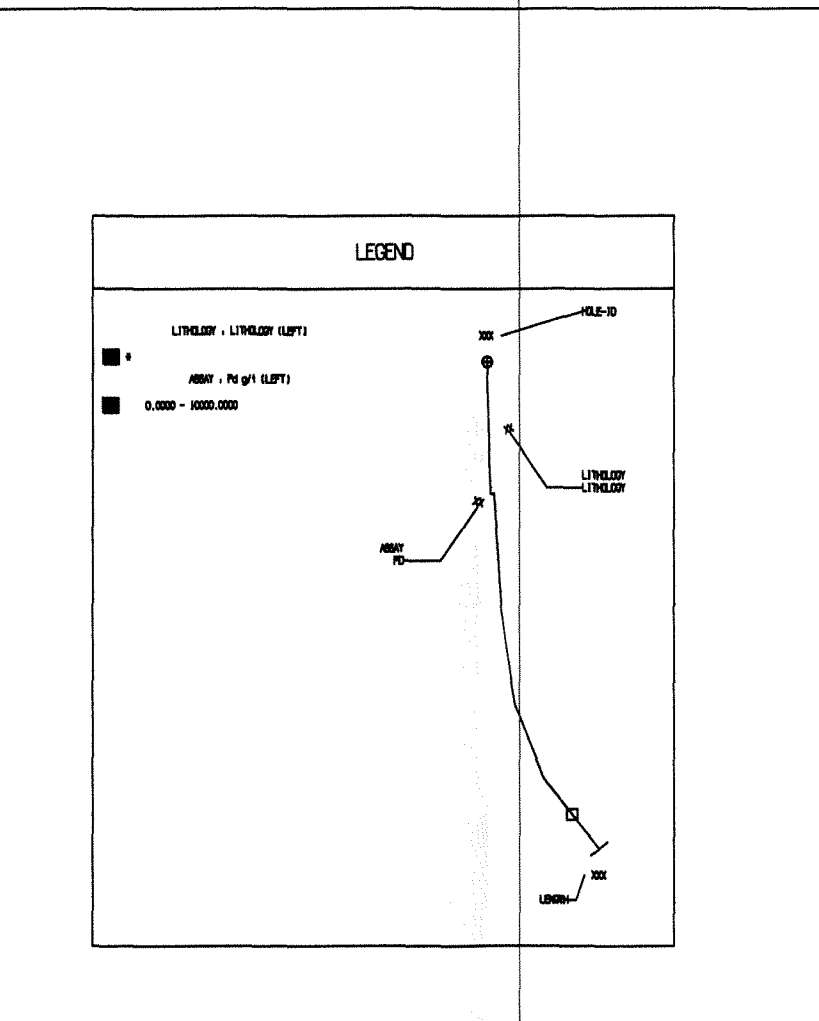
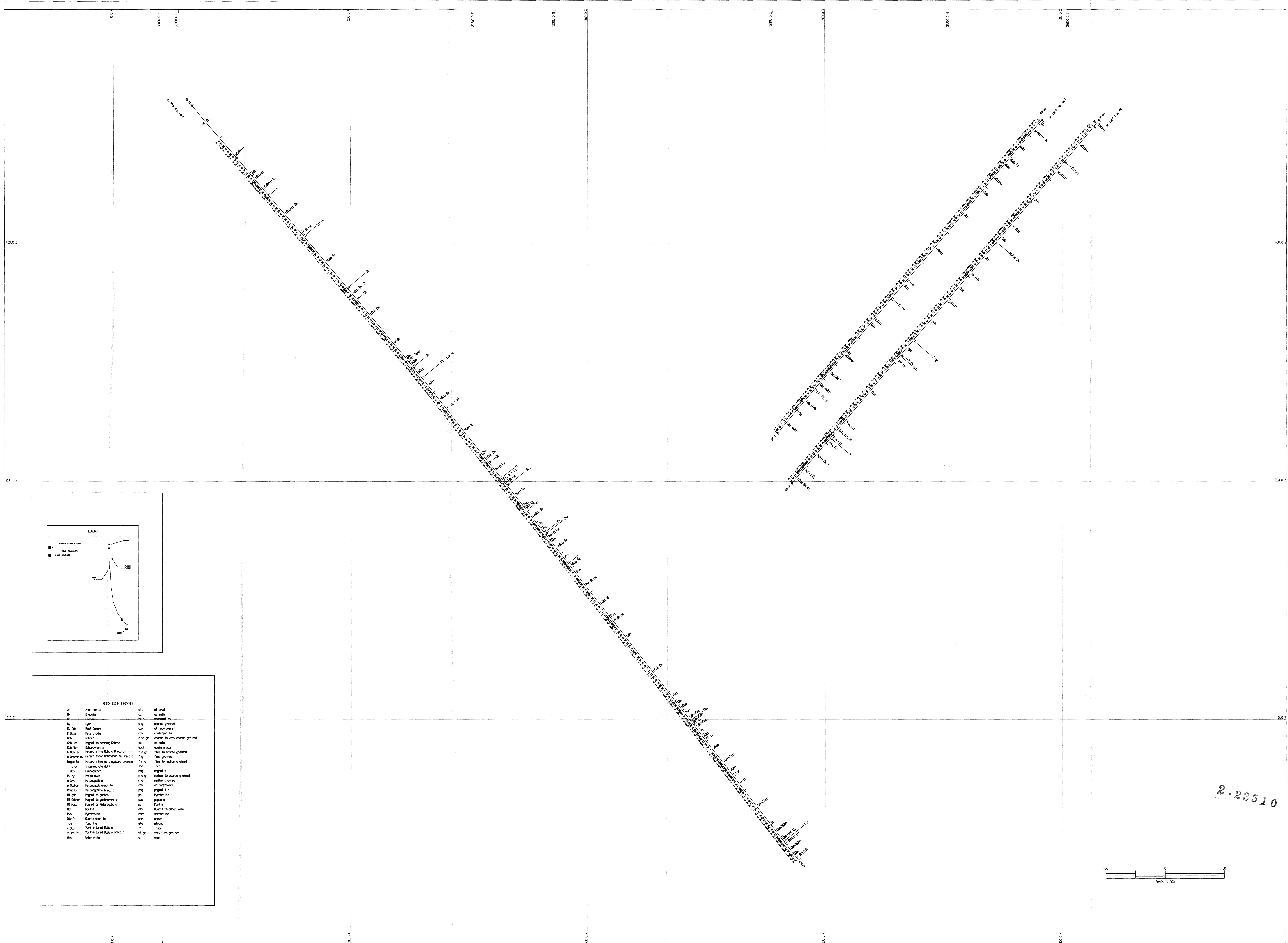
UNITS : METRES DATE: 02/05/01 TIME: 14:31:47  
 DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

Section = 504 N  
 2000 Drillholes - Lithology and Pd g/t  
 Claim M.L. 252  
 Looking North West



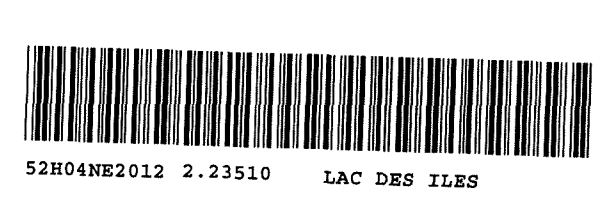
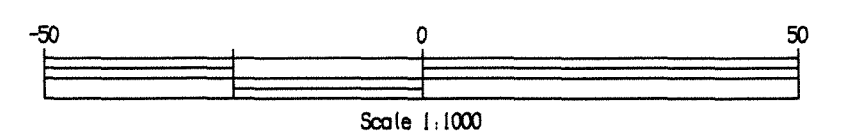




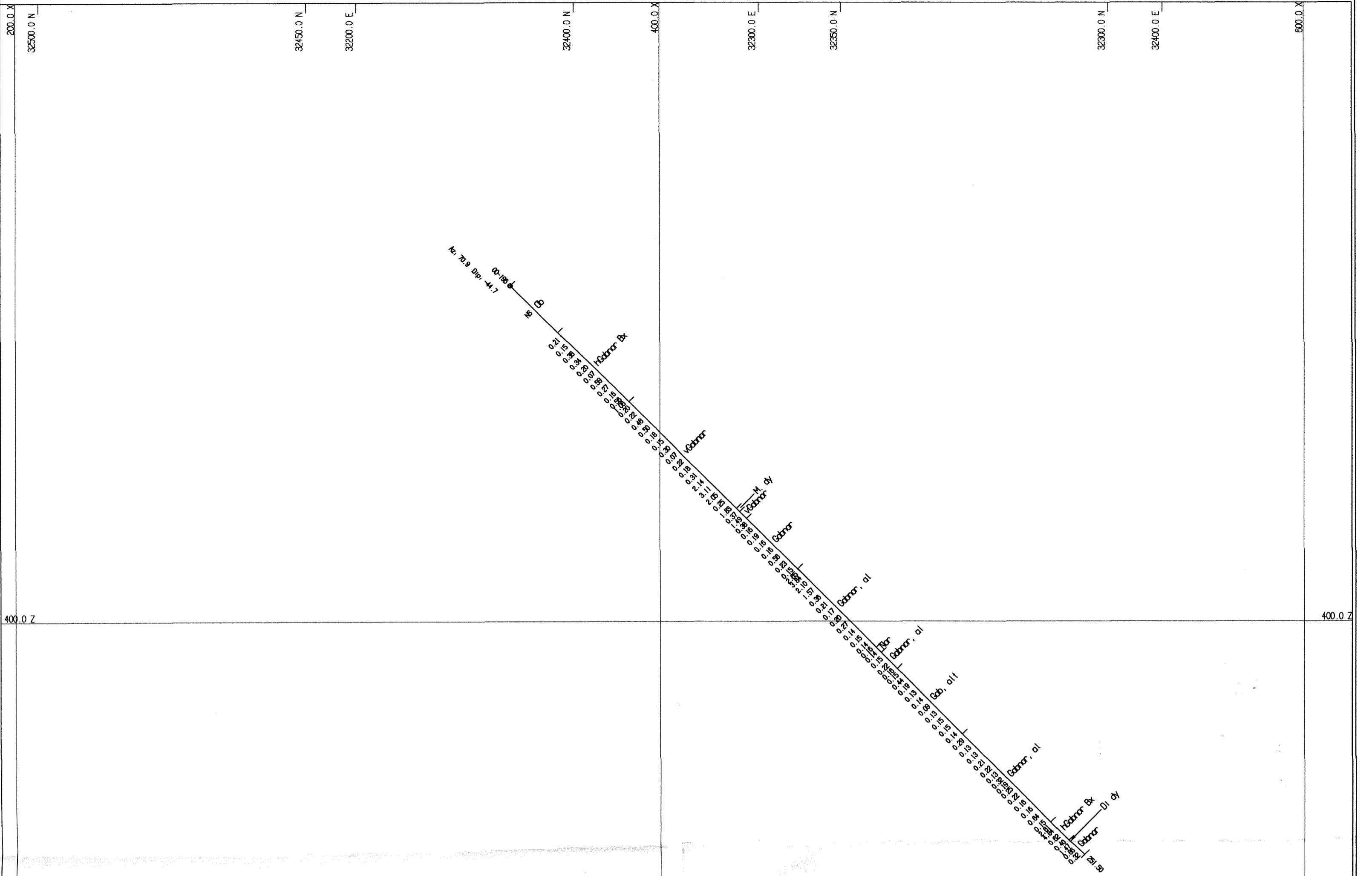
**ROCK CODE LEGEND**

Al	Amphibole	o11	olived
Bs	Breccia	sd	sediment
Dv	Dike	brn	brecciation
Dv	Dike	o gr	coarse grained
E. Gab	East Gabbro	om	orthopyroxene
F. Gab	Falko Gabbro	coy	chloropyroxite
Gab	Gabbro	o v. g	coarse to very coarse grained
Gab. at	gabbroite bearing Gabbro	es	esidite
Gab. Nr	Gabbro-norite	esul	esugranular
h. Gab. Br	Helenite (thin) Gabbro Breccia	f. c. g	fine to coarse grained
h. Gab. Br	Helenite (thin) Gabbro Breccia	f. g	fine grained
Hgab. Br	Helenite (thin) gabbro Breccia	f. m. g	fine to medium grained
Int. dy	Intermediate dike	ls	loam
L. Gab	Leucogabbro	mg	magnetite
M. dy	Mafic dike	m. c. g	medium to coarse grained
m. Gab	Microgabbro	m. g	medium grained
n. Gab. Br	Niobogabbro-norite	om	orthopyroxene
Nga. Br	Niobogabbro Breccia	psg	pegmatite
Ni. Gab	Niobite Gabbro	py	pyroxite
Ni. Gab. Br	Niobite Gabbro Breccia	psp	psamm
Ni. Gab	Niobite Niobogabbro	py	pyroxite
Nr	Norite	qtz	Quartz/feldspar vein
Pr	Pyroxenite	ser	serpentine
Qz. Di	Quartz diorite	sp	spinel
Tn	Tonalite	stg	strong
v. Gab. Br	Very fine grained Gabbro Breccia	tr	trass
v. Gab. Br	Very fine grained Gabbro Breccia	v. g	very fine grained
Wb	Wolframite	w	weld

2.23510



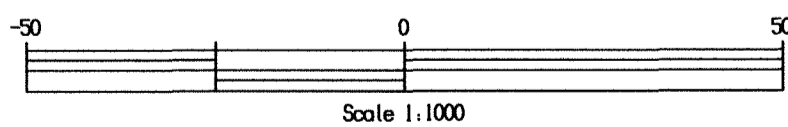
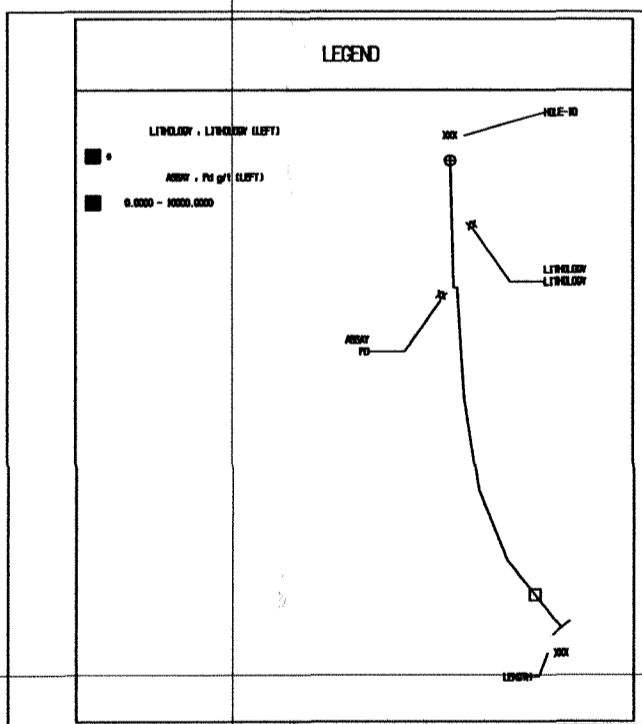
Thunder Bay Office P.O. Box 3386 Thunder Bay, ON P7B 5J9		Lac des Iles Mines Ltd.
UNITS: METRES DATE: 02/05/01 TIME: 14:08:22		Section = 507 N
DRAWN BY: EXPLORATION		2000 Drillholes - Lithology and Pd/g/t
		Claim M.L. 252 & 253
		Looking North West



**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	apx	clinopyroxene
F Dyke	Felsic dyke	cpy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-norite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnar Bx	Heterolithic Gabbro-norite Breccia	f gr	fine grained
hmgb Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnar	Melanogabbro-norite	apx	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	Pyrrhotite
Mt Gabnar	Magnetite gabbro-norite	pap	paparn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Norite	qfv	Quartz-feldspar vein
Pxn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Ton	Tonalite	stg	string
v Gab	Vari-textured Gabbro	tr	trace
v Gab Bx	Vari-textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak

**LEGEND**



2.235 r0

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UNITS : METRES DATE: 02/05/01 TIME: 13:38:30  
DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

Section = 518 N  
2000 Drillholes - Lithology and Pd g/t

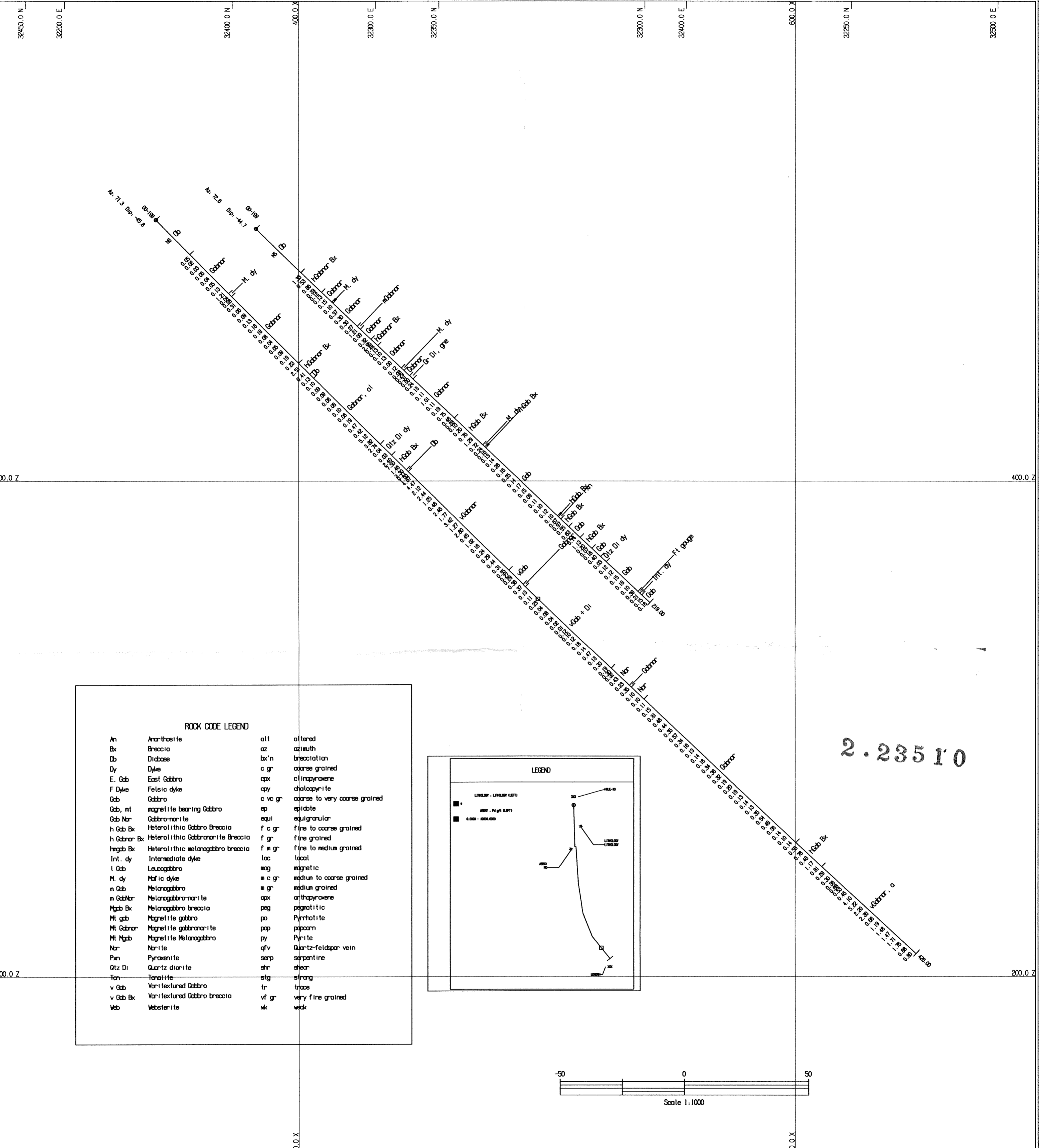
Claim M.L. 253

Looking North West



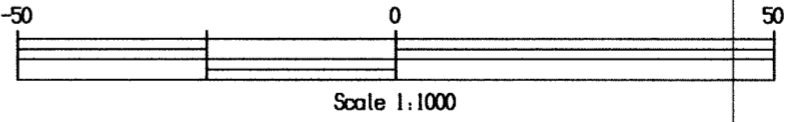
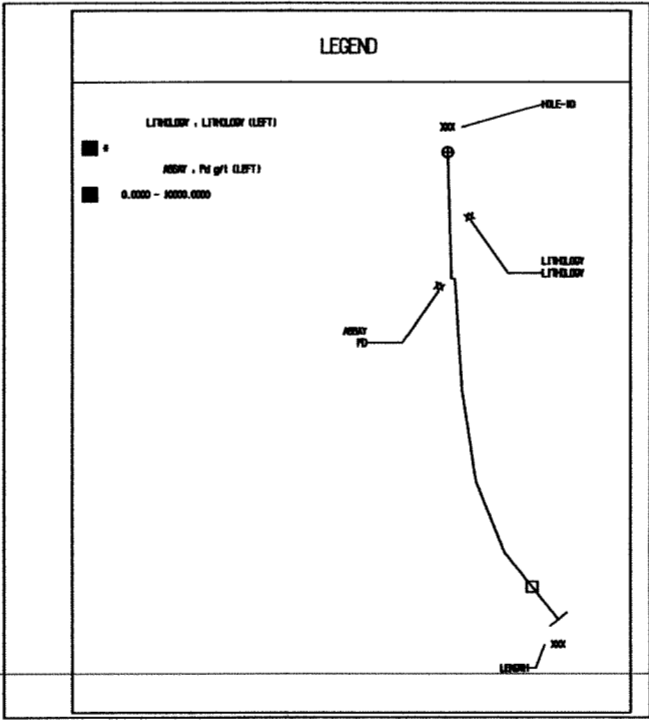
52H04NE2012 2.23510 LAC DES ILES

280



**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Dabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	apx	clinopyroxene
F Dyke	Felsic dyke	apy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-narite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnor Bx	Heterolithic Gabbro-narite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m GabNar	Melanogabbro-narite	apx	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	Pyrrhotite
Mt Gabnor	Magnetite gabbro-narite	pap	popcorn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Narite	q/v	Quartz-feldspar vein
Pm	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tan	Tantalite	strng	string
v Gab	Vari textured Gabbro	tr	trace
v Gab Bx	Vari textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak



2.23510

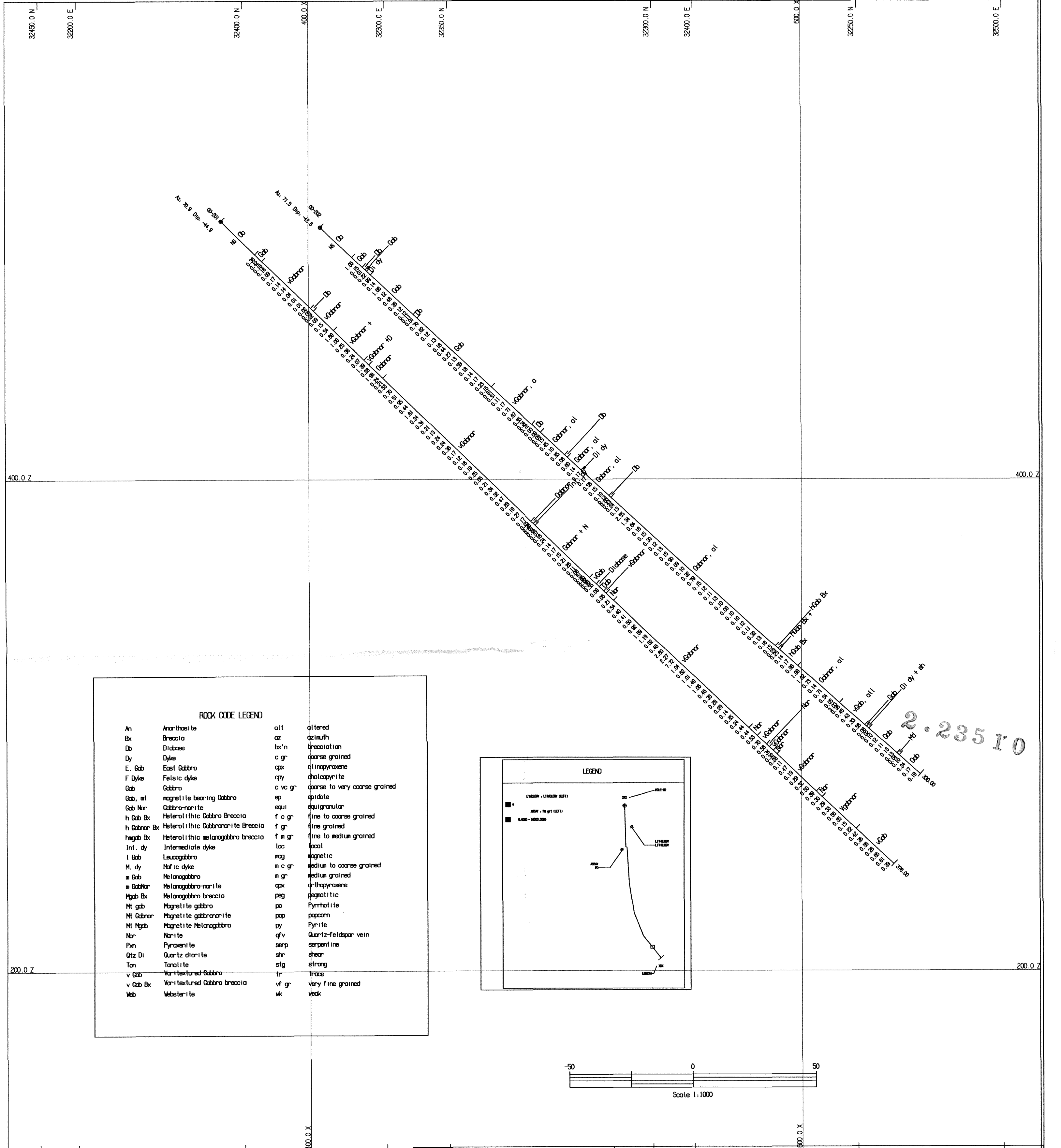
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Thunder Bay, ON  
P7B 5J9

UNITS : METRES DATE: 02/05/01 TIME: 13:35:08  
DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

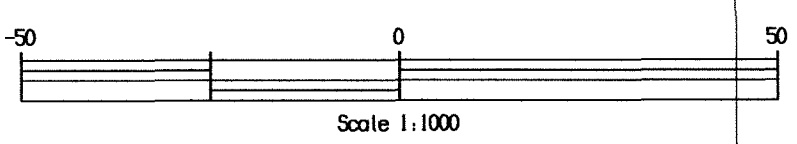
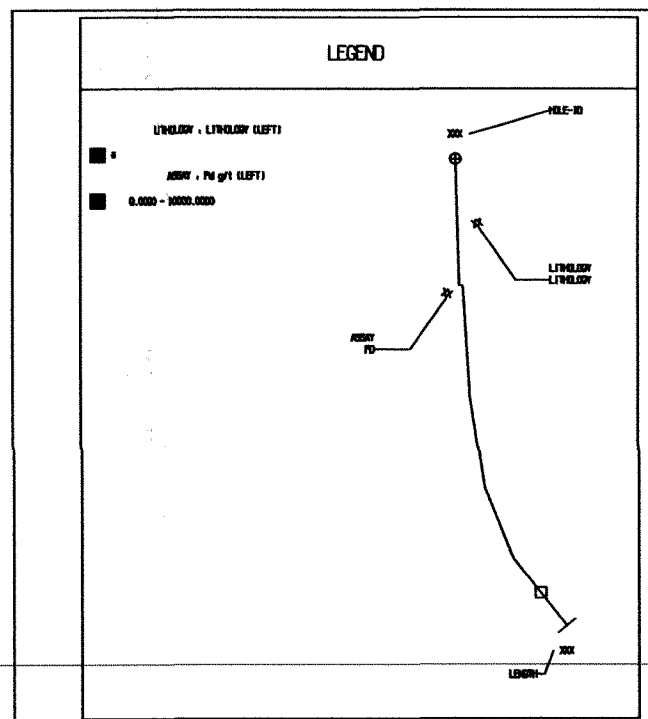
Section = 519 N  
2000 Drillholes - Lithology and Pd g/t  
Claim M.L. 253  
Looking North West





**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	cxp	clinopyroxene
F Dyke	Felsic dyke	cpy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-norite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnar Bx	Heterolithic Gabbro-norite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnar	Melanogabbro-norite	px	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	pyrrhotite
Mt Gabnar	Magnetite gabbro-norite	pap	papcom
Mt Mgab	Magnetite Melanogabbro	py	pyrite
Nar	Norite	qfv	Quartz-feldspar vein
Pxn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Ton	Tonalite	sig	strong
v Gab	Vari-textured Gabbro	tr	trace
v Gab Bx	Vari-textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak

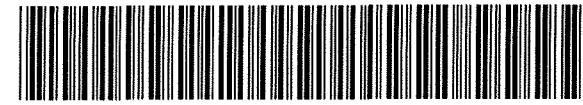


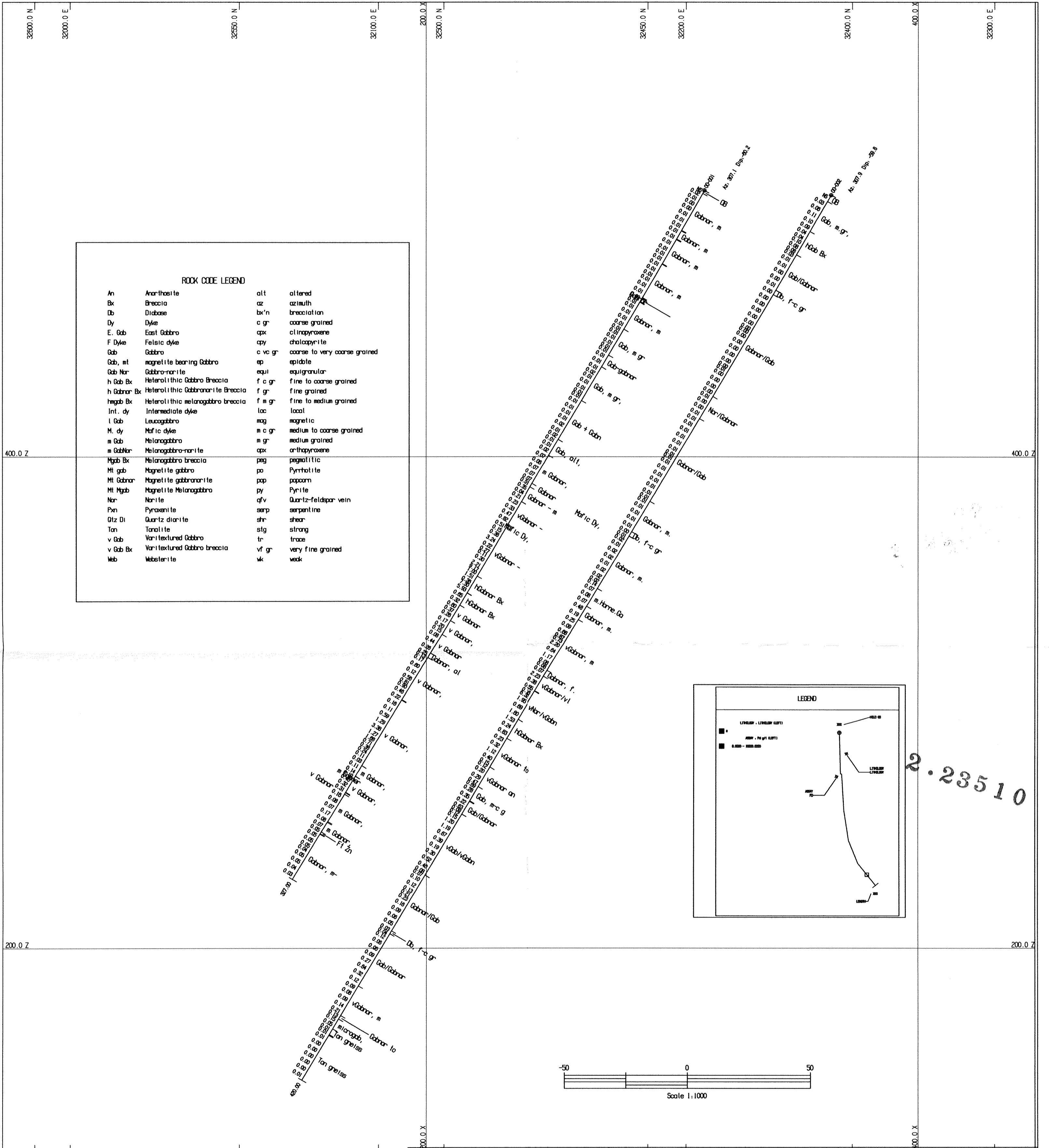
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P7B 5J9

UNITS : METRES DATE: 02/05/01 TIME: 13:01:57  
DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

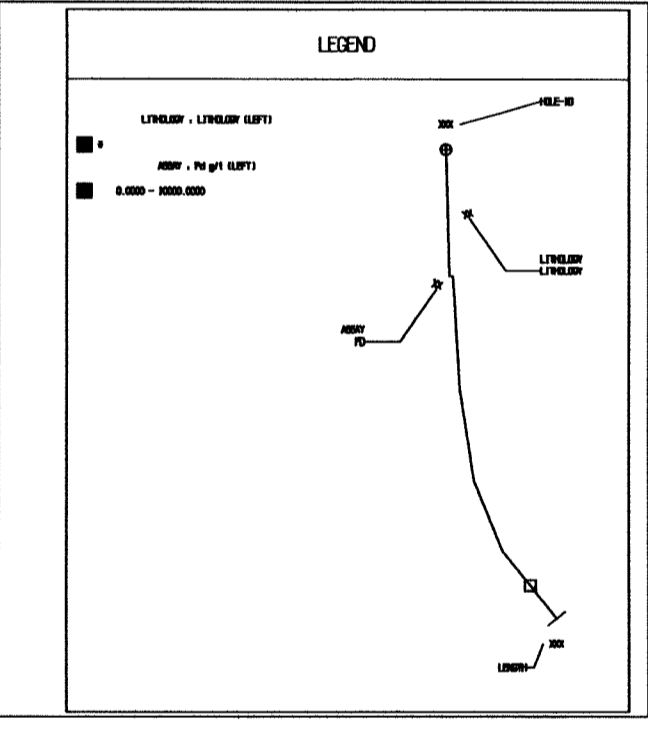
Section = 520 N  
2000 Drillholes - Lithology and Pd g/t  
Claim M.L. 253  
Looking North West



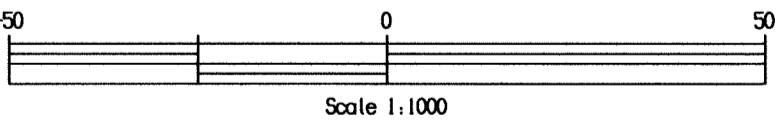


**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	cpx	clinopyroxene
F Dyke	Felsic dyke	cpy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nor	Gabbro-norite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnor Bx	Heterolithic Gabbro-norite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnor	Melanogabbro-norite	px	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	Pyroxenite
Mt Gabnor	Magnetite gabbro-norite	pop	popcorn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nor	Norite	qfv	Quartz-feldspar vein
Pxn	Pyroxenite	sarp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tan	Tonalite	sig	strong
v Gab	Varitextured Gabbro	tr	trace
v Gab Bx	Varitextured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak



2.23510



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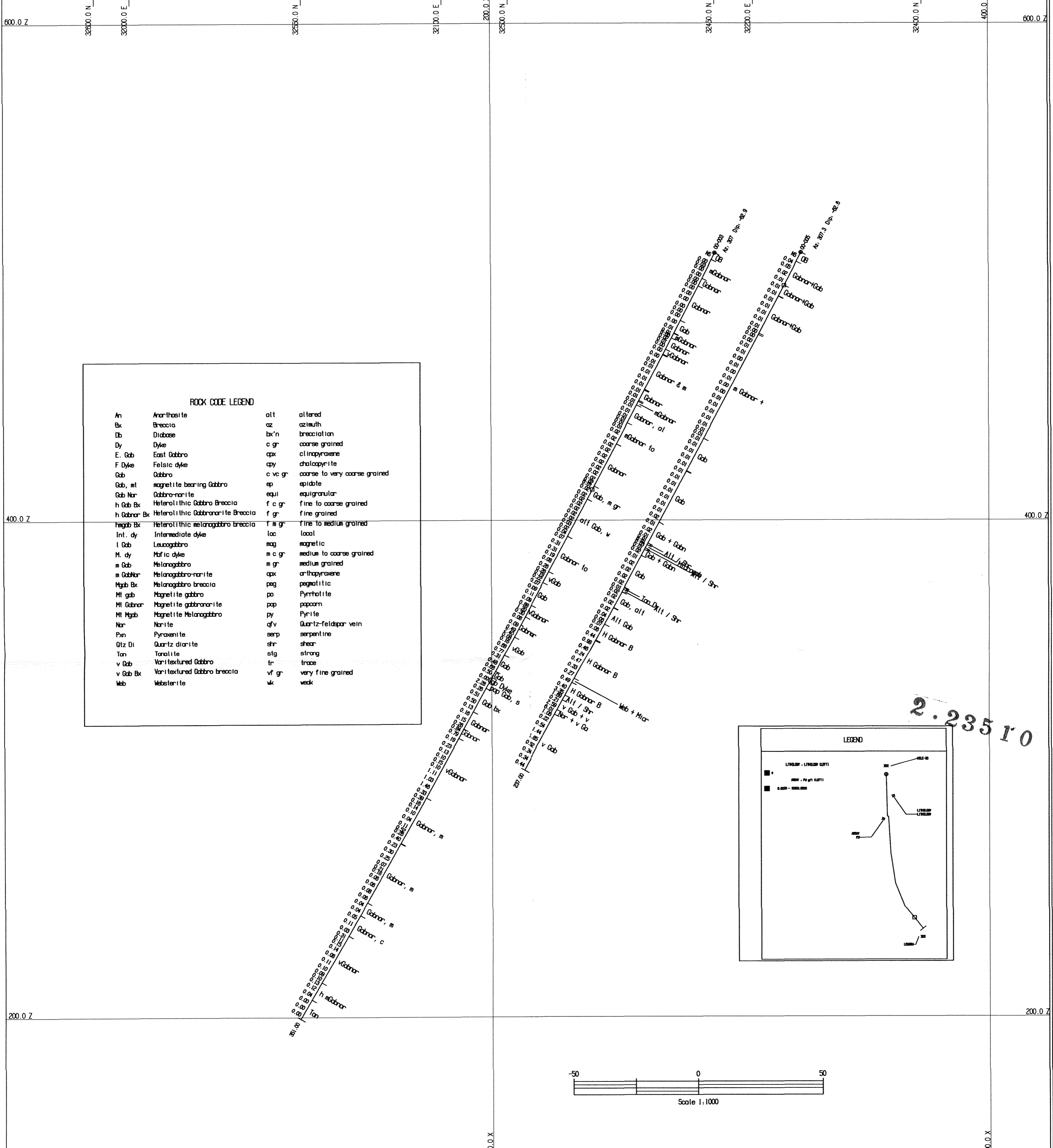
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DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

Section = 600NR  
2000 Drillholes - Lithology and Pd g/t

Claim M.L. 253  
Looking North East

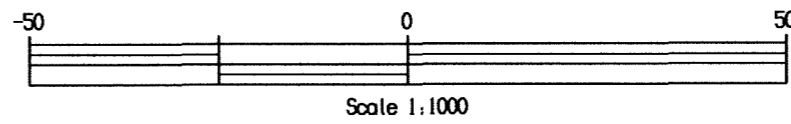




2.23510

ROCK CODE LEGEND			
An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	apx	clinopyroxene
F Dyke	Felsic dyke	cpy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-narite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnar Bx	Heterolithic Gabbro-narite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
L Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnar	Melanogabbro-narite	apx	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	pa	Pyrrhotite
Mt Gabnar	Magnetite gabbro-narite	pap	papaorn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Narite	qfv	Quartz-feldspar vein
Pxn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tan	Tonalite	stg	strong
v Gab	Van textured Gabbro	tr	trace
v Gab Bx	Van textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak

LEGEND	
●	LITHOL. - LITHOL. (LEFT)
○	ASSAY - Pd g/t (LEFT)
■	0.000 - 10000.000



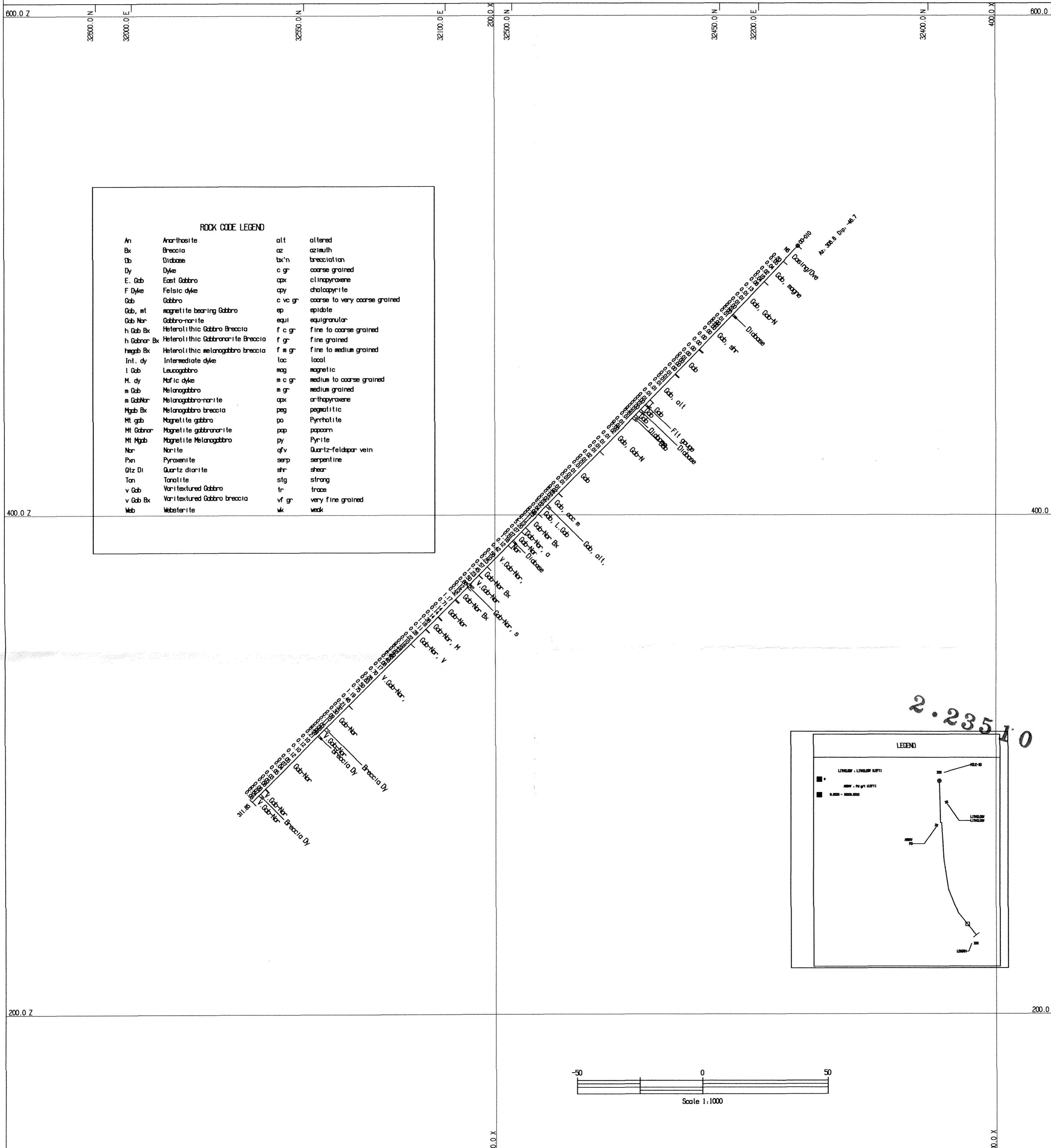
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 Thunder Bay, ON  
 P7B 5J9

UNITS : METRES DATE: 02/05/01 TIME: 11:53:33  
 DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.

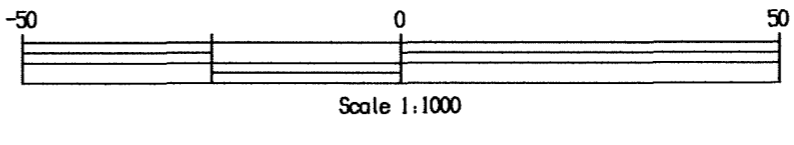
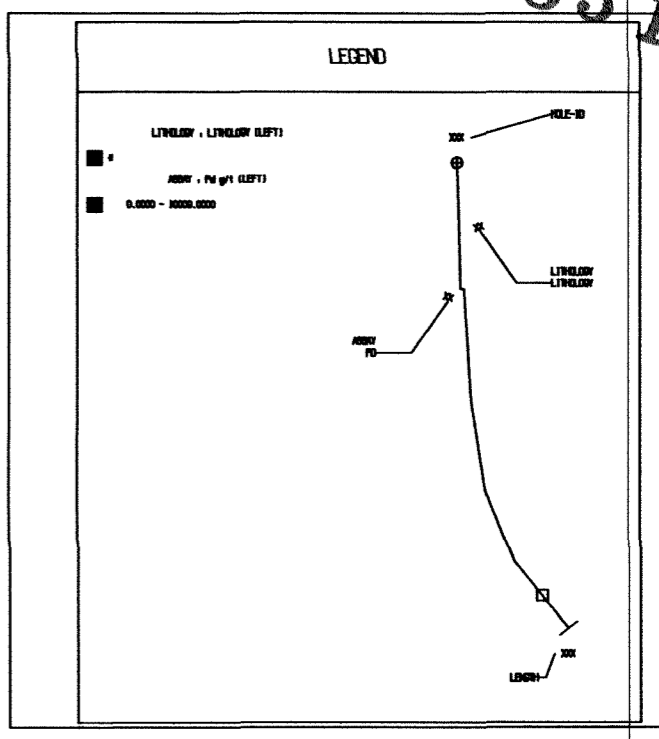
Section = 700NR  
 2000 Drillholes - Lithology and Pd g/t  
 Claim M.L. 253  
 Looking North East




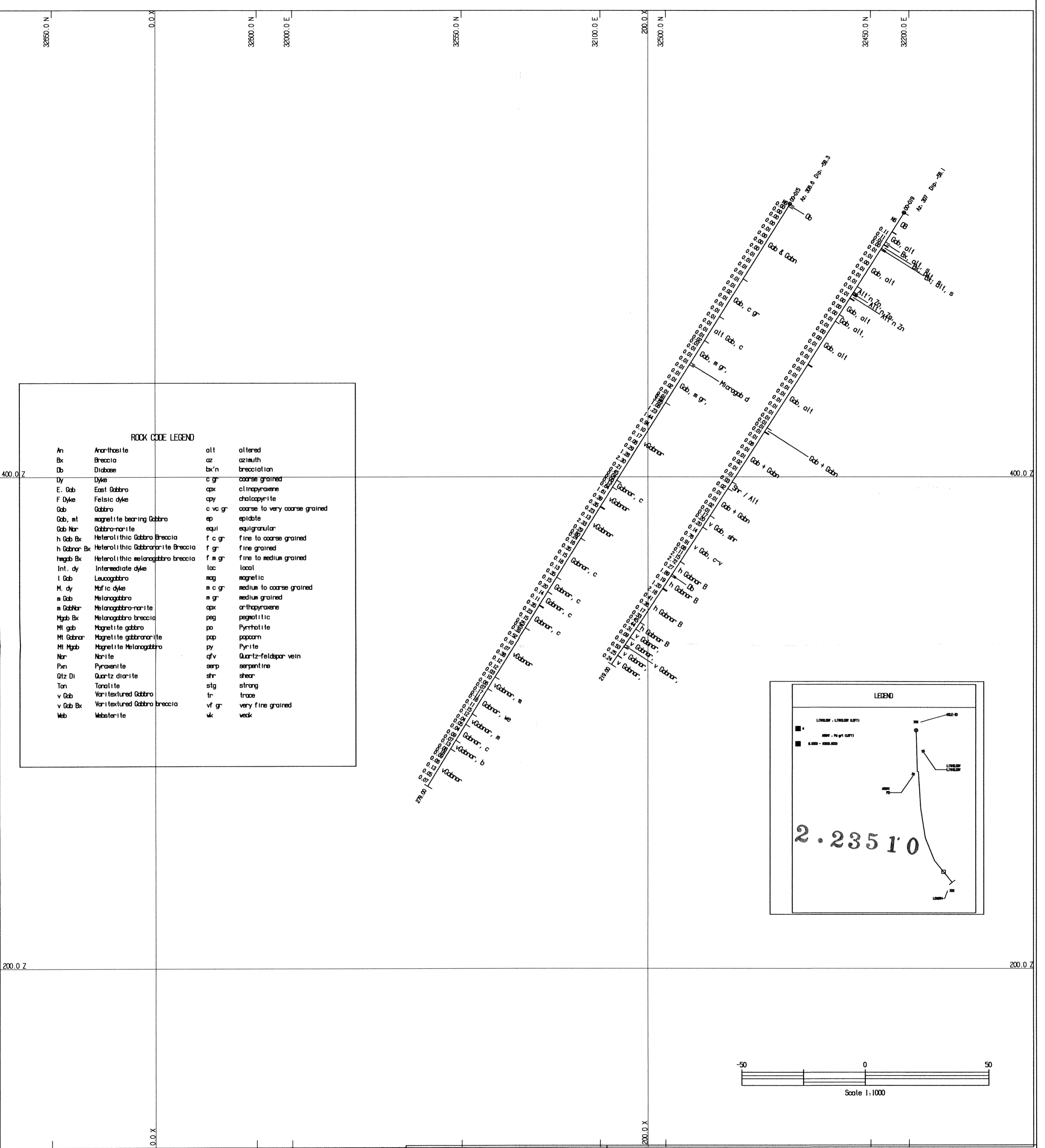


**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	qpx	clinopyroxene
F Dyke	Felsic dyke	qpy	chalcopyrite
Gab	Gabbro	c. v. c. gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-narite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnar Bx	Heterolithic Gabbro-narite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
L Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnar	Melanogabbro-narite	qpx	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	pa	Pyrrhotite
Mt Gabnar	Magnetite gabbro-narite	pap	popcorn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Narite	qfv	Quartz-feldspar vein
Pxn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tan	Tonalite	stg	strong
v Gab	Vari textured Gabbro	tr	trace
v Gab Bx	Vari textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak

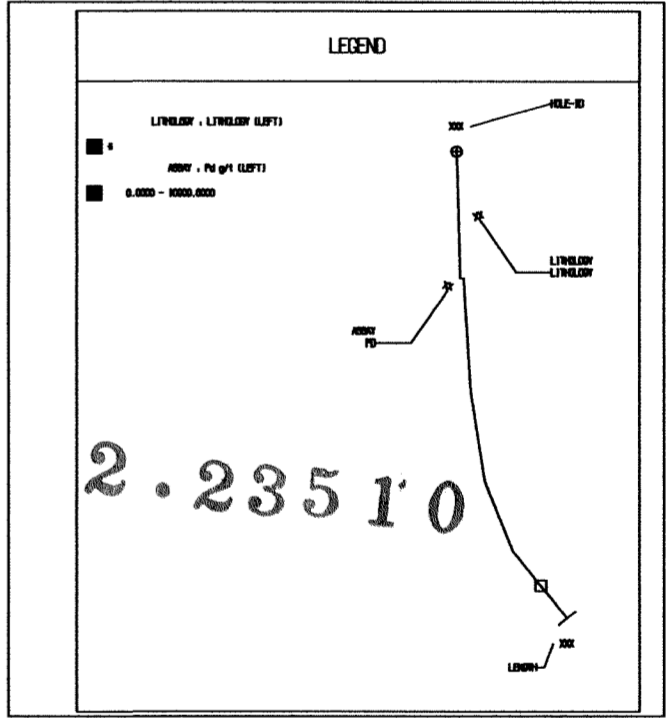


Thunder Bay Office P.O. Box 3386 Thunder Bay, ON P7B 5J9	Lac des Iles Mines Ltd.  Section = 800NR 2000 Drillholes - Lithology and Pd g/t  Claim M.L. 253 Looking North East
UNITS : METRES    DATE : 02/05/01    TIME : 11.42.42 DRAWN BY : EXPLORATION	
 52H04NE2012 2.23510    LAC DES ILES    330	Software by Geosoft Software International

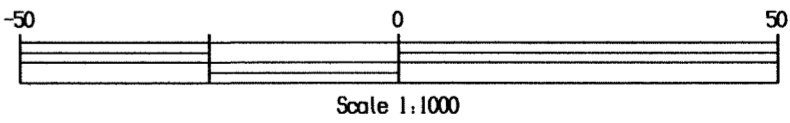


**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	cx	clinopyroxene
F Dyke	Felsic dyke	cpy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nor	Gabbro-norite	equl	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnor Bx	Heterolithic Gabbro-norite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnor	Melanogabbro-norite	apx	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	Pyrrhotite
Mt Gabnor	Magnetite gabbro-norite	pap	popcorn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nor	Norite	qf v	Quartz-feldspar vein
Pxn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tan	Tonalite	stg	strong
v Gab	Varitextured Gabbro	tr	trace
v Gab Bx	Varitextured Gabbro breccia	vf gr	very fine grained
Web	Weberite	wk	weak



2.23510



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P7B 5J9

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UNITS : METRES DATE : 02/05/01 TIME : 11:32:57  
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Lac des Iles Mines Ltd.

Section = 900NR  
2000 Drillholes - Lithology and Pd g/t  
Claim M.L. 253  
Looking North East





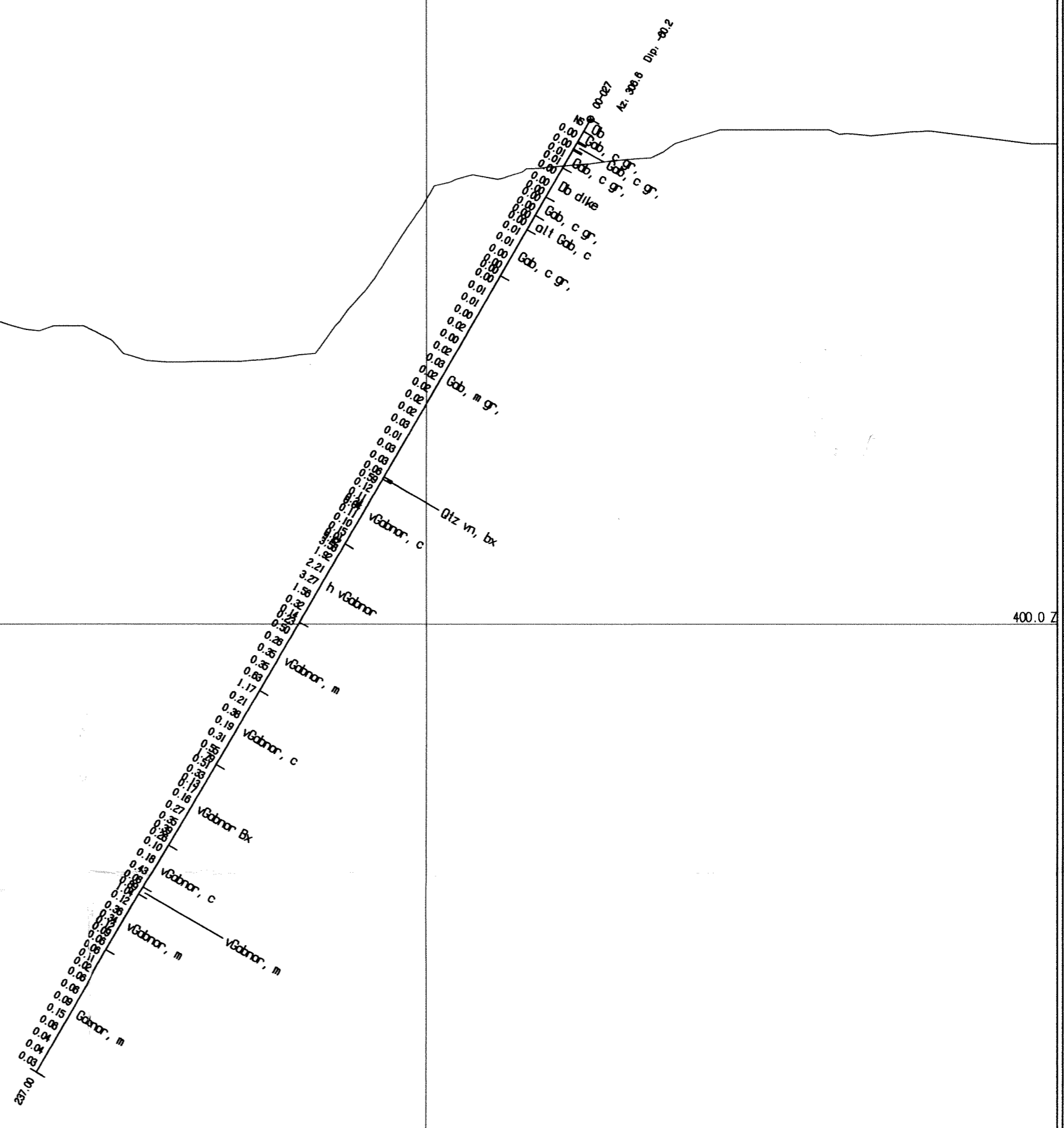
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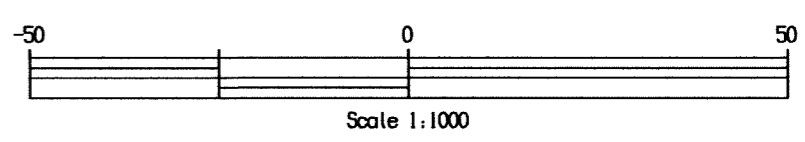
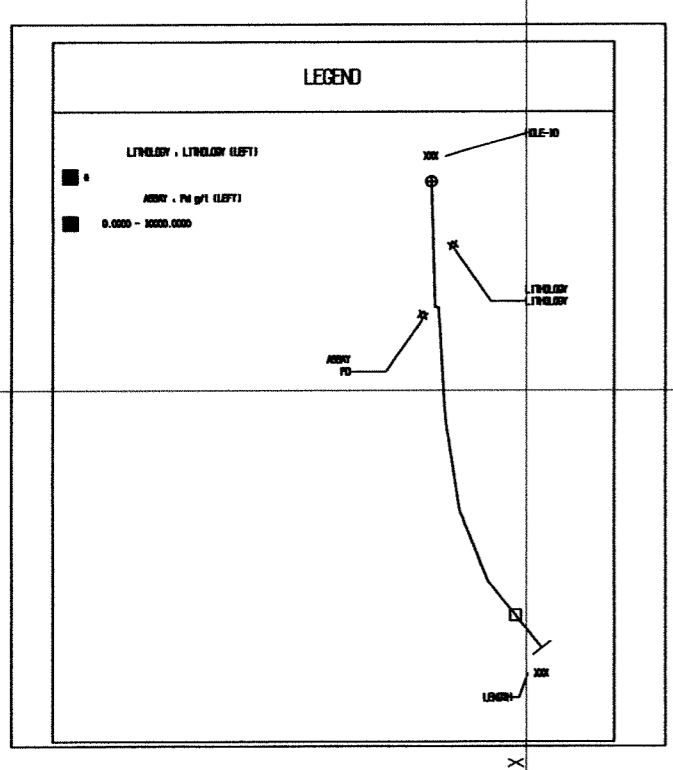
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**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diorase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	apx	clinopyroxene
F. Dyke	Felsic dyke	cpy	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-norite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnar Bx	Heterolithic Gabbro-norite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnar	Melanogabbro-norite	apx	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	po	Pyrrhotite
Mt Gabnar	Magnetite gabbro-norite	pap	popcorn
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Norite	qv	Quartz-feldspar vein
Pxn	Pyrroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Tan	Tonalite	stg	strong
v Gab	Vari textured Gabbro	tr	trace
v Gab Bx	Vari textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak



2.23510



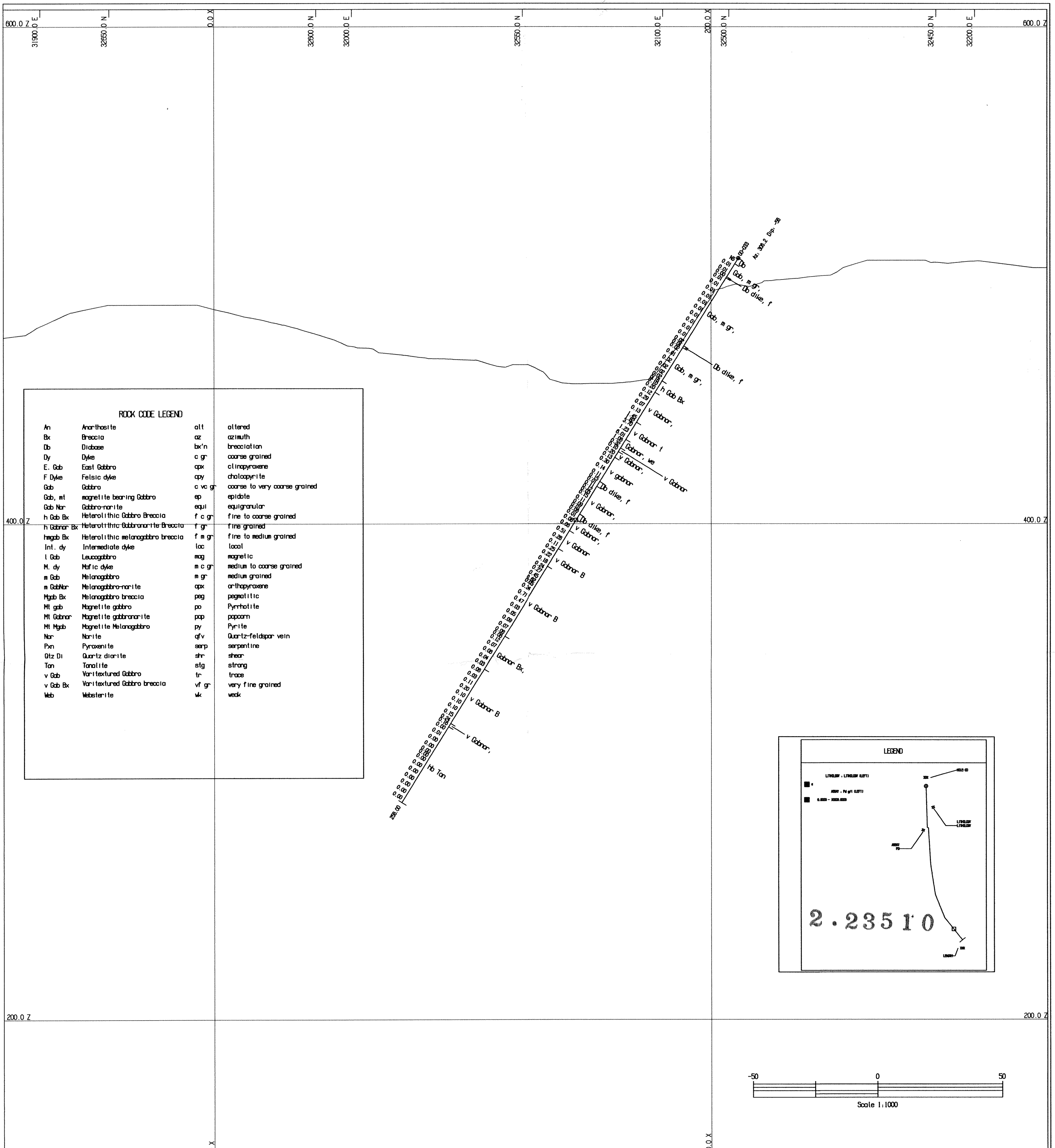
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P7B 5J9

UNITS : METRES DATE: 02/05/01 TIME: 10:58:33  
DRAWN BY : EXPLORATION

Lac des Iles Mines Ltd.  
  
Section = 1000NR  
2000 Drillholes - Lithology and Pd g/t  
Claim M.L. 253  
Looking North East

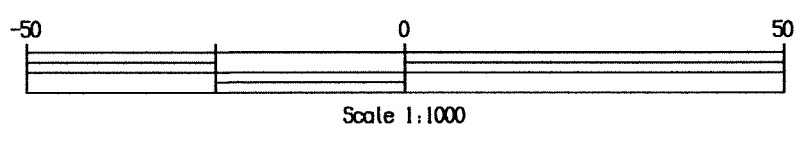
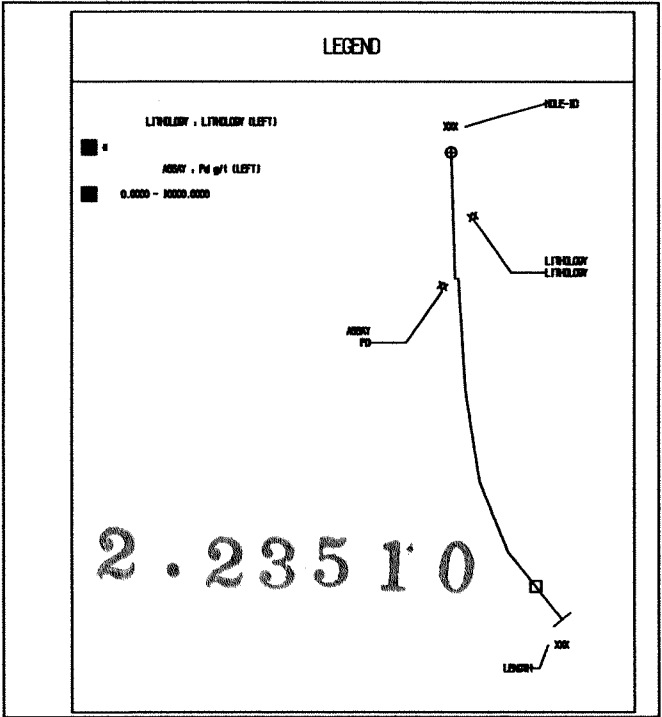


52H04NE2012 2.23510 LAC DES ILES 350



**ROCK CODE LEGEND**

An	Anorthosite	alt	altered
Bx	Breccia	az	azimuth
Db	Diabase	bx'n	brecciation
Dy	Dyke	c gr	coarse grained
E. Gab	East Gabbro	cpx	clinopyroxene
F Dyke	Felsic dyke	chalc	chalcopyrite
Gab	Gabbro	c vc gr	coarse to very coarse grained
Gab, mt	magnetite bearing Gabbro	ep	epidote
Gab Nar	Gabbro-narite	equi	equigranular
h Gab Bx	Heterolithic Gabbro Breccia	f c gr	fine to coarse grained
h Gabnor Bx	Heterolithic Gabbro-narite Breccia	f gr	fine grained
hmgab Bx	Heterolithic melanogabbro breccia	f m gr	fine to medium grained
Int. dy	Intermediate dyke	loc	local
l Gab	Leucogabbro	mag	magnetic
M. dy	Mafic dyke	m c gr	medium to coarse grained
m Gab	Melanogabbro	m gr	medium grained
m Gabnor	Melanogabbro-narite	px	orthopyroxene
Mgab Bx	Melanogabbro breccia	peg	pegmatitic
Mt gab	Magnetite gabbro	py	Pyroxene
Mt Gabnor	Magnetite gabbro-narite	pap	papaam
Mt Mgab	Magnetite Melanogabbro	py	Pyrite
Nar	Narite	qf v	Quartz-feldspar vein
Pxn	Pyroxenite	serp	serpentine
Qtz Di	Quartz diorite	shr	shear
Ton	Tonalite	stg	strong
v Gab	Van textured Gabbro	tr	trace
v Gab Bx	Van textured Gabbro breccia	vf gr	very fine grained
Web	Websterite	wk	weak



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UNITS : METRES DATE: 02/05/01 TIME: 11:11:08  
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Lac des Iles Mines Ltd.

Section = 1100NR  
2000 Drillholes - Lithology and Pd g/t

Claim M.L. 253  
Looking North East



360