2.20073

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-01
Collar Eastings: 2500.00
Collar Northings: 1353.00
Collar Elevation: 2.00
Grid: AVL 1997
NQ core stored at Sioux Narrows

Collar Inclination: -45.00
Grid Bearing: 157.00
Final Depth: 181.60 metres
Drilled: Nov 10-12, 1998
Contractor: Bradley Bros.

Logged by: I.Campbell
Date: November 1998
Down-hole Survey: Pajari
Logged: Nov 10-12, 1998
Claim: K 1178821

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
0	3.04	**CASING AND OVERBURDEN**					
3.04	26.90	**FELSIC VOLCANICS** Light to medium grey colour. Fine grained with ghosty feldspar (whitish) phenocrysts. Local zones of fine grained ash tuff - bedded. Patchy silicification. No foliation; strongly carbonatized - disseminated and veinlets. 0.5-2% pyrite throughout.	286001	3.04	5.00	1.96	20
			286002	5.00	6.50	1.50	15
			286003	6.50	8.00	1.50	40
			286004	8.00	9.50	1.50	1410
			286005	9.50	11.00	1.50	50
			286006	11.00	12.50	1.50	50
		7.90-8.60 Bedded ash tuff, fine grained; strong carbonate throughout. At 8.50 m, ash beds at 59 deg to core axis; south.	286007	12.50	14.00	1.50	120
			286008	14.00	15.50	1.50	55
			286009	15.50	17.00	1.50	85
		3.04-5.00 Sample actually 1 m due to lost core (ground and blocky). 0.5-1% pyrite.	286010	17.00	18.50	1.50	35
			286011	18.50	20.00	1.50	45
		5.00-6.50 Minor brecciation - stockwork fracturing qtz-chl-carb veinlets, trace sericite. 2-3% pyrite.	286012	20.00	21.50	1.50	25
			286013	21.50	23.00	1.50	NIL
		6.50-8.00 Patchy silica, blocky. 1-2% pyrite.	286014	23.00	24.50	1.50	NIL
		8.00-9.50 Pyrite is disseminated and patchy, also some coarse veinlets. 2-3% pyrite.	286015	24.50	25.70	1.20	80
			286016	25.70	26.90	1.20	NIL
		9.50-11.00 Patchy silica, 2-3% disseminated fine grained pyrite throughout.					
		11.00-12.50 Local 'vugs'; 2-3% fine grained disseminated pyrite; local micro fracturing - silica, chlorite.					
		12.50-14.00 As described.					

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HOLE No.: 98-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
		14.00-15.50 2-3% disseminated pyrite, fine to coarse grained. 15.50-17.00 2-3% disseminated pyrite, fine to coarse grained. 17.00-18.50 2-3% disseminated pyrite, fine to coarse grained. Minor chloritic alteration begins. 18.50-20.00 Increased silicification. 2-3% pyrite. 20.00-21.50 Pervasive carbonate, local minor fractures of quartz, chlorite. 1-2% pyrite. 21.50-24.50 Patchy silicification, fragmental (primary) appearance. 1-2% pyrite. 24.50-25.70 Patchy silicification, fragmental (primary) appearance. 2-3% pyrite. 25.70-26.90 Increased mottling towards contact - silicification. 2-3% pyrite.					
26.90	28.50	**FELSIC DYKE** Granodiorite (hornblende) unfoliated, mineralized with 5-10% pyrite. Fine grained equivalent of larger dyke downhole. Grey, light green-buff color; fine grained, siliceous, quartz-feldspar matrix; 5% black-green phenocrysts <1 mm.	286017	26.90	28.50	1.60	260
28.50	37.45	**INTERMEDIATE INTRUSIVE** Medium grey-green colour to dark green locally. Massive with local micro fractures - chloritic unfoliated, density of one per several cm. Strong pervasive carbonate throughout. Relict chloritized mafic phenocrysts, possible hornblende retrograded to chlorite comprises 15-20% of rock. Some quartz phenocrysts (1%).	286018	28.50	29.70	1.20	10
			286019	29.70	30.90	1.20	15
			286020	30.90	32.20	1.30	NIL
			286021	32.20	32.80	0.60	570
			286022	32.80	34.15	1.35	5
			286023	34.15	34.95	0.80	15

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
			286024	34.95	35.80	0.85	60
		28.50-32.20 As described. 0.5% pyrite.	286025	35.80	37.05	1.25	NIL
		32.20-32.80 Silica 3% pyrite (fine grained disseminated) band. possible fault - sericite-chlorite gouge at 52 deg to core axis.	286026	37.05	37.45	0.40	30
		32.80-34.15 Mafic intrusive section. Dark green, fine grained with hornblende phenocrysts. 0.5-1% pyrite.					
		34.15-34.95 Medium to strong silicification, chloritic. 3-4% disseminated pyrite.					
		34.95-35.80 Felsic volcanic, crystal to lapilli tuff. Vuggy disseminated pyrite, 2-3%.					
		35.80-37.05 coarse grained mafic phenocrysts, hornblende to 4-5 mm. 0.5-1% pyrite disseminated throughout.					
		37.05-37.45 Moderate silicification. 2-3% pyrite.					
37.45	39.80	**FELSIC VOLCANIC** Light to medium grey. locally buff. Fine grained, weak (banding) bedding in places. Weak silicification, moderate pervasive carbonatization.	286027	37.45	38.60	1.15	50
			286028	38.60	39.80	1.20	165
		37.45-38.60 Coarse pyrite at top of interval. 2-3% disseminated pyrite. At 37.60, bedding is 38 deg to core axis.					
		38.60-39.80 0.5 cm wide veinlet of quartz-carbonate-chlorite parallel to core axis. Patchy silica. 2-3% disseminated pyrite.					
39.80	48.00	**INTERMEDIATE INTRUSIVE** Similar to 28.50-37.45. Medium grey-green colour. 15-20% hornblende phenocrysts	286029	39.80	40.70	0.90	5
			286030	40.70	41.40	0.70	20

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		(retrograded to chlorite), patchy silicification. Strongly altered over last 5 metres of interval.	286031	41.40	42.20	0.80	25
			286032	42.20	43.30	1.10	50
			286033	43.30	44.00	0.70	175
		39.80-40.70 As described. Trace sericite developed at top of interval. 1-2% pyrite.	286034	44.00	44.70	0.70	310
			286035	44.70	45.50	0.80	70
		40.70-41.40 Moderate silicification in patches. 2-3% pyrite.	286036	45.50	46.30	0.80	115
		41.40-42.20 As described.	286037	46.30	47.00	0.70	170
		42.20-43.30 Pervasive silicification begins. 3-4% pyrite.	286038	47.00	48.00	1.00	35
		43.30-44.00 Silica, sericite, sericite in anastomosing, brecciated network, at 50 deg to core axis. Minor chlorite. 4-5% pyrite.					
		44.00-44.70 Silica, sericite. 2-3% pyrite.					
		44.70-45.50 Bleached as above. 3-4% pyrite.					
		45.50-46.30 Silica, chlorite. 2-3% pyrite.					
		46.30-47.00 Silica flood and in 0.5 cm veins - two generations. 3-4% pyrite.					
		47.00-48.00 Patchy silicification. 2-3% pyrite.					
48.00	53.20	**MAFIC INTRUSIVE** Dark green, medium grained, massive. Magnetic. Locally silicified. Contacts diffuse.	286039	48.00	49.10	1.10	160
			286040	49.10	50.60	1.50	30
			286041	50.60	52.20	1.60	20
		48.00-49.10 Patchy silicification, very coarse grained. Veinlet with chalcopyrite. Patches of coarse grained pyrite, 3-4%.	286042	52.20	53.20	1.00	20
		49.10-52.20 As described. 1-1.5% pyrite.					
		52.20-53.20 Altered. Green chlorite near lower contact. 2-3% pyrite.					

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PROPERTY: East Cedartree
HOLE No.: 98-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
53.20	153.30	**FELSIC INTRUSIVE** Mineralized. Light grey to white. occasional biotite (black) and quartz phenocrysts. Hornblende phyric, 10-20% green sub- to euhedral hornblende. Massive with minor foliation. Well mineralized with 5-15% pyrite as large blebs and even disseminations throughout. Strong pervasive carbonate.	286043	53.20	54.10	0.90	870
			286044	54.10	55.60	1.50	775
			286045	55.60	57.10	1.50	730
			286046	57.10	58.60	1.50	395
			286047	58.60	60.10	1.50	115
			286048	60.10	61.60	1.50	935
			286049	61.60	63.10	1.50	475
		53.20-54.10 Strongly silicified to silica flooded. 10% pyrite.	286050	63.10	64.60	1.50	85
		54.10-63.10 As described. 5-7% pyrite.	286051	64.60	66.10	1.50	65
		63.10-64.60 As described. 6-9% pyrite.	286052	66.10	67.60	1.50	510
		64.60-66.10 As described. 5-10% pyrite.	286053	67.60	69.10	1.50	135
		66.10-79.60 As described. 5-7% pyrite.	286054	69.10	70.60	1.50	45
		79.60-81.10 Lessening of hornblende phenocrysts. 5-7% pyrite.	286055	70.60	72.10	1.50	40
		81.10-82.60 4 mm quartz-calcite fracture at 10 deg to core axis. 1 cm band of massive coarse grained pyrite at 75 deg to core axis. 5-7% pyrite.	286056	72.10	73.60	1.50	180
			286057	73.60	75.10	1.50	285
			286058	75.10	76.60	1.50	60
		82.60-84.10 Very weak foliation defined by micro sericitic fractures at 72 deg to core axis. 5-7% pyrite.	286059	76.60	78.10	1.50	45
			286060	78.10	79.60	1.50	75
		84.10-85.60 3 cm wide siliceous patch. 5-7% pyrite.	286061	79.60	81.10	1.50	355
		85.60-87.10 3-5% pyrite disseminated and in narrow 1-2 mm veinlets at average 58 deg to core axis.	286062	81.10	82.60	1.50	1180
			286063	82.60	84.10	1.50	165
		87.10-91.60 1-2% hornblende phenocrysts. 2-5% pyrite.	286064	84.10	85.60	1.50	1230
		91.60-93.10 15 cm wide silica flood with 20% massive coarse grained pyrite at 63 deg to core axis. 5-7% pyrite.	286065	85.60	87.10	1.50	100
			286066	87.10	88.60	1.50	155
		93.10-94.60 0.5 cm pyrite band at 47 deg to core axis. 3-5% pyrite.	286067	88.60	90.10	1.50	55
			286068	90.10	91.60	1.50	60
		94.60-97.60 As described. 3-5% pyrite.	286069	91.60	93.10	1.50	100

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		97.60-100.60 As described. 5-7% pyrite.	286070	93.10	94.60	1.50	160
		100.60-102.10 Two 4 mm clear quartz veinlets. 5-7% pyrite.	286071	94.60	96.10	1.50	1530
		102.10-105.10 Gradual change over interval to predominantly	286072	96.10	97.60	1.50	90
		feldspar porphyry. 5-7% pyrite.	286073	97.60	99.10	1.50	100
		105.10-107.00 As described. 5-7% pyrite.	286074	99.10	100.60	1.50	125
		107.00-109.00 As described. 1 cm massive pyrite. 5-7 pyrite.	286075	100.60	102.10	1.50	75
		109.00-111.00 1 cm massive pyrite patch. Two 2 mm veinlets	286076	102.10	103.60	1.50	140
		grey quartz with pyrite. 5-7% pyrite.	286077	103.60	105.10	1.50	105
		111.00-113.00 5 mm clear quartz vein at 13 deg to core axis.	286078	105.10	107.00	1.90	215
		5-7% pyrite.	286079	107.00	109.00	2.00	120
		113.00-117.00 As described. 5-7% pyrite.	286080	109.00	111.00	2.00	75
		117.00-119.00 Slightly less pyrite, 3-5%.	286081	111.00	113.00	2.00	50
		119.00-121.00 Two fractures at 13 deg to core axis.	286082	113.00	115.00	2.00	65
		3-5% pyrite.	286083	115.00	117.00	2.00	55
		121.00-123.00 As described. 3-5% pyrite.	286084	117.00	119.00	2.00	70
		123.00-125.00 Mild silicification, chlorite. 3-5% pyrite.	286085	119.00	121.00	2.00	90
		125.00-129.00 As described. 3-5% pyrite.	286086	121.00	123.00	2.00	60
		129.00-131.00 Begin sericite (light yellow-green) as diffuse	286087	123.00	125.00	2.00	75
		patches and fracture controlled. 2 cm coarse grained pyrite	286088	125.00	127.00	2.00	120
		patch. Strong pervasive carbonate. 3-5% pyrite.	286089	127.00	129.00	2.00	160
		131.00-133.00 As 129.00-131.00. Begin silica flood over 10 cm.	286090	129.00	131.00	2.00	100
		1 cm quartz-carbonate-pyrite fracture. 3-5% pyrite.	286091	131.00	133.00	2.00	105
		133.00-134.00 Pervasive silica. Silica-carbonate-chlorite-	286092	133.00	134.00	1.00	385
		pyrite veinlets at 35 and 67 deg to core axis. Pyrite also	286093	134.00	135.00	1.00	530
		evenly disseminated. 5-7% pyrite.	286094	135.00	136.00	1.00	275
		134.00-135.00 0.5 cm quartz-carbonate-coarse grained pyrite	286095	136.00	138.00	2.00	90
		veinlet at 30 deg to core axis. 5-7% pyrite.	286096	138.00	140.00	2.00	50
		135.00-136.00 Strong silica over last half of interval.	286097	140.00	142.00	2.00	150

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HOLE No.: 98-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		5-7% pyrite.	286098	142.00	143.35	1.35	145
		136.00-138.00 Weak silica, weak sericite. 3-5% pyrite.	286099	143.35	144.70	1.35	140
		138.00-140.00 Hornblende phyric. Weak sericite, silica. 2 mm	286100	144.70	145.10	0.40	15
		bleb of chalcopyrite. 3-5% pyrite.	286101	145.10	147.00	1.90	135
		140.00-142.00 Weak pervasive sericite (light mottling green).	286102	147.00	147.60	0.60	550
		2-3% pyrite.	286103	147.60	149.10	1.50	190
		142.00-144.70 Weak silica. 2-3% pyrite.	286104	149.10	150.60	1.50	160
		144.70-145.10 Late quartz-carbonate vein at 58 deg to core axis.	286105	150.60	151.10	0.50	230
		145.10-147.00 Weak moderate silica. 2-3% pyrite.	286106	151.10	153.30	2.20	45
		147.00-147.60 Weak to moderate foliation defined by sericitic or chloritic micro fractures and seams at 64 deg to core axis. 2-3% pyrite.					
		147.60-149.10 Weak silica. 2-3% pyrite.					
		149.10-150.60 Siliceous patches, light green diffuse alteration (sericite +/- epidote). 2-3% pyrite.					
		150.60-151.10 Gradational change to mafic intrusive. Moderate pervasive carbonate. 1-2% pyrite.					
		151.10-153.30 Dark green mafic intrusive. Pitted - dissolved pyrite? 0.5-1% pyrite.					
153.30	180.55	**FELSIC VOLCANIC - MASSIVE CRYSTAL TUFF** Light grey	286107	153.30	154.70	1.40	55
		to medium grey with greenish tinge - epidote. Feldspar phyric,	286108	154.70	155.90	1.20	20
		30-35% 1-3 mm sub- to euhedral feldspar grains. Fine grained	286109	155.90	157.30	1.40	15
		matrix of quartz, feldspar, 10% mafic minerals. 1-2% felsic	286110	157.30	158.70	1.40	35
		fragments to 4-5 mm, locally 20 mm, with diffuse boundaries.	286111	158.70	159.15	0.45	15
		Unsorted. Notable for a lack of pervasive carbonate alteration.	286112	159.15	160.48	1.33	10
		1-3% disseminated pyrite throughout, locally higher	286113	160.48	162.45	1.97	20

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PROPERTY: East Cedartree
HOLE No.: 98-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		concentrations in veinlets.	286114	162.45	163.85	1.40	20
			286115	163.85	165.60	1.75	20
		153.30-154.70 Upper 20 cm silicified. 2-3% pyrite.	286116	165.60	166.90	1.30	15
		154.70-155.90 Silica-pyrite veinlet (6 mm) at 63 deg to core axis. 2-3% pyrite.	286117	166.90	168.15	1.25	10
			286118	168.15	169.40	1.25	10
		155.90-158.70 4 mm quartz-calcite veinlet at 13 deg to core axis. 14 mm grey sub-rounded fragment. 1-3% pyrite.	286119	169.40	171.20	1.80	20
			286120	171.20	172.70	1.50	65
			286121	172.70	174.20	1.50	NIL
		158.70-159.15 Mafic dyke. Medium green, fine grained. Relict hornblende phenocrysts, altered to chlorite-biotite. Strong pervasive carbonate alteration. Whitish blue quartz-calcite filled fractures at 54 and 37 deg to core axis. Irregular upper contact at 81 deg to core axis. 0.5 cm chill margins. Trace pyrite.	286122	174.20	175.70	1.50	10
			286123	175.70	177.20	1.50	10
			286124	177.20	178.85	1.65	10
			286125	178.85	180.55	1.70	5
		159.15-160.48 Two lapilli size felsic clasts. Weak pervasive carbonate and in micro fractures. 1-2% pyrite. At 160.15-160.30 intermediate dyke along core axis.					
		160.48-161.00 Dyke of intermediate composition, upper and lower contact irregular. Tr.-2% pyrite.					
		161.25-161.55 Dyke of intermediate composition, upper contact at 48 deg to core axis, lower contact irregular. Tr.-2% pyrite.					
		161.55-161.65 Dyke of mafic composition, upper contact at 38 deg to core axis, lower contact irregular. Tr.-2% pyrite.					

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HOLE No.: 98-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		161.65-162.45 Dyke of intermediate composition, upper and lower contact irregular, 20-48 deg to core axis. Tr.-2% pyrite. 162.45-163.85 Felsic volcanic, 2-4% pyrite. 163.85-164.05 Dyke of mafic composition, upper contact at 21 deg to core axis, sharp lower contact at 85 deg to core axis. 2-4% pyrite. 164.05-165.60 8 mm quartz-carbonate veinlet at 25 deg to core axis. 2-3% pyrite. 165.60-166.90 6 mm quartz-carbonate fracture at 12 deg to core axis. 2-3% pyrite. 166.90-168.15 Weak epidote, weak carbonatization, minor quart-carbonate fractures at shallow angles. 2-3% pyrite. 168.15-169.40 As 116.90-168.15. Fine grained disseminated pyrite, 2-3%. 169.40-171.20 Mafic dyke, quartz-carbonate fractures, 1 per 10 cm. 1-2% disseminated pyrite. Lower contact at 86 deg to core axis, upper contact at 76 deg to core axis. 171.20-172.70 Felsic volcanics, disappearance of epidote, weak silicification. 1-2% pyrite. 172.70-174.20 Moderate fracturing, quartz-carbonate-chlorite-pyrite hairline fractures. 2-3% pyrite. 174.20-177.20 As described.					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		177.20 Textural changes to coarser tuff. More leucocratic than above. Increasing epidote, less silicification. 177.20-178.85 As described. 177.55-177.65 Mafic dykelet, upper contact at 84 deg to core axis, lower contact at 77 deg to core axis. 178.85-180.55 As described. 179.32-179.43 Mafic dykelet, upper contact at 77 deg to core axis, lower contact at 77 deg to core axis. 180.17-180.25 Mafic dykelet, upper contact at 73 deg to core axis, lower contact at 72 deg to core axis.					
180.55	181.60	**INTERMEDIATE DYKE** Medium green, hornblende phyric and plagioclase, sub to euhedral grains. Strong pervasive interstitial carbonate.	286126	180.55	181.60	1.05	NIL

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
100.00	-45.00	155.00
171.00	-43.00	153.00

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-02
Collar Eastings: 2513.00
Collar Northings: 1422.00
Collar Elevation: 3.00
Grid: AVL 1997
NQ Core stored at Sioux Narrows

Collar Inclination: -45.00
Grid Bearing: 154.00
Final Depth: 117.60 metres
Drilled: Nov 12-13, 1998
Contractor: Bradley Bros.

Logged by: J.C. Pedersen
Date: Nov 1998
Down-hole Survey: Pajari
Logged: Nov 12-14, 1998
Claim: K 1178821

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
0	7.30	**CASING AND OVERBURDEN**					
7.30	30.75	**BRECCIATED FELSIC TUFF** Light to medium grey, fine to medium grained, strong brittle fracturing. Pervasive interstitial carbonatization, common to abundant calcite fractures. Moderate crenulation cleavage. Local weak silicification. Potassic/iron alteration down section. Fine to coarse grained disseminated pyrite throughout including irregular stringers, blebs and patches. Local chloritic alteration along fractures. Local fractured bleached lapilli. Calcite fracturing locally imparts weak stockwork/crackle breccia fabric. Minor local narrow quartz-calcite veins. Pyritic fractures/veins commonly parallel to subparallel with layering/bedding.	286601	7.30	9.00	1.70	150
			286602	9.00	11.00	2.00	560
			286603	11.00	13.00	2.00	40
			286604	13.00	14.05	1.05	35
			286605	14.05	14.43	0.38	7090
			286606	14.43	15.50	1.07	9900
			286607	15.50	16.55	1.05	13300
			286608	16.55	18.00	1.45	1600
			286609	18.00	19.92	1.92	570
			286610	19.92	22.00	2.08	550
			286611	22.00	24.00	2.00	200
			286612	24.00	26.00	2.00	1740
		Fractures: 27.50 m pyritic 55 deg to core axis. Late carbonate fractures 45 deg and subparallel to bedding.	286613	26.00	26.88	0.88	5410
			286614	26.88	27.55	0.67	3130
			286615	27.55	29.00	1.45	120
		Bedding: possible bedding at 19.0 m at 50 deg to core axis, at 24.1 m at 61 deg to core axis.	286616	29.00	30.75	1.75	5040
		7.30-9.00 Disseminated fine pyrite 1-2%, moderate calcite fracturing.					
		9.00-11.00 Minor fine stringers along cleavage planes. 2-3%					

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DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-02

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
		pyrite. 11.00-13.00 As above, minor chloritic alteration along fractures. 2-3% pyrite. 13.00-14.05 As above, possible bleached lapilli. 2-4% pyrite. 14.05-14.43 Pervasive coarse vermicular pyrite, intergrowths. 15-20% pyrite. 14.43-16.55 Local coarse pyrite patches and veinlets, less fine grained disseminated pyrite. Chloritic fractures. 8-10% pyrite. 16.55-18.00 As above, decrease in pyrite to 2-4%, fine disseminated. 18.00-19.92 Possible primary layering at 50 deg to core axis. Hematite along cleavage fractures. 2-4% pyrite. 19.92-22.00 Potassic alteration. Iron alteration along fractures. Strong fracturing. 2-4% pyrite. 22.00-26.88 Grey, fractured, very common fine calcite fractures with chlorite alteration. Fine disseminated pyrite, 3-5% and along fractures. 26.88-27.55 As above with several coarse pyrite, quartz-carbonate-pyrite stringers. Local sericite. 3-6% pyrite. 27.55-29.00 Decreased fracturing, no coarse pyrite. 2-4% pyrite. 29.00-30.75 Increased fracturing, coarser irregular calcite fracture fill. 2-4% disseminated pyrite. 10 cm quartz, quartz-feldspar veinlets proximal to contact.					
30.75	34.80	**HORNBLENDE GRANODIORITE** Altered contact zone. Diffuse contact. Dark grey-green, medium grained, strongly and pervasively carbonatized and chloritized. Abundant interstitial	286617 286618 286619	30.75 32.00 33.70	32.00 33.70 34.80	1.25 1.70 1.10	12450 770 45

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-02

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
		fine calcite and as irregular white patches and blebs to 5 mm. Unfoliated, moderately fractured, saussuritization of plagioclase. Local pinker feldspathic patches. Common disseminated fine to medium grained pyrite throughout, commonly well developed cubes. Local coarse patchy pyrite. Local quartz-carbonate veins. 30.75-32.00 Intense interstitial carbonate. Local coarse patchy pyrite, common fine disseminated pyrite, 3-5%. Quartz-carbonate veinlets. 32.00-33.70 Common pink patchy 'relict' granodiorite, strongly chloritized/carbonatized. Possible 2 cm shear at 32.70 at 50 deg to core axis. 2-4% Disseminated pyrite. 33.7-34.80 Dark green-grey massive, gabbroic appearance, intensely chloritized and carbonatized. Probable altered mafic cumulate in granodiorite. Lower 50 cm is completely altered, porous, chloritized with coarse pyrite cubes to 5 mm.					
34.80	117.60	**ALTERED GRANODIORITE - "FELSIC INTRUSIVE"** Abrupt transition/contact with mafic section. Medium grained, massive, strongly altered, light grey to pink. Common chloritized interstitial amphibole, 8-10%, decreasing down section. Grain size gradually decreasing down section. Pervasive disseminated pyrite throughout, fine to medium grained, locally along fine fractures. Pervasive fine interstitial calcite. Local shallow angle carbonate (calcite) fractures.	286620	34.80	36.00	1.20	480
			286621	36.00	38.00	2.00	300
			286622	38.00	40.00	2.00	1050
			286623	40.00	42.00	2.00	125
			286624	42.00	44.00	2.00	270
			286625	44.00	46.00	2.00	295
			286626	46.00	48.00	2.00	115
			286627	48.00	50.00	2.00	500
			286628	50.00	52.00	2.00	700

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
		34.80-38.00 Fine to coarse disseminated and patchy pyrite, 3-6%. Minor local sericite.	286629	52.00	54.00	2.00	1120
			286630	54.00	56.00	2.00	500
		38.00-40.00 As above. 10 cm white quartz-calcite vein with chlorite-ankerite-pyrite at lower contact. 3-6% pyrite.	286631	56.00	58.00	2.00	115
			286632	58.00	60.00	2.00	100
		40.00-42.00 As above. Feldspar imparts redder colour. 3-6% pyrite.	286633	60.00	62.00	2.00	310
			286634	62.00	64.00	2.00	30
		42.00-44.00 As above. Pyrite interstitial, fine-coarse grained, irregular patches. 3-6% pyrite.	286635	64.00	66.00	2.00	25
			286636	66.00	68.00	2.00	20
		44.00-46.00 As above. Fine carbonate stringers at 21 deg to core axis. 3-5% pyrite.	286637	68.00	70.00	2.00	10
			286638	70.00	72.00	2.00	20
		46.00-48.00 As above. Fine carbonate stringers at 21 deg to core axis, including minor conjugate sets. 3-5% pyrite.	286639	72.00	74.00	2.00	90
			286640	74.00	76.00	2.00	1260
		48.00-50.00 As above. Fine carbonate stringers at 21 deg to core axis. 2 cm quartz-carbonate vein at 48.35 m. 3-5% pyrite. Fine chlorite-pyrite stringers crosscut carbonate stringers at a high angle.	286641	76.00	78.00	2.00	340
			286642	78.00	80.00	2.00	450
			286643	80.00	80.95	0.95	4920
			286644	80.95	82.00	1.05	80
		50.00-52.00 As above. 5 mm wide pyritic veinlet. 10 cm quartz flooding at 50.50 m with sericite and coarse pyrite. Crenulation cleavage. 3-5% pyrite.	286645	82.00	84.00	2.00	60
			286646	84.00	86.00	2.00	30
			286647	86.00	88.00	2.00	40
			286648	88.00	90.00	2.00	1210
		52.00-66.00 Section becoming slightly finer grained, more leucocratic. Amphibole content minor, fine grained, interstitial, chloritized. Fine to coarse patchy granular pyrite ubiquitous as above, in concentrations varying from 3-7%.	286649	90.00	92.00	2.00	250
			286650	92.00	94.00	2.00	1560
			286651	94.00	96.00	2.00	18030
			286652	96.00	98.10	2.10	555
		52.00-54.00 As above. 3-7% pyrite.	286653	98.10	100.00	1.90	1560
		54.00-56.00 As above. 4-6% pyrite.	286654	100.00	101.20	1.20	15
		56.00-60.00 As above. 4-7% pyrite.	286655	101.20	102.60	1.40	115
		60.00-62.00 As above. 2 mm pyrite stringers at 60.90-61.10.	286656	102.60	104.00	1.40	165

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		4-7% pyrite.	286657	104.00	106.00	2.00	55
		62.00-66.00 As above. 4-7% pyrite.	286658	106.00	108.00	2.00	1600
		66.00-70.00 As above. Quartz flooding locally throughout as quartz, quartz-calcite veinlets 5-8 mm wide, with increasing pyrite. 5-8% pyrite.	286659	108.00	109.10	1.10	425
			286660	109.10	110.50	1.40	615
			286661	110.50	112.00	1.50	730
		70.00-72.00 Increasingly leucocratic, homogeneous, quartz-carbonate fractures subparallel to core axis. 3-6% pyrite.	286662	112.00	114.00	2.00	3250
			286663	114.00	116.00	2.00	865
		72.00-74.00 As above. Quartz tension fractures sub parallel to core axis. 3-6% pyrite.	286664	116.00	117.60	1.60	1280
		74.00-76.00 Increasing interstitial and patchy sericite. Local quartz flooding with associated pyrite and sericite. 3-6% pyrite.					
		76.00-78.00 As above. Quartz-sericite flooding at 76.50-76.60 and increasing at bottom of section. 3-6% pyrite.					
		78.00-80.00 As above. Quartz-carbonate veins crosscut fine pyrite-chlorite stringers. 3-6% pyrite.					
		80.00-80.95 Highly siliceous and sericitic, with narrow dark sericite-chlorite-pyrite fractures at 50 deg to core axis with narrow bleached aureoles. 3-6% pyrite.					
		80.95-84.00 As above with no coarse quartz-sericite sections. 3-5% pyrite.					
		84.00-86.00 As above, increasing fine conjugate carbonate fractures, mainly trending at shallow angle to core axis. 3-5% pyrite.					
		After approximately 85.0 m, becoming finer grained. Homogeneous light green, grey, massive. Local weak foliation. Generally moderately sericitized, minor to moderate carbonate fractures.					

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb

Commonly resembles crystal tuff. Pyrite disseminated and ubiquitous, locally in fine stringers and coarser patches. Pyrite average 4-6% throughout.

94.00-96.00 Quartz flooding with several flecks of visible gold.

98.01-101.20 Chloritic alteration, darker fine grained, homogenous. Decrease in pyrite 1-3%.

101.20-102.6 Sericitized shear zone. Intense foliation, chloritic, sericitic, minor disseminated pyrite. Resembles sericitized felsic tuff, probably sheared, highly altered intrusive. Foliation at 44 deg to core axis.

After shear zone, section becomes slightly more yellow-green as sericite development increases, with strong sericitization beginning at 109.1 m and very strong sericitization after 110.5 m. Pyrite occurs as fine to coarse disseminated grains and blebs. Locally common pyritic fractures, zone displays increasing moderate fracturing down hole.

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
107.00	-44.00	155.00

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-03
Collar Eastings: 2485.00
Collar Northings: 1482.00
Collar Elevation: 5.00
Grid: AVL 1997
NQ Core stored at Sioux Narrows

Collar Inclination: -45.00
Grid Bearing: 150.00
Final Depth: 105.40 metres
Drilled: Nov 13-14, 1998
Contractor: Bradley Bros.

Logged by: I. Campbell
Date: Nov 1998
Down-hole Survey: Pajari
Logged: Nov 13-15, 1998
Claim: K1178821

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
0	3.00	**CASING AND OVERBURDEN**					
3.00	41.30	**FELSIC VOLCANIC, ALTERED - FINE GRAINED MASSIVE TUFF** Light to medium grey colour, light green. Massive, generally unfoliated. Equigranular, mosaic texture. Fine grained to aphanitic, fine grained varieties have tiny feldspar phenocrysts and locally tiny quartz phenocrysts. Variably carbonatized - interstitial calcite and within fractures. Patchy alteration throughout - light green in colour; locally forms irregular and diffuse patches and sometimes looks like spherulites but isn't. Note: Sampling by alteration types - suspect it reflects lithological controls. 3.00-4.95 Weak sericitic development - creates weak foliation at 66 deg to core axis. Sericite forms anastomosing network. Tr. pyrite. 4.95-7.05 Moderate patchy altered section, slightly coarser grained. 2 cm clast. Alteration more pervasive due to coarser nature of matrix. Granular texture. Sharp lower contact at 56 deg to core axis. Tr. pyrite. 7.05-8.55 Homogeneous light grey. Weak colour changes. Possible bedding at 31 deg to core axis. Tr.-0.5% pyrite. 8.55-9.27 Stronger patchy and interstitial light green	286127	3.00	4.95	1.95	NIL
			286128	4.95	7.05	2.10	NIL
			286129	7.05	8.55	1.50	5
			286130	8.55	9.27	0.72	NIL
			286131	9.27	10.37	1.10	NIL
			286132	10.37	11.99	1.62	NIL
			286133	11.99	13.50	1.51	NIL
			286134	13.50	15.00	1.50	NIL
			286135	15.00	16.50	1.50	NIL
			286136	16.50	17.30	0.80	10
			286137	17.30	18.60	1.30	5
			286138	18.60	19.90	1.30	110
			286139	19.90	21.20	1.30	120
			286140	21.20	22.50	1.30	10
			286141	22.50	23.80	1.30	60
			286142	23.80	24.75	0.95	30
			286143	24.75	26.05	1.30	55
			286144	26.05	27.35	1.30	NIL
			286145	27.35	28.70	1.35	NIL
			286146	28.70	29.80	1.10	NIL
			286147	29.80	30.62	0.82	NIL

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HOLE No.: 98-03

FROM	TO	LITHOLOGICAL DESCRIPTION
		alteration. Unit slightly more coarser grained and quartz and feldspar phenocrysts. Tr. pyrite.
		9.27-10.37 As 7.05-8.55. Tr. pyrite.
		10.37-11.99 As 9.27-10.37. 0.5% pyrite.
		11.99-13.50 1 cm quartz silicification with chlorite at 58 deg to core axis. 5% interstitial biotite. 0.5-1% pyrite.
		13.50-15.00 Weak cm scale banding at 61 deg to core axis. Chlorite alteration rimming quartz and feldspar grains. Pyrite very fine grained and interstitial. 0.5% pyrite.
		15.00-16.50 As 13.50-16.50. Very weak mottling. Possible bedding at 57 deg to core axis. 0.5% pyrite.
		16.50-17.30 As 15.00-16.50. 2 cm quartz-carbonate veinlet at 70 deg to core axis. Chlorite-pyrite rim. Tr.-0.5% pyrite.
		17.30-18.60 Begin weak mottling texture (green). Lower 30 cm several quartz-carbonate chlorite rimmed veinlets at 48 deg to core axis. Tr.-0.5% pyrite.
		18.60-19.90 Slightly stronger mottling (light grey). Lower 50 cm has increased quartz-carbonate veinlets at 72 to 58 deg to core axis. Weak interstitial carbonate/calcite. Tr.-0.5% pyrite.
		19.90-21.20 Slightly less mottling than above. Tr.-0.5% pyrite.
		21.20-23.80 Increased mottling. 20 cm abundant carbonate-epidote fractures at all orientations. Tr.-0.5% pyrite.
		23.80-24.75 No mottling. Hairline carbonate fractures at various angles. Tr.-0.5% pyrite.
		24.75-26.05 Weak mottling. 30 cm moderate bleaching - silicification, strong pervasive carbonate. Tr.-0.5% pyrite.
		26.05-27.35 Weak pervasive green mottling. Tr.-0.5% pyrite.

		ASSAYS			
SAMPLE No.	FROM	TO	WIDTH	Au ppb
286148	30.62	31.20	0.58	12820
286149	31.20	32.20	1.00	35
286150	32.20	33.20	1.00	70
286151	33.20	34.40	1.20	60
286152	34.40	35.90	1.50	35
286153	35.90	37.00	1.10	55
286154	37.00	38.20	1.20	35
286155	38.20	39.05	0.85	35
286156	39.05	39.50	0.45	NIL
286157	39.50	40.75	1.25	NIL
286158	40.75	41.00	0.25	2080
286159	41.00	41.30	0.30	5

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DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		27.35-28.70 Very weak mottling. Tr.-0.5% pyrite. 28.70-29.80 As 26.05-27.35. Tr.-0.5% pyrite. 29.80-34.40 Begin strong grey mottling - silicification. Also strong pervasive carbonate. Grey bleaching pervasive and mottled. Alteration ends at 34.40. 29.80-30.62 Strong grey mottled texture, bleached light grey to white colour. Tr.-0.5% pyrite. 30.62-31.20 Siliceous grey quartz-carbonate at 49 deg to core axis, with pyrite. Section weak to moderate silicification with strong micro fracturing. Possible sphalerite. 2-3% pyrite. 31.20-32.20 Strong bleaching. 2 cm carbonate fault (?) 80 deg to core axis with angular wallrock fragments. 0.5-1% pyrite. 32.20-33.20 As above. Much less brecciation. 0.5-1% pyrite. 33.20-34.40 As above. Less bleaching. 0.5-1% pyrite. 34.40-35.90 Fine grained tuff. Weak chloritic alteration. 0.5-1% pyrite. 35.90-37.00 Weak silicification, chlorite. 0.5-1% pyrite. 37.00-38.20 As 35.90-37.00. Possible contact at end of interval at 43 deg to core axis between fine grained tuff and medium grained tuff. 0.5-1% pyrite. 38.20-39.05 Weak silicification, 20 cm quartz-carbonate fracturing at all angles to core axis emanate off fracture at 43 deg to core axis. 0.5-1% pyrite. 39.05-39.50 Aphanitic, silicified, moderately fractured. Tr. pyrite. 39.50-40.75 Weak foliation, chlorite wisps. Fine grained biotite to 10%. Tr.-0.5% pyrite.					

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
		40.75-41.00 Strong silicification - flood. 2 cm quartz vein at 66 deg to core axis and fine grained visible gold adjacent to vein margin not with pyrite. Pyrite and possible fine grained sphalerite as well. 0.5-1% pyrite. Visible gold. 41.00-41.30 Fine grained tuff, silicified. Tr. pyrite.					
41.30	42.80	**CHERTY TUFF, CHERT** Medium dark brown-grey. Thin to 0.5 cm laminae at 54 deg to core axis and second set along core axis. Quite bizarre. I believe the second set is a secondary feature. Tuffaceous laminae strong pervasive carbonate (54 deg set). Bedding at 54 deg to core axis. Weakly fractured. Unit seems disrupted. 41.30-42.05 As described. Tr. pyrite. 42.05-42.80 Tr.-0.5% pyrite.	286160 286161	41.30 42.05	42.05 42.80	0.75 0.75	5 NIL
42.80	49.25	**FELSIC TUFF - FINE GRAINED** As previously described. Medium grey-green. Massive, unfoliated, variably altered. Pervasive interstitial calcite. 42.80-45.60 Weak silicification, minor mm scale quartz-carbonate veinlets. Banding at 62 deg to core axis. 0.5-1% pyrite. 45.60-46.40 Moderate silicification, light grey colour. Sericitic, weak chlorite. Tr.-0.5% pyrite. 46.40-46.70 Several 0.5 cm scale quartz-carbonate-chlorite	286162 286163 286164 286165 286166 286167 286168 286169	42.80 44.20 45.60 46.40 46.70 47.55 48.15 48.60	44.20 45.60 46.40 46.70 47.55 48.15 48.60 49.25	1.40 1.40 0.80 0.30 0.85 0.60 0.45 0.65	NIL NIL 25 520 175 440 40320 745

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		veinlets. Disseminated pyrite 0.5-1%. Looks similar to visible gold alteration at 48.15-48.60. 46.70-47.55 Several 1-5 mm quartz veinlets at 60 deg to core axis, seams of pyrite. Reddish hematite along some fractures. Weakly brecciated. 1-1.5% pyrite. 47.55-48.15 Weak chlorite, biotite, silica throughout. 48.15-48.60 Moderate pervasive silicification. Quartz-carbonate veinlets at 65 deg to core axis. Visible gold coarse flake 2 mm in quartz at 48.26 m and 48.46 m. Visible gold several fine grained pinhead style in silicified matrix. Visible gold along rim of darker (fine grained biotite?) patch at 48.52 m. 1-1.5% pyrite. Visible gold. Note: Visible gold associated with quartz-carbonate-chlorite veinlets and pervasive alteration, also weak biotite. 48.60-49.25 Weak pervasive quartz-carbonate-silica, no veinlets.					
49.25	52.10	**MIXED CHERT AND FINE GRAINED TUFF - DEBRIS FLOW** Intercalated cherty beds, blocks at various angles. Both units as previously described. Cherty blocks at 49.25-49.37 (brecciated brittle fracturing), 49.49-49.75, 50.69-51.00. 49.25-52.10 As described. 0.5% pyrite. At 51.22 m, bedding at 68 deg to core axis.	286170 286171	49.25 50.70	50.70 52.10	1.45 1.40	1550 10
52.10	104.40	**FELSIC PYROCLASTIC - TUFF BRECCIA MEDIUM TO COARSE** Matrix very similar to previous units - fine grained equigranular,	286172 286173	52.10 53.60	53.60 55.10	1.50 1.50	NIL 15

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DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		mosaic texture. Dark to medium green colour. 10-20% fragments of various composition and sizes, usually subrounded. Fragments usually feldspar porphyritic 0.2 to several cm in diameter. Some fragments medium grey and cherty. Unsorted. Very weak carbonatization in matrix to nil. Increasing fragment size down hole.	286174	55.10	56.60	1.50	NIL
			286175	56.60	57.90	1.30	10
			286176	57.90	59.45	1.55	25
			286177	59.45	59.95	0.50	65
			286178	59.95	61.00	1.05	150
			286179	61.00	62.50	1.50	65
			286180	62.50	64.00	1.50	750
		52.10-53.60 Weak chlorite defines weak foliation. Bedding/ foliation at 57 deg to core axis. 0.5-1% pyrite.	286181	64.00	65.50	1.50	120
			286182	65.50	67.00	1.50	40
		53.60-55.10 Minor quartz-carbonate chlorite veinlets. 0.5-1% pyrite.	286183	67.00	68.50	1.50	70
			286184	68.50	70.00	1.50	215
		55.10-56.60 Feldspar phyric 15-20% clasts.	286185	70.00	71.50	1.50	485
		56.60-57.90 As described.	286186	71.50	73.00	1.50	135
		57.90-59.45 Weak chlorite-sericite alteration of matrix.	286187	73.00	74.50	1.50	25
			286188	74.50	76.00	1.50	35
		59.45-59.95 Granodiorite dyke. Green spotted, whitish green-grey colour. 15-20% green spots - chlorite/biotite altered hornblende phenocrysts define weak foliation at 53 deg to core axis. 40% feldspar grains. Aphanitic matrix. 0.5% pyrite.	286189	76.00	77.50	1.50	40
			286190	77.50	79.00	1.50	215
			286191	79.00	80.50	1.50	15
			286192	80.50	83.00	2.50	35
			286193	83.00	85.00	2.00	50
		59.55-61.00 As described. 0.5% pyrite.	286194	85.00	87.00	2.00	850
		61.00-64.00 Fine grained homogeneous section - massive bed. 0.5% pyrite.	286195	87.00	89.00	2.00	10
			286196	89.00	91.00	2.00	290
		64.00-65.50 Coarse, unsorted, reworked pyroclastic, no bedding. 0.5-1% pyrite.	286197	91.00	93.00	2.00	260
			286198	93.00	95.00	2.00	10
		65.50-76.00 Coarse, unsorted, reworked pyroclastic, no bedding. Tr.-0.5% pyrite. At 67.00 m start of increasing sericite, chlorite alteration in matrix and in fine grained beds.	286199	95.00	97.00	2.00	15
			286200	97.00	99.00	2.00	15
			286201	99.00	101.00	2.00	10

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
		76.00-77.50 As above. Minor fracturing. Fractures calcite with pyrite. Tr.-0.5% pyrite. 77.50-80.50 As above. Coarse grained, fragments to several cm. Tr.-0.5% pyrite. 80.50-83.00 Fine grained disseminated euhedral pyrite, weak sericite. Tr.-0.5% pyrite. 83.00-87.00 2 cm quartz-carbonate-chlorite veinlet. 0.5-1% pyrite. 87.00-89.00 Coarse grained, fragments to 10s of cm. 0.5-1% pyrite. 89.00-91.00 Patchy light grey - irregular and diffuse. 0.5-1% pyrite. 91.00-93.00 Fine grained matrix predominates, diffuse light green patchy alteration. 0.5-1% pyrite. 93.00-97.00 As above. Weak interstitial calcite. Tr.-0.5% pyrite. 97.00-99.00 15 cm fine grained feldspar porphyry dykelet with contacts at 85 deg to core axis. Tr.-0.5% pyrite. 99.00-101.00 26 cm fine grained feldspar porphyry dykelet - granodiorite (hornblende). Tr.-0.5% pyrite. 101.00-104.40 Medium grained. Tr.-0.5% pyrite.	286202 286203	101.00 103.00	103.00 104.40	2.00 1.40	5 15
104.40	105.40	**HORNBLENDE GRANODIORITE - FELSIC INTRUSIVE** Mafic contact for first 30-40 cm. Gradational to hornblende porphyritic. 2-3% pyrite.	286204	104.40	105.40	1.00	165

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
100.00	-45.00	150.00

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-04
Collar Eastings: 2580.00
Collar Northings: 1500.00
Collar Elevation: 10.00
Grid: AVL 1997
NQ core stored at Sioux Narrows

Collar Inclination: -45.00
Grid Bearing: 160.00
Final Depth: 123.70 metres
Drilled: Nov 14-15, 1998
Contractor: Bradley Bros.

Logged by: I. Campbell
Date: Nov 1998
Down-hole Survey: Pajari
Logged: Nov 15-17, 1998
Claim: K 1178821

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
0	3.00	**CASING AND OVERBURDEN**					
3.00	32.59	**FELSIC TUFF - FINE GRAINED** Light grey, green colour. Aphanitic to fine grained matrix. Massive to very weak foliation. Occasional tiny 1 mm quartz phenocrysts. Patchy light green alteration forms diffuse, mosaic pattern, probably sericite. Weak to moderate interstitial calcite throughout. Fine grained disseminated pyrite, sometimes forms perfect euhedral crystals. Weak calcite fracturing throughout, at various angles to core axis.	286205	3.00	5.65	2.65	5
			286206	5.65	6.24	0.59	20
			286207	6.24	7.02	0.78	10
			286208	7.02	8.57	1.55	NIL
			286209	8.57	9.20	0.63	1270
			286210	9.20	10.35	1.15	2200
			286211	10.35	11.85	1.50	35
			286212	11.85	12.90	1.05	20
			286213	12.90	14.00	1.10	35
		3.00-5.65 Mostly broken core (1-5 m only). Moderate carbonate. Reddish hematite on fractures. Tr.-0.5% pyrite.	286214	14.00	15.50	1.50	250
			286215	15.50	16.40	0.90	65
		5.65-6.24 Patchy light green alteration, weak fine grained biotite/chlorite, strong calcite. Tr. pyrite.	286216	16.40	17.30	0.90	50
			286217	17.30	18.60	1.30	20
		6.24-7.02 Moderately altered. Foliation at 59 deg to core axis defined by sericite slips - light green colour. Moderate quartz-carbonate-chlorite fractures crosscut sericitic slips. Gives appearance of previous brecciation overprinted by alteration. Biotite patches. 0.5% pyrite.	286218	18.60	20.03	1.43	NIL
			286219	20.03	21.00	0.97	520
			286220	21.00	21.60	0.60	65
			286221	21.60	22.28	0.68	225
			286222	22.28	23.05	0.77	1470
		7.02-8.57 Similar to 6.24-7.02 but less altered. 4 cm quartz-chlorite-carbonate band at 69 deg to core axis. 0.5% pyrite.	286223	23.05	23.80	0.75	1790
			286224	23.80	24.70	0.90	20
		8.57-9.20 Bleached light grey color. Quartz micro veinlets.	286225	24.70	25.70	1.00	15

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-04

FROM	TO	LITHOLOGICAL DESCRIPTION
		Strong interstitial calcite. Tr.-0.5% pyrite.
		9.20-10.35 Numerous biotite-chlorite <1 mm alteration veinlets define a foliation at 59 deg to core axis. Thin pyrite stringers. Lower half is moderately fractured. 0.5-1% pyrite.
		10.35-12.90 Less bleached. Patchy grey weak fracturing - calcite filled at various angles to core axis. Tr.-0.5% pyrite.
		12.90-14.00 Broken core/fault?? 0.5 m in box, lost 0.5 m. Hematite on rubble faces. Tr. pyrite.
		14.00-15.50 Weak bleaching over 20 cm. 3 cm quartz-carbonate-chlorite veinlet at 49 deg to core axis at 14.37 m. 0.5% pyrite.
		15.50-16.40 Quartz-carbonate-chlorite veinlets on mm scale at 15.55 m at 56 deg to core axis, 15.67-15.90 at 51 deg to core axis, 16.36 m at 49 deg to core axis. Foliated, chlorite alteration. 0.5-1% pyrite.
		16.40-17.30 Weak to moderate bleaching. At 17.28 m quartz-carbonate veinlet 4 mm at 56 deg to core axis. Also at 17.60 m, 17.13 m. Matrix weakly chloritized. 0.5-1% pyrite.
		17.30-20.03 Matrix chloritic - weak foliation. Possible tourmaline on cleavage face. Tr.-0.5% pyrite.
		20.03-21.00 Several 0.5-3 mm black quartz veinlets, at various degrees but most commonly at 45 to 55 deg to core axis. Brecciated appearance, weakly chloritized, strong pervasive calcite. Tr.-0.5% pyrite.
		21.00-21.60 Strongly bleached, similar to 20.03-21.00 only higher density of quartz veinlets, pyrite-chlorite rimmed. 0.5-1% pyrite.
		21.60-22.28 As above, higher density black quartz veinlets, generally at 60 deg to core axis. 0.5-1% pyrite.

	ASSAYS			
SAMPLE No.	FROM	TO	WIDTH	Au ppb
286226	25.70	26.20	0.50	110
286227	26.20	27.20	1.00	65
286228	27.20	28.20	1.00	20
286229	28.20	28.80	0.60	60
286230	28.80	29.70	0.90	40
286231	29.70	30.50	0.80	20
286232	30.50	31.85	1.35	60
286233	31.85	32.59	0.74	155

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-04

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		22.28-23.05 Brecciated, reddish tinge. Grey quartz veinlets, chloritic. Foliation at 59 deg to core axis. 0.5-1% pyrite. 23.05-23.80 As 22.28-23.05, hematite staining on fractures. 23.80-24.70 Less brecciated, chloritic weak foliation, lower density of veins. Tr.-0.5% pyrite. 24.70-25.70 Less altered. Tr.-0.5% pyrite. 25.70-26.20 Brecciated, chloritic, several grey quartz veinlets. Fine grained visible gold associated with ones generally 45 to 60 deg to core axis, within the pyrite as pinheads. 0.5-1.5% pyrite. Visible gold. 26.20-32.59 Pervasive alteration but much less veinlets grey quartz with carbonate-chlorite - related to contact??? 26.20-27.20 Less brecciated, weakly chloritic, late brittle fractures chlorite-calcite-quartz. 0.5% pyrite. 27.20-28.20 As 26.20-27.20, slight reddish alteration. 0.5% pyrite. 28.20-29.70 Stronger chlorite-sericite alteration - weak foliation at 57 to 58 deg to core axis. 0.5% pyrite. 29.70-30.50 Less altered. Minor late brittle fracturing, 1 cm quartz-carbonate-chlorite at 31 deg to core axis. 0.5% pyrite. 30.50-31.85 Reddish tinge - hematite 20 cm chloritic foliated zone. 0.5% pyrite. 31.85-32.59 Moderate chloritization.					
32.59	123.70	**FELSIC INTRUSIVE** Medium grained. 0.5-50% disseminated pyrite throughout. Hornblende porphyritic, 5-15% hornblende, feldspar porphyritic. Moderately carbonatized -	286234	32.59	34.20	1.61	160
			286235	34.20	35.20	1.00	3680
			286236	35.20	37.35	2.15	50

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		interstitial calcite.	286237	37.35	38.55	1.20	105
			286238	38.55	39.65	1.10	175
		32.59-34.20 As described. 2-3% pyrite.	286239	39.65	41.50	1.85	100
		34.20-38.55 More mafic composition, lower contact at 46 deg to	286240	41.50	43.00	1.50	170
		core axis at 39.03 m.	286241	43.00	44.50	1.50	220
		34.20-35.20 Contact, strong foliation at 47 deg to core axis.	286242	44.50	46.00	1.50	620
		Pyrite-chlorite-carbonate veinlets parallel to foliation.	286243	46.00	47.50	1.50	70
		0.5-1% pyrite.	286244	47.50	49.00	1.50	220
		35.20-37.35 25-35% altered hornblende, coarse grained.	286245	49.00	50.50	1.50	205
		0.5-1% pyrite.	286246	50.50	52.00	1.50	175
		37.35-38.55 Granitic sections with coarse hornblende to 1 cm.	286247	52.00	53.50	1.50	570
		0.5% pyrite.	286248	53.50	55.50	2.00	500
		38.55-39.65 Much less hornblende, minor quartz - black micro	286249	55.50	57.50	2.00	480
		fracturing, weak sericitization of matrix. 2-3% pyrite.	286250	57.50	59.50	2.00	20
		39.65-41.50 Equigranular. Trace hornblende phenocrysts.	286251	59.50	61.50	2.00	170
		Feldspar porphyritic 1 mm. Weak sericite. 2-3% pyrite.	286252	61.50	62.95	1.45	115
		41.50-44.50 As 39.65-41.50 Pinkish tinge. 0.5 cm pyrite band	286253	62.95	64.05	1.10	730
		at 42.95 m, pinkish halo. 1-2% pyrite.	286254	64.05	65.80	1.75	90
		44.50-46.00 As above, 10 cm pinkish altered section emanating	286255	65.80	67.20	1.40	310
		from 1 cm quartz vein at 44.90 m at 55 deg to core axis. 1-2%	286256	67.20	67.80	0.60	250
		pyrite.	286257	67.80	68.87	1.07	65
		46.00-47.50 1 cm quartz vein at 13 deg to core axis at 47.20-	286258	68.87	69.95	1.08	195
		47.50. Weak sericite, calcite interstitial. 1-2% pyrite.	286259	69.95	71.90	1.95	170
		47.50-55.50.. Slight pinkish grey tinge throughout. Intrusive	286401	71.90	72.90	1.00	425
		with fine grained here (looks like a tuff locally).	286402	72.90	74.90	2.00	50
		47.50-49.00 Pyrite disseminated and in veinlets. 2-4% pyrite.	286403	74.90	76.70	1.80	120
		49.00-50.50 Patchy pinkish alteration, weak silicification with	286404	76.70	76.90	0.20	450
		grey-black micro veinlets generally at 60 deg to core axis.	286405	76.90	78.50	1.60	30

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-04

FROM	TO	LITHOLOGICAL DESCRIPTION
		1-3% pyrite.
		50.50-52.00 Slight increase in altered hornblende (chloritized).
		1-3% pyrite.
		52.00-53.50 Bleaching around micro fractures. 1-3% pyrite in veinlets and disseminated.
		53.50-55.50 At 54.45 mafic dykelet moderately foliated locally (altered hornblende) 64 deg to core axis. Upper contact at 41 deg to core axis, lower contact at 55 deg to core axis. Mafic dyke (foliated) from 54.85-55.09 m. 1-3% pyrite.
		55.50-57.50 Increased pyrite veinlets (euhedral crystals), weakly brecciated, strong sericite along fractures. Quartz sweats 58-72 deg to core axis with alteration halo to several cm (potassic) - banding appearance. 2-4% pyrite. Pyrite veinlets preferred orientation seem to be 55 to 75 deg to core axis.
		57.50-59.50 Homogeneous light pink grey colour. Brittle fracturing. 1-2% pyrite.
		59.50-62.95 As above. 0.5-1% pyrite.
		62.95-64.05 Altered zone with increased foliation - sericite - fault zone? Increased fracture controlled sericite, 1 cm quartz vein at 63.75 m at 20 deg to core axis. 0.5-1% pyrite.
		64.05-65.80 Increased foliation due to increased sericite alteration - light green alteration becoming pervasive (may have lost some core here). Foliation at 38 deg to core axis. Ground core (fault?) Tr.-0.5% pyrite.
		65.80-67.20 Increased bleaching, sericitic alteration, fine grained disseminated pyrite 0.5-1%.
		67.20-67.80 Numerous barren looking irregular quartz veins.

	ASSAYS			
SAMPLE No.	FROM	TO	WIDTH	Au ppb
286406	78.50	80.50	2.00	45
286407	80.50	82.50	2.00	30
286408	82.50	84.10	1.60	440
286409	84.10	86.05	1.95	10
286410	86.05	86.70	0.65	1970
286411	86.70	88.30	1.60	10
286260	88.30	90.20	1.90	175
286261	90.20	92.95	2.75	3720
286262	92.95	94.30	1.35	100
286263	94.30	95.85	1.55	55
286264	95.85	96.80	0.95	340
286265	96.80	98.40	1.60	65
286266	98.40	100.00	1.60	45
286267	100.00	101.60	1.60	135
286268	101.60	103.20	1.60	540
286362	103.20	106.41	3.21	60
286269	106.41	108.20	1.79	2340
286270	108.20	110.00	1.80	1180
286271	110.00	112.00	2.00	310
286272	112.00	114.00	2.00	325
286273	114.00	116.00	2.00	2430
286274	116.00	118.00	2.00	1070
286275	118.00	120.00	2.00	605
286276	120.00	122.05	2.05	110
286412	122.05	123.70	1.65	55

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
HOLE No.: 98-04

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		Bleached light green matrix. 0.5-1.5% pyrite. 67.80-68.87 Less pervasive sericite. 1-3% pyrite. 68.87-69.95 Mafic dyke, altered at top - strong bleaching. Upper contact at 33 deg to core axis. 2-3% pyrite. More mafic Down interval with stronger foliation at 51 deg to core axis. Tiny quartz veinlet across foliation shows ptygmatic folding. 69.95-71.90 Foliation at 48 deg to core axis. Defined by chlorite altered hornblende. Sericite-carbonate (calcite) is pervasive and replaces fine grained matrix bearing feldspar and quartz phenocrysts. Hornblendes are replaced by chlorite +/- biotite (fine grained, s black). Pyrite seems to come in with sericite-calcite alteration as it is interstitial/pyrite veinlets possibly later. At 71.90 end routine sampling and begin representative sampling. Homogeneous grey, grey-pink intrusive. Unfoliated, massive medium grained. Calcite fractures locally. Moderate pervasive interstitial calcite throughout. 5-10% hornblende. 2-3% disseminated and veinlet pyrite (euhedral crystals). Sulphides seem to increase with decreasing hornblende content. Sulphide concentration increases with alteration. 71.90-72.90 Chloritic/weak foliation. 72.90-74.90 Massive. 74.90-76.70 Massive. 76.70-76.90 2 cm quartz sweat at 45 deg to core axis. 76.90-78.50 Weak bleaching.					

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au ppb
		78.50-80.50 Massive. 80.50-82.50 Increased chloritization. 82.50-84.10 Strong chloritization. 84.55 1 cm quartz vein at 32 deg to core axis. 86.05-86.70 Bleached/banded at 45 deg to core axis. 87.70-93.20 Bleached zone with sericite development. 88.30-90.20 2-3% pyrite. 88.15-88.65 Bleaching in bands at 51 deg to core axis. 92.35-92.95 Stronger foliation at 18 deg to core axis - sericite slips. Light green colour. Quartz vein in centre of zone - possible fault, pyrite in veinlets and interstitial association with biotite-chlorite (replacing hornblende). 2-4% pyrite. 92.95-95.85 Weak sericite, carbonatization of matrix. 15% hornblende (chlorite). 2-3% pyrite. 95.85-96.80 Stronger sericite-carbonate. Weak fine grained biotite. 2-4% pyrite. 96.80-100.00 Less altered. Granitic appearance. 1-2% pyrite. 100.00-101.60 As above, with increased pyrite 2-4%. 101.60-103.20 Increased pyrite 4-5%, coarsening grain size. 103.20-106.41 Mafic dyke. Strongly chloritized upper contact at 78 deg to core axis. Lower contact diffuse, chloritized. 106.41-110.00 Strongly bleached, silicified, pervasive light grey-green, further down section seen as fracture haloes. 3-5% pyrite. 110.00-114.00 Weak moderate sericite-carbonate. 2-4% pyrite.					

Avalon Ventures Ltd.

DIAMOND DRILL LOG

PROPERTY: East Cedartree
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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au ppb
		114.00-116.00 Increased pyrite veinlets. 3-5% pyrite. 116.00-118.00 appearance of hornblende. Quartz vein at 117.17-117.55 with upper and lower contact at 32 deg to core axis. 1-3% pyrite. 118.00-122.05 As described. 1-3% pyrite. 122.05-123.70 Mafic dyke.					

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
110.00	-46.00	157.00

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: AVALON VENTURES LTD. *

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project: DUBENSKI
Comments: ATTN: IAN CAMPBELL

QC Page #: 1
Tot QC Pg: 1
Date: 23-NOV-1998
Invoice #: I9836313
P.O. #: OPJ

QC DATA OF CERTIFICATE A9836313

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA
AY-97	Std2	1	590
AY-97	Std2	2	610
AY-97	Std2	3	705
CHEMEX MEAN	---	---	639
BL-T	Blnk	1	< 5
BL-T	Blnk	2	< 5
BL-T	Blnk	3	< 5
CHEMEX MEAN	---	---	< 5
PL-97	Std1	1	215
PL-97	Std1	2	230
PL-97	Std1	3	230
PL-97	Std1	4	225
CHEMEX MEAN	---	---	237
N286001	Dup	1-01	15
	Orig	1-01	20
N286041	Dup	2-01	15
	Orig	2-01	20
N286081	Dup	3-01	55
	Orig	3-01	50

52F05SW2011 2.20073 DOGPAW LAKE 050

CERTIFICATION: Adriana Alexandru

Chemex Labs Ltd.

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A9836313

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CERTIFICATE A9836313

(OPJ) - AVALON VENTURES LTD.

Project: DUBENSKI
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 23-NOV-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	126	Geochem ring to approx 150 mesh
226	73	0-3 Kg crush and split
294	53	4-7 Kg crush and split
3202	126	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	126	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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Page Number :1
Total Pages :4
Certificate Date: 23-NOV-1998
Invoice No. :I9836313
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836313

SAMPLE	PREP CODE		Au ppb FA+AA
N286001	205	226	20
N286002	205	294	15
N286003	205	226	40
N286004	205	294	1410
N286005	205	294	50
N286006	205	226	50
N286007	205	226	120
N286008	205	226	55
N286009	205	226	85
N286010	205	294	35
N286011	205	226	45
N286012	205	226	25
N286013	205	226	< 5
N286014	205	294	< 5
N286015	205	226	80
N286016	205	226	< 5
N286017	205	294	260
N286018	205	226	10
N286019	205	226	15
N286020	205	226	< 5
N286021	205	226	570
N286022	205	226	5
N286023	205	226	15
N286024	205	226	60
N286025	205	226	< 5
N286026	205	226	30
N286027	205	226	50
N286028	205	226	165
N286029	205	226	5
N286030	205	226	20
N286031	205	226	25
N286032	205	226	50
N286033	205	226	175
N286034	205	226	310
N286035	205	226	70
N286036	205	226	115
N286037	205	226	170
N286038	205	226	35
N286039	205	226	160
N286040	205	294	30

CERTIFICATION: Adriana Flores

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Page Number :2
Total Pages :4
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P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836313

SAMPLE	PREP CODE		Au ppb FA+AA
N286041	205	294	20
N286042	205	226	20
N286043	205	226	870
N286044	205	226	775
N286045	205	294	730
N286046	205	226	395
N286047	205	226	115
N286048	205	294	935
N286049	205	294	475
N286050	205	226	85
N286051	205	226	65
N286052	205	294	510
N286053	205	226	135
N286054	205	226	45
N286055	205	226	40
N286056	205	294	180
N286057	205	226	285
N286058	205	226	60
N286059	205	294	45
N286060	205	294	75
N286061	205	294	355
N286062	205	226	1180
N286063	205	294	165
N286064	205	294	1230
N286065	205	226	100
N286066	205	226	155
N286067	205	226	55
N286068	205	294	60
N286069	205	226	100
N286070	205	226	160
N286071	205	294	1530
N286072	205	226	90
N286073	205	226	100
N286074	205	294	125
N286075	205	294	75
N286076	205	226	140
N286077	205	294	105
N286078	205	294	215
N286079	205	294	120
N286080	205	294	75

CERTIFICATION: Adriana Rexau

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CERTIFICATE OF ANALYSIS A9836313

SAMPLE	PREP CODE		Au ppb FA+AA
N286081	205	294	50
N286082	205	294	65
N286083	205	294	55
N286084	205	294	70
N286085	205	294	90
N286086	205	294	60
N286087	205	294	75
N286088	205	294	120
N286089	205	294	160
N286090	205	294	100
N286091	205	294	105
N286092	205	226	385
N286093	205	226	530
N286094	205	226	275
N286095	205	294	90
N286096	205	294	50
N286097	205	294	150
N286098	205	294	145
N286099	205	294	140
N286100	205	226	15
N286101	205	294	135
N286102	205	226	550
N286103	205	226	190
N286104	205	294	160
N286105	205	226	230
N286106	205	294	45
N286107	205	226	55
N286108	205	226	20
N286109	205	294	15
N286110	205	294	35
N286111	205	226	15
N286112	205	226	10
N286113	205	294	20
N286114	205	294	20
N286115	205	226	20
N286116	205	226	15
N286117	205	226	10
N286118	205	226	10
N286119	205	294	20
N286120	205	226	65

CERTIFICATION: Adriana Flexandre

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To: AVALON VENTURES LTD. *

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Page Number :4
Total Pages :4
Certificate Date: 23-NOV-1998
Invoice No. : I9836313
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836313

SAMPLE	PREP CODE		Au ppb FA+AA									
N286121	205	294	< 5									
N286122	205	226	10									
N286123	205	226	10									
N286124	205	294	10									
N286125	205	294	5									
N286126	205	226	< 5									

CERTIFICATION: Adriana Rosario

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Project: DUBENSKI
Comments: ATTN: IAN CAMPBELL

QC Page #: 1
Tot QC Pg: 1
Date: 30-NOV-1998
Invoice #: I9836835
P.O. #: OPJ

QC DATA OF CERTIFICATE A9836835

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	Au FA g/t
AY-97	Std2	1	595	-----
CHEMEX MEAN	---	---	639	-----
BL-T	Blnk	1	< 5	-----
CHEMEX MEAN	---	---	< 5	-----
PL-97	Std1	1	240	-----
PL-97	Std1	2	250	-----
CHEMEX MEAN	---	---	237	-----
N286138	Dup	1-01	110	-----
	Orig	1-01	110	-----

CERTIFICATION: Adriana Alexandru

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P7B 6B6

A9836835

Comments: ATTN: IAN CAMPBELL

CERTIFICATE A9836835

(OPJ) - AVALON VENTURES LTD.

Project: DUBENSKI
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 30-NOV-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	52	Geochem ring to approx 150 mesh
226	34	0-3 Kg crush and split
294	18	4-7 Kg crush and split
3202	52	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	52	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

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P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Certificate Date: 30-NOV-1998
Invoice No. :19836835
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836835

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
N286138	205	226	110	-----
N286139	205	226	120	-----
N286140	205	294	10	-----
N286141	205	226	60	-----
N286142	205	226	30	-----
N286143	205	226	55	-----
N286150	205	226	70	-----
N286151	205	226	60	-----
N286152	205	294	35	-----
N286153	205	226	55	-----
N286154	205	294	35	-----
N286164	205	226	25	-----
N286165	205	226	520	-----
N286166	205	226	175	-----
N286167	205	226	440	-----
N286168	205	226	>10000	40.32
N286169	205	226	745	-----
N286170	205	294	1550	-----
N286171	205	226	10	-----
N286178	205	226	150	-----
N286179	205	294	65	-----
N286180	205	294	750	-----
N286181	205	226	120	-----
N286182	205	294	40	-----
N286183	205	294	70	-----
N286184	205	294	215	-----
N286185	205	294	485	-----
N286186	205	294	135	-----
N286187	205	294	25	-----
N286188	205	294	35	-----
N286189	205	226	40	-----
N286190	205	294	215	-----
N286191	205	294	15	-----
N286192	205	294	35	-----
N286217	205	226	20	-----
N286218	205	294	< 5	-----
N286219	205	226	520	-----
N286220	205	226	65	-----
N286221	205	226	225	-----
N286222	205	226	1470	-----

CERTIFICATION: Adriana Alexandre

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Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Page Number :2
Total Pages :2
Certificate Date: 30-NOV-1998
Invoice No. : I9836835
P.O. Number :
Account : OPJ

CERTIFICATE OF ANALYSIS A9836835

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
N286223	205	226	1790	-----
N286224	205	226	20	-----
N286225	205	226	15	-----
N286226	205	226	110	-----
N286227	205	226	65	-----
N286228	205	226	20	-----
N286229	205	226	60	-----
N286230	205	226	40	-----
N286231	205	226	20	-----
N286232	205	226	60	-----
N286233	205	226	155	-----
N286234	205	294	160	-----

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Project: DUBENSKI
Comments: ATTN: IAN CAMPBELL

QC Page #: 1
Tot QC Pg: 1
Date: 01-DEC-1998
Invoice #: I9836900
P.O. #: OPJ

QC DATA OF CERTIFICATE A9836900

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	Au FA g/t
AY-97	Std2	1	650	-----
CHEMEX MEAN	---	---	639	-----
BL-T	Blnk	1	< 5	-----
CHEMEX MEAN	---	---	< 5	-----
PL-97	Std1	1	245	-----
PL-97	Std1	2	250	-----
CHEMEX MEAN	---	---	237	-----
N286127	Dup	1-01	< 5	-----
	Orig	1-01	< 5	-----
N286201	Dup	2-01	10	-----
	Orig	2-01	10	-----

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P7B 6B6

A9836900

Comments: ATTN: IAN CAMPBELL

CERTIFICATE A9836900

(OPJ) - AVALON VENTURES LTD.

Project: DUBENSKI
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 01-DEC-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	56	Geochem ring to approx 150 mesh
226	35	0-3 Kg crush and split
294	21	4-7 Kg crush and split
3202	56	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	56	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

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Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Page Number :1
Total Pages :2
Certificate Date: 01-DEC-1998
Invoice No. : I9836900
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836900

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t
N286127	205 226	< 5	-----
N286128	205 294	< 5	-----
N286129	205 294	5	-----
N286130	205 226	< 5	-----
N286131	205 226	< 5	-----
N286132	205 226	< 5	-----
N286133	205 294	< 5	-----
N286134	205 294	< 5	-----
N286135	205 294	< 5	-----
N286136	205 226	10	-----
N286137	205 226	5	-----
N286144	205 226	< 5	-----
N286145	205 226	< 5	-----
N286146	205 226	< 5	-----
N286147	205 226	< 5	-----
N286148	205 226	>10000	12.82
N286149	205 226	35	-----
N286155	205 226	35	-----
N286156	205 226	< 5	-----
N286157	205 226	< 5	-----
N286158	205 226	2080	-----
N286159	205 226	5	-----
N286160	205 226	5	-----
N286161	205 226	< 5	-----
N286162	205 226	< 5	-----
N286163	205 226	< 5	-----
N286172	205 226	< 5	-----
N286173	205 294	15	-----
N286174	205 294	< 5	-----
N286175	205 226	10	-----
N286176	205 294	25	-----
N286177	205 226	65	-----
N286193	205 294	50	-----
N286194	205 294	850	-----
N286195	205 294	10	-----
N286196	205 294	290	-----
N286197	205 294	260	-----
N286198	205 294	10	-----
N286199	205 294	15	-----
N286200	205 294	15	-----

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851 FIELD ST.
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P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Page Number :2
Total Pages :2
Certificate Date: 01-DEC-1998
Invoice No. : I9836900
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836900

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t								
N286201	205	294	10	-----								
N286202	205	294	5	-----								
N286203	205	226	15	-----								
N286204	205	294	165	-----								
N286205	205	226	5	-----								
N286206	205	226	20	-----								
N286207	205	226	10	-----								
N286208	205	226	< 5	-----								
N286209	205	226	1270	-----								
N286210	205	226	2200	-----								
N286211	205	294	35	-----								
N286212	205	226	20	-----								
N286213	205	226	35	-----								
N286214	205	294	250	-----								
N286215	205	226	65	-----								
N286216	205	226	50	-----								

CERTIFICATION: Adriana Alexandru

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To: AVALON VENTURES LTD. *

851 FIELD ST.
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Project: DUBENSKI
Comments: ATTN: IAN CAMPBELL

QC Page #: 1
Tot QC Pg: 1
Date: 01-DEC-1998
Invoice #: I9836902
P.O. #: OPJ

QC DATA OF CERTIFICATE A9836902

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	Au FA g/t
AY-97	Std2	1	640	-----
CHEMEX MEAN	---	---	639	-----
BL-T	Blnk	1	< 5	-----
CHEMEX MEAN	---	---	< 5	-----
PL-97	Std1	1	250	-----
PL-97	Std1	2	250	-----
CHEMEX MEAN	---	---	237	-----
N286235	Dup	1-01	3680	-----
	Orig	1-01	3680	-----
N286275	Dup	2-01	605	-----
	Orig	2-01	605	-----

CERTIFICATION: Luciana Alexandru

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To: AVALON VENTURES LTD.

851 FIELD ST.
THUNDER BAY, ON
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A9836902

Comments: ATTN: IAN CAMPBELL

CERTIFICATE A9836902

(OPJ) - AVALON VENTURES LTD.

Project: DUBENSKI
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 01-DEC-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	61	Geochem ring to approx 150 mesh
226	22	0-3 Kg crush and split
294	39	4-7 Kg crush and split
3202	61	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	61	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	2	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

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

To: AVALON VENTURES LTD.

851 FIELD ST.
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P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Page Number :1
Total Pages :2
Certificate Date: 01-DEC-1998
Invoice No. : 19836902
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836902

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
N286235	205	226	3680	-----
N286236	205	294	50	-----
N286237	205	226	105	-----
N286238	205	226	175	-----
N286239	205	294	100	-----
N286240	205	294	170	-----
N286241	205	294	220	-----
N286242	205	294	620	-----
N286243	205	294	70	-----
N286244	205	294	220	-----
N286245	205	294	205	-----
N286246	205	226	175	-----
N286247	205	294	570	-----
N286248	205	294	500	-----
N286249	205	294	480	-----
N286250	205	294	20	-----
N286251	205	294	170	-----
N286252	205	226	115	-----
N286253	205	226	730	-----
N286254	205	294	90	-----
N286255	205	226	310	-----
N286256	205	226	250	-----
N286257	205	226	65	-----
N286258	205	226	195	-----
N286259	205	294	170	-----
N286260	205	294	175	-----
N286261	205	294	3720	-----
N286262	205	226	100	-----
N286263	205	226	55	-----
N286264	205	226	340	-----
N286265	205	294	65	-----
N286266	205	294	45	-----
N286267	205	294	135	-----
N286268	205	294	540	-----
N286269	205	294	2340	-----
N286270	205	294	1180	-----
N286271	205	294	310	-----
N286272	205	294	325	-----
N286273	205	294	2430	-----
N286274	205	294	1070	-----

CERTIFICATION: Adriana Alexandru

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Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Certificate Date: 01-DEC-1998
Invoice No. : I9836902
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836902

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t								
N286275	205	294	605	-----								
N286276	205	294	110	-----								
N286601	205	294	150	-----								
N286602	205	294	560	-----								
N286603	205	294	40	-----								
N286604	205	226	35	-----								
N286605	205	226	7090	-----								
N286606	205	226	9900	-----								
N286607	205	226	>10000	13.30								
N286608	205	294	1600	-----								
N286609	205	294	570	-----								
N286610	205	294	550	-----								
N286611	205	294	200	-----								
N286612	205	294	1740	-----								
N286613	205	226	5410	-----								
N286614	205	226	3130	-----								
N286615	205	226	120	-----								
N286616	205	294	5040	-----								
N286617	205	226	>10000	12.45								
N286618	205	294	770	-----								
N286619	205	226	45	-----								

CERTIFICATION: [signature]

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P7B 6B6

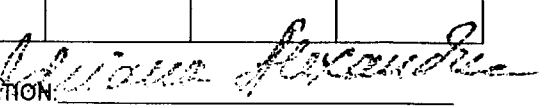
Project: DUBENSKI
Comments: ATTN: IAN CAMPBELL

QC Page #: 1
Tot QC Pg: 1
Date: 02-DEC-1998
Invoice #: I9836903
P.O. #:

OPJ

QC DATA OF CERTIFICATE A9836903

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA	Au FA g/t
AY-97	Std2	1	605	-----
CHEMEX MEAN	---	---	639	-----
BL-T	Blnk	1	< 5	-----
CHEMEX MEAN	---	---	< 5	-----
PL-97	Std1	1	235	-----
PL-97	Std1	2	250	-----
CHEMEX MEAN	---	---	237	-----
N286620	Dup	1-01	530	-----
	Orig	1-01	480	-----

CERTIFICATION: 

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P7B 6B6

A9836903

Comments: ATTN: IAN CAMPBELL

CERTIFICATE A9836903

(OPJ) - AVALON VENTURES LTD.

Project: DUBENSKI
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 02-DEC-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	50	Geochem ring to approx 150 mesh
226	9	0-3 Kg crush and split
294	41	4-7 Kg crush and split
3202	50	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	50	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
997	1	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0

Chemex Labs Ltd.

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THUNDER BAY, ON
P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Certificate Date: 02-DEC-1998
Invoice No. : I9836903
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836903

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
N286620	205	226	480	-----
N286621	205	294	300	-----
N286622	205	294	1050	-----
N286623	205	294	125	-----
N286624	205	294	270	-----
N286625	205	294	295	-----
N286626	205	294	115	-----
N286627	205	226	500	-----
N286628	205	294	700	-----
N286629	205	294	1120	-----
N286630	205	294	500	-----
N286631	205	294	115	-----
N286632	205	294	100	-----
N286633	205	294	310	-----
N286634	205	294	30	-----
N286635	205	294	25	-----
N286636	205	294	20	-----
N286637	205	294	10	-----
N286638	205	294	20	-----
N286639	205	294	90	-----
N286640	205	294	1260	-----
N286641	205	294	340	-----
N286642	205	226	450	-----
N286643	205	226	4920	-----
N286644	205	294	80	-----
N286645	205	294	60	-----
N286646	205	294	30	-----
N286647	205	294	40	-----
N286648	205	294	1210	-----
N286649	205	294	250	-----
N286650	205	294	1560	-----
N286651	205	294	>10000	18.03
N286652	205	294	555	-----
N286653	205	294	1560	-----
N286654	205	226	15	-----
N286655	205	226	115	-----
N286656	205	226	165	-----
N286657	205	294	55	-----
N286658	205	294	1600	-----
N286659	205	226	425	-----

CERTIFICATION: Adriana Alexandru

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

To: AVALON VENTURES LTD. *

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Page Number :2
Total Pages :2
Certificate Date: 02-DEC-1998
Invoice No. : I9836903
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9836903

SAMPLE	PREP CODE		Au ppb FA+AA	Au FA g/t
N286660	205	226	615	-----
N286661	205	294	730	-----
N286662	205	294	3250	-----
N286663	205	294	865	-----
N286664	205	294	1280	-----
N286665	205	294	15	-----
N286666	205	294	< 5	-----
N286667	205	294	< 5	-----
N286668	205	294	5	-----
N286669	205	294	< 5	-----

CERTIFICATION: Liliana Alexandru

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: AVALON VENTURES LTD.

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

A9837768

Comments: ATTN: IAN CAMPBELL

CERTIFICATE A9837768

(OPJ) - AVALON VENTURES LTD.

Project: DUBENSKI-RERUNS
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 10-DEC-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
234	42	0-7 Kg splitting charge
216	42	sieve to -150 mesh

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
881	42	Au g/t: Total, metallics calc.	FA-AAS/GRAV	0.07	500.00
885	42	Au- g/t: Metallics calc.	FA-AAS/GRAV	0.07	1000.00
887	42	Au+ mg: Metallics calculation	FA-AAS/GRAV	0.002	30.000
889	42	Weight- g: Metallics calculation	BALANCE	1	10000
888	42	Weight+ g: Metallics calculation	BALANCE	0.01	200.0

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

To: AVALON VENTURES LTD.

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project : DUBENSKI-RERUNS
Comments: ATTN: IAN CAMPBELL

Certificate Date: 10-DEC-1998
Invoice No. : I9837768
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9837768

SAMPLE	PREP CODE		Au tot g/t	Au - g/t	Au + mg	Wt - grams	Wt + grams
N286148	234	216	15.45	16.12	0.240	186	23.59
N286157	234	216	< 0.07	< 0.07	< 0.002	162	29.00
N286158	234	216	1.72	1.82	0.038	178	32.76
N286165	234	216	0.69	0.78	0.010	196	41.66
N286166	234	216	< 0.07	< 0.07	< 0.002	163	37.51
N286167	234	216	0.56	0.57	0.008	173	17.78
N286168	234	216	45.91	45.95	1.590	201	34.83
N286169	234	216	1.09	1.24	0.008	191	32.73
N286170	234	216	1.33	1.17	0.067	166	30.25
N286209	234	216	0.55	0.65	0.005	187	41.59
N286210	234	216	1.63	1.81	0.021	184	33.73
N286219	234	216	1.19	1.26	0.025	192	32.60
N286220	234	216	0.10	0.10	0.002	198	19.08
N286221	234	216	0.35	0.35	0.006	182	16.19
N286222	234	216	1.66	1.66	0.047	208	27.84
N286223	234	216	1.47	1.46	0.027	184	16.81
N286224	234	216	< 0.07	< 0.07	< 0.002	203	20.06
N286225	234	216	< 0.07	< 0.07	0.010	196	31.07
N286226	234	216	0.11	0.11	0.003	188	22.08
N286227	234	216	< 0.07	< 0.07	< 0.002	212	11.26
N286605	234	216	3.33	2.57	0.290	226	35.68
N286606	234	216	8.74	7.79	0.360	173	22.42
N286607	234	216	12.77	12.75	0.296	175	22.85
N286608	234	216	1.58	1.65	0.020	214	21.85
N286609	234	216	0.70	0.70	0.023	197	31.42
N286610	234	216	0.66	0.70	0.009	190	24.06
N286611	234	216	0.31	0.28	0.013	201	24.40
N286612	234	216	1.58	1.67	0.026	193	27.65
N286613	234	216	6.18	6.36	0.107	175	22.41
N286614	234	216	2.74	2.83	0.059	196	27.90
N286615	234	216	0.11	0.09	0.007	200	29.28
N286616	234	216	3.58	3.09	0.208	210	29.64
N286617	234	216	9.99	10.72	0.195	183	32.81
N286618	234	216	0.82	0.89	0.007	182	23.23
N286640	234	216	1.29	1.25	0.034	193	19.57
N286641	234	216	0.43	0.46	0.005	196	24.53
N286642	234	216	0.51	0.52	0.007	186	16.30
N286643	234	216	6.63	6.06	0.241	175	21.34
N286650	234	216	2.50	2.28	0.088	183	19.10
N286651	234	216	18.84	11.40	1.926	194	25.66

CERTIFICATION: ____________

Chemex Labs Ltd.

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

To: AVALON VENTURES LTD.

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project : DUBENSKI-RERUNS
Comments: ATTN: IAN CAMPBELL

Page Number :2
Total Pages :2
Certificate Date: 10-DEC-1998
Invoice No. :I9837768
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9837768

SAMPLE	PREP CODE		Au tot g/t	Au - g/t	Au + mg	Wt - grams	Wt + grams
N286652	234	216	0.51	0.53	0.012	215	31.29
N286653	234	216	0.96	1.05	0.011	197	30.41

CERTIFICATION: Adriana Alexandru

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: AVALON VENTURES LTD.

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project: DUBENSKI
Comments: ATTN: IAN CAMPBELL

QC Page #: 1
Tot QC Pg: 1
Date: 21-DEC-1998
Invoice #: I9838228
P.O. #: OPJ

QC DATA OF CERTIFICATE A9838228

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Au ppb FA+AA
AY-97	Std2	1	630
AY-97	Std2	2	630
CHEMEX MEAN	---	---	639
BL-T	Blnk	1	< 5
CHEMEX MEAN	---	---	< 5
PL-97	Std1	1	250
PL-97	Std1	2	250
CHEMEX MEAN	---	---	237
N286351	Dup	1-01	360
	Orig	1-01	350
N286467	Dup	2-01	< 5
	Orig	2-01	< 5

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: AVALON VENTURES LTD.

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

A9838228

Comments: ATTN: IAN CAMPBELL

CERTIFICATE A9838228

(OPJ) - AVALON VENTURES LTD.

Project: DUBENSKI
P.O. # :

Samples submitted to our lab in Thunder Bay, ON.
This report was printed on 21-DEC-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	74	Geochem ring to approx 150 mesh
226	15	0-3 Kg crush and split
294	58	4-7 Kg crush and split
276	1	8-12 Kg crush and split
3202	74	Rock - save entire reject

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	74	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

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

To: AVALON VENTURES LTD. *

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Page Number :1
Total Pages :2
Certificate Date: 21-DEC-1998
Invoice No. :I9838228
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9838228

SAMPLE	PREP CODE		Au ppb FA+AA
N286351	205	226	350
N286352	205	294	380
N286353	205	294	390
N286354	205	294	250
N286355	205	226	760
N286356	205	294	535
N286357	205	294	380
N286358	205	294	110
N286359	205	226	1100
N286360	205	294	1360
N286361	205	226	40
N286362	205	276	60
N286401	205	226	425
N286402	205	294	50
N286403	205	294	120
N286404	205	226	450
N286405	205	294	30
N286406	205	294	45
N286407	205	294	30
N286408	205	294	440
N286409	205	294	10
N286410	205	226	1970
N286411	205	294	10
N286412	205	294	55
N286451	205	294	700
N286452	205	294	385
N286453	205	294	60
N286454	205	294	250
N286455	205	294	1030
N286456	205	226	45
N286457	205	294	485
N286458	205	294	520
N286459	205	294	175
N286460	205	294	650
N286461	205	294	60
N286462	205	294	10
N286463	205	294	10
N286464	205	294	< 5
N286465	205	294	< 5
N286466	205	226	5

CERTIFICATION: Alexander

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: AVALON VENTURES LTD.

851 FIELD ST.
THUNDER BAY, ON
P7B 6B6

Project : DUBENSKI
Comments: ATTN: IAN CAMPBELL

Certificate Date: 21-DEC-1998
Invoice No. :19838228
P.O. Number :
Account :OPJ

CERTIFICATE OF ANALYSIS A9838228

SAMPLE	PREP CODE		Au ppb FA+AA
N286467	205	294	< 5
N286468	205	294	10
N286469	205	294	< 5
N286470	205	294	< 5
N286471	205	294	10
N286472	205	294	10
N286473	205	294	275
N286474	205	294	3200
N286475	205	226	4920
N286476	205	226	230
N286477	205	294	300
N286478	205	294	80
N286479	205	294	140
N286480	205	294	140
N286481	205	294	130
N286482	205	226	< 5
N286483	205	294	255
N286484	205	294	140
N286485	205	226	60
N286486	205	294	5
N286487	205	294	20
N286488	205	294	25
N286489	205	294	20
N286490	205	294	10
N286491	205	294	70
N286492	205	294	55
N286493	205	294	15
N286494	205	294	< 5
N286495	205	294	20
N286496	205	226	< 5
N286497	205	294	10
N286498	205	294	< 5
N286499	205	294	10
N286500	205	226	5

CERTIFICATION: Adriana Alexandru

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W.0010.00007
Assessment Files Research Imaging

52F05SW2011 2.20073 DOGPAW LAKE 900

rity of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the d to review the assessment work and correspond with the mining land holder. ing Recorder, Ministry of Northern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

2.20073

1. Recorded holder(s) (Attach a list if necessary)

Name: Avalon Ventures Ltd.	Client Number: 301086
Address: 851 Field Street	Telephone Number: 807-346-0404
Thunder Bay, ON P7B 6B6	Fax Number: 807-346-4233
Name	Client Number
Address	Telephone Number
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☑ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

		Office Use
Work Type: Diamond Drilling		Commodity
		Total $ Value of Work Claimed: 47,700.00
Dates Work Performed: From 10 (Day) 11 (Month) 98 (Year) To 19 (Day) 11 (Month) 98 (Year)		NTS Reference
Global Positioning System Data (if available)	Township/Area: Dogpaw Lake	Mining Division: Kenora
	M or G-Plan Number: G-2613	Resident Geologist District: Kenora

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

RECEIVED FEB 02 2000 2.3 GEOSCIENCE ASSESSMENT OFFICE

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Avalon Ventures Ltd.	Telephone Number: 807-346-0404
Address: 851 Field Street Thunder Bay, ON P7B 6B6	Fax Number: 807-346-4233
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECORDED FEB - 2 2000

4. Certification by Recorded Holder or Agent

831

I, Karen Rees (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Karen Rees, General Manager Avalon Ventures Ltd.		Date: 13 Jan 2000
Agent's Address: 851 Field Street Thunder Bay, ON P7B 6B6	Telephone Number: 807-346-0404	Fax Number: 807-346-4233

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W.0010.00007

2.20073

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	K 1178821	2	47,700	2,400	35,200	10,100
2	K1143898	8		9,600		
3	K1143899	16		6,400		
4	K 1149803	1		1,200		
5	K 1178822	8		9,600		
6	K 1215870	1		1,200		
7	K 1231819	2		2,400		
8	K 1231820	4		4,800		
9						
10						
11						
12						
13						
14						
15						
		Column Totals	47,700	37,600	35, 200	10, 100

RECORDED
FEB - 2 2000

I, Karen Rees (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Karen Rees — Date: 13 Jan 2000

RECEIVED
FEB 02 2000
GEOSCIENCE ASSESSMENT OFFICE

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W-0010.00001

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.20073

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Diamond Drilling	528.3 metres	$57.16/m	30,200
Geologist	10 days	$350/day	3,500
Assistant	10 days	$200/day	2,000
Assays	350 samples	$11/sample	3,850
Supervision, word processing & drafting	10 days	$350/day	3,500
Associated Costs (e.g. supplies, mobilization and demobilization)			
Supplies, Shipping & Equipment rental			1,150
Transportation Costs			
Road access charge			1,250
Truck rental			750
Food and Lodging Costs	20m.d.	@ $75/md	1,500
Total Value of Assessment Work			47,700

RECORDED
FEB - 2 2000

RECEIVED
FEB 02 2000
GEOSCIENCE ASSESSMENT OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Karen Rees, Avalon (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as General Manager, Avalon Ventures Ltd. (recorded holder, agent, or state company position with signing authority) am authorized to make this certification.

Signature: Karen Rees

Date: 13. Jan 2000

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9845
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

March 21, 2000

Karen Rees
AVALON VENTURES LTD.
851 FIELD STREET
THUNDER BAY, ONTARIO
P7B-6B6

Dear Sir or Madam:

Submission Number: 2.20073

Subject: Transaction Number(s):		**Status**
	W0010.00007	Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact STEVE BENETEAU by e-mail at steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 14689
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.20073

Date Correspondence Sent: March 21, 2000 **Assessor:** STEVE BENETEAU

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W0010.00007	1178821	DOGPAW LAKE	Approval	March 20, 2000

Section:
16 Drilling PDRILL

Correspondence to:

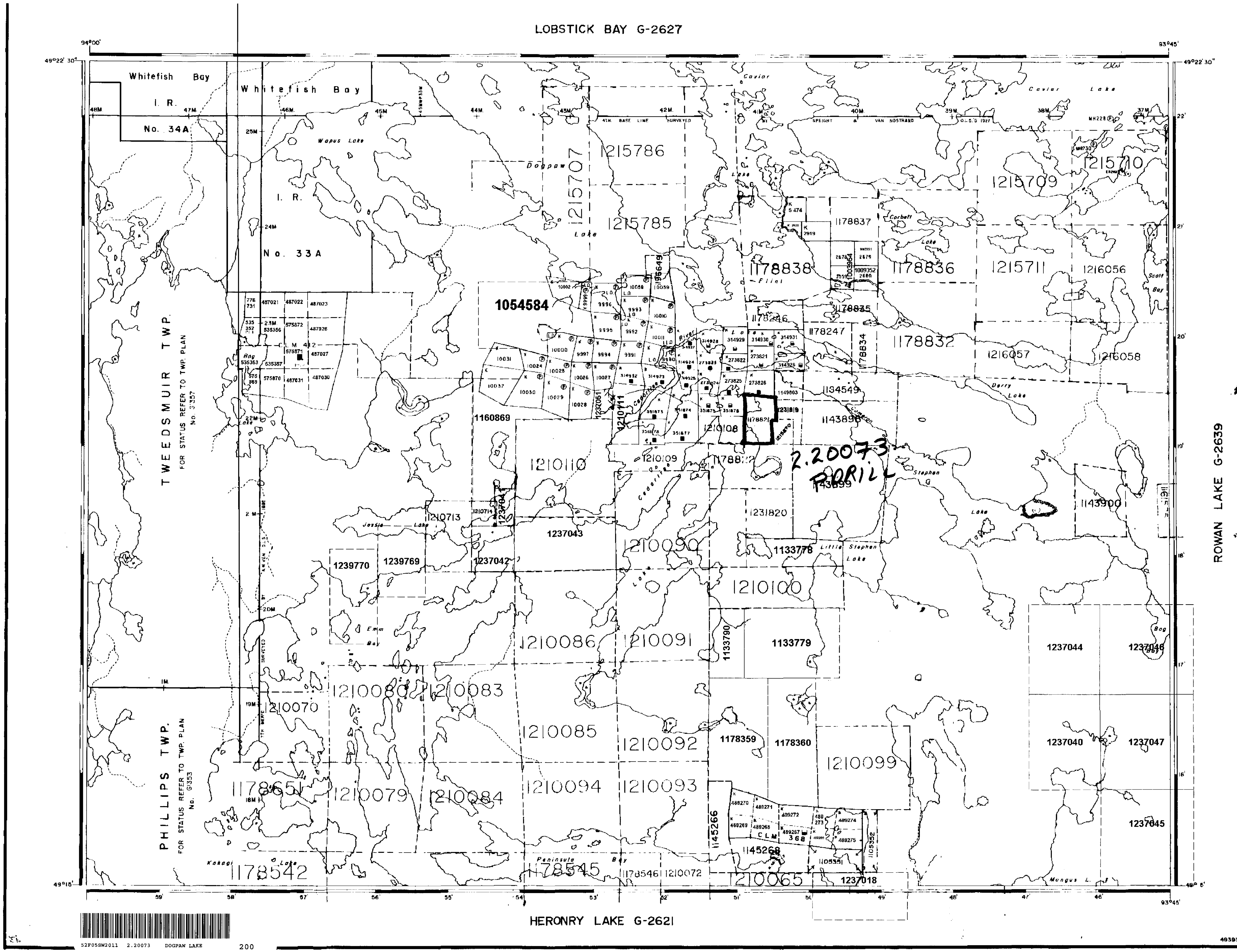
Resident Geologist
Kenora, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Karen Rees
AVALON VENTURES LTD.
THUNDER BAY, ONTARIO

Correspondence ID: 14689



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT — **SYMBOL**

PATENT, SURFACE & MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LEASE, SURFACE & MINING RIGHTS
" , SURFACE RIGHTS ONLY
" , MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER-IN-COUNCIL — OC
RESERVATION
CANCELLED
SAND & GRAVEL

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
	W20/82	mar 1/72	m & s	162473

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA

DOGPAW LAKE

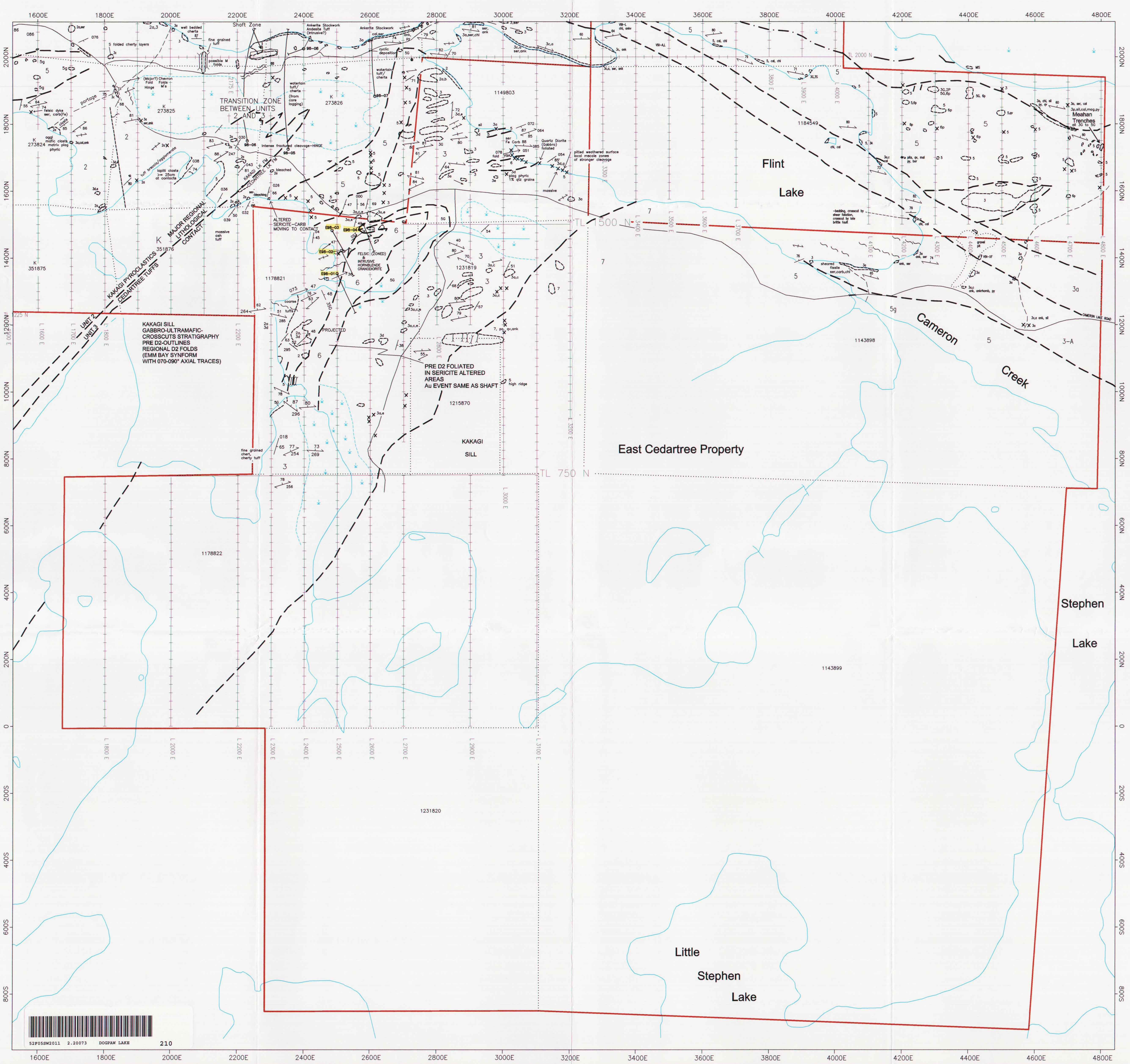
M.N.R. ADMINISTRATIVE DISTRICT
KENORA
MINING DIVISION
KENORA
LAND TITLES / REGISTRY DIVISION
KENORA

Ministry of Natural Resources — Land Management Branch
Ontario

Date: JANUARY, 1984 — Number: G-2613

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

EFFECTIVE
JUL 11 1994



Geological Legend

9	Diabase Dykes
8	Stephen Lake Pluton -occupies hinge zones of regional D2 compression event (saddle reefs due to chevron style folds) D2 north-south compression-flattening ENE fold axial traces -pure shear EW-ENE foliation -minor folds along Dubenski trend -fracture cleavage with Au
7	Kakagi Sills
6	Felsic Intrusives (Au Event) -feldspar (quartz) porphyritic
5	Gabbro 5g -medium grained gabbro
4	Metasediments
3	Cedartree Lake Formation (a) -dacitic composition, massive (c) -finegrained pyroclastics, abundant cherty intersedimentary beds (d) -minor coarser component (e) -reworked, bedded
2	Kakagi Pyroclastics (Felsic Composition) (a) -tuff breccia, clasts vary from mafic to dacitic, dirty matrix (b) -slump breccias, agglomerate to lapilli size clasts, unsorted (c) -interbedded fine grained tuff, reworked volcaniclastic
1	Mafic Volcanics (Basal)

2.20073

Symbols

bedding; strike, dip

fracture cleavage; subvertical, dipping

Abbreviations

ser	-sericite	py	-pyrite
cal	-calcite	cpy	-chalcopyrite
ank	-ankerite	mal	-malachite
q.v.	-quartz vein	mag	-magnetite
chl	-chlorite	po	-pyrrhotite
sil	-silicification		
fuch	-fuchsite		
cren	-crenulated		
cl	-cleavage		
rhomb	-rhombehedral		
plag	-plagioclase		
aggl	-agglomerate		

Scale 1:5000

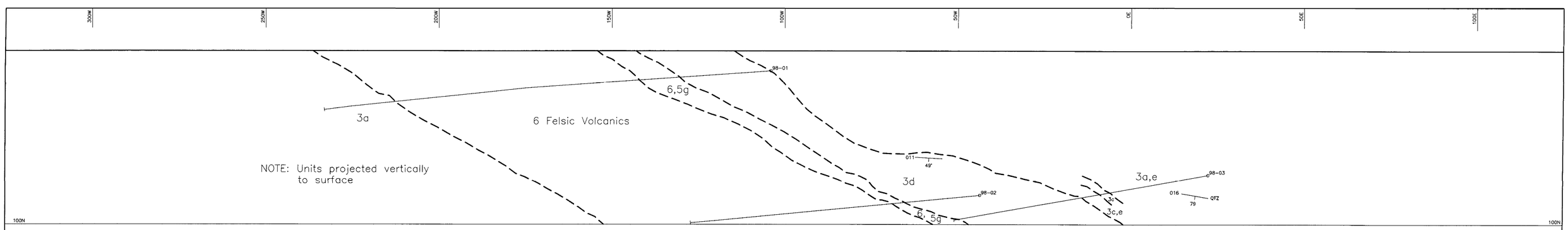
100 0 100 200 300
(metres)

AVALON VENTURES LTD.

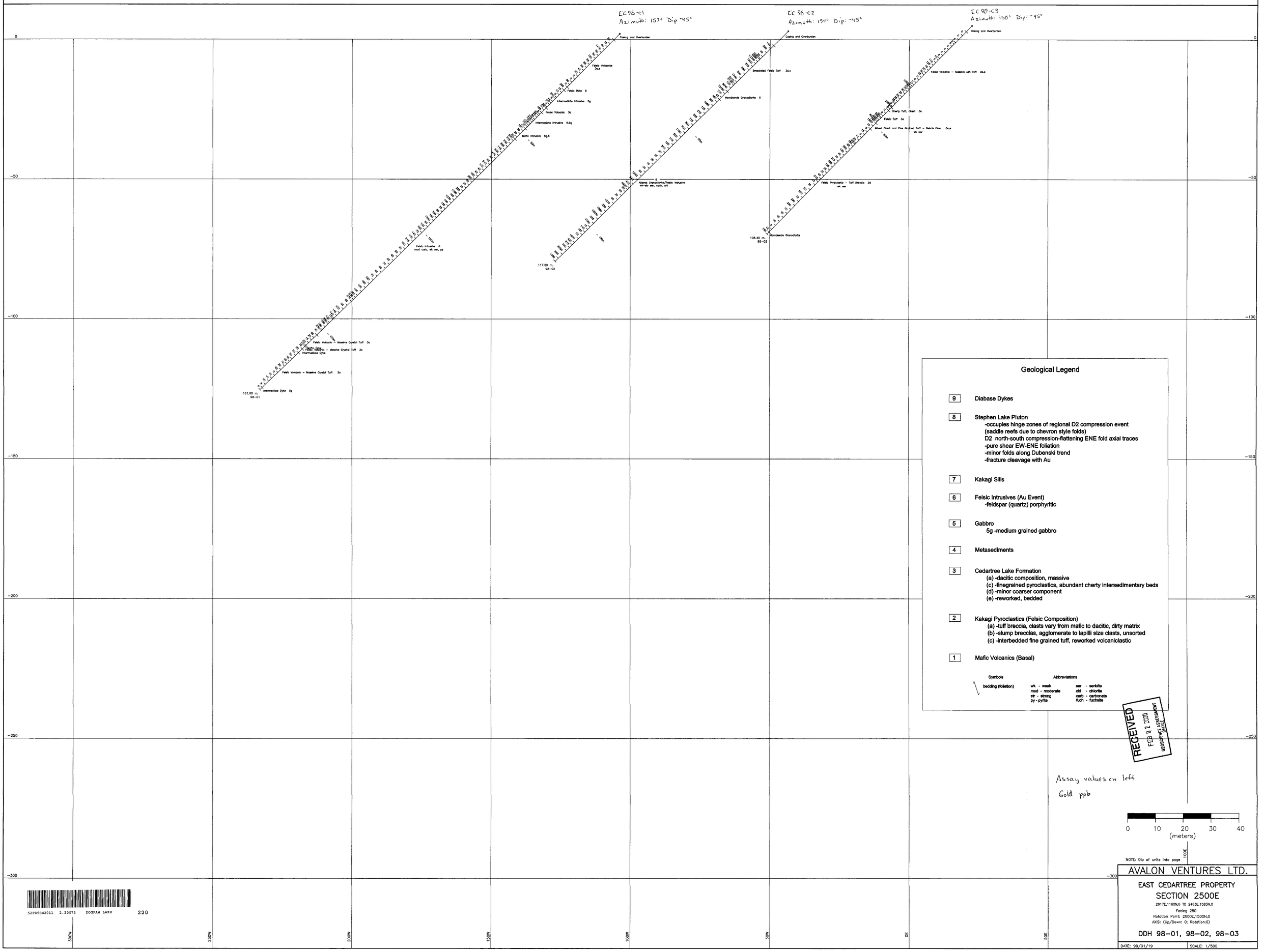
East Cedartree Property

GEOLOGY AND DRILL HOLE LOCATION MAP

Base Map: OBM Digital Map	Date: JAN 31, 2000
Map No.:	NTS: 52 F 05
Drawn By: Paul Nielsen Geological	



All holes on claim K 1178821



Geological Legend

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  - (a) -dacitic composition, massive
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  - (e) -reworked, bedded
- 2 Kakagi Pyroclastics (Felsic Composition)
  - (a) -tuff breccia, clasts vary from mafic to dacitic, dirty matrix
  - (b) -slump brecclas, agglomerate to lapilli size clasts, unsorted
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- 1 Mafic Volcanics (Basal)

Symbols	Abbreviations			
bedding (foliation)	wk - weak	ser - sericite		
	mod - moderate	chl - chlorite		
	str - strong	carb - carbonate		
	py - pyrite	fuch - fuchsite		

Assay values on left
Gold ppb

0 10 20 30 40
(meters)

NOTE: Dip of units into page

AVALON VENTURES LTD.

EAST CEDARTREE PROPERTY

SECTION 2500E

2617E,1160N,0 TO 2463E,1583N,0

Facing 250

Rotation Point: 2600E,1500N,0

AXIS: (Up/Down: 0; Rotation:0)

DDH 98-01, 98-02, 98-03

DATE: 99/01/19 | SCALE: 1/500

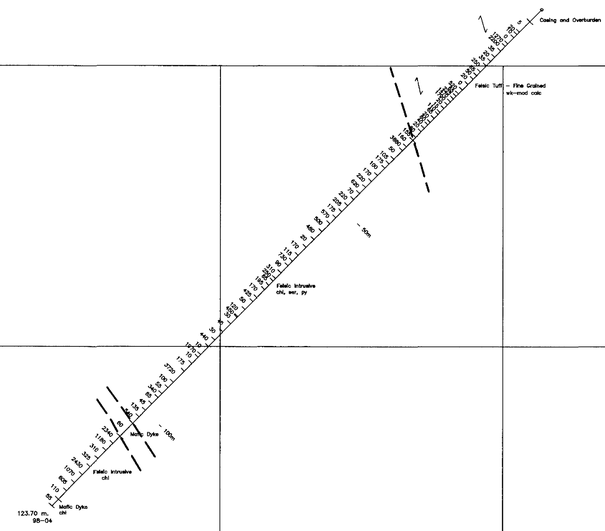
250W 200W 150W 100W 50W 0E 50E 100E 150E

ON

98-04

EC 98-04
Claim: K 1178821
Azimuth: 160°
Dip: -45°

0



-50

-100

-150

-200

-250

-300

Geological Legend

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carb - carbonate
fuch - fuchsite
calc - calcite

0 10 20 30 40
(meters)

Assay values on left
Gold ppb

AVALON VENTURES LTD.

EAST CEDARTREE PROPERTY

SECTION 2600E

2894E,1243N,0 TO 2540E,1664N,0
Facing 250
Rotation Point: 2600E,1500N,0
AXIS: (Up/Down: 0; Rotation:0)

DDH 98-04

DATE: 99/01/19 | SCALE: 1/500