LHD-1		**LANGDONS HILL DIAMOND DRILL HOLE NO 1**	**Au *(ppm)**	**m**
Depth (m)	**Interval**	**Description HQ 0-86.4m, NQ 86.4- 219.2m EOH**		
	m		**NSA**	**0- 1.6**
0-1.6	1.6	**Weathered disaggregated siltstone. Fragments of siltstone.**		
		Core loss 0.10m		
1.6-8.8	7.2	**Mid grey siltstone with pale grey, bleached alteration**		
		along bedding. Altered pyrite veinlets (3%) up to 2 mm		
		thick. (now altered to limonite and clay)		
		At 4.6 m the bedding was 55 degrees to core axis		
		Core loss 0.10m		
8.8-11	2.2	**Partially weathered, grey, fine grained equigranular dyke rock**	**0.02**	**8.8- 11**
		with dark xeonoliths (diorite or amphibolite) up to 6cm across.		
		10.6-11.0 m. Chilled margin. Dark brown phenocrysts to 2mm possibly garnets		
		occ plag pheno in dioritic groundmass		
		1-2% pyritic veining now limonite. Garnet-bearing lamprophyre?/dolerite?/syenite?		
11-45.8	34.8	**Fossiliferous siltstone, grey to yellow variably oxidised and bleached.**	**0.02**	**11.0- 17**
		Shelly cast of fossils filled with limonite. Bedding is variable and irregular	**0.06**	**17- 23**
		and bioturbated. Occasional clasts and pebbles -	**0.02**	**23- 29**
		at 11.5m porphyry clasts, at 15.5, 22.5 & 34.5 m sandstone and vein quartz clasts	**0.05**	**29- 37**
		15-15.3m, 32.6-32.8m possible brecciated zone weathered and oxidised /fault?		
		17.5-17.8m, brecciated zone, as above		
		24-34.8 m : fossil rich clast zone		
		32.0-33.0m, broken rock fabric/fault?		
		39.6-44.4m fine grained massive unfossiliferous sandstone.	**0.01**	**37- 41**
		Bedding laminations at 14m 70 degrees to core axis. at 31m, 52 degrees		
		to core axis. at 44.7-45.3, 0.6m of core loss.		
		averages 1% altered pyrite/carb veinlets now limonite and clay		
		Core loss 0.9m at 44.8-45.7m		
		Base of oxidation at 45.7m		
45.8-70	24.2	**Grey fossiliferous siltstone with fossil rich sections at 47-50m, 55-56m,**		

		58-60m,67-70m. Fossil fragments include Brachiopods. Fossil cavities		
		weathered out with some pyrite replacements and remnants. Occasional		
		siliceous boxwork; also found in occasional clasts. Throughout interval 1-2 % fracture		
		veinlets less than 1 mm thick with pyrite coating with clay and or sericite.		
		Indistinct irregular bedding at 57m at 50 degrees to core axis		
		over 54.2-55m, core loss is 0.10m		
		Sedimentary Section 0 - 70m above assigned to Bundella Mudstone Formation		
70-95	25	**Monotonous, massive, hard, poorly bedded mid-grey siltstone. 71-76 m Occasional**	**0.03**	**71- 77**
		wispy sandstone bands and clasts to 6 cm. 1% fracture veinlets through out		
		entire interval, with fresh pyrite and clay or sericite (possibly carbonate)	**0.02**	**83- 89**
		Some veins and sulphidic partings are bedding parallel. Occasional		
		mineralised clasts from 86-90 metres. Irregular sedimentary bedding at 89m	**0.02**	**89- 95**
		is 60 degrees to core axis.		
95-103.9	8.9	**Hornblende, sanidine, garnet porphyry dyke with vfg or aphanitic groundmass. Porphyritic**	**NSA**	**95- 104**
		texture preserved throughout. Some sections (ie 101.2-102.2m) with yellow- orange alteration		
		mineral in sanidine and groundmass. (sericite?). No apparent sulphide mineralisation,		
		some garnet inclusions in sanidine.		
103.9-127	23.1	**Dark monotonous, massive siltstone/ meta pelite.**		
		less than 1% pyrite as very thin veinlets, blebs and disseminations		
		veinlets contain quartz, adularia or calcite?. Occasional recrystallized clast/ and /or		
		alteration?; at 117.2m, bedding at 65 degrees to core axis.		
		over 111.6 - 112.6m, core loss is 0.40m		
		possible sample taken at 116.5m?		
		over 122.9 - 124.9m, core loss is 0.1m, tube misslatch at 123.4m		

127-129.2	2.2	**Equigranular, fine grained, dyke rock with plag phenos up to 2mm in vfg aphanitic matrix.**		
		also hornblende phenos altering to chlorite?		
		3-5% fg pyrite and /or pyrrhotite in meandering veinlets and disseminations.		
		occ white to pink, altered patches with pyrrhotite, feldspar and quartz (potassic?)		
129.2-167.1	37.9	**Dark, monotonous massive siltstone/metapelite. Less than 1% pyritic**		
		veinlets, some as bedding partings. (withquartz, adularia or carbonate?)		
		at 144.5m occasional irregular pyrite clumps across bedding. Syngenetic?		
		at 145m fg sandstone/quartzite bed 0.5m thick		
		at 148m there is 0.5m zone of pyrite threads and en-echelon along bedding		
		at 150.3m is a 2cm oval pyrite framboid?		
		157-158.4m broken/shattered core, ?chlorite altered.		
167.1-176.9	9.8	**Sanidine or plagioclase phyric porphyry with phenocrysts up to 15 mm in length.**	**0.09**	**167.1-169**
		5m central zone (169.9-173.7m) of dyke altered with destruction of coarse porphyritic texture.		
		Includes brecciated fragments with equigranular plag textures and other phases at 171.2m	**0.07**	**169-172**
		Alteration fronts coming off pyrite veinlets. 3-5 % pyrite as disseminations		
		and blebs in veinlets.	**0.12**	**172-175**
		at 173m coarse recrystalized pyrite vein, 3 cm thick.		
		Wall rock xenoliths of pink fg sediment in dyke at 173.6m	**0.3**	**175-176.9**
		An altered, brecciated, possibly composite, mineralised dyke		
		with possible contact between phases at 169.9m		
176.9-198.4	21.5	**Dark, monotonous, metapelite/siltstone**		
		176.9- 198.4m occasional, meandering pyrite veins to 1cm thick (perhaps early) then		
		for rest of section < 1% pyrite threads and cross cutting (later) veinlets less than 1mm thick		
		and pyrite bedding partings. Some pyrite veins include dominant quartz and or calcite.		
		at 183.6m, a 50cm bed of pale, fg siltstone/quartzite, bed/ core axis angle of 60 degrees		
		at 187.5m, a 6cm bed of fg pyrrhotite (syngenetic after pyrite?)		
		at 197.3m, 6cm accretion of pyrrhotite with fringe of recrystallised cg pyrite		
198.4- 200.3	1.9	**Dyke rock, equigranular to porphyritic with plag phenos and some ferromag phases**	**0.69**	**198.4-200.3**

		altering to epidote?		
		3-5% disseminated and blebby pyrite to 2cm and veinlet pyrite		
		Dyke has propylitic epidote alteration and perhaps silicification		
200.3- 207.7	7.4	**Dark, monotonous, massive metapelite/siltstone**		
		trace late stage, brittle fractures to 1mm with quartz and pyrite veins to 1cm thick (at 206m)		
		Sedimentary Section 70 - 207.7m above assigned to the Woody Island Siltstone Formation		
		all of the sediments have been hardened to hornfelses due to thermal metamorphism from the dykes		
		some of the mineralised clasts above may be after glendonites		
207.7- 219.2	**11.5**	**Tilllite**	**NSA**	**207.7- EOH**
		poorly sorted, matrix supported, angular to rounded clasts to 16cm		
		trace, late stage, brittle veining with pyrite to < 1mm thick		
		also occasional early, irregular, diffuse pyrrhotite/ chlorite? veins		
		with alteration selvages up to 1cm thick		
		Contact with above siltstone gradational		
		This Section is Truro Tillite Formation		
219.2		**END OF HOLE Cut, sampled and logged by Robin Duncan, July, 2007**		
		*** gold values entered above detection limit of 0.01**		
		NSA--- not sampled or assayed		