Assessment Report on the 2010 Drilling Program
On the SPANISH MOUNTAIN PROPERTY

APPENDIX I

DRILL LOGS

Volume II of III

10-DDH-899	North :5827703	East :604457	Elevation :1172.5	Hole Length :322.48	Azimuth :90	Dip :-75	Logged by :JAS	Size :HQ	15 July 2011

Depth At	Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Casing	No core recovered.					
	Siltstone, argillite	Med grey, fine gr siltstone with lesser dk grey fine gr argillitic interbeds (to 15% of unit) and one 15cm section with cong pebbles (7.7m). Whole unit is rubbly with a lot of limonite stained fractures representing the top of the hole. A vuggy appearance is due to the degradation of ankerite close to the surface. More argillitic sections have trails of pyrite xls to 5mm along bedding and frac planes. Structure in unit mainly defined by what probably is bedding color changes (various greys) and emphasized by thin coatings of quartz to 3mm wide. Pyrite crystals to 5mm have grown along these quartz veinlets. Ankerite forms blebs and rhombs to 7mm, and averages 8-10% of core surface. Other than in minor arg sections the pyrite forms less than 0.5% of rock. Bedding: ‹ @ 8.53 SO 23° › ‹ @ 3.00 QV2 74° 0.6cm › ‹ @ 4.60 QVbull 0° 4.0cm, rubble ›					
5		Med grey, fairly uniform siltstone with rare structural effects defined by changes in the grey color, trails or collections fine ankerite spotting, or fine quartz veinlets that appear to follow a bedding/foliation(?) in the rock. One bull quartz vein - rubble but probably about 8cm - at 10.65m. Pyrite overall about 0.2 to 0.5% of rock. Ankerite as collections of 1mm specks in zones, up to 1cm in diam, forms up to 6-8% of core. 12.72 to 13.38m - rubble zone, limonite coated, caused by drilling of a highly frac area. ‹ @ 10.65 QVbull 0° 8.0cm, rubble › ‹ @ 16.75 SO 26° › bedding - color changes, lines of ankerite ‹ @ 16.53 QVbull 45° 1.5cm ›					
	Siltstone	Black, fine grained, well foliated, weakly competent argillite with sections of increased graphite and mafics returning as rubble-mud in the core box in two places approx 10cm each. 2-3% of unit thin quartz veining along or crosscutting foliation/bedding planes bring out the deformation/crenulation/small scale folding that this soft rock has undergone. Pyrite xls from 3-5mm and larger (one clot 2 by 5cm) form 1-2% of rock. Ankerite forms up to 3% of the rock as specks to clots up to 8mm. ‹ @ 18.25 SO 60° › ‹ @ 18.66 QV2 73° 0.5cm ›					
10		Light to med grey, fine grained, coarsely to finely banded siltstone unit. 1% fine quartz veinlets define bedding as well as cross-cutting faults that displace the bedding on a cm scale. Local small scale crenulations/folding. A sort of crackle breccia in rock highlighted by black (chlorite?) occurs rarely, more obvious in the felsic sections. Two 3-4cm wide cong beds at 27.4m. 8-15% ankerite blebs and rhombs in the usual two size ranges - specks about 2mm and rhombs between 4 and 8mm. Pyrite as blebs along bedding/foliation and as fills in small tension fracs, form less than 0.5% of rock. Graphite very minor in more mafic, argillitic seams. Fault zone: « 21.80- 21.87 FZ -50°0°, gouge» (section of 60cm of rubble and gouge) Bull quartz veins: ‹ @ 21.70 QV 0° 6.0cm › ‹ @ 22.85 QV 66° 8.0cm › ‹ @ 27.60 QV 22° 15.0cm ›					
15		‹ @ 19.10 SO 29° › bedding defined by strong color changes. Graphite slickenside: ‹ @ 20.50 alpha 57° › ‹ @ 20.50 beta 0° › ‹ @ 20.50 gamma 3°, looking downhole, the core ahead of me has moved towards me ›					
	Argillite	Siltstone, highly brecciated to rubble, light to med grey. More competent pieces show it to be the same as prev unit. A sub parallel fault probably the cause. Three zones of clay-rock grind. « py 1.2% 2-10mm»					
		Siltstone: med to dk grey, f gr, banded due to color change. Fining a stretch but possibly down hole due to color gradation (darker min to lighter min). One 10cm graph arg, rubble. Less than 1% fine qtz lines (first gen). « py 3.0% 2-7mm» throughout, always growing from fracs. « ank 30.0%» as the two populations - 2mm and large rhombs 5-7mm. ‹ @ 21.00 SO 40° › bedding					
20		Fault zone, graphitic argillite, faintly limy. 30% more competent siltstone blocks. 70% of unit highly friable, crushed to gouge, dark grey to black argillite. Siltstone blocks show banding. One bull qtz vein. Py growth along bedding. Only in siltstone does ankerite appear prominent (15%, 2mm pop only). Rare in arg. ‹ @ 35.80 QVbull 43° 1.0cm › bull qtz « py 3.0-5.0% 1-25mm» 5% pyrite in more arg sections ‹ @ 34.05 SO 42° › beds in siltstone Fault gouge areas: ‹ @ 33.90 FZ 42° 5.0cm ›					
	Siltstone	Banded siltstone (70%) and argillite, med grey to black, wk to mod graphitic, fine grained, banded rock. Incompetent arg returns poorly, mainly friable to rubble. One section gouge.: ‹ @ 36.70 FZ 72° 2.8cm › ‹ @ 38.05 SO 67° › bedding No significant quartz. Pyrite xls, trains, hi % in arg: « py 0.5-8.0% 2-8mm»					
25		Crystal Tuff with lapilli: med grey, med-coarse grained uniform rock. Except for the first 15cm, which has a interbedded effect with the overlying siltstone, there is only the faint alignment of xls and lapilli to reveal the primary structure. Lapilli are f gr, lt grey and up to 8mm long. Bedding ‹ @ 40.07 SO 34° › Pyrite more common as large 0.5 to 1cm xls. « py 0.2-0.5% 1-10mm» Quartz ‹ @ 40.35 QVbull 16° 1.0cm › ‹ @ 40.54 QVbull 47° 0.5cm › ‹ @ 41.50 QVbull 43° 1.0cm › Faulting: ‹ @ 42.17 FZ 60° 10.0cm ›					
30	Fault						
	Siltstone	Fault zone in argillite: More competent pieces are a very dk grey-black siltstone arg, but more than half ground to gouge. Mod to strong graphite. No angle available. One bull quartz vein: ‹ @ 43.60 QVbull 70° 8.5cm › Bedding ‹ @ 43.30 SO 8° › Pyrite: « py 0.2-2.0% 1-4mm»					
35	Fault						
	Siltstone, argillite	Crystal tuff: same unit as at 40-43.25m but lapilli not as prominent. Lower contact with siltstone/arg is blocky/faulted and hard to read but appears to "layer" into the sediments over about 0.5m. About 8% of unit is quartz veining, all 3 gen: ‹ @ 45.48 QV1 35° 0.1cm › ‹ @ 45.65 QV2 29° 0.3cm, qtz py › ‹ @ 45.85 QVbull 32° 3.5cm › Pyrite « py -0.5% 1-8mm»					
40		Fault Zone: Argillite-siltstone - blocky to gouge, f gr, med grey to black, mod to strong graphite. Again about 5-8% of rock is quartz veins. Clot of bull qtz (7cm) but irreg. ‹ @ 48.05 QV1 18° 0.2cm › Lost core « 47.14- 47.94 LC » Pyrite forms about 1-3% of unit as xls up to 5mm and vugs along planes. Ankerite Up to 10% of surface. Fault attitude:					
	Crystal Tuff		VA10145385	I095306	41.59	43.5	0.1
	Fault	Interbedded siltstone and argillite, 50/50: light grey through to black, fine grained, mod to strong graphitic in arg, well foliated and banded - finer banding in the more felsic siltstone units. The darker arg units show more ductility, small movements and fols shown by the thin first gen quartz and pyrite trains. About 5-8% of the rock is fine qtz veining paralleling and crosscutting fabric. Pyrite overall is 7-8% although it can get to 10-12 in the black argillitic units. « py 7.0-8.0%»	VA10145385	I095307	43.5	45	0.73
45	Crystal Tuff	Ankerite mainly small 23-3mm spots, along banding in siltstone. « ank 5.0%»	VA10145385	I095309	45	46.5	0.06
	Fault	‹ @ 51.21 SO 60° › ‹ @ 52.50 SO 43° › ‹ @ 55.75 SO 3° › flat lying for almost 2m. ‹ @ 57.90 SO 50° › Quartz: ‹ @ 54.95 Qvbull 30° 1.0cm, ptygmatic ›	VA10145385	I095310	46.5	49.16	0.12
	Siltstone, Argillite						

10-DDH-899	North :5827703	East :604457	Elevation :1172.5	Hole Length :322.48	Azimuth :90	Dip :-75	Logged by :JAS	Size :HQ	15 July 2011

Depth At	Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
55	Siltstone, Argillite	Interbedded siltstone and argillite, 50/50: light grey through to black, fine grained, mod to strong graphitic in arg, well foliated and banded - finer banding in the more felsic siltstone units. The darker arg units show more ductility, small movements and fols shown by the thin first gen quartz and pyrite trains. About 5-8% of the rock is fine qtz veining paralleling and crosscutting fabric. Pyrite overall is 7-8% although it can get to 10-12 in the black argillitic units. « py 7.0-8.0%» Ankerite mainly small 23-3mm spots, along banding in siltstone. « ank 5.0%» ‹ @ 51.21 SO 60° › ‹ @ 52.50 SO 43° › ‹ @ 55.75 SO 3° › flat lying for almost 2m. ‹ @ 57.90 SO 50° › Quartz: ‹ @ 54.95 Qvbull 30° 1.0cm, ptygmatic › ‹ @ 55.25 Qvbull 42° 5.0cm, qtz py › ‹ @ 59.80 Qvbull 88° 3.5cm ›					
60	Siltstone	Siltstone: med to dk grey, fine grained, mod graphitic in darker units, fabric defined by thin first gen quartz lines - as always these show small scale structural movement in the more mafic sections of the siltstone. In the lighter grey more felsic siltstone, bands are there, but represented by subtle color changes, and changes in % of ankerite and/or py. Only 2 bull qtz: ‹ @ 61.66 QVbull 44° 3.0cm › ‹ @ 68.37 QVbull 38° 6.0cm › Pyrite: « py 1.0-4.0% 1-10mm» Ankerite mainly the 2mm speckled alteration, varies 5 to 25% of surface. ‹ @ 61.20 SO 43° › ‹ @ 64.05 SO 68° › ‹ @ 66.77 SO 55° ›					
65							
70	Siltstone, Argillite	Siltstone (70%) and argillite: as at 49.38 to 60.12m. Here the more mafic arg units have a greater component of fine lines of first gen qtz, both along and at angles to the fabric (up to 30% of rock in places). Mod graph in the arg rock. Fault zone: ‹ @ 76.40 FZ 64° 6.0cm › gouge Slickenside ‹ @ 76.35 alpha 64° › ‹ @ 76.35 beta 0° › ‹ @ 76.35 gamma 50° › graphite Pyrite has dropped in quantity here « py 0.5-3.0% 2-8mm» Ankerite varies and can give a banded effect to the rock, covering from less than 3% to greater than 35% of the surface, predominantly the 2mm speckles but also rhombs to 7mm. In some of the more monotone rock there must be a compositional banding that the ankerite is reflecting. ‹ @ 71.28 SO 68° › ‹ @ 74.64 SO 65° › Quartz ‹ @ 74.57 QV2 33° 7.0cm ›					
75	Crystal Tuff	Crystal tuff: m gr, massive in appearance, 1-2mm feldspar xls noted. Rock is masked by approx 40% coverage of ankerite xls mainly of the 2mm size. Distinctly lacks pyrite xls but has minor small blebs, grains.					
	Fault	Fault Zone: argillite, black, high graphite, 0.5-5% py, 35% of zone is rock grind and gouge. ‹ @ 78.71 FZ 77° 6.0cm, gouge › ‹ @ 78.97 FZ 87° 8.0cm, gouge › Pyrite « py 0.5-5.0% 2-10mm» Bull quartz right at the beginning, rubble.					
80	Jigsaw Volcanic	Jigsaw Volcanics - with 30% f.gr. bedded to laminated sections of siltstone. The rock can show a bedded nature also but only in small sections that appear to have been truncated - this rock gives the appearance of a jumbled mixture of what used to be a bedded sequence. However it tends to morph a bit further into a jumbled rock that has almost lost all coherent fabric, except a ghosting of what could be the old truncated and rotated rafts of sed rock. Pyrite more common as large xls but can form small trains along fol. « py 0.5-2.0% 2-10mm» Quartz ‹ @ 82.90 QVbull 43° 15.0cm, py, vg › Visible gold ‹ @ 82.90 VG , 0.8mm, with a py grain ›					
85	Crystal Tuff, Siltstone	Crystal tuff is massive, lt to med grey, fine grained with varying amts of m.gr. feld/qtz xls. Rare lithic frag. Start of interval rock has appearance of the jigsaw volcanics but with more uniform horizons becoming predominant, so suspect was just a form of the tuff. A faint Lt cream alteration (10% A) shows in approx 15% of unit. Interbeds of a finely laminated siltstone may be fine ash layers? The last 4.5m is strong rubble throughout (mod graph) but no real gouge. At 93.5m 15cm of a chloritic lt green-grey rock that is extremely friable and just crumbled during drilling. Ankerite spotted throughout covers up to 40% of surfaces more commonly 2-4mm size although the larger 7-8mm rhombs are in first half of unit. Pyrite mainly just large xls. « py 0.2-2.0% 2-25mm» ‹ @ 83.95 SO 39° › ‹ @ 85.44 SO 50° › ‹ @ 89.30 SO 43° › ‹ @ 90.60 QV2 27° 1.4cm, qtz plag › ‹ @ 92.00 QV2 47° 0.6cm, qtz, plag, vuggy › ‹ @ 95.02 QVbull 20° 1.9cm › « ser -10%»					
90							
95		Blocky, volcanics, gouge zones, 3 bull qtz zones. Rock is mixed massive xl tuff and the more jumbled, brecciated grey rock. Both rock types are irregularly mixed, contorted beds. Rare possible lithic frag. Alteration appears to selectively choose the massive tuff lenses/beds over the grey, but unit on average is 10%A. Gouge zones: ‹ @ 98.80 FZ 38° 24.0cm › ‹ @ 100.56 FZ 38° 8.0cm › ‹ @ 101.78 FZ 47° 2.5cm › Bull quartz: ‹ @ 98.16 Qvbull 40° 20.0cm › ‹ @ 99.90 Qvbull 48° 9.5cm › ‹ @ 100.40 Qvbull 10° 2.0cm, irreg › Pyrite as grains and cubes on fracs and as large xls scattered throughout both rocks, probably rooted on a frac. « py 0.2-3.0% 2-12mm» Ankerite more prominent in the massive tuff rock covers 35% of surface.					
	Fault						

Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-899	North :5827703	East :604457	Elevation :1172.5	Hole Length :322.48	Azimuth :90	Dip :-75	Logged by :JAS	Size :HQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Fault	Blocky, volcanics, gouge zones, 3 bull qtz zones. Rock is mixed massive xl tuff and the more jumbled, brecciated grey rock. Both rock types are irregularly mixed, contorted beds. Rare possible lithic frag. Alteration appears to selectively choose the massive tuff lenses/beds over the grey, but unit on average is 10%A. Gouge zones: ‹ @ 98.80 FZ 38° 24.0cm › ‹ @ 100.56 FZ 38° 8.0cm › ‹ @ 101.78 FZ 47° 2.5cm ›					
105	Alt Jigsaw Volcanic	Bull quartz: ‹ @ 98.16 Qvbull 40° 20.0cm › ‹ @ 99.90 Qvbull 48° 9.5cm › ‹ @ 100.40 Qvbull 10° 2.0cm, irreg › Pyrite as grains and cubes on fracs and as large xls scattered throughout both rocks, probably rooted on a frac. Altered volcanic rock (10%A), mainly the jigsaw appearance, 5% lenses of the massive tuff, not common. Rare dk grey lithic frag up to 12mm. Very c.gr. QFP dyke 22cm at 106.77m. (?) « ser 10%» « ank 40.0%» mainly 2-4mm. ‹ @ 104.20 QVbull 48° 41.0cm › ‹ @ 104.98 QV2 63° 1.1cm, qtz/feld › ‹ @ 109.06 QV2 36° 1.1cm, qtz/py/chl › « py 0.5-2.0% 1-16mm»					
110	Fault	Fault zone in variably altered volcanics (0 to 70%A). Lt green cream, possibly a xl tuff with sections or rafts of med to dk grey, grwk? Bull qtz - about 35cm area of qtz rubble, one measurement taken ‹ @ 109.30 QVbull 36° › « py 1.0-8.0% 1-10mm»					
	Jigsaw Volcanics	Jigsaw volcanics , med to dk grey (0%A), with minor clots/lenses of lighter grey xl tuff (5% of rock at most). pyrite along foliation and as large cubes: « py 2.0% 1-11mm» Quartz ‹ @ 114.20 QV2 24° 1.5cm, two 1cm displacements along the vein › This vein shows centimetre scale displacements that explain why this volcanic unit has such a jumbled, incoherent structure to it. All of the slips have been healed. ‹ @ 115.35 Qvbull 55° 4.2cm, This vein shows no displ ›					
115	Fault	Fault zone in volcanic rock, as in prev unit. Limy - mod rxtn to acid - suspect it's in the grind mainly. Pyrite « py 3.0% 1-9mm» Quartz ‹ @ 115.90 QVbull 30° 3.2cm › Faults measurable: ‹ @ 116.72 FZ 18° 10.0cm, Low angle, amt of gouge est ›					
	Crystal Tuff	Mainly crystal tuff, med to dk grey, fine gr, poor foliation- appears to be chloritized bio and other mafics in wisps and lines. Rough banded appearance but always irreg/truncated. Some finely laminated sections appear as small rafts. Pyrite « py 2.0% 1-6mm» ‹ @ 117.80 QVbull 32° 2.4cm › ‹ @ 119.23 QV 40° 1.4cm › contains 1cpy grain 2x6mm. ‹ @ 119.47 QVbull 57° 2.7cm, one sphal/py grain 5x4mm › Ankerite from specks to up to 4mm rhombs cover 25% of rock.					
120	Altered Crystal Tuff	Interbedded crystal lithic tuffs, lt cream green, fine grained with qtz/feld grains and regular lithic frags. Mainly uniform and massive looking but a fabric and rough interbedding are there. First 1-2 metres 20% alteration of rock, then becomes well altered to about 60%. Chlorite still is present giving the green tinge to the rocks and as rims around some of the more mafic minerals(?) Sericite has invaded the mafics and feldspars, and uniformly thru groundmass. Ankerite is possibly 15-25 of the rock surface but the fresh rock tends to show it the same color as the altered vol crystals. « ser 60%» Pyrite: « py 0.3% 1-8mm» ‹ @ 121.41 S1 60 00° ›					
125	Jigsaw Volcanics, crystal tuff	Slightly altered (5%) jigsaw volcanics with 20% crystal lithic tuff. Good lt to med grey, commonly 6x4mm liths. Overall the unit is fine and med grained, med grey with tinge of lt green, the ankerite rhombs standing out as a more cream-lt green in color - they seem to be the most affected during this phase. Banding/foliation is rough and irreg. « ser 10%» Ankerite spotting from 2-5mm covers 20% of unit. « ank 5.0%» Pyrite mainly cubes, « py 0.5% 2-8mm» Quartz ‹ @ 128.96 QV2 62° 0.4cm › ‹ @ 129.89 QVbull 47° 2.6cm › ‹ @ 132.38 QVbull 53° 1.1cm ›					
130	Altered Jigsaw Volcanics	Altered jigsaw volcanics with 15% crystal lithic tuff, as in prev unit, but alt increases here. Highly irregular with some rafts still med grey, but aver 35% alteration. « ser 35%» Pyrite mainly along fractures, quartz veins, rare xls to 4mm. « py 0.2% 1-4mm» « ank 30.0%» Quartz					
135	Altered Jigsaw Volcanics	Jigsaw volcanics, varying shades of lt to med grey, clots and rafts show cream-lt green alteration, average est 10%. Ank rhombs stand out as the first to alter. « ser 10%» Ankerite in both sizes, rhombs to 4mm. Varies 10 to 30 but aver 15%. « ank 15.0%» Pyrite « py 0.5% 1-14mm» Quartz ‹ @ 136.72 QVbull 62° 1.5cm, qtz, feld › ‹ @ 137.90 QVbull 45° 1.2cm › ‹ @ 140.85 QVbull 41° 10.5cm › ‹ @ 141.52 QVbull 70° 6.8cm › Possible axial planar fracturing: open fracs, rare sulphide specks, probably assoc with cross structures. photo taken for Stuart. ‹ @ 141.80 ax 16° ›					
140	Crystal Tuff	Fairly uniform qtz-feld crystal tuff, poor fabric, rare lithic frag. First metre lt cream-green (50%A) but bulk of rock very light alteration (5%). « ser 5%» Pyrite « py 0.2% 1mm» Lacks QVs					
145	Andesite	Andesite: massive in appearance but has a fabric to the minerals: f.gr, lt grey-green rock. Chl fairly well dispersed but does collect along irreg features. Very slight alteration to ser. « ser 5%» « py 0.5% 2-7mm» ‹ @ 149.00 QV2 42° 0.9cm, qtz, carb, feld, chrome mica › This vein subparallels core for 45cm					

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-899	North :5827703	East :604457	Elevation :1172.5	Hole Length :322.48	Azimuth :90	Dip :-75	Logged by :JAS	Size :HQ	15 July 2011

Depth At	Geology: Rocktype	Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
150	Andesite	Andesite: massive in appearance but has a fabric to the minerals: f.gr, lt grey-green rock. Chl fairly well dispersed but does collect along irreg features. Very slight alteration to ser. « ser 5%» « py 0.5% 2-7mm» ‹ @ 149.00 QV2 12° 0.9cm, qtz, carb, feld, chrome mica › This vein subparallels core for 45cm.					
	Andesite, Tuff	Interbedded andesite, fine bedded tuff (15%) and a conglomerate bed 26cm centered at 152.65m (rounded pebbles up to 3x5cm, each with a bleached halo). Tuff forms horizons up to 25cm thru the unit, showing fining downwards from the usual xl tuff to finely bedded. Predominant color is lt grey green, alteration being about the same as prev unit. « ser 5%» « py 0.2% 1-5mm» lacks Qtz veining « ank 15.0%» Bedded f.gr. tuff: ‹ @ 153.60 SO 45° ›					
155	Andesite, Crystal Tuff	Interbedded Andesite and crystal tuff (est 40%). Alteration has increased here - possibly 35%. « ser 35%» Rock is lt cream green, less grey, uniform - only obvious change is degree of ankerite and the alteration effect on these ankerites. In some horizons the ankerite rhombs are the usual cream color but with a strong green chlorite rim, possibly a rock composition change. « ank 35.0%» « py 0.2% 1mm» Quartz ‹ @ 158.98 QVbull 72° 2.2cm › ‹ @ 159.44 QV2 41° 0.7cm ›					
160	Andesite	Appears to be a rapidly interbedded, possibly more mafic volcanic (increased chlorite seams and along fracs) with 3 bands (3-5cm each) of finely bedded tuffs. Otherwise similar to prev unit in alteration. and in the unique appearance of the chlorite rimmed ankerites (here there is also an increase of chlorite content in the rocks themselves. « chl 3%» « ser 35%» Lacks quartz Tuff bedding: ‹ @ 160.45 SO 31° › ‹ @ 161.36 SO 42° › « ank 25.0%» « py 0.2% 1-3mm»					
	Fault	Fault zone - mainly a very blocky, section of the andesite-crystal tuff unit with a number of small shear movements. « chl 2%» « ser 35%» « ank 25.0%» « py 0.2% 1-6mm» ‹ @ 164.52 QV2 40° 0.7cm ›					
165	Crystal Tuff	Crystal tuff - some very fine, uniform phases that could be labelled andesite. An 80cm green tinged cr-mica altered rock at 167.5m that would have been tagged a "mafic dyke". Minor chlorite rich sections in the first 1.5m, represent the end of the more mafic volcanics. « ser 30%» « ank 35.0%» « py 0.5% 1-5mm» « chl 1%» Quartz ‹ @ 167.65 QVbull 85° 15.5cm › ‹ @ 168.12 QVbull 82° 2.1cm › ‹ @ 168.64 QVbull 78° 14.0cm › ‹ @ 165.54 SO 28° › tuff bedding					
170	Conglomerate	Conglomerate, polymictic, dominantly pebbles with on average 20-30% med grey groundmass. Pebbles are greys to lt cream-green, approx one-third underwent alteration. Rounded to subrounded with sizes from grains to 5cm. Some zones show stretching, possibly 3 or 4 to 1, other zones don't show this. One note is that there are small (3mm) cr-mica rich pebbles that may have come from an altered "mafic dyke" although none logged in this hole so far. « ser 5%» ‹ @ 173.10 QVbull 82° 6.8cm › ‹ @ 172.70 QV2 60° 2.8cm › « py 0.1% 1-2mm» « ank 15.0%»					
175	Crystal Tuff	‹ @ 172.46 SO 34° › « chl 4%»					
	Siltstone, Argillite	Crystal Lithic Tuff, minor horizon of possible fine congl. Rock is med grey, fine gr with med to c gr grains of feld-qtz and grey lithic fragments o.5-1% of unit. No alt here. « ank 15.0%» ‹ @ 175.05 SO 43° › « py 0.5% 1-12mm» ‹ @ 175.58 QV2 75° 2.6cm ›					
180		Banded siltstone and graphitic argillite (20%): f.gr. lt to dk grey finely banded to dk grey-black massive rock. Thin spider veining of felsic material throughout, crosscuts/parallels primary fabric. Minor bands of siltstone could be tuffaceous but not standing out as a unit. Argillite subunits are more friable, graphitic, minor limy and form the rubble, schistose sections. No gouge but narrow rock-grind surface coating common. Limy rxtns appear to come from calcite along some (not all) of the crosscutting spider veins. The ankerite in these areas appears to fizz more rapidly than normal and there may a carbonate stage in the argillite - or some of the argil units - that is either robbing or giving to the ankerite. « ank 20.0%» « py 1.0% 1-11mm» ‹ @ 177.72 FZ 84° 5.0cm, gouge › Slickenside ‹ @ 177.72 alpha 60° › ‹ @ 177.72 beta 0° › ‹ @ 177.72 gamma 187° › ‹ @ 180.55 SO 46° › ‹ @ 182.68 SO 44° › ‹ @ 188.73 SO 42° › slickenside ‹ @ 182.27 alpha 52° › ‹ @ 182.27 beta 0° › ‹ @ 182.27 gamma 3° › ‹ @ 178.94 QVbull 72° 1.9cm › ‹ @ 179.13 QV2 78° 2.1cm › ‹ @ 181.68 QV2 30° 0.3cm ›					
185							
190	Fault	Fault zone in graphitic argillite: black, mainly graphitic to clay rich rubble. 2-3 gouge clots but no angles to trust. The clay grind reacts to acid but only in places. « py 2.0% 2-7mm» ‹ @ 191.75 QV2 45° 0.7cm ›					
	Siltstone, Argillite	Banded siltstone and graphitic argillite (40%). Siltstones are f.gr., lt to med grey, largely massive but also inter bedded in the arg packages. Although a competent rock one 60cm zone at 195m returned rubble, possibly drill related. Argillites are fine grained, black, competent to schistose to friable, forming rubble zones with increasing graphite content. Thin spider veins of felsic material occur through the rock. Clay grind in some of the rubble sections are minor limy.					
195		‹ @ 193.80 QVbull 33° 0.6cm › ‹ @ 198.70 QV2 38° 0.2cm › ‹ @ 198.71 QV2 34° 0.8cm › ‹ @ 203.68 QV2 78° 1.0cm › « py 0.8% 2-20mm» « ank 15.0%» as the usual 1mm specks and rhombs to 7mm. ‹ @ 196.00 SO 47° › ‹ @ 202.80 SO 65° › ‹ @ 197.10 FZ 0° 15.0cm, no angle readable, just highly crushed rock ›					

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-899	North :5827703	East :604457	Elevation :1172.5	Hole Length :322.48	Azimuth :90	Dip :-75	Logged by :JAS	Size :HQ	15 July 2011

Depth At	Geology: Rocktype	Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Siltstone, Argillite	Banded siltstone and graphitic argillite (40%). Siltstones are f.gr., lt to med grey, largely massive but also inter bedded in the arg packages. Although a competent rock one 60cm zone at 195m returned rubble, possibly drill related. Argillites are fine grained, black, competent to schistose to friable, forming rubble zones with increasing graphite content. Thin spider veins of felsic material occur through the rock. Clay grind in some of the rubble sections are minor limy. ‹ @ 193.80 QVbull 33° 0.6cm › ‹ @ 198.70 QV2 38° 0.2cm › ‹ @ 198.71 QV2 34° 0.8cm › ‹ @ 203.68 QV2 78° 1.0cm › « py 0.8% 2-20mm» « ank 15.0%» as the usual 1mm specks and rhombs to 7mm. ‹ @ 196.00 SO 47° › ‹ @ 202.80 SO 65° › ‹ @ 197.10 FZ 0° 15.0cm, no angle readable, just highly crushed rock ›					
205	Fault	Fault zone in a graphitic argillite to siltstone rock. Rock is coined, brecciated rubble to gouge. ‹ @ 205.54 FZ 70° 21.0cm › large gouge zone « ank 15.0%» « py 1.0% 2-8mm»					
210	Siltstone, Argillite	Siltstones and argillites, moderate to finely interbedded, lt to dk greys, the siltstone component dominant at about 70%. Thin felsic lines commonly cut thru the darker horizons. Rare bands of massive siltstone 20 to 40 cm wide, but still display fine dark lines defining a bedding when wet. « ank 20.0%» « py 0.5% 1-11mm» ‹ @ 207.07 SO 54° › ‹ @ 212.82 SO 63° › ‹ @ 215.02 SO 68° › ‹ @ 219.30 SO 70° › Quartz ‹ @ 206.90 QV2 41°, cuts qv1, q/feld, rock frags › ‹ @ 209.68 QV2 77° 0.8cm, rock frags, 8% py cubes, 1.5mm speck galena › ‹ @ 211.91 Qvbull 78° 6.8cm › ‹ @ 212.44 Qvbull 83° 8.0cm › ‹ @ 214.66 Qvbull 79° 1.2cm › ‹ @ 215.22 Qvbull 54° 4.0cm › ‹ @ 218.59 QV 70° 6.0cm › ‹ @ 220.35 Qvbull 65° 1.6cm › Faults ‹ @ 217.53 FZ 70° 2.8cm, gouge ›					
215							
220	Argillite, Siltstone	Argillite with siltstone (10%). Graphitic, dk grey to black, f.gr, well foliated to schistose/friable argillite results in a large % of blocky to rubbly core in this section. Fault areas where obvious are noted. Some limy sections also noted. Clay coating on drill core also noticeably limy. Thin white felsic veins as usual in argil. « ank 12.0%» « py 2.0% 1-8mm» ‹ @ 222.95 SO 63° › ‹ @ 225.38 SO 56° › Faults ‹ @ 221.52 FZ 0° 2.0cm, angle unknown, rock grind, clay › ‹ @ 223.57 FZ 0°, clay, to gouge, angle unknown › ‹ @ 225.58 FZ 60° 2.3cm, gouge › ‹ @ 225.70 FZ 78° 1.0cm, gouge › ‹ @ 226.44 FZ 69° 0.5cm, gouge › Quartz ‹ @ 226.54 QV2 73° 0.6cm, grey tones, QF, cuts orig spider veining › ‹ @ 226.53 QVbull 85° 2.8cm, cuts QV2vein ›					
225							
230	Tuff, siltstone, conglomerate	Interbedded finely banded tuffs with possibly some lesser graphitic siltstones (possibly 25%, or less) and one 60cm band of what appears to be a more mafic conglomerate - rounded grey and black pebbles less than 1cm in length, aligned parallel the bedding (at 228.55m). Overall rock is lt to dk grey, well laminated or banded, fine grained and competent. Probably a mixed period of sedimentation and tuff deposits. « py 1.0% 1-7mm» « ank 15.0%» ‹ @ 228.80 SO 48° › Quartz ‹ @ 227.22 QVbull 58° 11.0cm › ‹ @ 227.95 QVbull 56° 9.7cm › ‹ @ 228.16 QV2 27° 0.5cm, lt grey, QF ›	VA10145385	I095311	228.17	230	1.03
			VA10145385	I095312	230	231.5	0.16
	Jigsaw Volcanics	Jigsaw volcanics - mainly a jumble of volcanic horizons, rare sections of probable siltstones (graph on planes). . As a whole though a highly disorganized collection of foliations, boudins, rafts, all the same lt to med grey color, all basically the same rock composition. Sericite alt varies 0 to 15 but changes rapidly - aver 5% « ser 5%» « ank 25.0%» « py 0.3% 1-12mm» ‹ @ 236.24 SO 65° › ‹ @ 241.50 SO 56° › Quartz ‹ @ 231.36 QVbull 60° 9.5cm › ‹ @ 238.99 QVbull 75° 1.3cm › ‹ @ 240.86 QVbull 43° 2.1cm › ‹ @ 243.19 QVbull 70° 0.9cm › ‹ @ 244.72 QVbull 90° 2.2cm ›	VA10145385	I095313	231.5	233	0.025
235			VA10145385	I095314	233	234.5	0.025
			VA10145385	I095315	234.5	236	0.025
			VA10145385	I095316	236	237.5	0.025
			VA10145385	I095318	237.5	239	0.025
240			VA10145385	I095319	239	240.5	0.025
			VA10145385	I095320	240.5	242	0.025
			VA10145385	I095322	242	243.5	0.025
			VA10145385	I095323	243.5	245	0.025
245		Interbedded coarsely banded volcanic tuffs and jigsaw tuffs. Med to dk grey, mainly f.gr., poorly banded, rock, graph present on planes only rarely so suspect not a sed. « py 0.2% 1-4mm» « ank 15.0%» ‹ @ 248.75 SO 57° › ‹ @ 253.43 SO 70° › Quartz ‹ @ 248.97 QVbull 60° 2.8cm › ‹ @ 251.30 QVbull 54° 2.3cm › ‹ @ 252.42 QVbull 84° 2.1cm › ‹ @ 254.40 QV2 72° 0.5cm, grey, QF ›	VA10145385	I095324	245	246.5	0.025
			VA10145385	I095325	246.5	248	0.025

10-DDH-899	North :5827703	East :604457	Elevation :1172.5	Hole Length :322.48	Azimuth :90	Dip :-75	Logged by :JAS	Size :HQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250	Tuffs, Jigsaw Volcanics	Interbedded coarsely banded volcanic tuffs and jigsaw tuffs. Med to dk grey, mainly f.gr., poorly banded, rock, graph present on planes only rarely so suspect not a sed. « py 0.2% 1-4mm» « ank 15.0%» ‹ @ 248.75 SO 57° › ‹ @ 253.43 SO 70° › Quartz ‹ @ 248.97 QVbull 60° 2.8cm › ‹ @ 251.30 QVbull 54° 2.3cm › ‹ @ 252.42 QVbull 84° 2.1cm › ‹ @ 254.40 QV2 72° 0.5cm, grey, QF ›	VA10145385	I095327	248	249.5	0.05
			VA10145385	I095328	249.5	251	0.025
			VA10145385	I095329	251	252.5	0.33
			VA10145385	I095330	252.5	254	0.05
255		Fault zone in argillite, med to dk grey to black, f.gr., graphitic, with uniformly finely bedded to contorted, broken bedding, grading toward cataclasite in appearance. Majority of unit broken rubble to schistose rock, to gouge. Minor, more competent pieces used for the following estimates: « py 0.5% 1-4mm» « ank 10.0%» ‹ @ 255.69 SO 62° ›	VA10145385	I095331	254	255.5	0.11
			VA10145385	I095332	255.5	257	0.08
	Fault	‹ @ 257.23 QV2 83° 0.7cm, grey, QF py › Faults: ‹ @ 255.81 FZ 87° 4.0cm, gouge › ‹ @ 258.05 FZ 50° 10.0cm, 20 cm mixed rock crush and clay gouge › ‹ @ 258.90 FZ 70° 1.0cm ›	VA10145385	I095333	257	258.5	0.08
260		« lm 2» crush in fault zone mod rxtn to acid.	VA10145385	I095334	258.5	260	0.025
	Argillite	Argillite with 75cm reworked siltstone band. Light through to dark grey, finely banded, graphitic, resembles conglomerate in places with rounded pebbles of the siltstone in darker matrix. « py 1.2% 1-6mm» « ank 8.0%»	VA10145385	I095335	260	261.5	0.025
			VA10145385	I095337	261.5	263	0.025
	Fault	‹ @ 262.25 SO 50° ›	VA10145385	I095338	263	264.5	0.08
265		Fault zone in argillite - dk grey to black, schistose to highly ground/clay. No good block of gouge but shearing took place. ‹ @ 263.62 FZ 50° 4.5cm, ground, almost gouge › ‹ @ 264.03 FZ 48° 2.0cm, more than 2cm clay, grind, hard to judge › « py 2.5% 1-5mm» « ank 15.0%»	VA10145385	I095339	264.5	266	0.35
	Argillite	Argillite, lesser siltstone (20%) - graphitic, f.gr., med to dk grey, black, good fabric, probably original but shows movement and breakage of silty laminate, beds. « py 3.0% 1-27mm» « ank 12.0%» ‹ @ 267.56 SO 65° ›	VA10145385	I095341	266	267.5	0.33
			VA10145385	I095342	267.5	269	0.025
270	Fault	Fault zone in argillite - dk grey to black, mainly schistose frags to rubble. « py 3.0% 1-6mm» « ank 12.0%» ‹ @ 270.16 FZ 26° 5.0cm, gouge and rock grind, suspect larger ›	VA10145385	I095343	269	270.5	0.06
		Cataclasite - basically reworked graphitic metaseds (siltstones and argillites, est. 70/30). Lt to dk grained, fine grained, probably a finely interbedded nature but more felsic beds have been broken, boudined, rotated but retain an overall fabric direction. Unique is the pyrite which is roughly evenly dispersed as fine grains to med clots along fabric (1mm x 4-5mm) as if the cubes were also disaggregated during the reworking. Cubes still present but greatly reduced. « py 3.0% 1-12mm» « ank 12.0%» ‹ @ 277.50 SO 62° › ‹ @ 287.22 SO 67° › ‹ @ 295.60 SO 55° › ‹ @ 305.65 SO 70° › ‹ @ 309.10 SO 67° › ‹ @ 271.50 FZ 50° 2.0cm, plus 10cm rock grind › ‹ @ 286.52 FZ 43° 15.0cm, small gouge plus 10 › ‹ @ 289.86 FZ 62° 8.0cm, clay, rock grind › ‹ @ 300.77 FZ 28° 5.0cm, clay, rock grind › Quartz ‹ @ 271.23 QV2 80° 1.3cm, grey, minor py, cuts first but shows deformation › ‹ @ 283.36 QV2 75° 1.4cm › ‹ @ 289.98 QV2 67° 2.2cm › ‹ @ 309.00 QV2 0° 0.9cm, subparallels for 1.4m › ‹ @ 310.72 QV2 88° 2.0cm, ptygmatic, subparallels for 35cm ›	VA10145385	I095344	270.5	272	0.56
275			VA10145385	I095345	272	273.5	0.17
			VA10145385	I095346	273.5	275	0.11
			VA10145385	I095348	275	276.5	0.025
			VA10145385	I095349	276.5	278	0.025
			VA10145385	I095350	278	279.5	0.025
280			VA10145385	I095351	279.5	281	0.13
			VA10145385	I095352	281	282.5	0.12
			VA10145385	I095353	282.5	284	0.15
	Cataclasite		VA10145385	I095354	284	285.5	0.025
285			VA10145385	I095355	285.5	287	0.025
			VA10145385	I095356	287	288.5	0.08
			VA10145385	I095358	288.5	290	0.09
290			VA10145385	I095359	290	291.5	0.17
			VA10145385	I095360	291.5	293	0.24
			VA10145385	I095361	293	294.5	0.09
295			VA10145385	I095363	294.5	296	0.2
			VA10145385	I095364	296	297.5	0.11

10-DDH-899	North :5827703	East :604457	Elevation :1172.5	Hole Length :322.48	Azimuth :90	Dip :-75	Logged by :JAS	Size :HQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
300	Cataclasite	Cataclasite - basically reworked graphitic metaseds (siltstones and argillites, est. 70/30). Lt to dk grained, fine grained, probably a finely interbedded nature but more felsic beds have been broken, boudined, rotated but retain an overall fabric direction. Unique is the pyrite which is roughly evenly dispersed as fine grains to med clots along fabric (1mm x 4-5mm) as if the cubes were also disaggregated during the reworking. Cubes still present but greatly reduced. « py 3.0% 1-12mm» « ank 12.0%» ‹ @ 277.50 SO 62° › ‹ @ 287.22 SO 67° › ‹ @ 295.60 SO 55° › ‹ @ 305.65 SO 70° › ‹ @ 309.10 SO 67° › ‹ @ 271.50 FZ 50° 2.0cm, plus 10cm rock grind › ‹ @ 286.52 FZ 43° 15.0cm, small gouge plus 10 › ‹ @ 289.86 FZ 62° 8.0cm, clay, rock grind › ‹ @ 300.77 FZ 28° 5.0cm, clay, rock grind › Quartz ‹ @ 271.23 QV2 80° 1.3cm, grey, minor py, cuts first but shows deformation › ‹ @ 283.36 QV2 75° 1.4cm › ‹ @ 289.98 QV2 67° 2.2cm › ‹ @ 309.00 QV2 0° 0.9cm, subparallels for 1.4m › ‹ @ 310.72 QV2 88° 2.0cm, ptygmatic, subparallels for 35cm ›	VA10145385	I095365	297.5	299	0.09
			VA10145385	I095366	299	300.5	0.06
			VA10145385	I095367	300.5	302	0.22
			VA10145385	I095369	302	303.5	0.11
305			VA10145385	I095370	303.5	305	0.07
			VA10145385	I095371	305	306.5	0.05
			VA10145385	I095372	306.5	308	0.41
			VA10145385	I095373	308	309.5	0.28
310			VA10145385	I095374	309.5	311	0.55
			VA10145385	I095375	311	312.5	0.08
			VA10145385	I095376	312.5	314	0.025
315	Fault	Fault zone in argillite, lesser cataclasite (top 3m). Argil gets progressively graphite rich until it is almost pure graph in bottom 3m. ‹ @ 311.47 FZ 45° 32.0cm, gouge and rock grind › ‹ @ 314.35 FZ 60° 60.0cm, gouge, rock grind › ‹ @ 315.28 FZ 63° 4.6cm, gouge › ‹ @ 319.16 FZ 66° 5.4cm, gouge but prob alot more as 1.6m core lost ›	VA10145385	I095378	314	315.5	0.26
			VA10145385	I095379	315.5	317	0.07
320			VA10145385	I095380	317	320.5	0.025
	EOH	Holed reached target depth.	VA10145385	I095381	320.5	322.48	0.025
325							
330							
335							
340							
345							

10-DDH-900	North :5827799	East :604353	Elevation :1151.3	Hole Length :338.65	Azimuth :90	Dip :-77	Logged by :EAG	Size :HQ	15 July 2011

Depth At	Geology: Rocktype	Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
5	Casing	Casing					
10	Siltstone	Fg dark grey massive siltstone. Banded with v.fg dark grey argillite (40%). 7.62-8.5m and 10-11m broken up due to drilling- no fault gouge. bedding visible but highly deformed in places. Deformed fine felsic veinlets concentrated in argillite crosscutting bedding (30-40%). ‹ @ 9.04 QV2 57° 0.8cm, Pyrite along vein › ‹ @ 9.31 QVbull 59° 1.1cm, Qz _Fspar vein › ‹ @ 13.74 QVbull 33° 0.6cm, Qz 60% Fspar 40% clean\ › ‹ @ 13.89 QV1 60° 0.1cm, Spider vein › « py 1.5% 1.0-12.0mm» « ank 12.0%» ‹ @ 14.29 SO 11° › ‹ @ 12.30 SO 24° › Axial planar stress fractures defined by pyrite _quartz in voids. ‹ @ 14.94 ax 29° › ‹ @ 14.94 SO 54° › ‹ @ 14.94 beta 285°, measured from axial plane of fractures to plane of S0 ›					
15	Fault	fault zone: fractured siltstone and graphitic argillite w/ fault gouge. can measure fault plane « 15.54- 15.65 FZ 35°» bedding visible in some argillite- ‹ @ 15.73 SO 33° › large fractured quartz vein at base of fault unit ‹ @ 16.44 QVbull 0° 28.0cm, vein fractured so no alpha › « 15.16- 16.64 py 0.1% 1.0-12.0mm»					
20	Argillite (Graphitic)	Massive dark grey v. fg Argillite, interbedded with fg grained grey siltstone on the scale of 5mm-0.6m. Top of unit has thickest layer of siltstone (0.6m). Argillite varies in graphite concentration with high concentration locally creating fractures in the core. Micro folding in quartz spider veins found locally in argillite. Faulting visible throughout on a scale of cm to 10s cm with gouge _grind defining regions. Qz veins often defined by Py concentrations (QV2?) ‹ @ 17.21 QV2 41° 0.1cm, may be QV1? › ‹ @ 17.82 QV2 53° 0.2cm, Py concentration › ‹ @ 21.81 QV2 42° 0.3cm, 3 parallel veins comp Py 70%, Fspar 20%, Qz 10% › ‹ @ 29.41 QVbull 0° 5.5cm, fractured qz vein in fault zone › ‹ @ 24.42 QV1 35° 0.1cm, thin spider vein › « py 4.0% 0.5-40.0mm» « ank 12.0%» S0 bedding more visible in coarser rock or at boundary. ‹ @ 25.41 SO 14° › ‹ @ 34.76 SO 29° › ‹ @ 32.79 SO 35° › ‹ @ 26.43 SO 26° › ‹ @ 22.38 FZ 25° 3.0cm, fault grind, slickensides visible › ‹ @ 29.51 FZ 36° 2.0cm, fault gouge › ‹ @ 30.47 FZ 47° 1.5cm, fault gouge › ‹ @ 31.31 FZ 50° 2.5cm, gouge ›					
30		Fractured area consisting of blocky broken rock _fault gouge. V. fg dark grey argillite bedded with fg dark grey siltstone on a 10cm scale. Deformed fine felsic veinlets found through argillite. « py 1.0% 1.0-3.0mm» « ank 4.0%» Bedding ‹ @ 37.20 SO 65° › between argillite and siltstone banding ‹ @ 36.86 SO 40° › Fault planes. Gouge found at ‹ @ 35.34 FZ 0° 3.5cm, Fault gouge no plane measurable › ‹ @ 36.05 FZ 0° 3.0cm, No plane, gouge reacts with acid › ‹ @ 36.46 FZ 0° 2.5cm, No plane, fault gouge › ‹ @ 37.61 FZ 0° 13.0cm, Fault gouge, no plane › ‹ @ 36.93 FZ 21°, End of drill pipe so no gouge, slicks vis › « lm 2»					
35	Fault	Dark grey v.fg argillite (70%) bedded with coarser fg siltstone (30%) layers. Competent rock bedded on a cm-20cm scale. Some thin spider veinlets visible in streaks parallel to drill axis. Not as graphitic as previous argillite units. Small pyrite concentrations (<0.5mm) found in coarse siltstone layers. Qz veins: ‹ @ 39.16 QV2 57° 0.2cm, 30% py › ‹ @ 39.88 QV2 58° 0.2cm, 35% PY › ‹ @ 40.23 QV2 65° 0.3cm, 10% py › ‹ @ 40.88 QV1 22° 0.5mm › « py 3.0% 0.2-4.0mm» « ank 8.0%» Bedding: ‹ @ 39.81 SO 49° › Faults: ‹ @ 38.30 FZ 60° 2.0cm, 2cm of gouge › ‹ @ 39.26 FZ 66° 3.0cm, 3cm of grind › Acid: Produced 3 reaction on fine white powder in fracture at 37.9m. « lm , slight ankerite reaction but no rock reaction» « 37.90- 37.91 lm 3»					
40	Argillite	Grey v.fg-fg rock bedded with fg felsic tuff with meta-seds argillite _siltstone. Bedding reworked in areas with clasts of argillite visible in the tuff areas. Some xls (Qz <1mm) in tuff and dark lithics 1x12mm lie flat with bedding. Slight sericitic alteration in the lowest tuff unit (bottom 34cm). Qz: ‹ @ 41.56 QVbull 19° 1.2cm, vein splits in 2 › ‹ @ 41.92 QV2 60° 0.20cm, 10% py › ‹ @ 45.54 QV1 55° 4.0mm › ‹ @ 45.67 QV1 36° 5.0mm › Bedding: ‹ @ 43.67 SO 36° › ‹ @ 47.08 SO 68° › ‹ @ 41.80 SO 42° › Faults: ‹ @ 46.79 FZ 64° 3.5cm, filled with gouge _qz vein › « py 0.5% 0.5-4.0mm» « ank 25.0%» « 47.08- 47.43 ser 10%»					
45	Tuff bedded with argillite _siltstone	Top of unit finely banded consisting of fg siltstone with tuff and dark grey v.fg argillite (15%). Bedding on a scale of mm-10s cm with concentrations of Py defining some beds. Bottom of unit more competent siltstone with few bedding fractures. Overall competent rock with fractures along bedding- usually where this a higher concentration of graphite in argillite. Qz veins: ‹ @ 48.02 QV1 72° 2.0mm › ‹ @ 48.49 QV2 75° 0.20cm, 80% euhedral py veinlet › ‹ @ 48.94 QV1 59° 1.0mm › ‹ @ 49.15 QVbull 0° 6.0cm, Not measurable: drill fracture › ‹ @ 51.01 QV2 70° 0.40cm › ‹ @ 50.29 QV1 21° 0.5mm ›					
	Siltstone	Bedding: ‹ @ 47.56 SO 62° › ‹ @ 49.64 SO 65° › ‹ @ 51.83 SO 30° › « py 2.0% 0.5-5.0mm» « ank 13.0%»					

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-900	North :5827799	East :604353	Elevation :1151.3	Hole Length :338.65	Azimuth :90	Dip :-77	Logged by :EAG	Size :HQ	15 July 2011

Depth At	Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Siltstone	Top of unit finely banded consisting of fg siltstone with tuff and dark grey v.fg argillite (15%). Bedding on a scale of mm-10s cm with concentrations of Py defining some beds. Bottom of unit more competent siltstone with few bedding fractures. Overall competent rock with fractures along bedding- usually where this a higher concentration of graphite in argillite. Qz veins: ‹ @ 48.02 QV1 72° 2.0mm › ‹ @ 48.49 QV2 75° 0.20cm, 80% euhedral py veinlet › ‹ @ 48.94 QV1 59° 1.0mm › ‹ @ 49.15 QVbull 0° 6.0cm, Not measurable: drill fracture › ‹ @ 51.01 QV2 70° 0.40cm › ‹ @ 50.29 QV1 21° 0.5mm › Bedding: ‹ @ 47.56 SO 62° › ‹ @ 49.64 SO 65° › ‹ @ 51.83 SO 30° › « py 2.0% 0.5-5.0mm» « ank 13.0%»					
55		Tuff- medium-dark grey coarsly banded fg with qz xls _small lithic fragments located irregularly but not often enough to distinguish as a unit. 5% of rock has the white spider veins _darker banding with graphite along bedding planes which indicates presence of sed horizons. Euhedral Py cubes scattered throughout, concentrations along bedding planes. Pyrite: « py 0.7% 1.0-14.0mm» Ank: « ank 15.0%» Bedding: ‹ @ 52.88 SO 69° › ‹ @ 59.80 SO 65° › ‹ @ 67.82 SO 73° › Qz: ‹ @ 54.35 QVbull 65° 2.0cm, Contains rk frags _1cm py › ‹ @ 57.74 QVbull 62° 2.2cm › ‹ @ 58.76 QVbull 52° 36.0cm › ‹ @ 63.36 QVbull 40° 1.2cm › Faults: ‹ @ 56.77 FZ 58° 5.0cm, ground rock, rubble over 10cm › ‹ @ 58.96 FZ 52° 1.0cm, gouge ›					
60	Tuff						
65		Altered crystal tuff - cream with a faint tinge lt.green, f.gr. with med.gr. qtz, zones with lt grey to cream-alt lithic frags less than 1cm, faint rough banding visible throughout. Sharp hairline contacts define the boundary of the alteration front. Minor blacklined fracs in places (chl?). « ser 60%» « ank 25.0%» « py 0.2% 1.0-6.0mm» Mainly some scattered collections of cubes ‹ @ 70.25 SO 42° › Upper contact ‹ @ 75.77 SO 45° › Lower contact - these two are very fine qtz lines ‹ @ 70.84 SO 55° › ‹ @ 73.72 SO 37° › ‹ @ 72.82 FZ 70° 3.4cm, gouge, by qtzvein › ‹ @ 72.62 QVbull 70° 35.0cm ›					
70		Lithic tuff - fine to coarsely banded, lt to dk greys, fine grained with qtz xls but lithic frags define this unit scattered irregularly throughout as med to dk grey angular pieces up to 6cm x 0.5cm, aver 1cm x 0.2cm. Good example of fining downhole is at 83.44 where percentage of frags high at beginning then lessen over 10 cm to rare (and finer in size) over the next 15cm, where the next sequence starts. Of note at these areas of increasing frags there is increasing pyrite cubes. Less than 5% of unit could be termed a dk grey-black siltstone interbedded with the tuff - mainly at 81.75m. Unit is variably altered 5-10%. « ser 7%» « py 0.5% 1.0-17.0mm» « ank 20.0%» as the two size ranges, 1mm and rhombs aver 2-3mm. Bedding angles change: ‹ @ 77.30 SO 70° › ‹ @ 82.05 SO 33° › ‹ @ 85.10 SO 30° › ‹ @ 76.05 Qvbull 38° 1.9cm, QF › ‹ @ 78.69 Qvbull 45° 0.7cm, irreg › ‹ @ 79.92 Qvbull 71° 1.1cm › ‹ @ 80.50 QV2 83° 1.10cm, QF grey › ‹ @ 82.60 Qvbull 47° 1.6cm › ‹ @ 84.79 Qvbull 87° 11.2cm ›					
75	Altered crystal tuff						
80		Crystal Tuff - Unit similar to prev but lacks the lithic fragments component. Variably altered 5-10%, greys to lt cream overprint, f.gr. with quartz xls, coarse to finely bedded. At 87.3m 30cm could be termed "jigsaw volcanics" . Unit shows flattening so structure in area. Bedding: ‹ @ 87.50 SO 43° › ‹ @ 90.65 SO 14° › ‹ @ 92.28 SO 0° › Parallel to core axis ‹ @ 94.35 SO 23° › Pyrite: « py 0.2% 0.5-7.0mm» Ank : « ank 20.0%» Faults: ‹ @ 89.67 FZ 65° 13.0cm, gouge › Qz: ‹ @ 89.39 QVbull 46° 22.0cm, 4 galena specks at contact › ‹ @ 89.69 QVbull 68° 15.0cm › ‹ @ 91.82 QVbull 65° 0.7cm › Sericite: « ser 7%» Chlorite: « 90.00- 91.50 chl 3%» Chlorite on fractures _rimming ankerite					
85	Lithic Tuff						
90		Crystal Tuff- coarsely banded to rare fine banding, fg, shades of grey to bleached lt cream- lt green. Xls qz through unit fspars hard to judge. Rare lithic fragments 1-2mm. Minor more grey sections resemble previous rock. Minor units <1m of v.fg massive looking rock- andesite? Rock is well fractured to rubble, hard to drill in places. From 100.9-105.17 increase in Chl along fractures and Ank rims. Qz: ‹ @ 95.37 QV2 57° 1.80cm, grey, QF, py 5mm › ‹ @ 96.45 QVbull 54° 2.9cm › ‹ @ 97.57 QVbull 50° 7.3cm › ‹ @ 97.88 QVbull 58° 4.3cm › ‹ @ 102.92 QVbull 65° 5.5cm › Py: « py 0.1% 2.0-4.0mm» Ank: « ank 17.0%» Bedding: ‹ @ 96.00 SO 25° › ‹ @ 98.03 SO 58° › ‹ @ 101.18 SO 30° › Sericite: « 94.73- 105.17 ser 40%» Chlorite: « 100.90- 105.17 chl 2%, rimming of ank _fractures»					
95	Crystal Tuff						

Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-900	North :5827799	East :604353	Elevation :1151.3	Hole Length :338.65	Azimuth :90	Dip :-77	Logged by :EAG	Size :HQ	15 July 2011

Depth At	Geology: Rocktype	Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
100	Crystal Tuff	Crystal Tuff- coarsely banded to rare fine banding, fg, shades of grey to bleached lt cream- lt green. Xls qz through unit fspars hard to judge. Rare lithic fragments 1-2mm. Minor more grey sections resemble previous rock. Minor units <1m of v.fg massive looking rock- andesite? Rock is well fractured to rubble, hard to drill in places. From 100.9-105.17 increase in Chl along fractures and Ank rims. Qz: ‹ @ 95.37 QV2 57° 1.80cm, grey, QF, py 5mm › ‹ @ 96.45 QVbull 54° 2.9cm › ‹ @ 97.57 QVbull 50° 7.3cm › ‹ @ 97.88 QVbull 58° 4.3cm › ‹ @ 102.92 QVbull 65° 5.5cm › Py: « py 0.1% 2.0-4.0mm» Ank: « ank 17.0%» Bedding: ‹ @ 96.00 SO 25° › ‹ @ 98.03 SO 58° ›					
105	Crystal Tuff						
110	Fault	Crystal Tuff- Similar to previous but less alteration. Dark grey fg rock with fg-mg qz xls. Poorly banded to rare sections of finely banded sections, possible very minor sed phase usually over 6-8cm. Unit basically unaltered apart from a few sections. Lower 1m appears more mafic volcanic rock- chlorite 3-4% Rock has a number of rubble sections- poor to drill. Pyrite: « py 0.1% 1.0-7.0mm» Ankerite : « ank 25.0%» Qz: ‹ @ 107.50 QVbull 63° 12.0cm › ‹ @ 108.68 QVbull 60° 1.0cm › Bedding: ‹ @ 108.36 SO 20° › ‹ @ 105.24 SO 38° ›					
115	Crystal Tuff						
120	Jigsaw volcanics	Fault- Fractured fault zone with mostly grind but some gouge. Dark grey fg crystal tuff similar to previous unit. Finely-coarsely bedded and some reworking, likely by fault, in places. Qz xls 1-2mm concentrated in areas with few small lithics. Also seen concentration of larger lithics up to 6x2mm in area (111.52-111.70m) which has a coarsening downhole texture. Some sediments in thin 5-10mm bands as well shown by higher concentrations of graphite. Qz: ‹ @ 111.81 QV2 64° 0.10cm, contains fragments of surrounding rock › ‹ @ 112.32 QVbull 78° 5.0cm, milky white vein, poss fspar? › Bedding: ‹ @ 111.38 SO 31° › Faults: ‹ @ 112.05 FZ 0° 5.0cm, gouge, not measurable ›					
125		Crystal, Lithic Tuff- Dark grey fg to cg tuff. Thinly to coarsely bedded with 'jigsaw volcanics' in the lower half. Coarser areas with concentrated qz xls 1-2mm and flattened black lithic fragments 2-3mm in length concentrated in finer beds. Qz: ‹ @ 113.54 QVbull 70° 1.4cm, 3 parallel veins up to 14mm. Galena present › Faults: ‹ @ 115.26 FZ 45° 30.0cm, 2cm gouge, fractured bull qz vein › ‹ @ 115.45 FZ 75° 4.0cm, 4cm gouge + grind › Bedding: ‹ @ 114.05 SO 42° ›					
130	Altered Andesite	Jigsaw volcanics with recognizable small sections of crystal tuff - here the bedded tuffs have begun to have a brecciated, micro-faulted appearance along a network of parallel and anastomosing thin black lines. Overall the rock varies in shades of lt cream-lt grey cut by numerous black lines. « ser 10%» « py 1.2% 1.0-18.0mm» « ank 12.0%» ‹ @ 124.10 FZ 48° 5.0cm, gouge with 30cm crushd rock › 2-3 small zones of rubble but lack the gouge or fine grind-clay. ‹ @ 117.13 QV2 57° 0.50cm, 2 irreg. grey tones › ‹ @ 118.40 QV2 65° 1.40cm, grey mas py cubes to 25% ofveins ›					
135	Jigsaw volcanics	Altered andesite, mainly massive fine grained, lt cream in appearance with a minor banding and occurrence of chloritic volcanics at top. « ser 60%» « py 0.5% 1.0-7.0mm» « ank 15.0%» ‹ @ 131.64 SO 35° › ‹ @ 134.65 SO 70° › sharp lower contact of alteration					
140	Andesite, altered with xl tuff	Jigsaw volcanics with minor recognizable tuff portions. Med to lt grey with overtones of the cream alteration. Overall rock shows small scale fracs/rotations to give the jumbled appearance. « ser 5%» « py 0.5% 1.0-9.0mm» « ank 15.0%» ‹ @ 136.37 QVbull 58° 3.5cm › ‹ @ 137.45 QVbull 60° 1.0cm ›					
145	Crystal Tuff	Altered Andesite with interbeds of a massive looking crystal tuff - but has quartz xls and rare bleached lithic frag. Predom f.gr., lt cream color. One 30cm band of the slightly more chloritic volcanic (1-2% chl). « ser 50%» « py 0.1% 1.0-3.0mm» « ank 10.0%» Crystal Tuff- fg. grey to lt grey crystal tuff with few lithics with varying low alteration, up to 5%. Bedding visible on a fine to medium scale but about 5% jigsaw appearance visible by more felsic spidery anastomising veins. Qz: ‹ @ 143.56 QV2 72° 0.30cm › ‹ @ 148.28 QVbull 56° 0.5cm, Fspar xls growing in from sides › ‹ @ 148.60 QVbull 23° 1.2cm › « py 0.1% 1.0-6.0mm» « ank 5.0%» Bedding: ‹ @ 145.57 SO 28° › ‹ @ 142.95 SO 29° › Faulting:					

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-900	North :5827799	East :604353	Elevation :1151.3	Hole Length :338.65	Azimuth :90	Dip :-77	Logged by :EAG	Size :HQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
150	Crystal Tuff	Crystal Tuff- fg. grey to lt grey crystal tuff with few lithics with varying low alteration, up to 5%. Bedding visible on a fine to medium scale but about 5% jigsaw appearance visible by more felsic spidery anastomising veins.						
	Fault Zone- Crystal Tuff	Qz: ‹ @ 143.56 QV2 72° 0.30cm › ‹ @ 148.28 QVbull 56° 0.5cm, Fspar xls growing in from sides › ‹ @ 148.60 QVbull 23° 1.2cm › « py 0.1% 1.0-6.0mm» « ank 5.0%» Bedding:						
155	Fault Zone- Crystal Tuff	Fault Zone: Highly fractured unit consisting of dark to lt grey fg crystal tuff with sparse lithics. Contains 2 layers (30-50cm) of pegmatitic texture composed predominantly of large qz grains and dotted with angular fragments of surrounding rock. Low alteration in this faulted unit. Qz: ‹ @ 149.66 QVbull 14° 2.0cm › « py 0.1% 0.5-3.0mm»						
160		Fault Zone- Similar to unit above but more alteration and no pegmatitic textures. Some chlorite staining around ankerite xls. LOST CORE 1.5m between block 158.8-161.85m Qz: ‹ @ 158.20 QVbull 61° 38.0cm › ‹ @ 162.10 QV2 30° 0.50cm ›						
	Crystal Tuff	Crystal Tuff- lt grey fg-cg crystal tuff containing a few black lithics <1mm. Coarser areas with qz xls 1-2mm confined to bands 10-30cm. Bedding not obvious- possible lineation of mins in coarser areas. Alteration consistent throughout unit with some localised chlorite alt at the beginning of the unit. Qz: ‹ @ 165.72 QVbull 82° 1.8cm › ‹ @ 167.42 QVbull 46° 7.8cm, fault gouge on downhole side ›						
165		Crystal Lithic Tuff- Grey to lt grey fg-mg tuff containing qz xls up to 2mm. Lithics pervasive through first metre up to 2% conc. Slight jigsaw texture throughout defined by thin black anastomising veins. Bedding not visible. Little to no alteration. Qz: ‹ @ 168.03 QVbull 65° 2.0cm › ‹ @ 168.13 QVbull 60° 1.6cm › ‹ @ 168.31 QVbull 75° 1.2cm › ‹ @ 168.43 QVbull 64° 1.7cm ›						
	Crystal Lithic Tuff	Crystal Tuff- Pale grey with slight green tint. fg-mg crystal tuff. Lithics not common but green altered specks visible throughout unit- start of chrome mica alteration leading to following units? Qz xls rare but some seen up to 2mm. Also possible large fspar xl 4mm. Qz: ‹ @ 170.84 QVbull 45° 1.3cm, vein is bent to 90deg to core axis › ‹ @ 170.64 QV2 89° 0.15cm ›						
170	Crystal Tuff	Fault zone- Fractured crystal tuff similar to previous unit. 2 gouge zones present. Chlorite alteration visible rimming ankerite throughout. Qz: ‹ @ 173.09 QV2 41° 0.20cm › « ank 5.0%»						
	Fault							
	Crystal Tuff (chrome mica alt)	Crystal Tuff (chrome mica alt)- pale to bright green fg crystal tuff. Bedding possibly emphasised by colour but not clear. Green colour attributed to chrome mice alteration and dark green staining to chlorite. Chlorite varies throughout but predominantly occurs in the first half- possibly more mafic composition. Chlorite appears in bands which in places are disjointed and cross cut by thin veins. Creates some slight foliation along which clean straight fractures occur. Qz: ‹ @ 173.75 QV1 50° 2.0mm › ‹ @ 174.30 QV1 68° 2.0mm › ‹ @ 176.07 QV1 70° 1.5mm ›						
175	Crystal Tuff	Crystal Tuff w/ slight jigsaw texture- lt grey fg crystal tuff. Slight jigsaw volcanic texture shown by darker veinlets. Moderate sericitic alteration throughout unit. Qz: ‹ @ 178.88 QVbull 62° 2.2cm, contains py ±cpy xls up to 10mm › ‹ @ 177.65 QVbull 20° 0.8cm › ‹ @ 179.31 QV2 10° 1.10cm cross cut by surrounding rock suggesting earlier emplacement›						
180	Conglomerate	Volcanic Conglomerate: Dark grey (lighter clasts) v. coarsely grained brecciated rock formed of angular clasts 5-15mm. Matrix supported competent rock with some banding visible due to alignment of clasts. Contains green stained clasts 1-2mm throughout the unit. Qz: ‹ @ 181.12 QVbull 25° 2.5cm ›	VA10145381	I095829	179.89	181.5	0.09	
	Crystal Lithic Tuff	Crystal Lithic Tuff- Fg-cg Dark grey to grey crystal tuff. Contains high concs (up to 10%) of black flattened lithics up to 6mm in length which are aligned creating some slight bedding. Few areas of very mild jigsaw texture defined by black veins. Qz: ‹ @ 186.28 QVbull 65° 0.8cm › ‹ @ 186.76 QV2 9° 0.10cm › ‹ @ 184.36 QVbull 64° 1.0cm › ‹ @ 185.05 QVbull 54° 1.0cm › ‹ @ 185.93 QVbull 66° 1.4cm › « py 0.1% 0.5-1.0mm» « ank 9.0%»	VA10145381	I095830	181.5	183.21	0.63	
185		Siltstone/Argillite: Dark grey to black siltstone with argillite (40%). V. fg rock with compositional banding visible but highly deformed. Rock has pervasive fine white spider veins running through it. Fractures across core dominated by high conc areas of graphite. Qz: ‹ @ 187.61 QV1 61° 2.0mm › ‹ @ 186.92 QV1 40° 1.5mm › ‹ @ 190.34 QV2 43° 0.30cm › ‹ @ 190.44 QVbull 40° 1.5cm › ‹ @ 192.44 QVbull 60° 1.5cm › ‹ @ 192.75 QV1 51° 2.5mm, deformed by fg arg bed › ‹ @ 194.08 QV1 38° 1.5mm, deformed vein ›						
190	Siltstone / Argillite	Fault Zone: Fractured v.fg black argillite (70%) ±dark grey siltstone (30%) unit with 4 areas of fault gouge (10-15cm). High conc of graphite throughout so unit very broken up and no measurable fault surfaces. « py 3.0% 0.5-8.0mm» « ank 6.0%»						
		Siltstone/Argillite- fg grey siltstone (70%) bedded with v.fg. dark grey rock (30%). Bedding is planar in areas but broken up in others with siltstone boudins surrounded by a network of black argillite stringers- resembles cataclasite texture (15% of unit). Qz: ‹ @ 197.02 QVbull 75° 2.0cm, vein divides around arg layer › ‹ @ 199.58 QV2 60° 0.6cm ›						
195	Fault							
	Siltstone / Argillite	Py: « py 1.0% 1.0-10.0mm» Ank: « ank 3.0%» Bedding:						

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-900	North :5827799	East :604353	Elevation :1151.3	Hole Length :338.65	Azimuth :90	Dip :-77	Logged by :EAG	Size :HQ	15 July 2011

Depth At	Geology: Rocktype	Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Siltstone / Argillite	Siltstone/Argillite- fg grey siltstone (70%) bedded with v.fg. dark grey rock (30%). Bedding is planar in areas but broken up in others with siltstone boudins surrounded by a network of black argillite stringers- resembles cataclasite texture (15% of unit). Qz: ‹ @ 197.02 QVbull 75° 2.0cm, vein divides around arg layer › ‹ @ 199.58 QV2 60° 0.6cm ›					
	Fault Zone	Py: « py 1.0% 1.0-10.0mm» Ank: « ank 3.0%» Fault Zone- v.fg highly fractured black rock with some slightly coarser, more competent siltstone bands. 3 areas of fault gouge. Py: « py 1.0% 0.5-13.0mm» Ank: « ank 7.0%»					
205	Argillite	Bedding: Argillite: V.fg black rock (argillite 80-90%) with 3-6mm laminates of coarser dark grey siltstone. White felsic spider veins persist throughout the argillite bands. Rock fractures along bedding planes with high graphite concs. Unit contains rounded clasts 3-4mm of a coarser grained rock Qz: ‹ @ 204.83 QV1 75° 2.0mm, quite deformed, contains py xls › « py 0.5% 1.0-5.0mm» « ank 2.0%»					
210	Fault Zone	Fault Zone in Argillite: V.fg highly black argillite with thin laminates to medium beds of coarser siltstone. CORE LOSS: 1.05m Qz: ‹ @ 209.25 QVbull 77° 40.0cm, highly fractured so may not be good width measurement › ‹ @ 212.38 QVbull 72° 5.0cm › ‹ @ 212.00 QV1 53° 1.5mm, deformed vein ›					
	Siltstone	Py: « py 5.0% 1.0-11.0mm»					
215	Argillite / Siltstone	Siltstone: mg dark grey siltstone bed. Bedding not visible in unit and lacks white spidery veins. Some slight ankerite alteration visible. Qz: ‹ @ 213.20 QV1 58° 2.0mm, deformed vein › Py: « py 1.0% 0.5-4.0mm» Argillite/Siltstone: Predominantly (90%) black v.fg argillite but some thick laminates and medium beds of coarser dark grey siltstone. White felsic spider veins persistent throughout argillite with bedding clear in places and highly deformed in others. Fractures along bedding planes with high graphite conc. Qz: ‹ @ 215.24 QVbull 63° 2.3cm, contains thin band of argillite ›					
220	Fault Zone	‹ @ 215.93 QV2 56° 2.00cm, deformed vein containing bands of dark arg › ‹ @ 218.88 QV2 87° 2.20cm, deformed _cntains thin bands of arg › Fault Zone:- Highly fractured arg/siltstone unit. fault gouge _grind seen throughout. LOST CORE- 30cm Qz: ‹ @ 219.50 QVbull 60° 13.0cm, fractured vein ›	VA10145381	I095832	223.08	224.5	0.08
	Tuff _argillite	Py: « py 4.0% 1.0-7.0mm» Tuff _argillite with Jigsaw texture:- Fg grey tuff containing a few lithics (flattened black liths up to 12mm- possible argillite?). Has jigsaw texture created by fine black anastomising veins. Interbedding with argillite is seen at the ends of the unit- no clear contact between rock types. Thicker argillite (40cm) bed at the base of the unit. Qv: ‹ @ 221.45 QVbull 55° 3.3cm, qz _fspar(20%) ›	VA10145381	I095833	224.5	226	0.025
225	Crystal Lithic Tuff	‹ @ 221.30 QV2 7° 0.40cm, deformed vein › ‹ @ 222.10 QV2 12° 0.40cm, flat lying vein deformed › ‹ @ 222.45 QVbull 52° 6.0cm, contains 2 thin black laminae and specks of black throughout › Crystal Lithic Tuff:- Light to dark grey fg tuff with some qz xls visible. Lithics vary throughout but seen in abundance up to 3% in localized areas. Lithics are flattened black clasts, 1-8mm in length. Alteration is consistent throughout visible in the ankerite. Bedding planes are not seen but alignment of lithics give measurable planes. CORE LOSS- 60cm likely in a rubble area in the middle of the unit- possibly a fault zone?	VA10145381	I095834	226	227.5	0.11
230		Qz: ‹ @ 225.76 QVbull 50° 2.3cm › ‹ @ 226.30 QV2 26° 0.30cm, slightly deformed › ‹ @ 227.04 QVbull 68° 4.0cm › ‹ @ 227.49 QVbull 18° 1.5cm › ‹ @ 227.98 QVbull 70° 4.0cm › ‹ @ 228.89 QVbull 68° 0.7cm › ‹ @ 229.27 QVbull 60° 1.0cm ›	VA10145381	I095835	227.5	229.5	0.025
			VA10145381	I095837	229.5	231	0.09
			VA10145381	I095838	231	232.5	0.025
			VA10145381	I095839	232.5	234	0.07
235	Argillite w/ LC Tuff	Argillite bedded with Crystal Lithic Tuff:- Black v.fg. argillite thinly laminated to thickly bedded with dark grey fg xl lithic tuff. Argillite rich beds have white felsic spidery vein texture and tuff beds show alignment of lithics and more pronounced sericitic alteration of ankerite. Bedding generally visible throughout and rock fractures along bedding planes in areas of high graphite. Qz: ‹ @ 233.93 QV1 60° 1.0mm › ‹ @ 234.10 QV1 25° 1.0mm › ‹ @ 237.38 QV1 50° 1.5mm › ‹ @ 238.47 QV2 63° 0.40cm › ‹ @ 238.38 QVbull 86° 1.3cm › ‹ @ 240.92 QVbull 62° 4.0cm › Py: « py 2.0% 1.0-15.0mm» Ank: « ank 13.0%»	VA10145381	I095840	234	235.5	0.05
			VA10145381	I095841	235.5	237.25	0.14
			VA10145381	I095842	237.25	238.96	0.45
240							
	Lost Core	Lost core after fault- possible continuation of fault zone?					
	Argillite / Siltstone Cataclasite	Argillite/Siltstone Cataclasite:- Highly contorted unit consisting of v.fg. black argillite matrix (40%) surrounding broken up fg dark grey siltstone beds (50%) appearing as boudins. Argillite appears to flow around the siltstone giving a cataclasite texture. Also contained in the unit are some small beds (10-20cm) of volcanics (10%) showing the sericitic alteration of ankerite clearer. Pyrites are broken up, stretched and contorted with the argillite beds showing crystal growth prior to deformation. Argillite rich areas are also seen with high graphite concs showing deformation slickensides. Qz: ‹ @ 250.52 QV1 70° 1.0mm, contains fractured py xls › ‹ @ 254.95 QV2 65° 0.60cm, contorted › ‹ @ 261.90 QV2 58° 0.80cm › ‹ @ 263.64 QVbull 60° 1.5cm › ‹ @ 264.59 QVbull 40° 1.0cm, contorted › ‹ @ 268.94 QV2 49° 0.40cm, crumbled pyrite throughout vein ›					
245							

10-DDH-900	North :5827799	East :604353	Elevation :1151.3	Hole Length :338.65	Azimuth :90	Dip :-77	Logged by :EAG	Size :HQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
250	Argillite / Siltstone Cataclasite	Argillite/Siltstone Cataclasite:- Highly contorted unit consisting of v.fg. black argillite matrix (40%) surrounding broken up fg dark grey siltstone beds (50%) appearing as boudins. Argillite appears to flow around the siltstone giving a cataclasite texture. Also contained in the unit are some small beds (10-20cm) of volcanics (10%) showing the sericitic alteration of ankerite clearer. Pyrites are broken up, stretched and contorted with the argillite beds showing crystal growth prior to deformation. Argillite rich areas are also seen with high graphite concs showing deformation slickensides. Qz: ‹ @ 250.52 QV1 70° 1.0mm, contains fractured py xls › ‹ @ 254.95 QV2 65° 0.60cm, contorted › ‹ @ 261.90 QV2 58° 0.80cm › ‹ @ 263.64 QVbull 60° 1.5cm › ‹ @ 264.59 QVbull 40° 1.0cm, contorted › ‹ @ 268.94 QV2 49° 0.40cm, crumbled pyrite throughout vein › Py: « py 6.0% 0.5-11.0mm» Ank: « ank 3.0%» Bedding: ‹ @ 260.07 SO 37°, Alignment of py fragments in bed › ‹ @ 266.95 SO 48°, py alignment › Faults: ‹ @ 250.37 FZ 76° 3.0cm, gouge ›						
255								
260		Tuff with beds of siltstone argillite:- Dark grey fg tuff with lithics up to 2mm in places throughout the unit, bedded (contorted) with black v.fg argillite ,siltstones shown by graphitic abundance on bedding fractures. Unit is deformed shown by stretched pyrite xls, but also contains euhedral pyrite. Bottom of unit shows green chrome mica alteration (2-3%) (274.75-275.15m) and slight sericitic alteration is apparent throughout. Qz: ‹ @ 272.23 QV2 35° 0.15cm › ‹ @ 272.96 QV2 57° 0.15cm › ‹ @ 273.07 QVbull 40° 1.5cm › PY: « py 3.0% 0.5-15.0mm» Ank: « ank 11.0%» Bedding: ‹ @ 269.61 SO 40° ›						
265		Argillite/Siltstone Cataclasite:- similar to previous cataclasite unit. First metre is not so deformed and can make out thick laminate bedding but start of boudinage is visible. Qz: ‹ @ 277.38 QV1 33° 1.0mm, contorted vein › Py: « py 2.0% 0.5-4.0mm» Ank: « ank 8.0%» Bedding: ‹ @ 275.36 SO 45° ›						
270	Tuff / Argillite _ Siltstone	Fault- Arg/Silt Cataclasite:- Rock type similar to previous but highly fractured and with gouge areas every 1-1.5m. Qz: ‹ @ 283.37 QVbull 66° 1.5cm › ‹ @ 285.11 QVbull 60° 1.2cm › Py: « py 3.0% 0.5-4.0mm» Ank: « ank 7.0%» Bedding: ‹ @ 282.66 SO 48° › ‹ @ 282.00 SO 65° › Faults: ‹ @ 278.64 FZ 75° 12.0cm, grind › ‹ @ 279.81 FZ 85° 2.0cm, gouge › ‹ @ 281.13 FZ 50° 14.0cm, gouge › ‹ @ 281.61 FZ 58° 4.0cm, grind › ‹ @ 282.88 FZ 55° 7.0cm, grind › ‹ @ 284.85 FZ 0° 6.0cm, gouge, not measureable › ‹ @ 286.15 FZ 36° 3.0cm, grind ›						
275	Argillite / Siltstone Cataclasite							
280	Fault- Arg / Silt Cataclasite	Argillite/Siltstone Cataclasite:- Same as previous 2 cataclasite units. Lower 1m of unit is losing the cataclasite texture and moving towards a more laminate to thinly bedded sequence between the argillite (60%) _siltstone (40%), still contorted though. Qz: ‹ @ 293.69 QV2 57° 0.30cm, contorted qz vein › ‹ @ 294.55 QVbull 34° 1.8cm › Py: « py 3.0% 0.5-7.0mm» Ank: « ank 12.0%» Bedding: ‹ @ 287.42 SO 42°, alignment of flattened py xls › ‹ @ 291.35 SO 32°, py alignment › ‹ @ 295.21 SO 69° › Faults:						
285								
290	Argillite / Siltstone Cataclasite	Fault Zone in Arg/Silt:- Highly fractured unit in v.fg-fg black argillite (70%) dark grey siltstone (30%). Gouge _grind throughout. Py: « py 2.0% 0.5-2.0mm» Ank: not measurable Faults: ‹ @ 295.73 FZ 70° 30.0cm, gouge _grind, slicks visible at end › ‹ @ 296.35 FZ 53° 15.0cm, gouge _slicks ›						
295	Fault Zone in Arg / Silt	Argillite/Siltstone:- V.fg black argillite thickly laminated to thinly bedded with fg dark grey siltstone. Bedding visible but quite contorted- end of cataclasite texture. Areas high in graphite and pyrites still quite fractured filling across bedding planes. Qz: ‹ @ 297.69 QVbull 55° 13.0cm, vein is cross cut by arg beds, contains sph xls 2-3mm › ‹ @ 299.64 QV2 82° 0.80cm, contorted with py xls › PY: « py 7.0% 0.5-7.0mm» Ank: « ank 5.0%» Bedding: ‹ @ 298.50 SO 30° ›						
	Argillite / Siltstone							

Scale 1:200	Start Depth :247.98	End Depth :297.58	Page No.: 6

10-DDH-900	North :5827799	East :604353	Elevation :1151.3	Hole Length :338.65	Azimuth :90	Dip :-77	Logged by :EAG	Size :HQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
300	Argillite / Siltstone	Argillite/Siltstone:- V.fg black argillite thickly laminated to thinly bedded with fg dark grey siltstone. Bedding visible but quite contorted- end of cataclasite texture. Areas high in graphite and pyrites still quite fractured filling across bedding planes. Qz: ‹ @ 297.69 QVbull 55° 13.0cm, vein is cross cut by arg beds, contains sph xls 2-3mm › ‹ @ 299.64 QV2 82° 0.80cm, contorted with py xls › PY: « py 7.0% 0.5-7.0mm» Ank: « ank 5.0%» Bedding: ‹ @ 298.50 SO 30° › ‹ @ 300.80 SO 50° ›	VA10145381	I095843	297.5	299	2.59
			VA10145381	I095845	299	300.5	1.83
	Tuff bedded w/ Arg _ Silt	Tuff bedded w/ Argillite Siltstone:- mg. dark grey crystal lithic tuff thinly to thickly bedded with argillite _siltstone beds. Lithics <2mm and sparse throughout. Tuff generally bedded with siltstone but thicker argillite bed at the base of the unit. Qz: ‹ @ 302.18 QVbull 52° 0.9cm, contains sph xls 2mm › ‹ @ 304.78 QVbull 60° 3.7cm, contains poss VG › VG: ‹ @ 304.78 VG , Speck next to small sph xl › PY: « py 4.0% 0.5-14.0mm» Ank: « ank 12.0%» Bedding: ‹ @ 300.93 SO 41° › « ser 1%»	VA10145381	I095846	300.5	302.25	0.12
305	Fault Zone	Fault Zone in Arg: Highly fractured argillite beds with fault gouge. Py: « py 0.5% 0.5-1.0mm» Faults: ‹ @ 304.86 FZ 60° 11.0cm, gouge › ‹ @ 305.21 FZ 0° 6.0cm, gouge, plane not measurable › ‹ @ 306.50 FZ 62° 14.0cm, gouge, slicks ›	VA10145381	I095847	302.25	304.14	0.12
310	Crystal Lithic Tuff	Crystal Lithic Tuff bedded with some thin siltstone (<5%) beds:- fg. dark to light grey rock containing qz xls <1mm and flattened black lithics 1-3mm. Lithics up to 3% abundance in areas. Sericitic alteration visible on bleached ankerite xls. Qz: ‹ @ 307.58 QVbull 43° 5.0cm › ‹ @ 306.81 QV2 15° 0.20cm › ‹ @ 308.08 QVbull 70° 4.0cm › ‹ @ 308.15 QVbull 47° 1.0cm, contains gal, cpy _sph xls › ‹ @ 310.14 QV2 56° 0.30cm › ‹ @ 310.24 QVbull 69° 1.0cm › ‹ @ 313.55 QVbull 65° 0.7cm › ‹ @ 314.04 QV2 69° 0.20cm › ‹ @ 315.36 QVbull 51° 9.0cm, Contains gal, cpy, sph xls › Py: « py 0.1% 0.5-4.0mm» Ank: « ank 10.0%» Bedding: ‹ @ 308.95 SO 47° › ‹ @ 311.78 SO 39° › Faults: ‹ @ 315.26 FZ 51° 5.0cm, gouge › « ser 1%»					
315							
320	Siltstone / Argillite	Siltstone/Argillite bedded unit:- dark grey fg. siltstone (60%) laminated to thickly bedded with v.fg black argillite. Areas with higher arg abundance have felsic spider vein texture. Qz: ‹ @ 320.24 QVbull 74° 2.5cm, 20% fspar › ‹ @ 320.44 QV2 72° 0.50cm, 70% broken py fragments › ‹ @ 320.74 QV2 68° 0.70cm › ‹ @ 323.10 QVbull 71° 0.2cm › ‹ @ 323.31 QVbull 24° 0.8cm › ‹ @ 323.55 QVbull 37° 0.9cm › ‹ @ 323.82 QVbull 22° 1.8cm, 40% fspar w/ py xls › ‹ @ 324.68 QVbull 69° 0.8cm › ‹ @ 325.69 QV2 57° 0.20cm › ‹ @ 327.16 QVbull 60° 2.3cm › ‹ @ 327.62 QVbull 58° 0.8cm › Py: « py 5.0% 0.5-20.0mm» Ank: « ank 12.0%» Bedding: ‹ @ 318.86 SO 75° › ‹ @ 322.59 SO 60° › ‹ @ 328.23 SO 64° › Faults: ‹ @ 318.57 FZ 69° 35.0cm, some gouge, mostly grind _rock frags › ‹ @ 320.16 FZ 60° 2.0cm, grind ›					
325							
330	Crystal Lithic Tuff	Crystal Lithic Tuff:- cg to fg grey tuff containing xls 1-2mm in up to 30% abundance. Flattened black lithic abundance varies throughout but seen up to 16mm long liths and up to 3% abundance. Bedding can be seen in places because of coarseness variation, no real grading is seen. Some areas are quite coarse and have an appearance of lapilli but no zoning in grains is seen. Bottom 2-3 metres have a slight jigsaw texture. Qz: ‹ @ 332.29 QV2 35° 0.15cm › ‹ @ 333.03 QVbull 44° 1.3cm › ‹ @ 333.23 QVbull 36° 1.1cm › ‹ @ 334.04 QVbull 40° 0.6cm › ‹ @ 335.40 QV1 72° 1.0mm › ‹ @ 337.70 QV1 63° 1.0mm › Py: « py 0.2% 1.0-6.0mm» Ank: « ank 14.0%» Bedding: ‹ @ 334.09 SO 40° ›					
335							
	EOH	?					
340							
345							

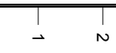
Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
5	Casing	Casing						
10								
15	Conglomerate	Conglomerate - lt to med greys with some pebbles altered to the cream-lt green color. Overall rock has abundance of rounded to subangular granules and pebbles, less that 35% matrix. Minor stretching but not common. Rough fabric (original bedding). Alteration present up to 35% in one 1.5m section but aver 5%. « ser 5%» « py 0.1% 1-4mm» « ank 12.0%» ‹ @ 19.39 QVbull 66° 0.2cm, This thin quartz acted as a barrier to the alter front › Above this line the alt gradually got to 35%, then 5% on other side. Host rock is identical on either side. ‹ @ 18.56 FZ 90° 1.5cm, gouge ›	VA10072916	I003453	12.8	15	0.01	
			VA10072916	I003454	15	16.5	0.01	
			VA10072916	I003455	16.5	18	0.01	
20			VA10072916	I003456	18	19.5	0.01	
			VA10072916	I003458	19.5	21	0.01	
25	Fault	Fault zone - dk grey to black, rubble to gouge. Total of 3.25m lost core but no indication where. Unbroken section of jigsaw volcanics. No quartz veins. ‹ @ 23.44 FZ 25° 4.0cm, clay, rock grind › ‹ @ 24.09 FZ 43° 8.5cm, gouge ›	VA10072916	I003459	21	24	0.01	
			VA10072916	I003460	24	27	0.01	
30	Siltstone	Siltstone with minor argillite bands (5%) up to 80cm. Rock is lt to dk grey, graphitic, finely laminated to coarsely bedded, bedding showing contortion, breakage on a small scale. Thin felsic lines cut through at all angles, visible more in the dark grey bands. Upper 10m is about 50% rubble - fault points noted where gouge present. Strong lack of quartz veining and strong pyrite zones - pyrite does pick up in lower 10 metres. - to about 1.5 to 2% - see sample description . 2.25m core loss in rounded rubble just before 75.59m wood block. « ank 12.0%» « py 0.8% 1-10mm» ‹ @ 30.60 SO 18° › ‹ @ 37.86 SO 52° › ‹ @ 40.90 SO 30° › ‹ @ 43.25 SO 5° › Bands show flattenning and are parallel to core axis here. Contortion and small scale fractures displace bands. ‹ @ 44.75 SO 35° › ‹ @ 46.24 SO 0° › ‹ @ 50.52 SO 35° › ‹ @ 58.06 SO 55° › ‹ @ 60.40 SO 70° › ‹ @ 63.48 SO 80° › ‹ @ 68.30 SO 53° › ‹ @ 71.88 SO 65° › ‹ @ 76.41 SO 58° › ‹ @ 78.80 SO 35° › A lot of movement, contorted bedding, rafting from here on to the fault zone. Quartz ‹ @ 33.50 QV2 45° 0.3cm, grey, QF vein › ‹ @ 53.14 QVbull 50° 2.2cm › Faults ‹ @ 34.60 FZ 68° 2.0cm, gouge plus 12cm rubble and 90cm lost core › ‹ @ 49.72 FZ 70° 5.0cm, gouge and rock grind › ‹ @ 50.22 FZ 72° 3.0cm, clayey rock grind › ‹ @ 50.61 FZ 70° 1.0cm, gouge › ‹ @ 61.84 FZ 73° 1.5cm, clayey rock grind › ‹ @ 65.09 FZ 55° 2.0cm, gouge plus clay rock grind › ‹ @ 72.40 FZ 60° 12.0cm, clayey rock grind ›	VA10072916	I003461	27	28.5	0.05	
			VA10072916	I003462	28.5	30	0.01	
			VA10072916	I003464	30	31.5	0.01	
			VA10072916	I003465	31.5	33	0.01	
35			VA10072916	I003466	33	35	0.01	
			VA10072916	I003467	35	36.5	0.81	
			VA10072916	I003468	36.5	38	0.01	
			VA10072916	I003469	38	39.5	0.01	
40			VA10072916	I003471	39.5	41	0.08	
			VA10072916	I003472	41	42.5	0.01	
			VA10072916	I003473	42.5	44	0.01	
45			VA10072916	I003474	44	45.5	0.01	
			VA10072916	I003475	45.5	47	0.01	
			VA10072916	I003477	47	48.5	0.08	
			VA10072916	I003478	48.5	50	0.18	

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
	Siltstone	Siltstone with minor argillite bands (5%) up to 80cm. Rock is lt to dk grey, graphitic, finely laminated to coarsely bedded, bedding showing contortion, breakage on a small scale. Thin felsic lines cut through at all angles, visible more in the dark grey bands. Upper 10m is about 50% rubble - fault points noted where gouge present. Strong lack of quartz veining and strong pyrite zones - pyrite does pick up in lower 10 metres. - to about 1.5 to 2% - see sample description . 2.25m core loss in rounded rubble just before 75.59m wood block. « ank 12.0%» « py 0.8% 1-10mm» ‹ @ 30.60 SO 18° › ‹ @ 37.86 SO 52° › ‹ @ 40.90 SO 30° › ‹ @ 43.25 SO 5° › Bands show flattenning and are parallel to core axis here. Contortion and small scale fractures displace bands. ‹ @ 44.75 SO 35° › ‹ @ 46.24 SO 0° › ‹ @ 50.52 SO 35° › ‹ @ 58.06 SO 55° › ‹ @ 60.40 SO 70° › ‹ @ 63.48 SO 80° › ‹ @ 68.30 SO 53° › ‹ @ 71.88 SO 65° › ‹ @ 76.41 SO 58° › ‹ @ 78.80 SO 35° › A lot of movement, contorted bedding, rafting from here on to the fault zone. Quartz ‹ @ 33.50 QV2 45° 0.3cm, grey, QF vein › ‹ @ 53.14 QVbull 50° 2.2cm › Faults ‹ @ 34.60 FZ 68° 2.0cm, gouge plus 12cm rubble and 90cm lost core › ‹ @ 49.72 FZ 70° 5.0cm, gouge and rock grind › ‹ @ 50.22 FZ 72° 3.0cm, clayey rock grind › ‹ @ 50.61 FZ 70° 1.0cm, gouge › ‹ @ 61.84 FZ 73° 1.5cm, clayey rock grind › ‹ @ 65.09 FZ 55° 2.0cm, gouge plus clay rock grind › ‹ @ 72.40 FZ 60° 12.0cm, clayey rock grind ›	VA10072916	I003478	48.5	50	0.18
			VA10072916	I003479	50	51.5	0.06
			VA10072916	I003480	51.5	53	0.01
			VA10072916	I003481	53	54.5	0.24
55			VA10072916	I003482	54.5	56	0.01
			VA10072916	I003484	56	57.5	0.01
			VA10072916	I003485	57.5	59	0.06
60			VA10072916	I003486	59	60.5	0.01
			VA10072916	I003487	60.5	62	0.01
			VA10072916	I003488	62	63.5	0.01
			VA10072916	I003490	63.5	65	0.01
65			VA10072916	I003491	65	66.5	0.01
			VA10072916	I003492	66.5	68	0.01
			VA10072916	I003493	68	69.5	0.01
70			VA10072916	I003494	69.5	71	0.01
			VA10072916	I003495	71	72.5	0.01
			VA10072916	I003496	72.5	76	0.01
75			VA10072916	I003497	76	77.5	0.01
			VA10072916	I003499	77.5	79	0.01
			VA10072916	I003500	79	80.5	0.01
80			VA10072916	I003501	80.5	82	0.01
			VA10072916	I003502	82	83.5	0.01
			VA10072916	I003503	83.5	85	0.01
85			VA10072916	I003505	85	86.5	0.01
	Fault	Fault zone in argillite - more competent block have incr siltstone component. Mainly grey to black rubble and gouge zones. A total of 60cm lost core in this unit. Where recognizable: « ank 10.0%» No qtz veins Fault gouge zones: ‹ @ 86.43 FZ 38° 0.5cm, gouge › ‹ @ 90.72 FZ 40° 35.0cm, gouge ›	VA10072916	I003506	86.5	88.5	0.01
			VA10072916	I003507	88.5	90	0.01
90			VA10072916	I003508	90	91.5	0.01
	Argillite, Siltstone	Interbedded argillite and siltstone(40%) - f.gr., med to dk grey and black, graphitic, laminated to banded showing movement/rotation of bedding into disorganized collection of rafts in places. Argillite tends to be more easily broken, tending to form "coined" to rubbly rock, having a thick dk grey mud coating on the core. In places it is friable/rotten forming a soft core but with fabric still readable. « ank 10.0%» « py 0.7% 1-3mm» strongest in lower half of unit. ‹ @ 93.36 SO 52° › No quartz veining	VA10072916	I003509	91.5	93	0.01
			VA10072916	I003510	93	94.5	0.01
95			VA10072916	I003512	94.5	96	0.01
	Argillite	Argillite - dk.gey to black, coined rock to rubble - A lot of this argillite is rotted/friable and soft but still has the original fabric so not faulted (which they can appear to be). best estimates: « ank 8.0%» « py 1.2% 1-3mm» pyrite mainly slicks, blebs along fabric. ‹ @ 95.82 SO 80° › No quartz ‹ @ 97.29 FZ 30° 5.0cm, gouge › Rock is extremely friable but this is the only true gouge.	VA10072916	I003513	96	97.5	0.01
			VA10072916	I003514	97.5	99	0.01
			VA10072916	I003515	99	100.5	0.01



10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Argillite	Argillite - dk.gey to black, coined rock to rubble - A lot of this argillite is rotted/friable and soft but still has the original fabric so not faulted (which they can appear to be). best estimates: « ank 8.0%» « py 1.2% 1-3mm» pyrite mainly slicks, blebs along fabric. ‹ @ 95.82 SO 80° › No quartz ‹ @ 97.29 FZ 30° 5.0cm, gouge › Rock is extremely friable but this is the only true gouge.	VA10072916	I003515	99	100.5	0.01
			VA10072916	I003517	100.5	102	0.01
			VA10072916	I003518	102	103.5	0.01
105			VA10072916	I003519	103.5	105	0.01
		Interbedded argillite and siltstone (30%) - mainly darker greys and black - this is an overall darker unit than the siltstone-dominant one from 26 to 85 metres. The more felsic lines and bands show contortion, minor movements, as before. Rubble common throughout as argillite not a competent rock and the drill fractures easily along the graphitic planes. « ank 10.0%» « py 0.8% 1-12mm» varies to 1.5% and more in zones. ‹ @ 106.32 SO 38° › ‹ @ 109.18 SO 58° › ‹ @ 116.25 SO 73° › Bedding unreliable ‹ @ 138.22 SO 60° › ‹ @ 106.05 QV2 80° 0.3cm, cream, QFvein, broken irreg due to movement › ‹ @ 107.52 QV1 60° 0.3cm, grey felsic, 80% py › ‹ @ 109.13 QV1 58° 0.3cm, grey felsic, 20% py › ‹ @ 113.68 QV2 15° 0.3cm, grey, shows movement › ‹ @ 118.02 QV2 45° 0.6cm, cream, QF , irreg, contorted › ‹ @ 127.53 QV2 75° 0.2cm, grey felsic › ‹ @ 131.47 QV1 35° 0.7cm, grey, contorted, 70%py › ‹ @ 136.48 QV2 38° 0.6cm, cream, shows movement › ‹ @ 123.36 FZ 75° 4.0cm, gouge › ‹ @ 135.02 FZ 78° 2.0cm, gouge, rock grind › ‹ @ 135.49 FZ 80° 2.0cm, gouge, rock grind ›	VA10072916	I003520	105	106.5	0.01
			VA10072916	I003521	106.5	108	0.01
			VA10072916	I003523	108	109.5	0.01
110			VA10072916	I003524	109.5	111	0.01
			VA10072916	I003525	111	112.5	0.01
			VA10072916	I003526	112.5	114	0.01
115			VA10072916	I003527	114	115.5	0.01
			VA10072916	I003528	115.5	117	0.01
			VA10072916	I003529	117	118.5	0.01
			VA10072916	I003531	118.5	120	0.01
120			VA10072916	I003532	120	121.5	0.01
	Argillite		VA10072916	I003533	121.5	123	0.01
			VA10072916	I003534	123	124.5	0.01
125			VA10072916	I003535	124.5	126	0.01
			VA10072916	I003536	126	127.5	0.01
			VA10072916	I003538	127.5	129	0.01
130			VA10072916	I003539	129	130.5	0.01
			VA10072916	I003540	130.5	132	0.01
			VA10072916	I003541	132	133.5	0.01
135			VA10072916	I003542	133.5	135	0.01
			VA10072916	I003543	135	136.5	0.01
			VA10072916	I003544	136.5	138	0.01
			VA10072916	I003545	138	139.5	0.01
140	Fault	Fault zone in argillites and siltstones - med to dk grey and black, rubble to rock grin and gouge sections. « ank 17.0%» « py 1.0% 1-11mm» pyrite broken, sheared along fabric ‹ @ 138.46 QV2 23° 0.4cm, fractured › ‹ @ 141.36 FZ 43° 65.0cm, Gouge ›	VA10072916	I003547	139.5	141	0.05
			VA10072916	I003548	141	142.5	0.01
		Banded to laminated siltstones and argillites (5%). Interlayered lt to dk greys, minor black layers, graphitic, original fabric contorted, faulted, in general dis-oriented but not to the point of being a cataclasite. Measured orig bedding only in places. « ank 10%» « py 0.8% 1-12mm»	VA10072916	I003549	142.5	144	0.01
145	Siltstone		VA10072916	I003551	144	145.5	0.01
		‹ @ 158.70 SO 60° › ‹ @ 167.40 SO 66° › ‹ @ 146.62 QV2 77° 0.9cm, 3 narrow white veinlets, 5% py › ‹ @ 157.48 QV2 75° 0.7cm, white, some distortion › ‹ @ 157.86 QV2 50° 0.5cm, white, some distortion › ‹ @ 153.80 FZ 30° 1.0cm, clay, rockgrind › ‹ @ 153.99 FZ 45° 1.2cm, clay, rock grind › ‹ @ 159.43 FZ 68° 6.0cm, gouge ›	VA10072916	I003552	145.5	147	0.28
			VA10072916	I003553	147	148.5	0.01
			VA10072916	I003554	148.5	150	0.05

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Depth At	Geology: Rocktype	Geology: Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
150	Siltstone	Banded to laminated siltstones and argillites (5%). Interlayered lt to dk greys, minor black layers, graphitic, original fabric contorted, faulted, in general dis-oriented but not to the point of being a cataclasite. Measured orig bedding only in places. « ank 10%» « py 0.8% 1-12mm» ‹ @ 158.70 SO 60° › ‹ @ 167.40 SO 66° › ‹ @ 146.62 QV2 77° 0.9cm, 3 narrow white veinlets, 5% py › ‹ @ 157.48 QV2 75° 0.7cm, white, some distortion › ‹ @ 157.86 QV2 50° 0.5cm, white, some distortion › ‹ @ 153.80 FZ 30° 1.0cm, clay, rockgrind › ‹ @ 153.99 FZ 45° 1.2cm, clay, rock grind › ‹ @ 159.43 FZ 68° 6.0cm, gouge ›	VA10072916	I003554	148.5	150	0.05
			VA10072916	I003555	150	151.5	0.01
			VA10072916	I003557	151.5	153	0.01
			VA10072916	I003558	153	154.5	0.01
155			VA10072916	I003559	154.5	156	0.01
			VA10072916	I003560	156	157.5	0.01
			VA10072916	I003561	157.5	159	0.01
160			VA10072916	I003563	159	160.5	0.01
			VA10072916	I003564	160.5	162	0.01
			VA10072916	I003565	162	163.5	0.01
			VA10072916	I003566	163.5	165	0.01
165			VA10072916	I003567	165	166.5	0.01
			VA10072916	I003568	166.5	168	0.01
			VA10072916	I003570	168	169.5	0.01
170			VA10072916	I003571	169.5	171	0.01
			VA10072916	I003572	171	172.5	0.05
			VA10072916	I003573	172.5	174	0.01
175			VA10072916	I003574	174	175.5	0.01
			VA10072916	I003575	175.5	177	0.01
	Fault	Fault zone in siltstone/argillite as described in prev section. Unit is mainly rubble with clayey rock grind sections. « ank 12.0%» « py 0.5% 1-4mm» no qtz veining‹ @ 178.03 FZ 50° 3.0cm, clayey rock grind › ‹ @ 179.60 FZ 50° 5.0cm, clayey rock grind ›	VA10072916	I003577	177	178.5	0.01
180			VA10072916	I003578	178.5	180	0.01
	Cataclasite	Cataclasite - brecciated, more felsic lt.grey siltstone bands and laminae, boudined and rounded within the more mafic portions - which now effectively form a matrix to the felsic remnants. Fabric is strong but even though measuring it as orig bedding there may be a component of change. « py 2.0% 1-11mm» « ank 15.0%» ‹ @ 181.61 QV2 80° 1.1cm › ‹ @ 182.54 QV2 70° 0.4cm › ‹ @ 185.80 QV2 71° 4.0cm, 3-4 parallel veins › ‹ @ 186.44 FZ 90° 11.0cm, gouge, rock grind ›	VA10072916	I003579	180	181.5	0.01
			VA10072916	I003580	181.5	183	0.2
			VA10072916	I003582	183	184.5	0.07
185			VA10072916	I003583	184.5	186	0.07
			VA10072916	I003584	186	187.5	0.05
	Siltstone	Siltstone - med grey, poorly banded, massive appearance in places, graphite along fracs. Unit is blocky, close to a fault area. « py 0.8% 1-11mm» « ank 12.0%» ‹ @ 186.97 FZ 78° 3.7cm, clayey rock grind ›	VA10072916	I003585	187.5	189	0.07
190			VA10072916	I003586	189	190.5	0.01
			VA10072916	I003587	190.5	192	0.08
	Tuff	Possible tuff unit, mottle and brecciated, lt grey, massive in orig appearance (lacks both the color and texture/bedding effect of the sediments). Possible quartz xls but fine ark line brecciated nature combined with the ankerite alteration make positive ID tough. « py 1.0% 1-13mm» « ank 20.0%» ‹ @ 194.08 QVbull 37° 1.5cm › ‹ @ 191.79 QV2 40° 1.3cm › ‹ @ 195.15 QVbull 45° 5.4cm, 2 sphal, 1 chalco › ‹ @ 196.15 QV2 40° 0.6cm ›	VA10072916	I003589	192	193.5	0.48
			VA10072916	I003590	193.5	195	0.08
195			VA10072916	I003591	195	196.5	0.23
			VA10072916	I003592	196.5	198	0.01
	Fault	Fault zone in siltstones - Med grey, blocky rubble to ground rock. Larger pieces indicate mainly siltstone, poor fabric, pyrite and graph still present. « py 1.5% 1-6mm» « ank 15.0%» no quartz ‹ @ 197.99 FZ 45° 0.6cm, gouge › ‹ @ 198.28 FZ 78° 1.0cm, gouge › ‹ @ 199.22 FZ 78° 7.0cm, gouge, .7m lost core › ‹ @ 199.94 FZ 55° 5.0cm, clayey rock grind ›	VA10072916	I003593	198	200	0.13

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Fault	Fault zone in siltstones - Med grey, blocky rubble to ground rock. Larger pieces indicate mainly siltstone, poor fabric, pyrite and graph still present. « py 1.5% 1-6mm» « ank 15.0%» no quartz ‹ @ 197.99 FZ 45° 0.6cm, gouge › ‹ @ 198.28 FZ 78° 1.0cm, gouge › ‹ @ 199.22 FZ 78° 7.0cm, gouge, .7m lost core › ‹ @ 199.94 FZ 55° 5.0cm, clayey rock grind ›	VA10072916	I003593	198	200	0.13
			VA10072916	I003594	200	201.5	0.14
	Siltstone	Siltstones - banded to finely laminated, lt to dk greys, f.gr. rock, fractured to rubbly due to proximity to FZ. Graphite present on some planes. « py 1.5% 1-8mm» « ank 20.0%» ‹ @ 200.48 QV2 20° 1.3cm, 2 grey veins, 5% pyr › ‹ @ 202.04 QV2 5° 0.7cm, grey, 10% pyr › ‹ @ 203.80 QVbull 45° 1.4cm › ‹ @ 201.05 SO 83° › ‹ @ 202.83 SO 68° ›	VA10072916	I003595	201.5	203	0.01
			VA10072916	I003596	203	204.5	0.2
205			VA10072916	I003598	204.5	206	0.35
			VA10072916	I003599	206	207.5	0.39
	Fault	Fault zone in argillite - dk greys to black, mainly muds, rubble and schistose friable sections that have the original fabric but show the grinding of the original beds and laminae. These appear almost as ghosts or original rock. One short, rubble section of a lt grey- green xl tuff from 223.85 to 224.5 metres. The green resembles the cr-mica color. « py 1.5% 1-6mm» « ank 15.0%» ‹ @ 204.62 QV2 75° 0.6cm › ‹ @ 204.88 QVbull 24° 5.0cm › ‹ @ 210.55 QV2 55° 0.6cm › ‹ @ 206.44 FZ 55° 6.0cm, gouge, angle best est › ‹ @ 206.90 FZ 0° 24.0cm, cannot see measureable angle › ‹ @ 208.46 FZ 0° 50.0cm, gouge muds, 85cm lost core › ‹ @ 210.06 FZ 0° 32.0cm, gouge, rock grind, no measureable angle › ‹ @ 211.50 FZ 50° 9.0cm, gouge, rock grind , 95cm lost core › ‹ @ 251.20 FZ 40° 70.0cm, gouge, rock grind, 30cm lost core › ‹ @ 216.35 FZ 0° 30.0cm, gouge, 1.30m lost core,no angle › ‹ @ 218.16 FZ 55° 18.0cm, gouge, rock grind, angle is est › ‹ @ 223.50 FZ 0° 45.0cm, gouge, rock grind, 90cm core lost, no angle › ‹ @ 226.00 FZ 0° 40.0cm, gouge, rock grind, 135cm core loss, no angle ›	VA10072916	I003600	207.5	209.5	0.14
210			VA10072916	I003601	209.5	211	0.61
			VA10072916	I003602	211	213	0.7
			VA10072915	I003603	213	214.5	0.78
215	Fault		VA10072915	I003604	214.5	216	0.32
			VA10072915	I003606	216	218.5	0.42
220			VA10072915	I003607	218.5	221.5	0.15
			VA10072915	I003608	221.5	224	0.56
225			VA10072915	I003609	224	225.5	0.07
	Argillite, Siltstone	Interlayered argillite, siltstone (35%) - laminated lt to dk greys to black, graphitic, shows deformation and beginning destruction of the more felsic layers. Rubble and zones of rock grind, the argillite especially prone due to composition - tends to be wet and rotted near these large fault zones. « ank 17.0%» « py 0.5% 1-3mm» ‹ @ 226.92 SO 60° › ‹ @ 229.82 FZ 60° 5.0cm, clay, rock grind ›	VA10072915	I003610	225.5	228	0.06
			VA10072915	I003612	228	229.5	0.08
230			VA10072915	I003613	229.5	231	0.08
			VA10072915	I003614	231	232.5	0.1
			VA10072915	I003616	232.5	234	0.19
235	Fault	Fault zone in argillite, lesser siltstones, rubble/grind/gouge zones throughout. Again lacks quartz veining - 2 minor veinlets. « ank 30.0%» « py 2.0% 1-7mm» ‹ @ 232.40 QV2 52° 0.7cm, 2 veinlets, white › ‹ @ 234.50 QV2 60° 0.4cm, 4 veinlets › ‹ @ 235.50 FZ 60° 23.0cm, gouge,rock grind, 65cm lost core, angle est › ‹ @ 238.20 FZ 45° 14.0cm, gouge, rock grind, 40cm lost core, angle est ›	VA10072915	I003617	234	236	0.16
			VA10072915	I003618	236	237.5	0.46
			VA10072915	I003619	237.5	239	0.16
240			VA10072915	I003620	239	240.5	0.14
	Cataclasite	Cataclasite - Interlayered siltstones and argillite with heavy breakage and movement of the lighter grey, more felsic layers. Original layering untraceable in most areas. Small crystal tuff horizon from 238.94 to 239.40m. « py 2.5% 1-7mm» « ank 20.0%» ‹ @ 240.65 SO 70° › ‹ @ 243.10 SO 73° › ‹ @ 238.97 QVbull 90° 0.2cm › ‹ @ 292.39 QV2 57° 0.8cm ›	VA10072915	I003622	240.5	242	0.13
		Crystal tuff - lt grey, f.gr., laminated with altered quartz and feldspar xls, some of which appear altered with a rim around them. A "pock-marked" effect is given to the core by the degradation/removal of these crystals. « ank 12.0%» « py 0.8% 1-3mm» ‹ @ 245.46 SO 60° › ‹ @ 245.36 QV2 30° 0.2cm ›	VA10072915	I003623	242	243.5	0.16
245	Crystal Tuff	Interlayered argillites and siltstones (40%) - layered lt to dk greys and black, f.gr., rubble to schistose/friable sections where mudstone/graphite content strong. Minor cataclasite sections. A lot of what appears to be fault zones again are just highly waterlogged and fragile argillite. « ank 8%» « py 1.5% 1-11mm» ‹ @ 250.08 SO 78° › ‹ @ 257.60 SO 60° › ‹ @ 264.65 SO 53° › ‹ @ 268.20 SO 75° › ‹ @ 274.05 SO 2° › ‹ @ 277.26 SO 58° › ‹ @ 248.75 QV2 48° 0.8cm › ‹ @ 251.60 QV2 60° 0.6cm › From 256.67 to 257.42m - about 20cm of irregular, clotty injections of white quartz veining (QV2). ‹ @ 262.67 QV2 55° 2.2cm › ‹ @ 267.90 QV2 58° 0.6cm › ‹ @ 275.15 QV2 50° 0.8cm › ‹ @ 275.74 QVbull 75° 0.3cm ›	VA10072915	I003624	243.5	245	0.21
			VA10072915	I003625	245	246.5	0.05
	Argillite, Siltstone		VA10072915	I003626	246.5	248	0.11

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250	Argillite, Siltstone	Interlayered argillites and siltstones (40%) - layered lt to dk greys and black, f.gr., rubble to schistose/friable sections where mudstone/graphite content strong. Minor cataclasite sections. A lot of what appears to be fault zones again are just highly waterlogged and fragile argillite. « ank 8%» « py 1.5% 1-11mm» ‹ @ 250.08 SO 78° › ‹ @ 257.60 SO 60° › ‹ @ 264.65 SO 53° › ‹ @ 268.20 SO 75° › ‹ @ 274.05 SO 2° › ‹ @ 277.26 SO 58° › ‹ @ 248.75 QV2 48° 0.8cm › ‹ @ 251.60 QV2 60° 0.6cm › From 256.67 to 257.42m - about 20cm of irregular, clotty injections of white quartz veining (QV2). ‹ @ 262.67 QV2 55° 2.2cm › ‹ @ 267.90 QV2 58° 0.6cm › ‹ @ 275.15 QV2 50° 0.8cm › ‹ @ 275.74 QVbull 75° 0.3cm ›	VA10072915	I003627	248	249.5	0.15
			VA10072915	I003629	249.5	251	0.15
			VA10072915	I003630	251	252.5	0.07
			VA10072915	I003631	252.5	254	0.09
255			VA10072915	I003632	254	255.5	0.08
			VA10072915	I003633	255.5	257	0.09
			VA10072915	I003634	257	258.5	0.08
			VA10072915	I003636	258.5	260	0.18
260			VA10072915	I003637	260	261.5	0.2
			VA10072915	I003638	261.5	263	0.13
			VA10072915	I003640	263	264.5	0.11
265			VA10072915	I003641	264.5	266	0.09
			VA10072915	I003642	266	267.5	0.2
	Volcanic	Volcanics - med grey, massive unit with rare 0.5m intervals of bedded to laminated tuffaceous horizons forming less tan 5% of unit. Got the beddings from these. Black flecks/grains throughout appear to be a chloritized (?) mafic mineral. These specs gradually change concentration throughout and may indicate changes in orig composition. « ank 15.0%» appears to have only thse 1-2mm size pop « py 1.5% 1-10mm» ‹ @ 286.03 SO 43° › ‹ @ 292.30 SO 67° › ‹ @ 279.11 QV2 58° 0.8cm › ‹ @ 279.86 QVbull 62° 4.5cm › ‹ @ 281.48 QVbull 70° 0.4cm › ‹ @ 284.41 QVbull 62° 3.8cm › ‹ @ 283.87 QVbull 55° 0.3cm › ‹ @ 285.34 QVbull 47° 1.6cm › ‹ @ 286.84 QVbull 58° 1.0cm › ‹ @ 287.46 QV2 6° 0.4cm › this vein occurs over 60cm. ‹ @ 288.51 QVbull 40° 1.0cm › ‹ @ 289.29 QVbull 65° 5.4cm › ‹ @ 289.88 QVbull 66° 0.6cm › ‹ @ 291.11 QV2 60° 0.7cm › ‹ @ 291.52 QV2 55° 2.8cm › ‹ @ 294.48 QVbull 50° 3.0cm › ‹ @ 298.09 QVbull 58° 2.1cm › ‹ @ 300.25 QVbull 43° 1.5cm › ‹ @ 290.71 FZ 65° 2.0cm, clay rock grind ›	VA10072915	I003643	267.5	269	0.19
270			VA10072915	I003644	269	270.5	0.26
			VA10072915	I003645	270.5	272	0.16
			VA10072915	I003647	272	273.5	0.16
			VA10072915	I003648	273.5	275	0.47
275			VA10072915	I003649	275	276.5	0.97
			VA10072915	I003650	276.5	278	0.37
			VA10072915	I003651	278	279.5	3.02
280			VA10072915	I003652	279.5	281	0.26
			VA10072915	I003653	281	282.5	0.01
			VA10072915	I003655	282.5	284	0.12
285			VA10072915	I003656	284	285.5	1.22
			VA10072915	I003657	285.5	287	0.95
			VA10072915	I003658	287	288.5	0.07
			VA10072915	I003660	288.5	290	2.08
290			VA10072915	I003661	290	291.5	0.2
			VA10072915	I003662	291.5	293	0.07
			VA10072915	I003663	293	294.5	0.05
295			VA10072915	I003664	294.5	296	0.01
			VA10072915	I003665	296	297.5	0.01

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

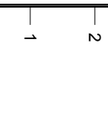
Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
300	Volcanic	Volcanics - med grey, massive unit with rare 0.5m intervals of bedded to laminated tuffaceous horizons forming less tan 5% of unit. Got the beddings from these. Black flecks/grains throughout appear to be a chloritized (?) mafic mineral. These specs gradually change concentration throughout and may indicate changes in orig composition. « ank 15.0%» appears to have only thse 1-2mm size pop « py 1.5% 1-10mm» ‹ @ 286.03 SO 43° › ‹ @ 292.30 SO 67° › ‹ @ 279.11 QV2 58° 0.8cm › ‹ @ 279.86 QVbull 62° 4.5cm › ‹ @ 281.48 QVbull 70° 0.4cm › ‹ @ 284.41 QVbull 62° 3.8cm › ‹ @ 283.87 QVbull 55° 0.3cm › ‹ @ 285.34 QVbull 47° 1.6cm › ‹ @ 286.84 QVbull 58° 1.0cm › ‹ @ 287.46 QV2 6° 0.4cm › this vein occurs over 60cm. ‹ @ 288.51 QVbull 40° 1.0cm › ‹ @ 289.29 QVbull 65° 5.4cm › ‹ @ 289.88 QVbull 66° 0.6cm › ‹ @ 291.11 QV2 60° 0.7cm › ‹ @ 291.52 QV2 55° 2.8cm › ‹ @ 294.48 QVbull 50° 3.0cm › ‹ @ 298.09 QVbull 58° 2.1cm › ‹ @ 300.25 QVbull 43° 1.5cm › ‹ @ 290.71 FZ 65° 2.0cm, clay rock grind ›	VA10072915	I003666	297.5	299	0.01
			VA10072915	I003668	299	300.5	0.01
			VA10072915	I003669	300.5	302	0.19
			VA10072915	I003670	302	304	0.01
305	Argillite, Siltstone	Interbedded argillites and siltstones (60-40) - lt to dk greys and black, graphitic rock, well laminated to coarsely banded in places. Possible lt green tinged, brecciated (black lined) tuff horizons in places but not more than 5% of unit. Argillite becomes highly graphitic in some beds. Unit develops a cataclasite texture in zones. « py 2.0% 1-13mm» « ank 25.0%» ‹ @ 307.28 SO 70° › ‹ @ 312.55 SO 68° › ‹ @ 319.47 SO 70° › ‹ @ 304.50 QVpy 5° 2.0mm › ‹ @ 307.98 QV2 55° 3.0cm › ‹ @ 308.84 QV2 40° 0.2cm › ‹ @ 317.02 QVbull 65° 2.5cm › ‹ @ 317.90 QV2 5° 0.5cm › ‹ @ 320.60 QV2 70° 1.2cm › ‹ @ 309.88 FZ 70° 1.0cm, clayey rockgrind › ‹ @ 315.65 FZ 20° 4.0cm, clayey rockgrind, schistose ›	VA10072915	I003671	304	305.5	0.06
			VA10072915	I003672	305.5	307	0.06
			VA10072915	I003673	307	308.5	0.01
310			VA10072915	I003674	308.5	310	0.01
			VA10072915	I003675	310	311.5	0.05
			VA10072915	I003677	311.5	313	0.08
			VA10072915	I003678	313	314.5	0.11
315			VA10072915	I003679	314.5	316	0.08
			VA10072915	I003680	316	317.5	0.07
			VA10072915	I003681	317.5	319	0.01
320		Argillite - Dk greys to black with laminations, banding showing contortion, movement, but over all layered fabric still intact as opposed to a cataclastic jumble. In addition to the schistosity of the graphitic argillite, med grey more silty beds as well as qtz injections define the fabric and structure. Unit appears rubbly and gives the appearance of a fault zone in places - there are gouge areas but these areas are mainly highly friable, graphitic argillite that has been rotted by solution flows from the larger faults in the area. « py 2.5% 1-11mm» « ank 7.0%» ankerite rare to see but may only be a reflection of the rock type - always hard to judge ankerite in the black argillite. ‹ @ 321.30 SO 0° › here rock fabric parallel to CA ‹ @ 322.84 SO 38° › ‹ @ 325.75 SO 40° › ‹ @ 329.44 SO 80° › ‹ @ 333.22 SO 45° › ‹ @ 336.20 SO 20° › ‹ @ 342.05 SO 63° › ‹ @ 345.57 SO 35° › ‹ @ 326.34 QVbull 22° 24.0cm › ‹ @ 327.23 QV2 43° 1.2cm › ‹ @ 327.83 QVbull 72° 10.5cm › ‹ @ 328.45 QV2 60° 0.4cm › ‹ @ 332.68 QV2 15° 0.8cm › ‹ @ 333.64 QV2 57° 1.0cm › ‹ @ 326.00 FZ 45° 15.0cm, 15cm gouge, 30cm lost core, 20cm rubble › ‹ @ 333.92 FZ 65° 3.2cm, gouge › ‹ @ 337.82 FZ 65° 30.0cm, clayey rock grind › ‹ @ 340.77 FZ 70° 70.0cm, gouge, grind, 45cm lost core › ‹ @ 342.65 FZ 75° 3.4cm, gouge ›	VA10072915	I003683	319	320.5	0.06
			VA10072915	I003684	320.5	322	0.01
			VA10072915	I003685	322	323.5	0.01
			VA10072915	I003686	323.5	325	0.07
325			VA10072915	I003687	325	326.5	2.27
			VA10072915	I003688	326.5	328	1.57
			VA10072915	I003690	328	329.5	0.08
330			VA10072915	I003691	329.5	331	0.37
			VA10072915	I003692	331	332.5	0.08
			VA10072915	I003693	332.5	334	0.12
335			VA10072915	I003694	334	335.5	0.07
			VA10072915	I003696	335.5	337	0.1
			VA10072915	I003697	337	338.5	0.06
340			VA10072915	I003698	338.5	340	0.4
			VA10072915	I003699	340	341.5	0.44
			VA10072915	I003700	341.5	343	0.13
			VA10072915	I003701	343	344.5	0.12
345			VA10072915	I003703	344.5	346	0.13
			VA10072915	I003704	346	347.5	0.06

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Argillite	Argillite - Dk greys to black with laminations, banding showing contortion, movement, but over all layered fabric still intact as opposed to a cataclastic jumble. In addition to the schistosity of the graphitic argillite, med grey more silty beds as well as qtz injections define the fabric and structure. Unit appears rubbly and gives the appearance of a fault zone in places - there are gouge areas but these areas are mainly highly friable, graphitic argillite that has been rotted by solution flows from the larger faults in the area. « py 2.5% 1-11mm» « ank 7.0%» ankerite rare to see but may only be a reflection of the rock type - always hard to judge ankerite in the black argillite. ‹ @ 321.30 SO 0° › here rock fabric parallel to CA ‹ @ 322.84 SO 38° › ‹ @ 325.75 SO 40° › ‹ @ 329.44 SO 80° › ‹ @ 333.22 SO 45° › ‹ @ 336.20 SO 20° › ‹ @ 342.05 SO 63° › ‹ @ 345.57 SO 35° › ‹ @ 326.34 QVbull 22° 24.0cm › ‹ @ 327.23 QV2 43° 1.2cm › ‹ @ 327.83 QVbull 72° 10.5cm › ‹ @ 328.45 QV2 60° 0.4cm › ‹ @ 332.68 QV2 15° 0.8cm › ‹ @ 333.64 QV2 57° 1.0cm › ‹ @ 326.00 FZ 45° 15.0cm, 15cm gouge, 30cm lost core, 20cm rubble › ‹ @ 333.92 FZ 65° 3.2cm, gouge › ‹ @ 337.82 FZ 65° 30.0cm, clayey rock grind › ‹ @ 340.77 FZ 70° 70.0cm, gouge, grind, 45cm lost core › ‹ @ 342.65 FZ 75° 3.4cm, gouge ›	VA10072915	I003704	346	347.5	0.06
			VA10072915	I003705	347.5	349	0.06
350			VA10072915	I003707	349	350.5	0.09
			VA10072915	I003708	350.5	352	0.11
		Interlayered argillite and siltstone (25%) - Rock is more competent overall, with a slightly lighter look - reflecting more felsic layers than prev unit. 3 metres at 362m could be logged as argillite. Short interval of possible tuff from 347.6 to 348.2m. « py 1.7% 1-4mm» « ank 8.0%» ‹ @ 351.70 SO 48° › ‹ @ 355.66 SO 60° › ‹ @ 360.25 SO 35° › ‹ @ 367.30 SO 45° › ‹ @ 371.25 SO 70° › ‹ @ 350.26 QV2 70° 0.3cm › ‹ @ 352.93 QVbull 40° 1.2cm › ‹ @ 359.52 QVbull 60° 1.2cm › ‹ @ 364.11 QV2 58° 0.4cm › ‹ @ 369.20 QV2 0° 0.3cm, subparallels CA for 40cm › ‹ @ 360.92 FZ 45° 26.0cm, clayey schistose over 26cm, no real gouge › ‹ @ 362.66 FZ 15° 1.0cm, clayey, rock grind, some gouge › ‹ @ 363.10 FZ 50° 8.0cm, clayey rock grind and schistose friable rock so question if a fault zone ›	VA10072915	I003709	352	353.5	0.11
			VA10072915	I003710	353.5	355	0.08
355			VA10072915	I003711	355	356.5	0.09
			VA10072915	I003712	356.5	358	0.09
			VA10072915	I003713	358	359.5	0.09
360	Argillite, Siltstone		VA10072915	I003714	359.5	361	0.07
			VA10072915	I003715	361	362.5	0.08
			VA10072915	I003716	362.5	364	0.1
365			VA10072915	I003717	364	365.5	0.09
			VA10072915	I003718	365.5	367	0.09
			VA10072915	I003719	367	368.5	0.09
			VA10072915	I003720	368.5	370	0.09
370			VA10072915	I003721	370	371.5	0.15
		Argillite - back into the darker and less competent rock (as at 319.15 to 347.55m). Percentage of pyrite has increased from the prev more silty unit, and is more in keeping with what is in the argil at 319.15m.	VA10072915	I003723	371.5	373	0.1
		Small bands and clots/lenses of lt green-grey med gr, massive rock, possibly a dyke. There are rare specks within that have the cr-mica green color. The bands show brecciation with darker minerals outlining the breccia - the band within the area of hi graph argil has even begun to have the blackening effect move from the breccia lines and into the rock matrix. the band furthest from the highly mafic argillites shows the least black lines and no darkening of the rock matrix. These bands are at: 374.7 to 375.4m; 378 to 378.57m; 379.9 to 380.1m. « py 3.5% 1-15mm» « ank 8.0%» ‹ @ 37.16 SO 35° › ‹ @ 379.32 SO 35° › ‹ @ 376.54 QV2 25° 1.2cm, quartz pyrite, irreg vein › ‹ @ 380.41 QV2 35° 0.4cm › ‹ @ 372.54 FZ 60° 1.5cm, clayey rock grind › ‹ @ 374.55 FZ 40° 25.0cm, gouge and clayey rock grind › ‹ @ 375.65 FZ 40° 35.0cm, gouge, rock grind, rubble, angle est › « py 2.8% 1-4mm»	VA10072915	I003724	373	374.5	0.12
375			VA10072915	I003726	374.5	376	0.01
	Argillite		VA10072915	I003727	376	377.5	0.08
			VA10072915	I003728	377.5	379	0.01
380			VA10072915	I003730	379	380.5	0.12
			VA10072915	I003731	380.5	381.9	0.07
		Interlayered crystal tuff and argillite (70-30) - Tuffaceous rock (poss felsite dyke?) has sharp contact, looking intrusive rather than having depositional look that an ash flow or tuff would have. The rock is uniform, massive, lt cream-lt green with cr-mica rich specks and cream feldspar xls, possibly showing breakdown to clay minerals. Banded effect due to the changes in concentrations of the green mica and collections of feldspar xls. Rare fragment (pebbles, cobble) of a cr-mica rich rock caught up in some of the bands. Strong brecciation and black-line fractures give jigsaw effect in places.	VA10072915	I003732	381.9	383.5	0.11
			VA10072915	I003733	383.5	385	0.01
385			VA10072915	I003734	385	386.5	0.01
			VA10072915	I003736	386.5	388	0.06
			VA10072915	I003737	388	389.5	0.01
390	Felsite		VA10072915	I003738	389.5	391	0.01
			VA10072915	I003739	391	392.5	0.01
			VA10072915	I003741	392.5	393.5	0.01
			VA10072915	I003742	393.5	394.7	0.01
395			VA10072915	I003743	394.7	396.5	0.01
			VA10072915	I003744	396.5	397.9	0.01

10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Felsite	Interlayered crystal tuff and argillite (70-30) - Tuffaceous rock (poss felsite dyke?) has sharp contact, looking intrusive rather than having depositional look that an ash flow or tuff would have. The rock is uniform, massive, lt cream-lt green with cr-mica rich specks and cream feldspar xls, possibly showing breakdown to clay minerals. Banded effect due to the changes in concentrations of the green mica and collections of feldspar xls. Rare fragment (pebbles, cobble) of a cr-mica rich rock caught up in some of the bands. Strong brecciation and black-line fractures give jigsaw effect in places.	VA10072915	I003744	396.5	397.9	0.01
	Argillite	Argillite: V.fg black rock with banding of lighter more felsic layers ranging from medium laminates to medium bedding. Contains two medium beds (15cm _7cm) of the unit above which have some green speckled « cr-mica » and also a thin 1cm band of green staining . Qz veins are highly deformed throughout the unit.	VA10072915	I003745	397.9	399.5	0.05
400		« ank 9%» « py 1.2% 1-8mm»	VA10072915	I003747	399.5	401	0.07
		‹ @ 399.32 S0 64° › ‹ @ 403.80 S0 73° ›	VA10072915	I003748	401	402.5	0.01
		‹ @ 399.50 QV2 68° › ‹ @ 402.42 QV2 50° 2cm › ‹ @ 405.15 QV2 25° 1.8cm › ‹ @ 405.38 Qvbull 65.0° 24.0cm, vein contains qz _fspar xls, green cr › ‹ @ 400.40 FZ 64° 5.5cm, grind _slicks › ‹ @ 406.08 FZ 61° 1.3cm, gouge ›	VA10072915	I003749	402.5	404	0.01
405			VA10072915	I003750	404	405.5	0.01
	Jigsaw Volcanics	Jigsaw volcanics- fg. grey volcanics with jigsaw texture created by fine black anastomising veins. Little alteration at the beginning of the unit but increasing through. Contains bed of argillite (10% of unit) which is shown by an increase in graphite and darker colour.	VA10072915	I003751	405.5	407.17	0.01
		« ank 6%» « py 0.2% 2-4mm»	VA10072915	I003752	407.17	408.5	0.01
		‹ @ 408.04 QV2 13° 0.3cm › ‹ @ 408.92 QV2 54° 0.4cm ›	VA10072915	I003753	408.5	410.27	0.01
410		‹ @ 410.25 FZ 33° 1.3cm, grind _slicks › « ser 1%»	VA10072915	I003755	410.27	412	0.01
	Tuff	Tuff- v.fg grey tuff with some slight coarsening in areas on a very thin bedding scale. Unit is pronounced through it cream stained large ankerite rhombs 5-10mm in size. Overall rock has a slight jigsaw texture created by very fine black anastomising veins showing the fractures in the rock (but still competent). Lack of pyrite and qz veins throughout unit also.	VA10072915	I003756	412	413.5	0.01
		« ank 6%» « py » ‹ @ 41.38 S0 34° › « ser 2%»	VA10072915	I003757	413.5	415	0.01
415	Crystal Tuff	Crystal Tuff: fg-mg crystal tuff. Light grey to pale cream in colour with crystal size coarsening towards the bottom of the unit. Lower metre also contains thin black acicular fragments (<.5mm x 2mm)- possibly biotite/chlorite xls? These fragments have no preferred orientation in the rock. Unit has a normal contact with the upper unit.	VA10072915	I003758	415	416.5	0.01
		« ank 15%» « py 0.1% 3-4mm»	VA10072915	I003759	416.5	418	0.01
		‹ @ 412.38 QV2 29° 0.4cm › ‹ @ 413.86 QVbull 25.0° 0.9cm, not solid, contains voids › ‹ @ 414.45 QVbull 43.0° 0.8cm ›	VA10072915	I003761	418	419.5	0.01
	Crystal Tuff	Crystal Tuff w/ Cr-mica staining- similar rock to crystal tuff above (still with thin black biotite/chlorite needles) but contains bright green staining in 1-2cm blotches throughout the rock- Cr-mica alteration. Covers about 6-8% of the rock and continuous in abundance, no banding visible.	VA10072915	I003762	419.5	421	0.01
420		« ank 7%» « py 0.1% 5-8mm»	VA10072915	I003763	421	422.5	0.01
		‹ @ 417.30 QVbull 26.0° 2.9cm › ‹ @ 417.46 QVbull 25.0° 3.5cm › ‹ @ 419.85 QVbull 36.0° 7.4cm › ‹ @ 420.63 QVbull 22.0° 0.6cm › ‹ @ 420.52 QVbull 23.0° 2.0cm › ‹ @ 422.70 QVbull 49.0° 1.4cm ›	VA10072915	I003764	422.5	424	0.01
		Crystal Tuff- fg. pale grey tuff similar to previous plain, non-cr-mica altered xl tuff but with thin mafic spidery veins. Also lacks the acicular black fragments (biotite/chlorite) which characterised the previous two units.	VA10072915	I003765	424	425.5	0.01
425	Crystal Tuff	« ank 9%» « py 0.2% 3-10mm»	VA10072915	I003766	425.5	426.5	0.01
		‹ @ 423.22 QV2 23° 0.2cm › ‹ @ 424.45 QV2 14° 0.2cm › ‹ @ 425.00 QVbull 24.0° 0.9cm › ‹ @ 425.81 QVbull 24.0° 0.5cm › ‹ @ 427.00 QVbull 23.0° 0.8cm ›	VA10072915	I003767	426.5	427.75	0.01
		« ser 3%»	VA10072915	I003768	427.75	429	0.01
		Jigsaw Volcanics- med to darker grey fg. bimodal ankerite sizes- <1mm _6-8mm with larger rhombs showing pale cream alteration common in the volcanic rocks. Rock has jigsaw texture in varying abundance from fine black anastomising veins which show the broken up nature of the unit. Very few qz veins in the unit. Also, contains some thin graphite rich argillite bands (<5% of unit).	VA10072915	I003769	429	430.5	0.01
		« ank 12%» « py 0.2% 3-13mm»	VA10072915	I003771	430.5	432	0.01
430		‹ @ 439.80 S0 44° › ‹ @ 445.15 S0 70° ›	VA10072915	I003772	432	433.5	0.01
		‹ @ 443.36 QV2 42° 1.3cm ›	VA10072915	I003773	433.5	435	0.01
		‹ @ 427.76 FZ 45° 0.8cm, grind _slicks › ‹ @ 428.45 FZ 0° 2.0cm › ‹ @ 433.80 FZ 26° 2.5cm, gouge › ‹ @ 435.73 FZ 20° 0.5cm, grind › ‹ @ 437.32 FZ 37° 3.0cm, gouge › ‹ @ 440.15 FZ 75° 2.2cm, gouge › ‹ @ 445.50 FZ 62° 0.5cm ›	VA10072915	I003774	435	436.5	0.01
435		LOST CORE- 40cm after 445.50m depth	VA10072915	I003775	436.5	438	0.01
	Jigsaw Volcanics		VA10072915	I003776	438	439.5	0.01
			VA10072915	I003778	439.5	441	0.01
			VA10072915	I003779	441	442.5	0.01
440			VA10072915	I003780	442.5	444	0.01
			VA10072915	I003781	444	445.5	0.01
			VA10072915	I003783	445.5	447	0.01
445							



10-DDH-901	North :5827821	East :604046	Elevation :1175.3	Hole Length :449.03	Azimuth :118	Dip :-78	Logged by :JS	Size :NQ	15 July 2011

Depth At	Geology Rocktype		Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Jigsaw Volcanics	Jigsaw Volcanics- med to darker grey fg. bimodal ankerite sizes- <1mm _6-8mm with larger rhombs showing pale cream alteration common in the volcanic rocks. Rock has jigsaw texture in varying abundance from fine black anastomising veins which show the broken up nature of the unit. Very few qz veins in the unit. Also, contains some thin graphite rich argillite bands (<5% of unit).	VA10072915	I003783	445.5	447	0.01
			« ank 12%» « py 0.2% 3-13mm»	VA10072915	I003784	447	449	0.01
			‹ @ 439.80 S0 44° › ‹ @ 445.15 S0 70° ›					
			‹ @ 443.36 QV2 42° 1.3cm ›					
			‹ @ 427.76 FZ 45° 0.8cm, grind _slicks › ‹ @ 428.45 FZ 0° 2.0cm › ‹ @ 433.80 FZ 26° 2.5cm, gouge › ‹ @ 435.73 FZ 20° 0.5cm, grind › ‹ @ 437.32 FZ 37° 3.0cm, gouge › ‹ @ 440.15 FZ 75° 2.2cm, gouge › ‹ @ 445.50 FZ 62° 0.5cm ›					
450			LOST CORE- 40cm after 445.50m depth					
		EOH	End of hole					
455								
460								
465								
470								
475								
480								
485								
490								
495								

10-DDH-902	North :5827932	East :604387	Elevation :1110.3	Hole Length :324.61	Azimuth :297	Dip :-75	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Geology Rocktype		Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Casing	Casing					
5		Siltstone	Siltstone: Fg dark grey siltstone with minor black v.fg argillite (5%) beds shown by abundance of graphite and fissile nature. Bedding is quite deformed but overall bed structure is still fairly visible- in places has almost cataclasite texture. Unit has a fair amount of disseminated pyrite which tends to follow bedding- appear to have been squeezed out along the planes.	VA10077373	I003785	3.92	5.5	0.28
			« ank 2.0%» « py 4.0% 0.2-2.0mm»					
			‹ @ 20.36 SO 38° › ‹ @ 16.85 SO 83° ›	VA10077373	I003786	5.5	7.5	4.16
			‹ @ 20.82 QV2 46° 0.4cm › ‹ @ 20.90 QV2 46° 2.1cm › ‹ @ 24.10 QVpy 42° 22.0mm › ‹ @ 7.54 QVbull 40° 26.0cm › ‹ @ 7.01 QVbull 0° 20.0cm, in 1.25m core loss area › ‹ @ 13.22 QV2 41° 0.4cm ›	VA10077373	I003787	7.5	9	0.27
10			CORE LOSS 1.25m					
			‹ @ 15.15 FZ 32° 16.0cm, BGC Gouge sample ›	VA10077373	I003788	9	10.5	0.22
				VA10077373	I003790	10.5	12	0.27
				VA10077373	I003791	12	13.5	0.27
15				VA10077373	I003792	13.5	15	0.35
				VA10077373	I003793	15	16.5	0.32
				VA10077373	I003794	16.5	18.5	0.3
20				VA10077373	I003796	18.5	20	0.25
				VA10077373	I003797	20	21.5	0.32
			Siltstone w/ leopard skin disseminated pyrite texture:- Brecciated reworked fg grey siltstone with high abundance of disseminated pyrite creating a leopard skin texture across the core. Contains rounded and other angular black fragments 1-4cm in size- conglomerate of argillite?	VA10077373	I003798	21.5	23	0.33
			« py 8.0% 0.2-2.0mm» « ank 3.0%»	VA10077373	I003799	23	24.5	0.21
25		Siltstone	‹ @ 25.54 SO 78° ›	VA10077373	I003800	24.5	26	0.14
			‹ @ 25.49 QV2 36° 0.2cm ›					
			Siltstone:- Fg. dark grey siltstone with a transition to v.fg black argillite in the lowest 0.5m (10%). Felsic white spidery veins are present throughout but increase in volume in the argillite. Bedding not so clear in this unit although some coarsening in grain size in thin beds is seen.	VA10077373	I003801	26	27.5	0.64
			« ank 3.0%» « py 3.0% 0.4-7.0mm»	VA10077373	I003803	27.5	29	0.23
			‹ @ 32.43 SO 38° › ‹ @ 34.40 SO 63° ›	VA10077373	I003804	29	30.5	0.94
30		Siltstone	‹ @ 28.64 QV2 36° 0.1cm › ‹ @ 28.96 QVpy 4° 2.0mm, 40% py › ‹ @ 30.28 QVbull 23° 23.0cm ›	VA10077373	I003805	30.5	32	0.11
				VA10077373	I003807	32	33.5	0.12
			Crystal Lithic Lapilli Tuff??: v.coarse grained grey rock containing black angular fragments up to 10mm. Slight bedding is visible due to grain size fining and also alignment of flattened grains. The coarse grains are sub-rounded so possibly lapilli tuff?					
			« ank 1.0%» « py 2.0% 1.0-1.2mm»	VA10077373	I003808	33.5	35	2.04
35		Crystal Lithic Lapilli Tuff???	‹ @ 36.30 SO 55° ›	VA10077373	I003809	35	36.5	0.42
			‹ @ 36.50 QVbull 49° 2.6cm ›					
			Siltstone/Argillite: Med to thickly bedded unit of fg. dark grey siltstone (60%) and v.fg. black argillite (40%). Argillite areas are characterised by fissile nature of the graphitic rich beds and contain more of the white anastomising felsic spider veins. Bedding is not obvious but can be determined through the grain size changes.	VA10077373	I003810	36.5	38.1	0.17
			« ank 12.0%» « py 3.0% 0.2-4.0mm»					
			‹ @ 42.19 SO 55° › ‹ @ 45.60 SO 67° › ‹ @ 49.06 SO 30° ›	VA10077373	I003811	38.1	39.5	0.14
40			‹ @ 39.62 QVbull 41° 0.6cm › ‹ @ 40.84 QVpy 66° 2.0mm, 80% py › ‹ @ 42.55 QV1 29° 0.1cm, collection of 6 similar parallel veins › ‹ @ 44.60 QVpy 65° 11.0mm, 90% py › ‹ @ 44.68 QVbull 43° 0.4cm › ‹ @ 45.01 QVpy 60° 1.0mm ›	VA10077373	I003812	39.5	41	0.38
			‹ @ 44.12 FZ 75° 15.0cm, gouge › ‹ @ 46.82 FZ 0° 5.0cm, grind, not measurable › ‹ @ 47.33 FZ 86° 3.0cm, gouge _slicks ›	VA10077373	I003813	41	42.5	0.09
				VA10077373	I003815	42.5	44	0.35
45		Siltstone / Argillite		VA10077373	I003816	44	45.5	1.1
				VA10077373	I003817	45.5	47	0.51
				VA10077373	I003818	47	48.5	0.77
				VA10077373	I003820	48.5	50	0.79

10-DDH-902	North :5827932	East :604387	Elevation :1110.3	Hole Length :324.61	Azimuth :297	Dip :-75	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Siltstone / Argillite	Siltstone/Argillite: Med to thickly bedded unit of fg. dark grey siltstone (60%) and v.fg. black argillite (40%). Argillite areas are characterised by fissile nature of the graphitic rich beds and contain more of the white anastomising felsic spider veins. Bedding is not obvious but can be determined through the grain size changes.	VA10077373	I003820	48.5	50	0.79
		« ank 12.0%» « py 3.0% 0.2-4.0mm»	VA10077373	I003821	50	51.5	0.85
		‹ @ 42.19 SO 55° › ‹ @ 45.60 SO 67° › ‹ @ 49.06 SO 30° ›	VA10077373	I003822	51.5	53	1.01
		‹ @ 39.62 QVbull 41° 0.6cm › ‹ @ 40.84 QVpy 66° 2.0mm, 80% py › ‹ @ 42.55 QV1 29° 0.1cm, collection of 6 similar parallel veins › ‹ @ 44.60 QVpy 65° 11.0mm, 90% py › ‹ @ 44.68 QVbull 43° 0.4cm › ‹ @ 45.01 QVpy 60° 1.0mm ›	VA10077373	I003823	53	54.5	3.52
55	Argillite / Siltstone	‹ @ 44.12 FZ 75° 15.0cm, gouge › ‹ @ 46.82 FZ 0° 5.0cm, grind, not measurable › ‹ @ 47.33 FZ 86° 3.0cm, gouge _slicks › Argillite/Siltstone:- thinly laminated to medium interbedded v.fg black argillite (60%) and fg dark grey siltstone (40%). Higher conc of pyrite throughout unit with disseminated veins _whole pyrite xls.	VA10077373	I003824	54.5	56	3.1
		« ank 7.0%» « py 6.0% 0.2-10.0mm»	VA10077373	I003826	56	57.5	1.89
		‹ @ 52.19 SO 46° › ‹ @ 56.28 SO 60° › ‹ @ 58.81 SO 80° ›	VA10077373	I003827	57.5	59	0.81
		‹ @ 50.48 QVbull 60° 2.8cm › ‹ @ 53.45 QVbull 42° 11.0cm › ‹ @ 59.73 QVbull 48° 8.0cm, contains %5 py › ‹ @ 53.98 QVpy 53° 6.0mm, 85% py › ‹ @ 50.19 QVbull 88° 2.2cm › ‹ @ 58.46 QVpy 73° 2.0mm, 90% py › ‹ @ 61.10 QVbull 60° 3.5cm ›	VA10077373	I003828	59	60.5	6.32
60		‹ @ 60.25 FZ 48° 0.4cm ›	VA10077373	I003829	60.5	62	0.43
	Tuff / Siltstone	Interbedded Tuff/Siltstone (65%/35%): fg. grey tuff with few small lithics bedded on the thinly laminated to thinly bedded scale with fg. dark grey siltstone. Possibly some thin argillite beds (<5%) with medium abundance of graphite found at fractures. Tuff beds are more competent and show planar bedding, siltstone beds have contorted bedding and some thin felsic spider veins are also seen.	VA10077373	I003830	62	63.5	1.35
		« ank 8.0%» « py 1.2% 2.0-1.6mm»	VA10077373	I003831	63.5	65	0.51
		‹ @ 61.19 SO 73° › ‹ @ 63.62 SO 70° › ‹ @ 66.23 SO 71° › ‹ @ 67.18 SO 32° ›	VA10077373	I003832	65	66.5	0.32
65		‹ @ 61.58 QVbull 30° 15.0cm › ‹ @ 62.82 QVbull 27° 1.0cm › ‹ @ 63.40 QVbull 25° 0.3cm › ‹ @ 66.78 QVbull 66° 1.2cm › ‹ @ 67.30 QVpy 17° 2.0mm › ‹ @ 68.57 QVpy 60° 2.0mm, 70% py ›	VA10077373	I003833	66.5	68	0.89
		‹ @ 61.81 FZ 34° 2.0cm, coarse gouge ›	VA10077373	I003834	68	69.5	1.03
	Crystal Tuff	Crystal Tuff: fg. grey crystal tuff with some laminate beds of dark grey siltstone/argillite in areas (5%). Bedding is also seen on a thin-thickly laminate scale in the tuff. Lithics are sparse but are seen as flattened black liths 1-2mm in size and are orientated to bedding- possibly mafic phyllosilicates but cannot see sheet structure within the fragments. Unit also contains a 27cm slightly altered section which has a distinct planar contact at the upper contact but contorted on the lower. Also contains lithics so likely not a felsic intrusion.	VA10077373	I003835	69.5	71	1.75
		« ank 22.0%» « py 0.3% 2.0-13.0mm»	VA10077373	I003837	71	72.5	0.01
70		‹ @ 71.61 SO 61° › ‹ @ 70.25 SO 62° ›	VA10077373	I003838	72.5	74	0.21
		‹ @ 69.47 QVbull 39° 8.0cm › ‹ @ 69.90 QVbull 77° 0.4cm › ‹ @ 73.10 QVbull 13° 0.7cm › ‹ @ 74.40 QVbull 30° 22.0cm › ‹ @ 75.10 QVbull 35° 20.0cm ›	VA10077373	I003839	74	75.5	0.16
		‹ @ 69.33 FZ 55° 9.0cm gouge ›	VA10077373	I003840	75.5	77	0.01
	Crystal Tuff (Alt)	Altered Crystal Tuff:- Similar rock type to previous unit but change in alteration colour to pale cream. Also contains larger lithics (in same abundance <1%) up to 4mm.	VA10077373	I003841	77	78.5	0.08
75		« ank 24.0%» « py 0.1% 4.0-8.0mm»	VA10077373	I003843	78.5	80	0.01
		‹ @ 78.67 SO 65° ›	VA10077373	I003844	80	81.5	0.07
		‹ @ 76.82 QVbull 19° 0.9cm › ‹ @ 77.65 QVbull 58° 1.4cm ›	VA10077373	I003845	81.5	83.22	0.98
		« ser 25%»	VA10077373	I003846	83.22	85	0.94
80	Tuff / Siltstone	Tuff/Siltstone: Interbedded grey fg. tuff (80%) with fg. dark grey-black siltstone (20%). Siltstone beds are characterised by abundance of felsic white spider veins and some disseminated pyrite veins. Also bedding in the siltstone richer areas are more contorted. Overall very low alteration but seritisation of the ankerite to a pale cream colour is visible in the tuff beds.	VA10077373	I003847	85	86.5	0.01
		Unit also contains 3 thick (20-30cm) qz veins which contain high amounts of mineralisation and some visible gold in one.	VA10077373	I003849	86.5	88	0.01
		« ank 18.0%» « py 0.4% 3.0-19.0mm»	VA10077373	I003850	88	89.5	0.01
		‹ @ 90.36 SO 57° › ‹ @ 93.15 SO 42° ›	VA10077373	I003851	89.5	91	0.01
85		‹ @ 82.90 QVbull 331° 26.0cm › ‹ @ 86.98 QVbull 62° 2.2cm › ‹ @ 94.00 QVbull 31° 20.0cm, py › ‹ @ 95.14 QVbull 30° 10.0cm, VG, py, gal, sph › ‹ @ 83.46 QVpy 54° 5.0mm, 90% py ›	VA10077373	I003852	91	92	0.08
		‹ @ 95.12 VG , x3 1mm specks ›	VA10077373	I003853	92	93.5	0.42
			VA10077373	I003854	93.5	94.5	0.44
90			VA10077373	I003855	94.5	95.25	3.27
			VA10077373	I003857	95.25	96.5	0.44
			VA10077373	I003858	96.5	98	0.14
			VA10077373	I003859	98	99.5	0.35
		Crystal Tuff: Altered fg. to cg. cream coloured crystal tuff. Crystals are visible in thin beds up to 2mm in size and 5% abundance- grey qz? Unit also contains thin grey, what look like veins but which grade in and out like bedding- possible more siliceous layer which has lithified as qz. Grading in grain size is also visible between the siliceous layers with a fining up hole sequence on a metre scale.					
95		At 103.35m there is a 3cm bed which contains large (30mm) sub-rounded clasts. They are matrix supported within the unit- possible large lithics in a conglomerate.					
	Crystal Tuff (Alt)	« ank 24.0%» « py 0.2% 2.0-4.0mm»					
		‹ @ 102.60 SO 33° ›					
		‹ @ 105.82 QVbull 42° 6.0cm › ‹ @ 104.71 QVbull 34° 5.5cm, gal, cpy › ‹ @ 104.61 QVbull 48° 2.1cm › ‹ @ 102.95 QVbull 32° 3.2cm › ‹ @ 96.01 QVbull 7° 0.6cm › ‹ @ 99.04 QVbull 60° 2.5cm, py › ‹ @ 97.95 QVbull 47° 3.0cm ›					
		« ser 50%»					

10-DDH-902	North :5827932	East :604387	Elevation :1110.3	Hole Length :324.61	Azimuth :297	Dip :-75	Logged by :EAG	Size :HQ3	15 July 2011

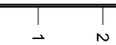
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Crystal Tuff (Alt)	Crystal Tuff: Altered fg. to cg. cream coloured crystal tuff. Crystals are visible in thin beds up to 2mm in size and 5% abundance- grey qz? Unit also contains thin grey, what look like veins but which grade in and out like bedding- possible more siliceous layer which has lithified as qz. Grading in grain size is also visible between the siliceous layers with a fining up hole sequence on a metre scale. At 103.35m there is a 3cm bed which contains large (30mm) sub-rounded clasts. They are matrix supported within the unit- possible large lithics in a conglomerate. « ank 24.0%» « py 0.2% 2.0-4.0mm» ‹ @ 102.60 SO 33° › ‹ @ 105.82 QVbull 42° 6.0cm › ‹ @ 104.71 QVbull 34° 5.5cm, gal, cpy › ‹ @ 104.61 QVbull 48° 2.1cm › ‹ @ 102.95 QVbull 32° 3.2cm › ‹ @ 96.01 QVbull 7° 0.6cm › ‹ @ 99.04 QVbull 60° 2.5cm, py › ‹ @ 97.95 QVbull 47° 3.0cm ›	VA10077373	I003859	98	99.5	0.35
			VA10077373	I003860	99.5	101	0.01
			VA10077373	I003861	101	102.5	0.01
			VA10077373	I003863	102.5	104	0.37
105	Tuff / Sediment	Tuff/Sediment: fg.-mg. pale grey tuff with a slight reworked jigsaw texture created by v.fg black anastomising veins. Unit is fairly fractured with one convincing fault zone and is also dominated by a large qz vein. Qz vein @ 110.72 contains 25% pyrite and also a pale pastel green coloured translucent mineral which shows in fan shaped acicular pattern. « ank 10.0%» « py 0.4% 3.0-15.0mm» ‹ @ 106.90 SO 65° › ‹ @ 109.86 SO 40° › ‹ @ 111.92 SO 67° › ‹ @ 106.55 QVbull 62° 4.5cm, gal › ‹ @ 108.15 QVbull 63° 0.9cm › ‹ @ 108.66 QVbull 14° 34.0cm, py › ‹ @ 109.38 QVbull 35° 1.4cm › ‹ @ 110.72 QVbull 65° 8.0cm, py ,green mineral › ‹ @ 110.87 QVbull 62° 12.0cm, highly fractured ›	VA10077373	I003864	104	105.5	0.24
			VA10077373	I003865	105.5	107	0.71
			VA10077373	I003866	107	108.5	1.83
110		Interbedded tuff ,sediment: Grey mg-cg tuff (60%) thickly bedded to finely laminated with fg-v.fg dark grey siltstone/argillite (40%). Tuff contains varying amount of lithics which are generally black flattened liths 2-3mm in length. The bottom 45cm is a coarse grain tuff with a higher concentration of lithics. Bedding is clear throughout. « ank 13.0%» « py 0.4% 3.0-9.0mm» ‹ @ 113.45 SO 70° › ‹ @ 114.60 SO 80° › ‹ @ 116.00 SO 76° ›	VA10077373	I003867	108.5	110	1.54
			VA10077373	I003869	110	111.5	1.73
	Tuff / Sediment	Crystal Lithic Tuff: Med to coarse grained pale grey lithic tuff. Also contains some laminate to thin beds of dark grey sediments (5%) and overall is quite fractured (close to fault zone below). Also seen 2-3 mm black veins which cross cut the bedding in the tuff. Possible sediments which have been squeezed up through the bedding. Chlorite alteration is also visible as dark green rims around the ankerite and overall gives the rock a pale green appearance. Slight sericitic alteration as well. « ank 14.0%» « py 0.1% 2.0-4.0mm» ‹ @ 117.37 SO 85° › ‹ @ 118.29 SO 78° › ‹ @ 116.95 QVbull 44° 0.7cm › ‹ @ 117.09 QVbull 46° 0.8cm › ‹ @ 117.80 QVbull 33° 5.5cm ›	VA10077373	I003870	111.5	113	0.32
115			VA10077373	I003871	113	114.5	0.27
			VA10077373	I003872	114.5	116	0.28
	Crystal Lithic Tuff	Fault Zone in crystal lithic tuff. Highly fractured unit with sections of fault gouge. The tuff is less altered than the previous unit but some slight sericitic alteration is persistent. Base of the unit has some fg black sediments which have been reworked with the tuff beds. « ank 10.0%» « py 0.2% 2.0-7.0mm» ‹ @ 124.36 SO 68° › ‹ @ 123.62 QVbull 40° 5.4cm ›	VA10077373	I003873	116	117.5	0.14
			VA10077373	I003874	117.5	119	0.64
120	Fault	Crystal tuff with chlorite alteration: Med grained crystal tuff which shows persistent chlorite alteration of the ankerite throughout. Gives the rock a pale cream/green appearance with the green more pronounced on the fractures. Bedding not apparent and no measurable qz veins. « ank 26.0%» « py 0.1% 0.5-1.0mm»	VA10077373	I003875	119	120.5	1.7
			VA10077373	I003876	120.5	122	1.06
		Crystal Lithic Tuff: Fine-med grained pale grey-cream lithic crystal tuff. Lithics are distributed throughout and appear as black angular equant liths 1mm in size. Also, green chr mica alteration blebs are seen in 1-3% abundance throughout the unit. THe unit also contains some sediments (<5%) which are deformed into the tuff and show as contorted black veins. No bedding or grading in the tuff is seen. « ank 22.0%» « py 0.1% 1.0-1.0mm» ‹ @ 133.25 SO 50° › ‹ @ 129.64 QVbull 42° 11.0cm › ‹ @ 130.06 QVbull 45° 1.0cm › ‹ @ 130.71 QVbull 78° 1.6cm › ‹ @ 131.30 QVbull 72° 0.4cm › ‹ @ 133.08 QV1 26° 0.1cm ›	VA10077373	I003877	122	123.5	0.19
			VA10077373	I003878	123.5	125	0.55
125			VA10077373	I003880	125	126.5	0.18
	Crystal Tuff (Chl Alt)	Crystal Tuff: Fg. pale cream homogeneous crystal tuff. Some thin black veins are visible criss crossing the core but no variation in grain size is apparent. Lowest metre of the unit has chlorite alteration displayed by the darker green rims of the ankerites. « ank 12.0%» « py 0.2% 3.0-8.0mm» ‹ @ 137.26 QVbull 43° 0.3cm › ‹ @ 137.87 QV2 5° 0.4cm › ‹ @ 138.11 QV2 19° 0.2cm › ‹ @ 138.76 QVbull 70° 0.4cm ›	VA10077373	I003881	126.5	128	0.05
			VA10077373	I003882	128	129.5	0.01
130			VA10077373	I003883	129.5	131	0.01
	Crystal Lithic Tuff	Volcanic Conglomerate: Formed of sub-angular clasts 1-1.5cm in size in a fg. pale cream matrix (Matrix supported). The unit is thickly bedded with 2 beds, changing in average grainsize between beds- lower bed .5-1cm in size. Beds show a slight coarsening downhole sequence and have a planar boundary between. Chlorite alteration in the lower half of the unit and visible in the fracture with the bull qz. « ank 6.0%» « py 0.1% 1.0-2.0mm» ‹ @ 139.27 SO 45° › ‹ @ 139.78 QVbull 15° 3.0cm › ‹ @ 139.93 QVbull 53° 1.4cm ›	VA10077373	I003885	131	132.5	0.08
			VA10077373	I003886	132.5	134	0.01
135			VA10077373	I003887	134	135.24	0.01
	Crystal Tuff	Crystal Tuff/More mafic xl lithic tuff (65/35%): Pale grey fg. crystal tuff with some darker grey, more mafic lithic tuff medium beds which cut into the felsic tuff in random directions and vary in width (1mm to 5cm). The more mafic tuff also has an abundance of small (<0.5mm) euhedral pyrites and black lithics which are not seen in the felsic tuff beds. « ank 24.0%» « py 0.2% 0.2-5.0mm» ‹ @ 140.67 QV2 19° 0.2cm › ‹ @ 140.73 QV2 20° 0.3cm › ‹ @ 142.19 QV2 17° 0.2cm › ‹ @ 142.71 QVbull 58° 1.0cm › ‹ @ 143.23 QV2 61° 0.2cm › ‹ @ 144.65 QVbull 45° 8.5cm ›	VA10077373	I003888	135.24	136.5	0.01
			VA10077373	I003890	136.5	138	0.05
			VA10077373	I003891	138	139	0.21
	Conglomerate		VA10077373	I003892	139	140.21	0.07
140		Crystal Tuff: Fg. Pale khaki green colour crystal tuff with increasing green staining to a pastel green colour at the end of the unit. At fractures the green is quite pronounced showing a dark green platy mineral so likely chlorite alteration which increases through the unit, but rock grain size is continuous. « ank 13.0%» « py 0.2% 3.0-3.0mm» ‹ @ 147.15 SO 43° › ‹ @ 145.62 QVbull 44° 0.4cm › ‹ @ 145.78 QVbull 70° 0.8cm › ‹ @ 146.12 QV2 27° 0.5cm › ‹ @ 146.58 QVbull 30° 1.7cm › ‹ @ 147.13 QV2 45° 0.4cm ›	VA10077373	I003893	140.21	141.5	0.08
	Crystal Tuff		VA10077373	I003894	141.5	143	0.01
			VA10077373	I003895	143	144	0.08
		Crystal Tuff: fine to v.coarse grained crystal tuff. Medium size beds of darker more mafic tuff are seen with a higher concentration of lithic fragments. Also some patches of the bright reen chrome-mica alteratin 10-20cm in size. WIthin individual beds of the felsic tuff a fining downhole sequence is visible. Beds are often separated by a mafic bed. « ank 28.0%» « py 0.1% 0.2-6.0mm» ‹ @ 152.34 SO 52° › ‹ @ 149.65 QV2 26° 0.6cm › ‹ @ 150.04 QVbull 34° 1.1cm › ‹ @ 150.80 QVbull 7° 1.6cm › ‹ @ 151.21 QVbull 48° 0.6cm › ‹ @ 155.66 QVbull 44° 1.2cm ›	VA10077373	I003896	144	145	0.07
145			VA10077373	I003898	145	146.5	0.08
	Crystal Tuff		VA10077373	I003899	146.5	148.36	0.07
	Crystal Tuff	‹ @ 150.85 FZ 7° 0.9cm, gouge ›	VA10077373	I003900	148.36	150	0.12

10-DDH-902	North :5827932	East :604387	Elevation :1110.3	Hole Length :324.61	Azimuth :297	Dip :-75	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150	Crystal Tuff	Crystal Tuff: fine to v.coarse grained crystal tuff. Medium size beds of darker more mafic tuff are seen with a higher concentration of lithic fragments. Also some patches of the bright reen chrome-mica alteratin 10-20cm in size. WIthin individual beds of the felsic tuff a fining downhole sequence is visible. Beds are often separated by a mafic bed. « ank 28.0%» « py 0.1% 0.2-6.0mm» ‹ @ 152.34 SO 52° › ‹ @ 149.65 QV2 26° 0.6cm › ‹ @ 150.04 QVbull 34° 1.1cm › ‹ @ 150.80 QVbull 7° 1.6cm › ‹ @ 151.21 QVbull 48° 0.6cm › ‹ @ 155.66 QVbull 44° 1.2cm › ‹ @ 150.85 FZ 7° 0.9cm, gouge › « ser 3%»	VA10077373	I003900	148.36	150	0.12
			VA10077373	I003901	150	151.5	0.28
			VA10077373	I003903	151.5	153	0.1
			VA10077372	I003904	153	154.5	0.1
155			VA10077372	I003905	154.5	155.62	0.01
	Volcanic Conglomerate	Volcanic Conglomerate: Poorly sorted matrix supported conglomerate. Matrix consists of fg. dark grey to light grey rock and in places small black lithics (1mm in size) are seen in 3-5% abundance. Clasts are subangular 2-5cm in size and vary in composition- dark black to pale cream. Clasts in places also show some preferred orientation which bedding measurement is made from. Green blebs <1cm of chr-mica are seen in low abundance. « ank 18.0%» « py 0.2% 1.0-13.0mm» ‹ @ 163.42 SO 49° › ‹ @ 156.12 QV2 35° 0.3cm › ‹ @ 158.15 QV2 31° 0.2cm › ‹ @ 161.11 QV2 59° 0.6cm › « ser 1%»	VA10077372	I003906	155.62	157	0.08
			VA10077372	I003907	157	158.5	0.01
			VA10077372	I003909	158.5	160	0.01
160			VA10077372	I003910	160	161.5	0.01
			VA10077372	I003911	161.5	163	0.01
			VA10077372	I003912	163	164.5	0.01
165	Siltstone / Argillite	Siltstone/Argillite (65/35): Fg. dark grey siltstone thinly laminated to med bedding with v.fg black argillite. Anastomising felsic veins dominate some areas- particularly the argillite rich beds. « ank 4.0%» « py 0.6% 1.0-1.4mm» ‹ @ 169.10 OS0 12-100° › ‹ @ 174.41 OS0 46-175°, from bedding axis to hole bottom › ‹ @ 175.65 OS0 34-198° › ‹ @ 180.52 OS0 66-268° › ‹ @ 165.20 QV2 45° 2.0cm › ‹ @ 167.06 QVbull 381° 10.0cm › ‹ @ 166.76 QVpy 66° 3.0mm › ‹ @ 168.58 QVbull 44° 9.0cm › ‹ @ 171.07 QVbull 65-35° 8.0cm, sph › ‹ @ 172.65 QVbull 22° 10.5cm › ‹ @ 175.59 QV2 40-50° 0.4cm › ‹ @ 171.07 sph 3.00, 4x 2to4mm blebs in qz vein › ‹ @ 164.70 FZ 0° 21.0cm, gouge, not measurable › ‹ @ 174.10 FZ 35-34° 2.0cm, gouge _grind, beta to holebottom › ‹ @ 181.14 FZ 40° 20.0cm, gouge ›	VA10077372	I003913	164.5	166	0.21
			VA10077372	I003914	166	167.5	0.9
			VA10077372	I003915	167.5	169	0.44
170			VA10077372	I003916	169	170.5	1.36
			VA10077372	I003918	170.5	172	1.45
			VA10077372	I003919	172	173.5	12.3
			VA10077372	I003920	173.5	175	0.17
175			VA10077372	I003921	175	176.5	2.88
			VA10077372	I003922	176.5	178	0.08
			VA10077372	I003923	178	179.5	0.01
180	Matic Tuff	Mafic Tuff: Fg. homogeneous dark grey tuff. Bedding is slightly visible and is accentuated by qz veins which stem from the main vein up the bedding. No visible grain size variation through the unit- originally thought of as a mafic dyke/sill. ‹ @ 182.15 OS0 39-48°, bedding to holebottom › ‹ @ 182.16 QV2 67-290° 0.3cm ›	VA10077372	I003925	179.5	181	0.74
			VA10077372	I003926	181	182.5	1.9
	Siltstone / Argillite	Siltstone/Argillite: Continuation of the same siltstone/argillite unit above. « ank 3.0%» « py 0.4%» ‹ @ 182.88 OS0 62-92°, beta to hole bottom › ‹ @ 185.27 OS0 63-72°, beta to hole bottom › ‹ @ 188.85 OS0 88-138°, beta to bottom ›	VA10077372	I003927	182.5	184	2.84
185		‹ @ 194.95 SO 56° › ‹ @ 185.67 QVbull 30-162° 5.0cm, beta to bottom › ‹ @ 184.00 FZ 0° 14.0cm, gouge grind not measurable › ‹ @ 191.40 FZ 70-255° 11.0cm, gouge _grind, beta to bottom ›	VA10077372	I003928	184	185.5	0.75
			VA10077372	I003929	185.5	187	0.26
			VA10077372	I003931	187	188.5	0.01
			VA10077372	I003932	188.5	190	0.06
190			VA10077372	I003933	190	191.5	0.37
			VA10077372	I003934	191.5	193	0.01
			VA10077372	I003935	193	194.5	0.1
195	Fault- Silt / Arg	Fault zone in Siltstone/Argillite: « ank 2.0%» « py » ‹ @ 196.00 QVbull 40° 1.8cm › ‹ @ 196.19 FZ 50° 17.0cm, gouge _grind › ‹ @ 197.62 FZ 85° 8.0cm, gouge › ‹ @ 198.36 FZ 55° 2.5cm › ‹ @ 199.14 FZ 82° 9.0cm, gouge › ‹ @ 200.25 FZ 77° 4.0cm, gouge › ‹ @ 200.54 FZ 60° 7.0cm, gouge ›	VA10077372	I003936	194.5	196	0.08
			VA10077372	I003937	196	197.5	0.01
			VA10077372	I003939	197.5	199	0.01

10-DDH-902	North :5827932	East :604387	Elevation :1110.3	Hole Length :324.61	Azimuth :297	Dip :-75	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
200	Fault- Silt / Arg	Fault zone in Siltstone/Argillite:	VA10077372	I003939	197.5	199	0.01
		« ank 2.0%» « py »	VA10077372	I003940	199	200.5	0.07
		‹ @ 196.00 QVbull 40° 1.8cm ›					
	Siltstone / Argillite	‹ @ 196.19 FZ 50° 17.0cm, gouge _grind › ‹ @ 197.62 FZ 85° 8.0cm, gouge › ‹ @ 198.36 FZ 55° 2.5cm › ‹ @ 199.14 FZ 82° 9.0cm, gouge › ‹ @ 200.25 FZ 77° 4.0cm, gouge › ‹ @ 200.54 FZ 60° 7.0cm, gouge ›	VA10077372	I003941	200.5	202	0.01
		Siltstone/Argillite (60/40): Siltstone/argillite as above.					
		« ank 4.0%» « py 0.2% 0.5-2.0mm»	VA10077372	I003943	202	203.5	0.12
		‹ @ 203.35 OS0 45-79°, beta to hole bottom › ‹ @ 204.28 OS0 55-212°, beta to hole bottom ›					
205		‹ @ 205.05 QV2 37° 2.5cm ›	VA10077372	I003944	203.5	205.4	0.17
	Crystal Tuff	Crystal Tuff: Dark grey fg. crystal tuff. Highly fractured in the lower half due to proximity to the fault zone below. Ankerite shows as small 1mm rhombs and displays less alteration than most other tuffs. Thin laminate beds of argillite with higher graphitic abundance are seen- particularly at the fractures.	VA10077372	I003945	205.4	207	0.01
		« ank 19.0%» « py 0.1% 1.0-1.0mm»					
		‹ @ 205.55 QV2 60° 1.2cm › ‹ @ 207.32 QVbull 5° 5.5cm › ‹ @ 208.60 QVbull 4° 1.2cm ›	VA10077372	I003946	207	208.79	0.01
		‹ @ 209.50 FZ 0° 9.5cm, gouge, not measurable ›	VA10077372	I003947	208.79	209.9	0.01
210	Fault	Fault in Siltstone/Argillite: Highly fractured fg. dark grey siltstone and black argillite.					
		« ank 3.0%» « py 0.2% 1.0-1.0mm»	VA10077372	I003949	209.9	212	0.01
		@ 211.60 FZ 0° 100.0cm, 0.85m core loss in this area › ‹ @ 212.80 FZ 65° 29.0cm, gouge _grind ›					
		‹ @ 211.80 LC 0.85 ›	VA10077372	I003950	212	213.5	0.01
	Argillite / Siltstone	Argillite/Siltstone (70/30): Interbedded fg. black argillite with dark grey fg siltstone in a thinly laminate to thinly bedded scale. Bedding goes from planar to highly contorted in areas.					
215		« ank 3.0%» « py 0.4% 0.5-16.0mm»	VA10077372	I003951	213.5	215	0.01
		‹ @ 214.70 OS0 43-83°, beta to bottom › ‹ @ 218.25 OS0 46-208°, beta to bottome ›	VA10077372	I003952	215	216.5	0.32
		‹ @ 217.04 QV2 60° 2.0cm › ‹ @ 220.33 QVbull 23-180° 1.8cm, beta to hole bottom ›					
		‹ @ 218.09 FZ 0° 3.0cm, grind, not measurable ›	VA10077372	I003953	216.5	218	0.07
220			VA10077372	I003954	218	220	0.01
			VA10077372	I003955	220	221.7	0.01
	Tuff / Sediments	Tuff/Sediments (80/30): Interbedded grey fg-mg tuff with thin beds of dark grey to black fg siltstone _argillite. Tuff shows large carbonate alteraton with large ankerite rhombs up to 30mm which also show pale cream sericite alteration. Lithics are rare but appear as flattened black liths 2-3mm in size (possibly fragments of the sediments).	VA10077372	I003956	221.7	223	0.01
		« ank 22.0%» « py 0.3% 0.5-2.3mm»	VA10077372	I003957	223	224	0.01
		‹ @ 222.26 OS0 53-145°, beta to bottom ›	VA10077372	I003959	224	225	0.01
225		‹ @ 221.70 QV2 57° 0.4cm ›	VA10077372	I003960	225	226.3	0.01
		« ser 4%»					
	Argillite / Siltstone	Argillite/Sltstone: (65/35) Interbedded argillite/siltstone on a finely laminate to thinly bedded scale. Bedding is planar but gets more contorted through the unit getting closer to the cataclasite texture at the end of the unit.	VA10077372	I003961	226.3	228	0.08
		« ank 9.0%» « py 0.4% 0.5-8.0mm»					
		‹ @ 230.68 OS0 45-5°, beta to bottom › ‹ @ 234.89 OS0 62-296°, beta to bottom › ‹ @ 242.43 OS0 55-268° › ‹ @ 245.19 OS0 55-310° ›	VA10077372	I003962	228	229.5	0.06
230		‹ @ 229.26 QVbull 34-252° 0.6cm, beta to bottom › ‹ @ 230.21 QVbull 40-100° 0.3cm, beta to bottom ›					
		‹ @ 244.08 FZ 42-222° 33.0cm, beta to bottom, gouge grind ›‹ @ 245.75 FZ 60° 6.5cm, gouge _slicks ›	VA10077372	I003963	229.5	231	0.05
			VA10077372	I003965	231	232.5	0.1
			VA10077372	I003966	232.5	234	0.22
235			VA10077372	I003967	234	235.5	0.01
			VA10077372	I003968	235.5	237	0.01
			VA10077372	I003970	237	238.5	0.01
			VA10077372	I003971	238.5	240	0.01
240			VA10077372	I003972	240	241.5	0.01
			VA10077372	I003973	241.5	243	0.09
		Cataclasite (Silt/Arg) (70/30): Reworked graphitic metaseds. Lt to dk grey, fine grained, originally appears to be a finely interbedded unit but more felsic beds have been broken, boudined, rotated but retain an overall fabric direction. Pyrite has also be broken from euhedral cubes and stretched alond the planes, whole cubes are rare.	VA10077372	I003974	243	244.5	0.01
		« ank 3.0%» « py 1.0% 0.5-3.0mm»	VA10077372	I003975	244.5	246	1.03
245		‹ @ 283.71 OS0 55-165°, beta to bottom › ‹ @ 260.86 OS0 50-288°, beta to bottom ›					
	Cataclasite (Silt / Arg)	‹ @ 246.17 QVbull 35° 2.6cm › ‹ @ 265.26 QV2 33° 1.4cm › ‹ @ 279.84 QV2 80° 2.8cm › ‹ @ 285.54 QVbull 80-159° 7.5cm, beta to bottom ›	VA10077372	I003976	246	247.5	1.96
		‹ @ 252.08 FZ 75° 5.5cm, grind gouge › ‹ @ 270.18 FZ 62° 15.0cm, gouge _grind ›	VA10077372	I003977	247.5	249.25	0.76



Scale 1:200	Start Depth :198.38	End Depth :247.98	Page No.: 5

10-DDH-902	North :5827932	East :604387	Elevation :1110.3	Hole Length :324.61	Azimuth :297	Dip :-75	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
250	Cataclasite (Silt / Arg)	Cataclasite (Silt/Arg) (70/30): Reworked graphitic metaseds. Lt to dk grey, fine grained, originally appears to be a finely interbedded unit but more felsic beds have been broken, boudined, rotated but retain an overall fabric direction. Pyrite has also be broken from euhedral cubes and stretched alond the planes, whole cubes are rare. « ank 3.0%» « py 1.0% 0.5-3.0mm» ‹ @ 283.71 OS0 55-165°, beta to bottom › ‹ @ 260.86 OS0 50-288°, beta to bottom › ‹ @ 246.17 QVbull 35° 2.6cm › ‹ @ 265.26 QV2 33° 1.4cm › ‹ @ 279.84 QV2 80° 2.8cm › ‹ @ 285.54 QVbull 80-159° 7.5cm, beta to bottom › ‹ @ 252.08 FZ 75° 5.5cm, grind gouge › ‹ @ 270.18 FZ 62° 15.0cm, gouge ,grind ›	VA10077372	I003977	247.5	249.25	0.76
			VA10077372	I003978	249.25	250.5	0.25
			VA10077372	I003980	250.5	252	0.01
			VA10077372	I003981	252	253.5	0.2
255			VA10077372	I003982	253.5	255	0.01
			VA10077372	I003983	255	256.5	0.01
			VA10077372	I003985	256.5	258	0.17
			VA10077372	I003986	258	259.5	0.22
260			VA10077372	I003987	259.5	261	0.12
			VA10077372	I003988	261	262.5	0.36
			VA10077372	I003990	262.5	264	0.24
265			VA10077372	I003991	264	265.5	0.15
			VA10077372	I003992	265.5	267	0.16
			VA10077372	I003993	267	268.5	0.01
270			VA10077372	I003994	268.5	270	0.01
			VA10077372	I003995	270	271.5	0.01
			VA10077372	I003996	271.5	273	0.11
			VA10077372	I003998	273	274.5	0.06
275			VA10077372	I003999	274.5	276	0.05
			VA10077372	I004000	276	277.5	0.01
			VA10077372	I088001	277.5	279	0.01
280			VA10077372	I088002	279	280.5	0.01
			VA10077372	I088003	280.5	282	0.01
			VA10077372	I088005	282	283.5	0.01
			VA10077372	I088006	283.5	285	0.01
285			VA10077372	I088007	285	286.5	0.01
			VA10077372	I088008	286.5	288	0.01
			VA10077372	I088010	288	289.5	0.01
290			VA10077372	I088011	289.5	291	0.01
			VA10077372	I088012	291	292.5	0.01
	Fault	Fault Zone in Cataclasite. Highly fractured cataclasite unit. « ank 3.0%» « py 0.7% 0.5-1.5mm» ‹ @ 294.14 QVbull 0° 6.5cm, not measurable › ‹ @ 294.36 FZ 48° 22.0cm, gouge › ‹ @ 296.95 FZ 50° 4.0cm, blue clay mineral at fault contact › Blue mineral on fault plane- not clay- flexible fibrous blue translucent mineral.	VA10077372	I088013	292.5	294	0.01
295			VA10077372	I088014	294	295.5	0.13
			VA10077372	I088015	295.5	297	0.26
			VA10077372	I088016	297	298.5	0.42

Scale 1:200	Start Depth :247.98	End Depth :297.58	Page No.: 6

10-DDH-902	North :5827932	East :604387	Elevation :1110.3	Hole Length :324.61	Azimuth :297	Dip :-75	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
300	Fault	Fault Zone in Cataclasite. Highly fractured cataclasite unit.	VA10077372	I088016	297	298.5	0.42
		« ank 3.0%» « py 0.7% 0.5-1.5mm»	VA10077372	I088017	298.5	300	0.25
		‹ @ 294.14 QVbull 0° 6.5cm, not measurable ›	VA10077372	I088018	300	301.5	0.14
		‹ @ 294.36 FZ 48° 22.0cm, gouge › ‹ @ 296.95 FZ 50° 4.0cm, blue clay mineral at fault contact › Blue mineral on fault plane- not clay- flexible fibrous blue translucent mineral.	VA10077372	I088019	301.5	303	0.07
	Crystal Tuff	Crystal Tuff: Dark grey fg crystal lithic tuff interbedded with some metaseds (<20%) on a thin size bed scale. Some bedding is seen in the tuff through change in grain size.	VA10077372	I088021	303	304.5	0.01
		« ank 6.0%» « py 0.9% 1.0-14.0mm»	VA10077372	I088022	304.5	306	0.01
305		‹ @ 301.89 OS0 29-175°, beta to bottom › ‹ @ 300.20 SO 23° › ‹ @ 308.15 OS0 33-192°, beta to bottom ›	VA10077372	I088023	306	307.5	0.01
		‹ @ 300.13 QV2 47° 0.2cm › ‹ @ 301.44 QV2 42° 0.3cm ›	VA10077372	I088025	307.5	309	0.14
		Siltstone/Argillite: SIltstone bedded with v.fg black argillite. Planar bedded throughout with very little contortion which is unusual for the metased units.	VA10077372	I088026	309	310.5	0.08
		« ank 4.0%» « py 0.9% 1.0-11mm»	VA10077372	I088027	310.5	312	0.01
310	Siltstone / Argillite	‹ @ 311.60 OS0 21-180°, beta to bottom › ‹ @ 309.58 OS0 32-185°, beta to bottom ›	VA10077372	I088028	312	313.5	0.06
		‹ @ 313.60 QV2 25-170° 0.2cm ›	VA10077372	I088030	313.5	315	0.06
		Crystal Lithic Tuff: mg-cg grey crystal lithic tuff. Lithics are black 2-3mm subangular liths which do not have a preferred orientation. Some slight bedding is visible on a thin to thick scale but grading is not visible	VA10077372	I088031	315	316.5	0.24
		« ank 12.0%» « py 0.4% 2.0-1.8mm»	VA10077372	I088032	316.5	318	0.01
315		‹ @ 316.99 OS0 58-10°, beta to hole bottom › ‹ @ 320.58 OS0 30-345°, beta to hole bottom ›	VA10077372	I088033	318	319.5	0.01
		‹ @ 318.00 QVbull 25-185° 1.0cm, beta to bottom › ‹ @ 320.16 QVbull 30° 4.0cm ›	VA10077372	I088034	319.5	321	0.01
		« 320.16- 320.16 cpy 0.1% 2-2mm»	VA10077372	I088035	321	322.5	0.01
	Crystal Lithic Tuff		VA10077372	I088036	322.5	323.5	0.05
320			VA10077372	I088037	323.5	324.61	0.05
	EOH	End of the hole					
325							
330							
335							
340							
345							

Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
5	Casing	No core recovered.					
10	Siltstone	Light grey to rusty heavily broken fine grained siltstone with short sections of competent med grained crystal lithic tuff, overprinted with « ank 20%» 3-7mm variably degrading rounded ankerite p/blasts with occasional chlorite rims « chl 0.5%». Foliation locally seems to affect the ankerite spots. Patchy weak to moderate sericitic alteration in some places imparts brecciated appearance. Low pyrite content « py 1.0%» as 1-5 mm totally oxidized cubes. « 8.10- 9.10 bkn » broken gougey section , limonite stained, could be faulting ‹ @ 8.60 S0 60° › ‹ @ 9.20 S0 50° › « 9.64- 12.70 bkn » broken core, vuggy broken quartz vein ‹ @ 11.00 LC 0.5m ›, ‹ @ 12.80 fol 50° › , « 13.10- 17.80 bkn » clayey gouge, quartz rubble, ‹ @ 16.00 LC 1.00m › ‹ @ 14.00 LC 0.75m › ‹ @ 14.45 fol 25° ›	VA10145383	I095474	5.79	8.5	0.025
			VA10145383	I095475	8.5	10	0.025
			VA10145383	I095477	10	11.5	0.025
			VA10145383	I095478	11.5	13	0.025
15	Crystal Tuff	Yellow-whitish to rusty and locally light grey crystal tuff with minor 3-6 mm lapili, with sporadic fuchsite spots, brecciated locally, minor albitization « mod-str ser » sericitization and tan weathered « ank 25%» 1-5 mm p/blasts form overprint th/out, rock weakly reacts with cold HCL. Lower contact with argillite is faulted.	VA10145383	I095479	13	15.5	0.025
			VA10145383	I095480	15.5	17.5	0.025
20			VA10145383	I095481	17.5	19.41	0.025
25	Cat.2 Argillite	Black argillite with minor cm scale beds of fg crystal lapili tuff, strongly deformed with faulted upper contact, locally with silty fragments warped into graphitic folia. Unit is distinctive in higher pyrite content (disseminated and fg aggregates) making « py 4.0%». Disrupted or deformed 2-3mm quartz veins. « 21.00- 24.50 FZ 0°» gouge, rubble, ‹ @ 21.50 LC 1.30m › ‹ @ 25.60 QV2 75° 9.0cm › re-opened twice ‹ @ 27.20 fol 45° › ‹ @ 27.50 S0 50° ›					
30	Crystal Tuff	Medium grey fg-mg crystal lithic tuff with ashey sections, minor siltstone and argillite interbeds overprinted with two carbonate alteration events (marked by earlier rounded ankerite p/blasts often degraded to vugs and later 2-3 mm rhombs), unit is cut by translucent dismembered 2-3 mm var oriented quartz veins, occasional 1cm bull quartz vein with sphalerite, pyrite content averages to « py 2.0%» and it occurs as very fg wispy pyrite veinlets and bands with some increase in argillite subunit, wk-mod sericitic alteration affects primarily siltstone interbeds. ‹ @ 32.90 S0 60° › « 32.61- 32.90 Argillite 50-60°» ‹ @ 33.00 S0 35° › « 33.55- 34.46 Siltstone 70-33°» med grey, fg, «ser 5.00%» with rounded 5-8 mm ankerite p/blasts and degraded ankerite vugs «ank 20%» ‹ @ 35.10 S0 45° › ‹ @ 35.84 QV3 30° 1.0cm › restricted by argillite bed with ‹ @ 31.70 sph 0.5% › ‹ @ 35.84 S0 60° › « 35.84- 36.90 Argillite 60°» lower contact is broken « 36.90- 37.85 Siltstone -45°0°» slightly bleached due to « ser 10.00%» ‹ @ 35.84 LCT 50° ›					
35		Variably graphitic argillite exhibits sections with planar and contorted bedding, locally finely laminated, minor silty interbeds, locally broken, overall «py 2.0%» as finely disseminated pyrite/ 1-5mm euh crysts/ bands and wispy veins or very fg pyrite in silty beds/fg lenses parallel to bedding/foliation planes, occasional >1cm ribbony quartz veins (QV2) with pyrite, often deformed, dismembered or broken. « 36.90- 37.85 Siltstone -45°0°» bleached due to «ser 20.00%», with wispy very fg pyrite veins and bands, weakly reacts with HCL « 37.90- 44.50 py 2.0%» ‹ @ 39.00 fol 55° › ‹ @ 41.40 S0 67° ›					
40	Cat.1 / Cat.2 Argillite	« 41.40- 42.10 Siltstone 0°» « 42.35- 43.90 FZ 40-60°» rubble, ‹ @ 42.35 LC 0.45m › broken core blocks with 2 cm ribbony qz veins (QV2) « 44.50- 46.15 Siltstone » « ank 15%» « 45.00- 71.40 Cat 2 Argillite » higly deformed « 52.20- 53.20 bkn » ‹ @ 52.20 LC 0.40m › « 54.10- 56.00 bkn » ‹ @ 56.00 LC 0.60m › ‹ @ 59.15 S0 50° ›					
45		« 64.50- 65.10 bkn » ‹ @ 67.50 fol 40° › ‹ @ 71.40 S0 60° › « 71.40- 72.90 Siltstone 60-40°» ‹ @ 72.36 fol 50° › « py 1.0%» in qz-carb veins and « stringers » « 73.70- 74.00 bkn » ‹ @ 80.00 fol 70° › ‹ @ 80.66 QV2 72° 0.8cm › « 83.40- 92.00 bkn » broken core ‹ @ 85.70 QV3 45° 3.0cm ›					

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

	Geology		Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
55	Cat.1 / Cat.2 Argillite	Variably graphitic argillite exhibits sections with planar and contorted bedding, locally finely laminated, minor silty interbeds, locally broken, overall «py 2.0%» as finely disseminated pyrite/ 1-5mm euh crysts/ bands and wispy veins or very fg pyrite in silty beds/fg lenses parallel to bedding/foliation planes, occasional >1cm ribbony quartz veins (QV2) with pyrite, often deformed, dismembered or broken. « 36.90- 37.85 Siltstone -45°0°» bleached due to «ser 20.00%», with wispy very fg pyrite veins and bands, weakly reacts with HCL « 37.90- 44.50 py 2.0%» ‹ @ 39.00 fol 55° › ‹ @ 41.40 S0 67° › « 41.40- 42.10 Siltstone 0°» « 42.35- 43.90 FZ 40-60°» rubble, ‹ @ 42.35 LC 0.45m › broken core blocks with 2 cm ribbony qz veins (QV2) « 44.50- 46.15 Siltstone » « ank 15%» « 45.00- 71.40 Cat 2 Argillite » higly deformed « 52.20- 53.20 bkn » ‹ @ 52.20 LC 0.40m › « 54.10- 56.00 bkn » ‹ @ 56.00 LC 0.60m › ‹ @ 59.15 S0 50° › « 64.50- 65.10 bkn » ‹ @ 67.50 fol 40° › ‹ @ 71.40 S0 60° › « 71.40- 72.90 Siltstone 60-40°» ‹ @ 72.36 fol 50° › « py 1.0%» in qz-carb veins and « stringers » « 73.70- 74.00 bkn » ‹ @ 80.00 fol 70° › ‹ @ 80.66 QV2 72° 0.8cm › « 83.40- 92.00 bkn » broken core ‹ @ 85.70 QV3 45° 3.0cm ›						
60								
65								
70								
75								
80								
85								
90	Conglomerate	Polymictic conglomerate with clasts up to 3 cm aligned at 30 dedg tca, fines down, pyrite cubes are bigger compare to previous sequence 1-8 mm with qz pressure shadows « py 2.0%» Note: cave in @87.80 « 88.00- 89.60 bkn » broken core, rubble, gougey sections « 90.50- 92.00 bkn » ‹ @ 90.50 LC 0.50m › ‹ @ 91.00 S0 30° ›, ‹ @ 92.20 S0 17° › ‹ @ 92.60 fol 10° › ‹ @ 92.12 QV3 15° 1.0cm ›						
95	Siltstone	Medium grey fg siltstone interbedded with silty argilite and crystal tuff at the end of the unit, foliated @70 deg tca, ankerite overprint , foliation visibly affects ankerite rounded p/blasts, rhombic habit seems to be the late carbonate alteration event, locally ankerite and pyrite are weathered out living cavities, overall pyrite « py 4.0%» is featured by having sceletal texture and euhedral crysts grew in size up to 2 cm often with qz pessue shadows, aggregates up to 3 cm and pyrite veins are common. Unit is cut by bull qz veins (one with visible gold @100.85m) crosscutting foliation, quartz stingers and veinlets are often crenulated. Lower contact is faulted. « 93.50- 102.50 ank 20%» ‹ @ 90.00 QV3 55° 8.5cm › « 94.00- 96.00 stringers 3% 1.00mm» @ 15-20 deg tca, locally crenulated ‹ @ 95.20 fol 70° ›, ‹ @ 96.10 fol 25° ›, ‹ @ 97.15 fol 70° › ‹ @ 100.40 fol 70° › ‹ @ 100.40 QV1 50° 0.3cm › crenulated ‹ @ 100.85 QV3 60° 2.8cm › bull qz vein with ‹ @ 100.85 VG › ‹ @ 100.85 sph 1.0% › , ‹ @ 100.85 gal 0.5% › ‹ @ 102.00 fol 70° › « 102.10- 103.60 Argillite » foliated ‹ @ 102.65 fol 80° › ‹ @ 103.90 S0 10° › ‹ @ 106.70 S0 15° › « 107.30- 108.90 bkn » ‹ @ 109.00 fol 75° › « 109.30- 111.15 bkn » « 112.64- 115.45 FZ 70-53°» rubble, gouge, ‹ @ 114.00 LC 0.90m › « 35.84- 36.90 Argillite 60°» lower contact is broken « 36.90- 37.85 Siltstone -45°0°» ‹ @ 115.60 QV3 22° 0.8cm › crosscutting foliation ‹ @ 112.64 fol 76° › « 116.10- 118.05 Crystal Tuff 30°» Crystal tuff with minor lapili, mg to fg	VA10145383	I095482	87.37	88.5	0.26	
			VA10145383	I095484	88.5	90	0.19	
			VA10145383	I095485	90	91.5	0.52	
			VA10145383	I095486	91.5	92.92	0.28	
			VA10145383	I095487	95.98	97.5	0.19	
			VA10145383	I095489	97.5	99	0.7	
			VA10145383	I095490	99	100.5	0.2	

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
100	Siltstone	Medium grey fg siltstone interbedded with silty argilite and crystal tuff at the end of the unit, foliated @70 deg tca, ankerite overprint , foliation visibly affects ankerite rounded p/blasts, rhombic habit seems to be the late carbonate alteration event, locally ankerite and pyrite are weathered out living cavities, overall pyrite « py 4.0%» is featured by having sceletal texture and euhedral crysts grew in size up to 2 cm often with qz pessue shadows, aggregates up to 3 cm and pyrite veins are common. Unit is cut by bull qz veins (one with visible gold @100.85m) crosscutting foliation, quartz stingers and veinlets are often crenulated. Lower contact is faulted. « 93.50- 102.50 ank 20%» ‹ @ 90.00 QV3 55° 8.5cm › « 94.00- 96.00 stringers 3% 1.00mm» @ 15-20 deg tca, locally crenulated ‹ @ 95.20 fol 70° ›, ‹ @ 96.10 fol 25° ›, ‹ @ 97.15 fol 70° › ‹ @ 100.40 fol 70° › ‹ @ 100.40 QV1 50° 0.3cm › crenulated ‹ @ 100.85 QV3 60° 2.8cm › bull qz vein with ‹ @ 100.85 VG › ‹ @ 100.85 sph 1.0% › , ‹ @ 100.85 gal 0.5% ›	VA10145383	I095490	99	100.5	0.2
			VA10145383	I095491	100.5	102.16	0.75
105		‹ @ 102.00 fol 70° › « 102.10- 103.60 Argillite » foliated ‹ @ 102.65 fol 80° › ‹ @ 103.90 S0 10° › ‹ @ 106.70 S0 15° › « 107.30- 108.90 bkn » ‹ @ 109.00 fol 75° › « 109.30- 111.15 bkn » « 112.64- 115.45 FZ 70-53°» rubble, gouge, ‹ @ 114.00 LC 0.90m › « 35.84- 36.90 Argillite 60°» lower contact is broken « 36.90- 37.85 Siltstone -45°0°» ‹ @ 115.60 QV3 22° 0.8cm › crosscutting foliation ‹ @ 112.64 fol 76° › « 116.10- 118.05 Crystal Tuff 30°» Crystal tuff with minor lapili, mg to fg					
110							
115							
120	Fault Zone	Fault zone is comprised of broken and gouged argillite and lithic tuff, competent blocks <20cm, ‹ @ 118.05 LC 0.50m ›, broken qz veins with sulphides and visible gold, « py 1.0%» as euh crystals, carbonate alteration affects tuffaceous rock. « 125.10- 127.00 ank 25%» as 1-3 mm spots ‹ @ 124.00 sph 1.0% › ‹ @ 126.60 gal 1.0% ›, ‹ @ 126.60 sph 1.0% › , ‹ @ 126.60 VG › ‹ @ 127.10 gal 1.0% ›	VA10145383	I095492	120.62	122	0.68
			VA10145383	I095493	122	123.5	1.89
125			VA10145383	I095494	123.5	125	0.16
			VA10145383	I095495	125	126.5	0.55
130	Altered Crystal Tuff	Light creamy crystal tuff with 0.3-2 cm lapili aligned at 20-40 deg tca, pervasive carbonate alteration with 2-5 mm ankerite p/blasts, fuchsite traces, mod pervasive sericitic alteration, locally silicified, chlorite rims around ankerite p/blasts and fracture coatings, overal pyrite « py 2.0%» as euh crysts, unit is cut by abundant translucent anastomosing quartz veins, alteration fronts are marked by parallel to bedding <1mm translucent qz veins @ 30 deg TCA. Visible gold is found @ 147.58 VG. Base metals are encountered in 6 veins. ‹ @ 127.90 QV3 55° 30.0cm › broken, fractured, with platy ankerite crysts growing perpendicular to vein margins, wallrock frgms « 128.50- 129.00 stringers 3% 2.00mm» var oriented, dismembered ‹ @ 130.20 QV3 60° 1.0cm › with ankerite ‹ @ 131.62 S0 30° ›, ‹ @ 131.85 S0 33° › ‹ @ 132.22 QV3 70° 0.5cm › ‹ @ 133.15 S0 30° › ‹ @ 133.85 QV3 30° 0.5cm › translucent, parallel to bedding, marks alteration front as rock is more bleached downhole					
135		« 133.85- 156.10 ser 30% » « ank 35%» « chl 3%» ‹ @ 134.80 QV3 70° 7.0cm › ‹ @ 134.80 gal 0.2% › ‹ @ 135.15 S0 40° › ‹ @ 136.10 S0 20° › ‹ @ 136.70 S0 27° › ‹ @ 133.95 QV3 40° 1.3cm › ‹ @ 138.00 QV3 30° 0.1cm › marks alteration front , parallel to bedding ‹ @ 138.50 QV3 60° 0.2cm › « 138.50- 138.52 cpy 0.2%» ‹ @ 138.50 sph 0.2% › ‹ @ 140.10 QV3 70° 1.0cm › « 140.10- 140.11 cpy 1.5%» , « sb 0.2%» ‹ @ 140.45 QV3 85° 0.8cm › ‹ @ 140.45 sph 1.0% › « 140.45- 140.46 cpy 1.0%» ‹ @ 143.00 S0 7° › ‹ @ 147.58 QV3 70° 3.4cm › ‹ @ 147.58 sph 1.0% ›, ‹ @ 147.58 VG › « 147.58- 147.61 cpy 0.5%» « 144.30- 144.60 chl 3% », « 145.35- 145.55 chl 3% » « 146.00- 146.70 sil 3%» ‹ @ 150.70 QV3 30° 0.5cm › « 150.70- 150.75 cpy 0.2%» Note: alteration drops down @156.10m ‹ @ 158.35 LCT 50° ›					
140							
145							

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
150	Altered Crystal Tuff	Light creamy crystal tuff with 0.3-2 cm lapili aligned at 20-40 deg tca, pervasive carbonate alteration with 2-5 mm ankerite p/blasts, fuchsite traces, mod pervasive sericitic alteration, locally silicified, chlorite rims around ankerite p/blasts and fracture coatings, overal pyrite « py 2.0%» as euh crysts, unit is cut by abundant translucent anastomosing quartz veins, alteration fronts are marked by parallel to bedding <1mm translucent qz veins @ 30 deg TCA. Visible gold is found @ 147.58 VG. Base metals are encountered in 6 veins. ‹ @ 127.90 QV3 55° 30.0cm › broken, fractured, with platy ankerite crysts growing perpendicular to vein margins, wallrock frgms « 128.50- 129.00 stringers 3% 2.00mm» var oriented, dismembered ‹ @ 130.20 QV3 60° 1.0cm › with ankerite ‹ @ 131.62 S0 30° ›, ‹ @ 131.85 S0 33° › ‹ @ 132.22 QV3 70° 0.5cm › ‹ @ 133.15 S0 30° › ‹ @ 133.85 QV3 30° 0.5cm › translucent, parallel to bedding, marks alteration front as rock is more bleached downhole « 133.85- 156.10 ser 30% » « ank 35%» « chl 3%» ‹ @ 134.80 QV3 70° 7.0cm › ‹ @ 134.80 gal 0.2% › ‹ @ 135.15 S0 40° › ‹ @ 136.10 S0 20° › ‹ @ 136.70 S0 27° › ‹ @ 133.95 QV3 40° 1.3cm › ‹ @ 138.00 QV3 30° 0.1cm › marks alteration front , parallel to bedding ‹ @ 138.50 QV3 60° 0.2cm › « 138.50- 138.52 cpy 0.2%» ‹ @ 138.50 sph 0.2% ›						
155								
160	Siltstone	Medium grey fg siltstone with short section of fg crystalline lapili tuff, « py 2.0%» as 0.6-2cm euhedral crystals with qz pressure shadows cut by var oriented 1-5 mm qz veins, locally faulted @ 159.05 S0 35°						
165	Altered FG-MG Crystal Lithic Tuff	Med grey at the first meter and pale white downhole crystal lithic tuff with angular lithic frgms up to 2 cm and lapili up to 0.7 cm. Overall pyrite makes « py 1.0%». Visible gold is found in two bull qz veins @165.80 and 170.25m carrying sphalerite, galena and chalcopyite. « 166.00- 172.82 chl 2%» ‹ @ 161.80 S0 10° › ‹ @ 165.80 QV3 80° 2.0cm › ‹ @ 165.80 VG › ‹ @ 165.80 gal 0.5% › « 166.20- 166.80 bkn »						
170		Medium grey fg to locally med grained crystal tuff, patchy sericitic alteration is cut by set of chlorite infilled fractues imparting locally jig saw pattern to rock, competent , locally broken, minor chlorite alteration seen as fracture coating, unit is cut by abundant milky white bull qz veins at high angles TCA and these veins are often fractured and carry base metal sulphides, younger translucent up to 1 cm qz veins are variably oriented and quite often cut older high angled qz-sericite-py veins, › weak chlorite th/out «chl 1.0%», pervasive carbonate alteration as 1mm ankerite spots 30%, pyrite occurs as 0.5-1cubes. Visible gold is encountered @ 178.32m, @180.15m, base metals in 29 veins. ‹ @ 176.25 QV3 70° 4.0cm › ‹ @ 176.25 gal 0.3% › ‹ @ 176.25 sph 0.2% › «176.90- 178.20 bkn » ‹ @ 178.32 QV3 85 › ‹ @ 178.32 sph 0.5% › with ‹ @ 178.32 VG › « 178.32- 178.33 cpy 1.5%» « 179.00- 185.20 ank 35%» as 1mm pervasive spotting ‹ @ 180.15 QV3 65°0.6cm › ‹ @ 180.15 VG ›						
175		‹ @ 181.00 QV2 20° 3.0cm › with platy ankerite crysts grown perpendicular to margins, vein s cut by two translucent late qz veins one with chalcopyrite ‹ @ 181.12 QV3 50° 0.6cm ›, ‹ @ 181.25 QV3 60° 0.8cm › « 181.25- 181.26 cpy 0.5%» ‹ @ 185.40 QV3 50° 0.6cm › cuts earlier low angle vein « 185.40- 185.41 cpy 0.2%» ‹ @ 185.75 QV3 75° 1.0cm › ‹ @ 185.75 sph 1.0% › « 185.75- 185.76 cpy 0.2%» « 186.20- 186.50 bkn » ‹ @ 187.00 QV3 52° 0.5cm › translucent ‹ @ 187.00 sph 0.2% ›						
180		‹ @ 187.08 QV3 60° 0.8cm › ‹ @ 187.08 sph 0.3% › ‹ @ 187.80 QV3 60° 0.6cm › dismembered, ‹ @ 187.80 sph 0.2% › ‹ @ 189.10 QV3 25° 0.2cm › ‹ @ 189.10 sph 0.2% › ‹ @ 189.60 QV2 23° 2.0cm › vuggy with qz crysts « 189.85- 190.20 FZ 70-40°» gouge, broken massive pyrite veins « py 10.0%», qz rubble, deformed section uphole with abundant dismembered qz veins and skeletal pyrite cubes ‹ @ 190.84 QV3 40° 0.8cm › translucent « 190.84- 190.85 cpy 0.5%» ‹ @ 190.84 sph 1.0% › ‹ @ 191.00 QV3 60° 1.0cm › « 191.00- 191.01 cpy 0.1%» ‹ @ 191.00 sph 0.5% › ‹ @ 192.60 QV3 35° 1.0cm › broken, « 192.60- 192.61 cpy 2.0%» ‹ @ 192.60 QV3 80° 1.8cm › « 192.61- 192.62 cpy 1.0%»						
185	Crystal Tuff	‹ @ 192.70 QV3 70° 0.4cm › translucent, « 192.70- 192.71 cpy 0.5%» ‹ @ 192.70 sph 0.5% › « 193.13- 193.25 bkn » ‹ @ 193.50 QV2 54° 2.0cm › crb, sericite, Py ‹ @ 193.74 QV2 60° 1.5cm › crb, sericite, Py ‹ @ 193.13 QV2 65° 0.8cm › splaying, ser, crb, Py ‹ @ 193.90 QV3 22° 0.6cm › translucent, « 193.90- 194.10 cpy 2.0%»						
190		« 193.00- 196.80 stringers 3% 1.00mm» ‹ @ 194.38 QV2 75° 2.7cm › Py3% « 194.50- 195.20 cpy 0.5%» in rock ‹ @ 194.90 QV3 65° 7.0cm › ‹ @ 194.90 sph 2.0% › « 196.00- 196.20 bkn » broken core « py 5.0%» 3 cm pyrite vein ‹ @ 196.42 QV3 15° 0.9cm › « 196.42- 196.43 cpy 1.5%»						
195		« 197.10- 197.80 FZ 55-15°» gouge, ubble, « py 2.0%» as cubes, ‹ @ 197.10 LC 0.30m › « 197.80- 199.05 cpy 3.0%» ‹ @ 199.00 QV3 40° 0.4cm › translucent, ‹ @ 199.00 sph 1.0% › ‹ @ 199.15 QV3 70° 2.8cm › ‹ @ 199.15 gal 2.0% › « 199.15- 199.17 cpy 2.0%» ‹ @ 199.15 sph 2.0% ›						

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				

200

Medium grey fg to locally med grained crystal tuff, patchy sericitic alteration
is cut by set of chlorite infilled fractues imparting locally jig saw pattern to rock, competent , locally broken, minor chlorite alteration seen as fracture coating, unit is cut by abundant milky white bull qz veins at high angles TCA and these veins are often fractured and carry base metal sulphides,
younger translucent up to 1 cm qz veins are variably oriented and quite often cut older high angled qz-sericite-py veins, › weak chlorite th/out «chl 1.0%»,
pervasive carbonate alteration as 1mm ankerite spots 30%, pyrite occurs as 0.5-1cubes.
Visible gold is encountered @ 178.32m, @180.15m, base metals in 29 veins.

‹ @ 176.25 QV3 70° 4.0cm › ‹ @ 176.25 gal 0.3% › ‹ @ 176.25 sph 0.2% ›
«176.90- 178.20 bkn »
‹ @ 178.32 QV3 85 › ‹ @ 178.32 sph 0.5% › with ‹ @ 178.32 VG ›
« 178.32- 178.33 cpy 1.5%»

205

« 179.00- 185.20 ank 35%» as 1mm pervasive spotting

‹ @ 180.15 QV3 65°0.6cm › ‹ @ 180.15 VG ›
‹ @ 181.00 QV2 20° 3.0cm › with platy ankerite crysts grown perpendicular to margins, vein s cut by two translucent late qz veins one with chalcopyrite
‹ @ 181.12 QV3 50° 0.6cm ›, ‹ @ 181.25 QV3 60° 0.8cm ›
« 181.25- 181.26 cpy 0.5%»
‹ @ 185.40 QV3 50° 0.6cm › cuts earlier low angle vein
« 185.40- 185.41 cpy 0.2%»
‹ @ 185.75 QV3 75° 1.0cm › ‹ @ 185.75 sph 1.0% ›
« 185.75- 185.76 cpy 0.2%»

210

« 186.20- 186.50 bkn » ‹ @ 187.00 QV3 52° 0.5cm › translucent ‹ @ 187.00 sph 0.2% ›
‹ @ 187.08 QV3 60° 0.8cm › ‹ @ 187.08 sph 0.3% ›
‹ @ 187.80 QV3 60° 0.6cm › dismembered, ‹ @ 187.80 sph 0.2% ›
‹ @ 189.10 QV3 25° 0.2cm › ‹ @ 189.10 sph 0.2% ›
‹ @ 189.60 QV2 23° 2.0cm › vuggy with qz crysts

215

« 189.85- 190.20 FZ 70-40°» gouge, broken massive pyrite veins
« py 10.0%», qz rubble, deformed section uphole with abundant dismembered qz veins and skeletal pyrite cubes
‹ @ 190.84 QV3 40° 0.8cm › translucent
« 190.84- 190.85 cpy 0.5%» ‹ @ 190.84 sph 1.0% ›
‹ @ 191.00 QV3 60° 1.0cm ›
« 191.00- 191.01 cpy 0.1%» ‹ @ 191.00 sph 0.5% ›
‹ @ 192.60 QV3 35° 1.0cm › broken,
« 192.60- 192.61 cpy 2.0%» ‹ @ 192.60 QV3 80° 1.8cm ›
« 192.61- 192.62 cpy 1.0%»
‹ @ 192.70 QV3 70° 0.4cm › translucent,
« 192.70- 192.71 cpy 0.5%» ‹ @ 192.70 sph 0.5% ›

Crystal Tuff

« 193.13- 193.25 bkn »
‹ @ 193.50 QV2 54° 2.0cm › crb, sericite, Py
‹ @ 193.74 QV2 60° 1.5cm › crb, sericite, Py
‹ @ 193.13 QV2 65° 0.8cm › splaying, ser, crb, Py
‹ @ 193.90 QV3 22° 0.6cm › translucent, « 193.90- 194.10 cpy 2.0%»

220

« 193.00- 196.80 stringers 3% 1.00mm»
‹ @ 194.38 QV2 75° 2.7cm › Py3%

« 194.50- 195.20 cpy 0.5%» in rock
‹ @ 194.90 QV3 65° 7.0cm › ‹ @ 194.90 sph 2.0% ›

225

« 196.00- 196.20 bkn » broken core « py 5.0%» 3 cm pyrite vein
‹ @ 196.42 QV3 15° 0.9cm ›
« 196.42- 196.43 cpy 1.5%»

« 197.10- 197.80 FZ 55-15°» gouge, ubble, « py 2.0%» as cubes,
‹ @ 197.10 LC 0.30m ›

« 197.80- 199.05 cpy 3.0%»
‹ @ 199.00 QV3 40° 0.4cm › translucent, ‹ @ 199.00 sph 1.0% ›

‹ @ 199.15 QV3 70° 2.8cm › ‹ @ 199.15 gal 2.0% ›
« 199.15- 199.17 cpy 2.0%» ‹ @ 199.15 sph 2.0% ›

230

« 200.30- 206.10 ank 35%» 2-3mm spots, « ser 45%» pale creamy

‹ @ 200.70 QV3 68° 7.2cm › ‹ @ 200.70 sph 0.5% ›
‹ @ 201.70 QV3 65° 1.7cm › ‹ @ 201.70 sph 1.0% ›
‹ @ 202.70 QV3 68° 2.5cm ›
‹ @ 203.45 QV3 75° 10.5cm › ‹ @ 203.45 sph 0.5% ›
« 203.45- 203.46 cpy 0.5%»
‹ @ 204.20 QV2 60° › wallrock frgms, sericite, pyrite
‹ @ 204.90 QV3 50° 16.0cm › ‹ @ 204.90 gal 0.5% › ‹ @ 204.90 sph 0.5% ›
with pyritic halo around vein (5-8mm)

235

‹ @ 205.18 QV2 90° › Py 5%
Note: 206.10-215 medium grey fg lithic tuff
‹ @ 208.11 QV3 65° 0.2cm › translucent, ‹ @ 208.11 sph 0.2% ›
‹ @ 208.20 QV3 55° 30.0cm › ‹ @ 208.20 gal 0.3% ›
‹ @ 209.30 QV2 60° 3.0cm › re-opened

‹ @ 209.60 S0 30° › ‹ @ 209.90 QV3 50° 0.8cm ›
‹ @ 210.20 QV3 75° 0.7cm › « 210.20- 210.21 cpy 1.0%»

240

« 211.00- 212.00 stringers 3% 2.00mm»
‹ @ 211.70 QV3 50° 5.0cm › ‹ @ 213.40 QV3 70° 8.3cm ›
‹ @ 213.80 QV3 60° 1.0cm ›

« 215.30- 216.20 qz veins with ser, carb, Py » some are broken or dismembered, pervasive sericitic alteration of lithic tuff « ser 35.00%»

Altered Crystal Tuff

Pale creamy crystal tuff, bleached coloration due to str sericitic and carbonate alteration, fracture controlled chlorite « chl 1.0%», « fuchsite 1.0%». Visible gold is found @270.10m. Upper contact is faulted.

Note: 239-240.40 blocky core locally broken
‹ @ 240.40 S0 55° ›, ‹ @ 240.70 S0 30° ›
Note: 243.1-250.5 med grey fg unaltered tuffaceous unit with jig saw pattern toward the lower contact, broken th/out, cut by ‹ @ 247.45 QV3 60° 20.0cm ›

245

« 243.10- 250.50 ank 30%» as 1-2 mm rhombs, « py 1.0%» cubes
‹ @ 252.00 QV3 67° 2.4cm ›
« 253.12- 253.55 bkn » broken qz vein with « cpy 2.0%»
« 256.30- 270.30 ser 60% » « ank 20%» 3-5 mm spots
‹ @ 258.00 S0 30° ›
‹ @ 256.30 QV3 58° 1.0cm ›
Note: 258.75-259.80 cut by 3 bull qz veins @30 deg TCA, w/out sulphides

Scale 1:200	Start Depth :198.38	End Depth :247.98	Page No.: 5

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250	Altered Crystal Tuff	Pale creamy crystal tuff, bleached coloration due to str sericitic and carbonate alteration, fracture controlled chlorite « chl 1.0%», « fuchsite 1.0%». Visible gold is found @270.10m. Upper contact is faulted. Note: 239-240.40 blocky core locally broken ‹ @ 240.40 S0 55° ›, ‹ @ 240.70 S0 30° › Note: 243.1-250.5 med grey fg unaltered tuffaceous unit with jig saw pattern toward the lower contact, broken th/out, cut by ‹ @ 247.45 QV3 60° 20.0cm › « 243.10- 250.50 ank 30%» as 1-2 mm rhombs, « py 1.0%» cubes ‹ @ 252.00 QV3 67° 2.4cm › « 253.12- 253.55 bkn » broken qz vein with « cpy 2.0%» « 256.30- 270.30 ser 60% » « ank 20%» 3-5 mm spots ‹ @ 258.00 S0 30° › ‹ @ 256.30 QV3 58° 1.0cm › Note: 258.75-259.80 cut by 3 bull qz veins @30 deg TCA, w/out sulphides « 256.30- 256.31 cpy 1.0%» ‹ @ 261.31 S0 40° › ‹ @ 270.10 QV3 0° 1.0cm › broken, ‹ @ 270.10 gal 1.5% › « 270.10- 270.11 cpy 1.5%» ‹ @ 270.10 VG ›					
255							
260							
265							
270	Crystal Lithic Tuff	Med grey patchy pale creamy fg-mg crystal lithic tuff with sections of tuff having jig saw texture, bedding @30-50 degree TCA, competent unit , locally faulted, lithic fragments become larger from 294m toward the end of unit, light greenish tint occurs in places due to development of wk-mod chlorite alteration, carbonate developes as rounded 1-3 mm diffuse p/blasts often with chlorite rims ‹ @ 272.10 QV3 75° 1.0cm › dismembered ‹ @ 272.30 QV3 70° 1.0cm › ‹ @ 274.80 S0 23° › « 274.90- 275.10 FZ 80-35°» gouge, broken Py vein ‹ @ 275.20 S0 55° › « 275.00- 277.50 stringers 3% 1.00mm» ‹ @ 277.48 QV3 45° 1.5cm ›, ‹ @ 277.95 QV2 30° 0.1cm› Note:277.95-282.78 pale creamy with light greenish hue due to « chl 2%» occured as fracture coating and rims around ankerite p/blasts, « py 0.5%» 1-3 mm cubes « 279.10- 282.78 ank 25%»1-3mm diffuse spots « 277.95- 282.78 ser 30% » ‹ @ 281.50 QV3 50° 1.0cm › ‹ @ 283.76 S0 25° › ‹ @ 284.23 QV2 40° 2.4cm › ‹ @ 285.00 S0 50° › ‹ @ 288.40 S0 60° › ‹ @ 288.60 S0 30° › ‹ @ 290.64 QV2 70° 0.1cm › marks alteration front Note: tuff @290.64-306.30 is bleached due to sericitization « ser 30% » , ankerite overprint and «chl 2.0%»chlorite, lack of pyrite « 293.48- 293.51 FZ 85-90°» gouge ‹ @ 294.30 S0 50° › lithic fragments become larger downhole ‹ @ 304.80 S0 25° › ‹ @ 307.30 S0 60° › ‹ @ 308.05 S0 45° › ‹ @ 308.23 QV3 30° 1.0cm › dismembered, ‹ @ 308.23 gal 1.0% › ‹ @ 308.40 QV3 60° 2.7cm › ‹ @ 309.15 QV3 70° 0.8cm › ‹ @ 309.54 QV2 60° 16.0cm › re-opened qz vein, wallrock frgms, « 309.54- 309.57 cpy 0.3%» ‹ @ 311.67 S0 35° ›, ‹ @ 312.00 S0 30° ›	VA10145383	I095496	271.21	273	0.11
			VA10145383	I095497	273	274.5	0.1
275			VA10145383	I095499	274.5	276	0.46
			VA10145383	I095500	276	277.5	0.17
			VA10145383	I095607	277.5	279	0.025
280			VA10145383	I095608	279	280.5	0.025
			VA10145383	I095609	280.5	282	0.025
			VA10145383	I095610	282	283.5	0.025
			VA10145383	I095612	283.5	285	0.025
285			VA10145383	I095613	285	286.5	0.025
			VA10145383	I095614	286.5	288	0.025
			VA10145383	I095616	288	289.5	0.05
290			VA10145383	I095617	289.5	291	0.025
			VA10145383	I095618	291	292.5	0.025
			VA10145383	I095619	292.5	294	0.025
295			VA10145383	I095620	294	295.5	0.025
			VA10145383	I095621	295.5	297	0.025
			VA10145383	I095622	297	298.5	0.025

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
300	Crystal Lithic Tuff	Med grey patchy pale creamy fg-mg crystal lithic tuff with sections of tuff having jig saw texture, bedding @30-50 degree TCA, competent unit , locally faulted, lithic fragments become larger from 294m toward the end of unit, light greenish tint occurs in places due to development of wk-mod chlorite alteration, carbonate developes as rounded 1-3 mm diffuse p/blasts often with chlorite rims ‹ @ 272.10 QV3 75° 1.0cm › dismembered ‹ @ 272.30 QV3 70° 1.0cm › ‹ @ 274.80 S0 23° › « 274.90- 275.10 FZ 80-35°» gouge, broken Py vein ‹ @ 275.20 S0 55° › « 275.00- 277.50 stringers 3% 1.00mm» ‹ @ 277.48 QV3 45° 1.5cm ›, ‹ @ 277.95 QV2 30° 0.1cm› Note:277.95-282.78 pale creamy with light greenish hue due to « chl 2%» occured as fracture coating and rims around ankerite p/blasts, « py 0.5%» 1-3 mm cubes « 279.10- 282.78 ank 25%»1-3mm diffuse spots « 277.95- 282.78 ser 30% » ‹ @ 281.50 QV3 50° 1.0cm › ‹ @ 283.76 S0 25° › ‹ @ 284.23 QV2 40° 2.4cm › ‹ @ 285.00 S0 50° › ‹ @ 288.40 S0 60° › ‹ @ 288.60 S0 30° › ‹ @ 290.64 QV2 70° 0.1cm › marks alteration front Note: tuff @290.64-306.30 is bleached due to sericitization « ser 30% » , ankerite overprint and «chl 2.0%»chlorite, lack of pyrite « 293.48- 293.51 FZ 85-90°» gouge ‹ @ 294.30 S0 50° › lithic fragments become larger downhole ‹ @ 304.80 S0 25° › ‹ @ 307.30 S0 60° › ‹ @ 308.05 S0 45° › ‹ @ 308.23 QV3 30° 1.0cm › dismembered, ‹ @ 308.23 gal 1.0% › ‹ @ 308.40 QV3 60° 2.7cm › ‹ @ 309.15 QV3 70° 0.8cm › ‹ @ 309.54 QV2 60° 16.0cm › re-opened qz vein, wallrock frgms, « 309.54- 309.57 cpy 0.3%» ‹ @ 311.67 S0 35° ›, ‹ @ 312.00 S0 30° ›	VA10145383	I095622	297	298.5	0.025
			VA10145383	I095624	298.5	300	0.025
			VA10145383	I095625	300	301.5	0.025
			VA10145383	I095626	301.5	303	0.025
			VA10145383	I095627	303	304.5	0.025
305			VA10145383	I095628	304.5	306	0.025
			VA10145383	I095630	306	307.5	0.34
			VA10145383	I095631	307.5	309	0.025
310			VA10145383	I095632	309	310.5	0.08
			VA10145383	I095633	310.5	312	0.025
	Pebble Conglomerate	Polymict pebble conglomerate, clasts supported, with a strong A-axis type imbrication of 0.4-3cm clasts @ 45 deg TCA, fines downhole, cut by bull qz veins one of which with sphalerite, traces cr-mica, 0.5-1cm ankerite p/blasts overprint « ank 5%», overall « py 1.0%» as 0.1-0.8 cm cubes ‹ @ 313.84 QV3 50° 1.0cm › ‹ @ 314.33 S0 45° › ‹ @ 316.48 QV3 10° 0.7cm ›, ‹ @ 317.90 QV3 20° 0.8cm › ‹ @ 317.90 sph 1.0% › ‹ @ 318.13 S0 55° ›, ‹ @ 318.64 QV3 60° 1.7cm ›	VA10145383	I095634	312	313.5	0.025
			VA10145383	I095636	313.5	315	0.07
315			VA10145383	I095637	315	316.5	0.025
			VA10145383	I095638	316.5	318	0.025
			VA10145383	I095639	318	319.5	0.025
320		Black to dark grey variably graphitic massive argillite with fine-grained siltstone beds dominant toward the end of the hole @40 TCA, fairly competent, locally exhibits deformed bedding or cataclastized texture, carbonate occurs as sparce 5-7 mm rhombic to rounded p/blasts up to 3%, sections of randomly oriented slender muscovite flakes overprinting argillaceous siltstone, weakly calcareous, abundant var oriented discontinuous qz-carb veinlets, pyrite cubes total to 1% th/out some with qz pressure shadows. No base metals found. « 319.25- 377.75 py 1.0%» as cubes th/out some with qz pressure shadows and aggregates of cubic pyrite in argilliceous sections « 321.35- 322.50 Siltstone 40-45°» « 321.35- 322.50 ank 3%» « 323.28- 323.56 Siltstone 65-65°» « ank 3%» as 5 mm p/blasts « 326.20- 326.60 Siltstone 20°» « 326.60- 327.00 bkn » Note: 328-329.40 exhibits cataclastized texture ‹ @ 333.48 S0 40° › ‹ @ 336.90 S0 45° › ‹ @ 337.20 S0 35° › ‹ @ 337.65 S0 40° ›	VA10145383	I095641	319.5	321	0.025
			VA10145383	I095642	321	322.5	0.025
			VA10145383	I095643	322.5	324	0.025
			VA10145383	I095644	324	325.5	0.025
			VA10145383	I095645	325.5	327	0.025
325			VA10145383	I095646	327	328.5	0.42
			VA10145383	I095647	328.5	330	0.025
330			VA10145383	I095648	330	331.5	0.06
			VA10145383	I095649	331.5	333	0.025
	Cat.2 Argillite / Siltstone		VA10145383	I095651	333	334.5	0.025
335			VA10145383	I095652	334.5	336	0.07
			VA10145383	I095653	336	337.75	0.025
340							
345							

Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-903	North :5828184	East :604231	Elevation :1069.8	Hole Length :377.75	Azimuth :90	Dip :-65	Logged by :AA	Size :HQ	15 July 2011

Depth At	Geology			Geochemistry					
	Rocktype		Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
350			Black to dark grey variably graphitic massive argillite with fine-grained siltstone beds dominant toward the end of the hole @40 TCA, fairly competent, locally exhibits deformed bedding or cataclastized texture, carbonate occurs as sparce 5-7 mm rhombic to rounded p/blasts up to 3%, sections of randomly oriented slender muscovite flakes overprinting argillaceous siltstone, weakly calcareous, abundant var oriented discontinuous qz-carb veinlets, pyrite cubes total to 1% th/out some with qz pressure shadows. No base metals found.						
			« 319.25- 377.75 py 1.0%» as cubes th/out some with qz pressure shadows and aggregates of cubic pyrite in argilliceous sections						
			« 321.35- 322.50 Siltstone 40-45°» « 321.35- 322.50 ank 3%» « 323.28- 323.56 Siltstone 65-65°» « ank 3%» as 5 mm p/blasts						
			« 326.20- 326.60 Siltstone 20°» « 326.60- 327.00 bkn »						
355			Note: 328-329.40 exhibits cataclastized texture ‹ @ 333.48 S0 40° › ‹ @ 336.90 S0 45° › ‹ @ 337.20 S0 35° › ‹ @ 337.65 S0 40° ›						
360		Cat.2 Argillite / Siltstone							
365									
370									
375		EOH	Hole reached the target depth.						
380									
385									
390									
395									

Scale 1:200	Start Depth :347.17	End Depth :396.77	Page No.: 8

10-DDH-904	North :5828563	East :604249	Elevation :954.2	Hole Length :224.64	Azimuth :90	Dip :-70	Logged by :AA	Size :HQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
	Casing	No core recovered.						
5	Cat.2 Argillite	Argillite with med to dark grey boudinaged siltstone and volcanic clasts, trace chrome mica in volcanic clasts suggests mafic protholith broken apart and warped into graphitic folia, cataclastized texture and sections of folded bedding/foliation indicate to more than one stage of deformation, moderately competent unit, does not react to HCL, silicified « sil ». Quartz veins are 0.5-5 cm wide and some are irregular in shape, crosscut foliation, abundant 2-3 mm dismembered qz veinlets. Fine-grained anhedral pyrite as blebs, lenses parallel to foliation, as cubes within the boudins, clasts and veins. Total pyrite content is « py 3.0%». No base metals encountered. « 5.18- 7.00 bkn » weakly broken, ‹ @ 5.18 LC 1.05m › « 13.15- 14.00 bkn » ‹ 13.15 LC 0.30m › ‹ @ 9.05 QV2 25° 1.5cm › anastomosing qz vein, wallrock frgms,Py ‹ @ 9.70 QV3 50° 0.6cm › cuts foliation, deformed, wallrock frgms ‹ @ 9.90 QV3 90° 1.0cm › crosscut foliation planes ‹ @ 24.10 S0 50° › ‹ @ 24.27 fol 50° › parallel to bedding, ‹ @ 24.90 fol 50° › ‹ @ 25.20 QV3 85° 0.5cm › crosscut foliation ‹ @ 25.20 fol 30° › ‹ @ 27.30 QV3 90° 5.0cm › re-opened vein, wallrock frgms, coarse grained Py, cuts foliation with fg Py lenses « 28.05- 28.35 sil » ‹ @ 28.35 LCT 25° ›						
10								
15								
20								
25								
30	Tuff	Pale creamy tuff with sections of possible intermediate volcanic rock, locally porphyritic and jig saw texture can be discerned, chlorite suggest more mafic primary rock composition, strong and texturally destructive carbonate-sericite alteration, weak « cr-mica 1.0%» appears to be restricted to mafic fragments, intense ankerite leaching around fault zones « 28.35- 30.25 chl 5%» ‹ @ 28.35 QV3 0° 20.0cm › broken, « 28.35- 28.55 cpy 3.0%» ‹ @ 28.35 sph 1.5% › ‹ @ 31.90 QV3 42° 1.5cm › ‹ @ 33.65 QV3 25° 4.0cm › ‹ @ 33.75 QV3 50° 0.8cm › ‹ @ 35.15 QV3 85° 1.0cm › ‹ @ 35.15 sph 1.0% › ‹ @ 35.20 QV2 55° 10.0cm › re-opened ‹ @ 36.45 QV3 40° 5.0cm › carb, « 36.45- 36.50 cpy 1.0%» ‹ @ 37.90 QV3 25° 0.4cm › « 37.90- 37.94 cpy 0.3%» ‹ @ 38.50 QV3 23° 1.7cm › vuggy « 39.32- 40.50 bkn » « 40.50- 42.00 Intermediate Volcanic » less sericite altered porphyritic volcanic rock with chlorite up to « chl 5.0%» « 42.00- 42.50 bkn » « 43.10- 45.10 bkn » « 43.00- 46.15 chl 5.0%» « ank 20%» vugs left after ankerite p/blasts « 45.50- 47.60 FZ 25-45°» rubble, gouge Note: 46.70-48 strongly deformed tuff , 48-55.20 jig saw texture, «cr-mica 3.0%», qz flooding, mod broken « 55.20- 67.50 Volcanic » light pale greenish grey, possibly intermediate « 62.00- 67.00 qz veins 30-80° 1-10cm» with Py, vuggy, wallrock frgms « 65.00- 67.90 ank 25%» 5-8 mm diffuse p/blasts « 65.00- 66.30 py 5.0%» « 67.90- 68.35 Siltstone 60.0-60.0°» ‹ @ 68.65 QV3 30° 1.5cm › ‹ @ 68.90 QV3 40° 0.4cm › translucent « 69.00- 74.30 ank 15%» diffuse 0.8-1.2 mm spots ‹ @ 75.90 QV3 50° 1.0cm › broken, ‹ @ 77.13 QV3 90° 82.0cm › Note: 78-80.00 tuff with jig saw texture ‹ @ 80.00 LCT 20° ›	VA10145384	I095382	31.03	32.5	0.14	
35			VA10145384	I095383	32.5	34	0.14	
40			VA10145384	I095385	34	35.5	0.025	
45			VA10145384	I095386	35.5	37	0.1	
			VA10145384	I095387	37	38.5	0.025	
			VA10145384	I095388	38.5	40	0.12	
			VA10145384	I095390	40	41.5	0.025	
			VA10145384	I095391	41.5	43	0.025	
			VA10145384	I095392	43	44.5	0.025	
			VA10145384	I095393	44.5	46	0.025	
			VA10145384	I095394	46	47.5	0.06	
			VA10145384	I095395	47.5	49	0.27	
			VA10145384	I095396	49	50.5	0.025	

10-DDH-904	North :5828563	East :604249	Elevation :954.2	Hole Length :224.64	Azimuth :90	Dip :-70	Logged by :AA	Size :HQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Tuff	Pale creamy tuff with sections of possible intermediate volcanic rock, locally porphyritic and jig saw texture can be discerned, chlorite suggest more mafic primary rock composition, strong and texturally destructive carbonate-sericite alteration, weak « cr-mica 1.0%» appears to be restricted to mafic fragments, intense ankerite leaching around fault zones « 28.35- 30.25 chl 5%» ‹ @ 28.35 QV3 0° 20.0cm › broken, « 28.35- 28.55 cpy 3.0%» ‹ @ 28.35 sph 1.5% › ‹ @ 31.90 QV3 42° 1.5cm › ‹ @ 33.65 QV3 25° 4.0cm › ‹ @ 33.75 QV3 50° 0.8cm › ‹ @ 35.15 QV3 85° 1.0cm › ‹ @ 35.15 sph 1.0% › ‹ @ 35.20 QV2 55° 10.0cm › re-opened ‹ @ 36.45 QV3 40° 5.0cm › carb, « 36.45- 36.50 cpy 1.0%» ‹ @ 37.90 QV3 25° 0.4cm › « 37.90- 37.94 cpy 0.3%» ‹ @ 38.50 QV3 23° 1.7cm › vuggy « 39.32- 40.50 bkn » « 40.50- 42.00 Intermediate Volcanic » less sericite altered porphyritic volcanic rock with chlorite up to « chl 5.0%» « 42.00- 42.50 bkn » « 43.10- 45.10 bkn » « 43.00- 46.15 chl 5.0%» « ank 20%» vugs left after ankerite p/blasts « 45.50- 47.60 FZ 25-45°» rubble, gouge Note: 46.70-48 strongly deformed tuff , 48-55.20 jig saw texture, «cr-mica 3.0%», qz flooding, mod broken « 55.20- 67.50 Volcanic » light pale greenish grey, possibly intermediate « 62.00- 67.00 qz veins 30-80° 1-10cm» with Py, vuggy, wallrock frgms « 65.00- 67.90 ank 25%» 5-8 mm diffuse p/blasts « 65.00- 66.30 py 5.0%» « 67.90- 68.35 Siltstone 60.0-60.0°» ‹ @ 68.65 QV3 30° 1.5cm › ‹ @ 68.90 QV3 40° 0.4cm › translucent « 69.00- 74.30 ank 15%» diffuse 0.8-1.2 mm spots ‹ @ 75.90 QV3 50° 1.0cm › broken, ‹ @ 77.13 QV3 90° 82.0cm › Note: 78-80.00 tuff with jig saw texture ‹ @ 80.00 LCT 20° ›	VA10145384	I095396	49	50.5	0.025
			VA10145384	I095398	50.5	52	0.025
			VA10145384	I095399	52	53.5	0.07
			VA10145384	I095400	53.5	55	0.12
			VA10145384	I095401	55	56.5	0.025
			VA10145384	I095402	56.5	58	0.025
			VA10145384	I095403	58	59.5	0.025
			VA10145384	I095405	59.5	61	0.14
			VA10145384	I095406	61	62.5	0.17
			VA10145384	I095407	62.5	64	0.2
			VA10145384	I095409	64	66	1.65
			VA10145384	I095410	66	67.5	1.19
			VA10145384	I095411	67.5	69	0.25
			VA10145384	I095412	69	70.5	0.025
			VA10145384	I095413	70.5	72	0.025
			VA10145384	I095414	72	73.5	0.025
			VA10145384	I095415	73.5	75	0.025
			VA10145384	I095417	75	76.5	0.025
			VA10145384	I095418	76.5	78.05	0.025
	Cat.2 Argillite	Black argillite with minor fg tuffaceous beds, deformed, locally faulted Visible gold is found @95.20m. « 80.00- 97.85 py 3.0%» « 80.25- 80.55 qz veining 20°» « 80.25- 84.90 FZ 30-60°» graphitic gouge, ‹ @ 81.00 LC 0.60m › , ‹ @ 83.30 LC 0.20m › ‹ @ 89.50 S0 55° › fg tuffaceous bed downhole, ‹ @ 89.83 S0 40° › ‹ @ 91.80 QV3 90° 58.0cm › Py, ‹ @ 91.80 gal 1.5% › « 93.60- 97.85 FZ 30-50°» gouge, broken core, 3 broken qz veins ‹ @ 95.20 QV3 30° 20.0cm › ‹ @ 95.20 gal 3.0% › ‹ @ 95.20 sph 3.0% › ‹ @ 95.20 VG › ‹ @ 96.40 QV3 50° 7.0cm › ‹ @ 96.40 sph 1.0% ›					
	Siltstone	Med grey fg siltstone, alteration assemblage includes 0.5cm ankerite p/blasts « ank 10%», « py 1.5%» th/out as fracture and qz vein infill, abundant discontinuous qz veinlets ‹ @ 100.90 QV3 40° 4.5cm ›, ‹ @ 101.90 QV3 65° 6.5cm › ‹ @ 102.90 QV3 40° 3.0cm › ‹ @ 104.01 QV3 90° 0.5cm › ‹ @ 107.67 QV3 45° 1.0cm › folded, « 107.67- 107.68 cpy 1.0%»					

Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-904	North :5828563	East :604249	Elevation :954.2	Hole Length :224.64	Azimuth :90	Dip :-70	Logged by :AA	Size :HQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
100	Siltstone	Med grey fg siltstone, alteration assemblage includes 0.5cm ankerite p/blasts « ank 10%», « py 1.5%» th/out as fracture and qz vein infill, abundant discontinuous qz veinlets ‹ @ 100.90 QV3 40° 4.5cm ›, ‹ @ 101.90 QV3 65° 6.5cm › ‹ @ 102.90 QV3 40° 3.0cm › ‹ @ 104.01 QV3 90° 0.5cm › ‹ @ 107.67 QV3 45° 1.0cm › folded, « 107.67- 107.68 cpy 1.0%»	VA10145384	I095419	99.93	101.5	0.025	
			VA10145384	I095420	101.5	103	0.025	
105			VA10145384	I095422	103	104.5	0.025	
			VA10145384	I095423	104.5	105.5	0.025	
			VA10145384	I095424	105.5	106.68	0.025	
110	Cat.2 Argillite	Dark grey to black argillite, variably deformed, with sections exhibiting cataclastic texture, contorted bedding/foliation, minor siltstone beds and clasts, cut by bull qz veins 0.3-40cm thick, 1-4mm qz veinlets are transposed, dismembered, crenulated, cut foliation. Fg pyrite lenses@veinlets parallel to foliation, cg Py cubes and aggregates th/out totalling « 108.40- 160.50 py 5.0%» ‹ @ 116.68 QV2 80° 3.3cm ›re-opened, with wallrock frgms,Py « 119.55- 119.70 FZ 80-60°» gouge ‹ @ 129.02 QV3 0° 35.0cm › broken, wallrock frgms ‹ @ 131.80 QV3 75° 5.0cm › , ‹ @ 136.03 QV3 25° 10.0cm › broken « 136.03- 136.70 bkn » weakly healed gouge with fg disseminated py, quartz rubble, ‹ @ 136.25 LC 0.25m › ‹ @ 142.30 fol 50° ›, ‹ @ 148.00 fol 50° › ‹ @ 150.50 QV1 60° 3.0cm› « 152.50- 152.74 FZ 65°» gouge ‹ @ 157.50 fol 45° ›, « 157.40- 159.00 bkn » ‹ @ 159.15 QV2 65° 0.8cm › ‹ @ 159.15 sph 1.0% › ‹ @ 159.50 S0 60° ›						
115								
120								
125								
130								
135								
140								
145								

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-904	North :5828563	East :604249	Elevation :954.2	Hole Length :224.64	Azimuth :90	Dip :-70	Logged by :AA	Size :HQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150	Cat.2 Argillite	Dark grey to black argillite, variably deformed, with sections exhibiting cataclastic texture, contorted bedding/foliation, minor siltstone beds and clasts, cut by bull qz veins 0.3-40cm thick, 1-4mm qz veinlets are transposed, dismembered, crenulated, cut foliation. Fg pyrite lenses@veinlets parallel to foliation, cg Py cubes and aggregates th/out totalling « 108.40- 160.50 py 5.0%» ‹ @ 116.68 QV2 80° 3.3cm ›re-opened, with wallrock frgms,Py « 119.55- 119.70 FZ 80-60°» gouge ‹ @ 129.02 QV3 0° 35.0cm › broken, wallrock frgms ‹ @ 131.80 QV3 75° 5.0cm › , ‹ @ 136.03 QV3 25° 10.0cm › broken « 136.03- 136.70 bkn » weakly healed gouge with fg disseminated py, quartz rubble, ‹ @ 136.25 LC 0.25m › ‹ @ 142.30 fol 50° ›, ‹ @ 148.00 fol 50° › ‹ @ 150.50 QV1 60° 3.0cm› « 152.50- 152.74 FZ 65°» gouge ‹ @ 157.50 fol 45° ›, « 157.40- 159.00 bkn » ‹ @ 159.15 QV2 65° 0.8cm › ‹ @ 159.15 sph 1.0% › ‹ @ 159.50 S0 60° ›					
155							
160	Crystal Tuff	Light to medium grey crystal tuff having locally jig saw texture, pervasive ankerite alteration, cut by three bull quartz veins 3-45 cm thick and anumber of anastomosing translucent qz veins which are often transposed or restricted, generally competent, but str broken toward the low contact. Visible gold is encountered @ 167.6m « 160.50- 168.38 py 0.7%» as 3-7mmcubes Note: 160.50-163.60 jig saw texture « 163.60- 167.90 ank 20%» as ankerite dusting (1-2mm spots) ‹ @ 164.85 QV3 70° 1.0cm › translucent, restricted, « cpy 1.5%» ‹ @ 164.30 QV3 50° 25.0cm › wallrock frgms, carbonates « 165.00- 167.00 bkn » ‹ @ 167.60 QV3 15° 2.0cm › ‹ @ 167.60 VG › ‹ @ 167.90 QV3 90° 45.0cm › carb, Py	VA10145384	I095425	161.04	162.5	0.11
165			VA10145384	I095426	162.5	164	0.9
			VA10145384	I095427	164	165.5	0.17
			VA10145384	I095429	165.5	167	0.45
			VA10145384	I095430	167	167.75	0.66
170	Fault	Fault zone consists of graphitic and clayey gougey and rubbly sections, few intervals of lost core, broken pale creamy volcanic rock with str sericite/carbonate overprint, broken to rubble qz veins, competent sections of tuff less 15cm, « py 1.0%» ‹ @ 177.00 LC 0.75m ›, ‹ @ 179.00 LC 0.80m ›, ‹ @ 183.00 LC 1.40m › ‹ @ 188.06 LC 0.45m ›, ‹ @ 190.00 LC 0.80m › ‹ @ 190.90 QV3 45° 10.0cm ›uggy,carb,wallrock incls ‹ @ 191.11 QV3 0° 6.0cm › broken, Py, ‹ @ 191.11 sph 2.0% ›	VA10145384	I095432	167.75	169	0.4
			VA10145384	I095433	169	171	0.4
			VA10145384	I095434	171	172.5	0.08
			VA10145384	I095435	172.5	174	0.025
175			VA10145384	I095437	174	175.5	0.23
			VA10145384	I095438	175.5	177	0.16
			VA10145384	I095439	177	179	0.33
180			VA10145384	I095440	179	181	0.08
			VA10145384	I095441	181	182.5	0.08
		Light grey fg crystal lithic tuff, lithic fragments and qz crysts do not exceed 0.7cm in size, locally broken, minor lack argillite section at the end of the hole, overall pyrite « py 2.0%» as 0.1-1.0 cm euh crysts, abundant continuous variably oriented translucent 3-5 mm qz veins with Py. Alteration consists of diffuse rounded 5-8mm ankerite p/blasts. Visible gold is found @208.30 in 0.7 cm qz vein. Few occurences of base metals encountered as well.	VA10145384	I095443	182.5	185	0.4
185		‹ @ 194.15 QV3 75° 3.0cm › ‹ @ 197.80 QV3 0° 3.0cm › broken, ‹ @ 197.80 gal 2.0% › ‹ @ 197.90 QV3 85° 1.0cm › ajacent to the other two veins, ‹ @ 197.90 sph 1.0% › ‹ @ 198.35 QV3 50° 3.5cm ›, ‹ @ 200.50 QV3 90° 0.8cm › ‹ @ 201.70 QV3 75° 5.0cm › « 201.80- 202.00 bkn » gouge, rubble, 3 cm broken qz vein ‹ @ 202.23 QV3 0° 15.0cm › broken, wallrock incls	VA10145384	I095444	185	186.5	0.17
			VA10145384	I095445	186.5	188	0.05
			VA10145384	I095446	188	189.5	0.79
190		« 203.80- 203.90 cpy 0.5%» in broken 5 cm bull qz vein ‹ @ 205.20 QV3 45° 13.0cm ›, ‹ @ 206.15 QV3 45° 7.0cm › ‹ @ 208.15 QV3 90° 1.0cm › « 208.15- 208.16 cpy 1.0%» ‹ @ 208.30 QV3 90° 0.7cm › ‹ @ 208.30 VG › ‹ @ 209.08 sph 0.5% › in 5mm qz vein, ‹ @ 209.13 QV3 25° 0.7cm › ‹ @ 211.36 QV3 80° 5.0cm › Py, ‹ @ 213.15 QV3 50° 3.1cm › « 213.60- 214.30 Argillite 0°» massive ‹ @ 213.60 QV3 65° 0.2cm › ‹ @ 213.60 sph 1.0% › ‹ @ 214.30 S0 22° ›	VA10145384	I095447	189.5	193.5	0.95
		‹ @ 215.33 QV3 80° 4.0cm › ‹ @ 215.60 QV3 15° 2.0cm › ‹ @ 215.60 sph 0.3% › ‹ @ 218.33 QV3 80° 5.7cm › ‹ @ 218.33 sph 1.0% › ‹ @ 218.33 gal 1.0% ›	VA10145384	I095448	193.5	195	0.99
195	Crystal Lithic Tuff	« 218.50- 223.00 ank 15%» as diffuse rounded 5-9 mm p/lasts ‹ @ 219.00 QV3 90° 2.5cm › ‹ @ 219.33 QV3 60° 10.0cm › ‹ @ 219.33 sph 1.5% › ‹ @ 221.60 QV3 70° 3.0cm › ‹ @ 222.20 QV3 85° 0.6cm › ‹ @ 222.20 sph 0.2% › ‹ @ 222.56 QV3 75° 2.0cm › ‹ @ 222.56 sph 0.2% › ‹ @ 222.67 QV3 57° 2.5cm › vuggy	VA10145384	I095449	195	196.5	0.18
			VA10145384	I095451	196.5	198	0.025
			VA10145384	I095452	198	199.5	0.11

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-904	North :5828563	East :604249	Elevation :954.2	Hole Length :224.64	Azimuth :90	Dip :-70	Logged by :AA	Size :HQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Crystal Lithic Tuff	Light grey fg crystal lithic tuff, lithic fragments and qz crysts do not exceed 0.7cm in size, locally broken, minor lack argillite section at the end of the hole, overall pyrite « py 2.0%» as 0.1-1.0 cm euh crysts, abundant continuous variably oriented translucent 3-5 mm qz veins with Py. Alteration consists of diffuse rounded 5-8mm ankerite p/blasts. Visible gold is found @208.30 in 0.7 cm qz vein. Few occurences of base metals encountered as well.	VA10145384	I095452	198	199.5	0.11
		‹ @ 194.15 QV3 75° 3.0cm ›	VA10145384	I095453	199.5	201	0.17
		‹ @ 197.80 QV3 0° 3.0cm › broken, ‹ @ 197.80 gal 2.0% › ‹ @ 197.90 QV3 85° 1.0cm › ajacent to the other two veins, ‹ @ 197.90 sph 1.0% › ‹ @ 198.35 QV3 50° 3.5cm ›, ‹ @ 200.50 QV3 90° 0.8cm › ‹ @ 201.70 QV3 75° 5.0cm › « 201.80- 202.00 bkn » gouge, rubble, 3 cm broken qz vein ‹ @ 202.23 QV3 0° 15.0cm › broken, wallrock incls	VA10145384	I095454	201	202.5	0.79
		« 203.80- 203.90 cpy 0.5%» in broken 5 cm bull qz vein ‹ @ 205.20 QV3 45° 13.0cm ›, ‹ @ 206.15 QV3 45° 7.0cm › ‹ @ 208.15 QV3 90° 1.0cm › « 208.15- 208.16 cpy 1.0%» ‹ @ 208.30 QV3 90° 0.7cm › ‹ @ 208.30 VG › ‹ @ 209.08 sph 0.5% › in 5mm qz vein, ‹ @ 209.13 QV3 25° 0.7cm › ‹ @ 211.36 QV3 80° 5.0cm › Py, ‹ @ 213.15 QV3 50° 3.1cm ›	VA10145384	I095455	202.5	204	0.38
		« 213.60- 214.30 Argillite 0°» massive ‹ @ 213.60 QV3 65° 0.2cm › ‹ @ 213.60 sph 1.0% › ‹ @ 214.30 S0 22° ›	VA10145384	I095457	204	205.5	0.22
		‹ @ 215.33 QV3 80° 4.0cm › ‹ @ 215.60 QV3 15° 2.0cm › ‹ @ 215.60 sph 0.3% › ‹ @ 218.33 QV3 80° 5.7cm › ‹ @ 218.33 sph 1.0% › ‹ @ 218.33 gal 1.0% ›	VA10145384	I095458	205.5	207	0.93
		« 218.50- 223.00 ank 15%» as diffuse rounded 5-9 mm p/lasts	VA10145384	I095459	207	208	0.29
		‹ @ 219.00 QV3 90° 2.5cm › ‹ @ 219.33 QV3 60° 10.0cm › ‹ @ 219.33 sph 1.5% › ‹ @ 221.60 QV3 70° 3.0cm › ‹ @ 222.20 QV3 85° 0.6cm › ‹ @ 222.20 sph 0.2% › ‹ @ 222.56 QV3 75° 2.0cm › ‹ @ 222.56 sph 0.2% › ‹ @ 222.67 QV3 57° 2.5cm › vuggy	VA10145384	I095460	208	208.75	0.26
			VA10145384	I095462	208.75	210	0.23
			VA10145384	I095463	210	211.5	0.72
			VA10145384	I095464	211.5	213	0.61
			VA10145384	I095465	213	214.5	0.63
			VA10145384	I095466	214.5	216	0.35
			VA10145384	I095467	216	217.5	0.18
			VA10145384	I095469	217.5	219	0.21
			VA10145384	I095470	219	220.5	0.37
			VA10145384	I095471	220.5	222	0.31
			VA10145384	I095472	222	223.5	0.44
	EOH	Hole reached the target depth.	VA10145384	I095473	223.5	224.64	0.62
225							
230							
235							
240							
245							

10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
	Casing	casing						
5	Siltstone, Argillite	Light to med grey, fine gr siltstone with lesser dk grey-black, fine gr, fissile, more graphitic argillite interbeds (to 25% of unit). Top 15m is rubbly with alot of limonite stained fractures representing the top of the hole. A vuggy appearance is due to the degradation of ankerite. Structure in unit mainly defined by what probably is bedding color changes (various greys). Thin spider-like veinlets of lt grey-white felsic material to 3mm wide crosscut fabric but only form 2-3% of unit. « py 0.5% 1.0-20.0mm» as very fine disseminations and larger cubes; collections and trails of f-med gr pyrite along fabric are rare. « ank 18.0%» ‹ @ 6.52 SO 68° › ‹ @ 10.57 SO 75° › ‹ @ 13.55 SO 30° › ‹ @ 17.80 SO 0° › here bedding parallels and subparallels CA for 2m. ‹ @ 20.62 SO 70° › ‹ @ 24.25 SO 20° › ‹ @ 26.56 SO 30° › ‹ @ 30.90 SO 70° › ‹ @ 35.30 SO 68° › slickenside ‹ @ 15.82 alpha 38° › ‹ @ 15.82 beta 0° › ‹ @ 15.82 gamma 85° › Quartz ‹ @ 4.50 QV2 0° 0.2cm, subparallels for 1.5m › ‹ @ 8.36 QV2 20° 0.2cm › swarms of these in places ‹ @ 11.44 QVpy 75° 15.0mm › ‹ @ 15.74 QV2 26° 0.1cm › ‹ @ 17.85 QV2 74° 0.5cm › ‹ @ 21.48 QV2 25° 0.2cm › ‹ @ 26.89 QV2 50° 1.3cm, 3 subparallel veinlets › ‹ @ 28.58 QV2 70° 0.8cm, 3 to 4 subparallel veinlets › ‹ @ 34.17 QV2 45° 4.5cm, 8 subpar veins › ‹ @ 36.13 QVbull 40° 8.5cm › ‹ @ 25.74 FZ 65° 1.8cm, gouge, rock grind › ‹ @ 28.55 FZ 70° 1.5cm, clay, rock grind › ‹ @ 33.00 FZ 35° 45.0cm, gouge and rock grind, plus 35cm lost core ›						
35	Jigsaw Tuff	This is a jumbled, brecciated version of the next unit. Light cream-green tuff blocks/frags in a lt to med grey matrix, possibly tainted by the mafic minerals from the preceding sediments. « ser 5%» « py 0.1% 0.5-1.0mm» « chl 2%» « ank 7.0%» ‹ @ 37.14 QV2 22° 0.5cm › ‹ @ 37.91 QVbull 47° 9.2cm › ‹ @ 38.15 QVbull 35° 0.4cm › ‹ @ 38.54 QVbull 57° 1.5cm ›						
40	Altered Tuff	Weak to mod sericitized volcanic tuffs, lt cream - lt green, fine to med grained with quartz and feldspar xls and rare dk grey lithic frags. Poor (coarse) bedding implied by collections of xls and by changes in percentage of chlorite - in some horizons chlorite is present as distinct rims on the altered ankerite, possibly representing a more intermediate to mafic volcanic horizon. Slight changes in degree of sericitization probably reflect original composition. Thin quartz veins can act as barriers to fluid flow and also affect changes in alteration. Lower 6m appears to be slightly brecciated with dark chlorite-filled short fracs at all angles beginning to appear. Doesn't reach intensity of the "jigsaw tuff" further up hole. « chl 6%» « ank 20.0%» « py 0.5% 0.5-7.0mm» « ser 50%» Quartz ‹ @ 40.74 QVbull 82° 5.5cm › has 25% massive coarse py ‹ @ 40.74 VG , 1mm bleb imbedded in massive py clot › ‹ @ 42.10 QVbull 55° 0.5cm › ‹ @ 42.35 QV2 48° 2.8cm › ‹ @ 43.17 QV2 23° 0.7cm › ‹ @ 44.88 QVbull 53° 6.0cm › ‹ @ 47.35 QVbull 43° 12.0cm, rubble, size is est › ‹ @ 48.11 QV2 45° 0.8cm › ‹ @ 48.75 QV2 35° 0.4cm › ‹ @ 49.27 QV2 10° 0.6cm › ‹ @ 53.37 QVbull 55° 8.0cm › ‹ @ 56.65 QV2 67° 0.9cm › ‹ @ 57.05 QV2 18° 0.6cm › ‹ @ 57.33 QVbull 40° 0.8cm › ‹ @ 58.54 QV2 12° 0.9cm › ‹ @ 58.75 QVbull 60° 10.0cm › contains 4mm bleb cpy. ‹ @ 63.06 QVbull 32° 10.0cm › ‹ @ 55.70 FZ 0° 4.0cm, rock grind ›						
45								

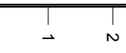
Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description
55	Altered Tuff	Weak to mod sericitized volcanic tuffs, lt cream - lt green, fine to med grained with quartz and feldspar xls and rare dk grey lithic frags. Poor (coarse) bedding implied by collections of xls and by changes in percentage of chlorite - in some horizons chlorite is present as distinct rims on the altered ankerite, possibly representing a more intermediate to mafic volcanic horizon. Slight changes in degree of sericitization probably reflect original composition. Thin quartz veins can act as barriers to fluid flow and also affect changes in alteration. Lower 6m appears to be slightly brecciated with dark chlorite-filled short fracs at all angles beginning to appear. Doesn't reach intensity of the "jigsaw tuff" further up hole. « chl 6%» « ank 20.0%» « py 0.5% 0.5-7.0mm» « ser 50%» Quartz ‹ @ 40.74 QVbull 82° 5.5cm › has 25% massive coarse py ‹ @ 40.74 VG , 1mm bleb imbedded in massive py clot › ‹ @ 42.10 QVbull 55° 0.5cm › ‹ @ 42.35 QV2 48° 2.8cm › ‹ @ 43.17 QV2 23° 0.7cm › ‹ @ 44.88 QVbull 53° 6.0cm › ‹ @ 47.35 QVbull 43° 12.0cm, rubble, size is est › ‹ @ 48.11 QV2 45° 0.8cm › ‹ @ 48.75 QV2 35° 0.4cm › ‹ @ 49.27 QV2 10° 0.6cm › ‹ @ 53.37 QVbull 55° 8.0cm › ‹ @ 56.65 QV2 67° 0.9cm › ‹ @ 57.05 QV2 18° 0.6cm › ‹ @ 57.33 QVbull 40° 0.8cm › ‹ @ 58.54 QV2 12° 0.9cm › ‹ @ 58.75 QVbull 60° 10.0cm › contains 4mm bleb cpy. ‹ @ 63.06 QVbull 32° 10.0cm › ‹ @ 55.70 FZ 0° 4.0cm, rock grind ›
60		
65	Conglomerate	Lt grey and cream-lt.green colored, subangular to subrounded granules and pebbles to 20mm but rare 6 to 8cm cobble. Some pebbles have cr-mica altered spots. Minor subsections of tuff but possibly lge boulders? Matrix is f.gr.med grey, less sericitic alteration. Minor fracture lines thruout, chlorite coated (black). Possible movement indicated along these lines. « ank 25.0%» « py 0.3% 0.5-11.0mm» « ser 20%» ‹ @ 65.73 QVbull 60° 22.0cm › ‹ @ 67.40 QVbull 68° 5.2cm › ‹ @ 67.66 QV2 10° 1.2cm, 2 subparallel, crushed by fault movement › ‹ @ 68.22 QVbull 67° 1.6cm › ‹ @ 67.74 FZ 28° 5.0cm, clay, rock grind ›
70	Fault	Black gouge and rock grind with rafts of what appears to be siltstones and argillites. Up to 85m is more argillite rich, while after that a massive, med gr siltstone predominates. There is 4.75m lost core between 70.1 to 86.9m in this zone. « ank 20.0%» « py 2.0% 0.5-8.0mm» pyrite predom in the incompetent argillite and clayey rock grind zones ‹ @ 68.90 FZ 65° 66.0cm, gouge, rock grind › ‹ @ 70.40 FZ 60° 70.0cm, gouge, clay, rock grind › ‹ @ 75.00 FZ 50° 100.0cm › ‹ @ 79.50 FZ 50° 150.0cm › ‹ @ 83.40 FZ 8° 2.0cm, clay and rock grind › ‹ @ 84.40 FZ 35° 75.0cm, gouge, rock grind ›
75		
80		
85	Cat.1 Siltstone, Tuff	Cat 1 siltstones with 10% argillite component - upper 15m shows sporadic fault zones, part of the preceeding unit. This unit also contains approx 20% minor bands tuff that display a jigsaw effect due to the cataclasite action. Rock is laminated to coarsely banded, fine grained, lt to med grey with black, more mud/graphitic bands forming less than 10% overall. The finer banded sections show the structural movement the rock has undergone, with irregular micro folds and crenulations, breakage, boudins. Microfractures at all angles evident in the finely layered sections due to infill by felsic material. « ank 15.0%» « py 1.5% 0.5-5.0mm» Bedding ‹ @ 88.23 SO 12° › ‹ @ 95.28 SO 67° › ‹ @ 97.00 SO 0° › parallels CA ‹ @ 104.50 SO 78° › ‹ @ 108.90 SO 75° › ‹ @ 115.12 SO 70° › ‹ @ 119.17 SO 64° › ‹ @ 124.20 SO 30° › Quartz ‹ @ 91.74 QVbull 0° 9.0cm, no angle due to shearing and rotation › ‹ @ 88.23 QV2 12° 0.2cm › ‹ @ 92.77 QV2 23° 0.4cm › ‹ @ 93.10 QV2 35° 0.7cm › ‹ @ 93.70 QVbull 10° 20.0cm, over 20cm in 5 or 6 bull veins but alot crushing due to fault zone › ‹ @ 95.14 QV 58° 3.5cm › ‹ @ 95.45 QV2 12° 0.2cm › ‹ @ 102.41 QV2 25° 0.6cm › ‹ @ 103.00 QVbull 0° 5.0cm, irreg, subparallel, over 35cm › ‹ @ 115.37 QV2 40° 1.5cm › ‹ @ 118.94 QV2 45° 1.1cm › ‹ @ 122.60 QV2 0° 6.0cm, more than 6cm quartz veinlets in flooding subparallel to CA › this flood is alongside low angle fault ‹ @ 125.35 QV2 45° 2.2cm › Faults ‹ @ 88.80 FZ 15° 3.8cm, clay and rock grind › Yellow calcite xls . ‹ @ 89.53 FZ 30° 5.0cm, clay, rock grind › ‹ @ 90.15 FZ 60° 8.0cm, gouge › slickenside: ‹ @ 91.09 alpha 62° › ‹ @ 91.09 beta 40° › ‹ @ 91.09 gamma 165°, 9cm gouge assoc with this slickenside › ‹ @ 91.74 FZ 25° 6.0cm, irreg, angle est › ‹ @ 94.00 FZ 0° 5.0cm, subparallels CA for 70cm, quartz flooding assoc › ‹ @ 98.90 FZ 0° 0.5cm, subparallels CA for 80cm › ‹ @ 111.77 FZ 75° 9.0cm › gouge ‹ @ 112.24 FZ 0° 10.0cm, clay, rock grind › ‹ @ 114.16 FZ 68° 13.0cm, gouge › ‹ @ 123.00 FZ 10° 3.0cm, clay, rock grind ›
90		
95		

Geochemistry

CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
VA10145382	I095654	69.51	71	0.05
VA10145382	I095655	71	72.5	0.08
VA10145382	I095657	72.5	74	0.025
VA10145382	I095658	74	76.5	0.025
VA10145382	I095659	76.5	81	0.025
VA10145382	I095660	81	83.53	0.025



10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				

100

105

110

115

120

125

130

135

140

145

Cat.1 Siltstone, Tuff

Cat 1 siltstones with 10% argillite component - upper 15m shows sporadic fault zones, part of the preceeding unit. This unit also contains approx 20% minor bands tuff that display a jigsaw effect due to the cataclasite action.
Rock is laminated to coarsely banded, fine grained, lt to med grey with black, more mud/graphitic bands forming less than 10% overall.
The finer banded sections show the structural movement the rock has undergone, with irregular micro folds and crenulations, breakage, boudins. Microfractures at all angles evident in the finely layered sections due to infill by felsic material.

« ank 15.0%» « py 1.5% 0.5-5.0mm»
Bedding ‹ @ 88.23 SO 12° › ‹ @ 95.28 SO 67° › ‹ @ 97.00 SO 0° › parallels CA
‹ @ 104.50 SO 78° › ‹ @ 108.90 SO 75° › ‹ @ 115.12 SO 70° › ‹ @ 119.17 SO 64° › ‹ @ 124.20 SO 30° ›
Quartz
‹ @ 91.74 QVbull 0° 9.0cm, no angle due to shearing and rotation ›
‹ @ 88.23 QV2 12° 0.2cm › ‹ @ 92.77 QV2 23° 0.4cm › ‹ @ 93.10 QV2 35° 0.7cm › ‹ @ 93.70 QVbull 10° 20.0cm, over 20cm in 5 or 6 bull veins but alot crushing due to fault zone ›
‹ @ 95.14 QV 58° 3.5cm › ‹ @ 95.45 QV2 12° 0.2cm › ‹ @ 102.41 QV2 25° 0.6cm › ‹ @ 103.00 QVbull 0° 5.0cm, irreg, subparallel, over 35cm › ‹ @ 115.37 QV2 40° 1.5cm › ‹ @ 118.94 QV2 45° 1.1cm › ‹ @ 122.60 QV2 0° 6.0cm, more than 6cm quartz veinlets in flooding subparallel to CA › this flood is alongside low angle fault
‹ @ 125.35 QV2 45° 2.2cm ›
Faults
‹ @ 88.80 FZ 15° 3.8cm, clay and rock grind › Yellow calcite xls .
‹ @ 89.53 FZ 30° 5.0cm, clay, rock grind › ‹ @ 90.15 FZ 60° 8.0cm, gouge ›
slickenside:
‹ @ 91.09 alpha 62° › ‹ @ 91.09 beta 40° › ‹ @ 91.09 gamma 165°, 9cm gouge assoc with this slickenside ›
‹ @ 91.74 FZ 25° 6.0cm, irreg, angle est › ‹ @ 94.00 FZ 0° 5.0cm, subparallels CA for 70cm, quartz flooding assoc › ‹ @ 98.90 FZ 0° 0.5cm, subparallels CA for 80cm › ‹ @ 111.77 FZ 75° 9.0cm › gouge
‹ @ 112.24 FZ 0° 10.0cm, clay, rock grind › ‹ @ 114.16 FZ 68° 13.0cm, gouge › ‹ @ 123.00 FZ 10° 3.0cm, clay, rock grind ›

Cat.2 Argillite, Siltstone

Cataclasite 2 - Interbedded argillites and siltstones (60/40) - What was once a well layered to laminated, fine gr, shades of grey to black rock, now showing contortion, micro to larger scale faulting, fold structures, dismembered and rolled boudins of the lighter more felsic layers.
The argillite subsections show very fine scale deformation - laminations possibly representing a realignment and stretching of what may have been the boudins of any felsic laminae originally present.

« py 3.0% 0.5-18.0mm» mainly in f.gr. masses and blebs along fabric surfaces, shows grinding, elongation.
« ank 12.0%»
‹ @ 135.00 SO 75° › ‹ @ 140.10 SO 45° › ‹ @ 144.95 SO 68° ›
Quartz
‹ @ 128.73 QV2 0° 5.0cm, quartz flood subpar to CA over 45cm › ‹ @ 129.96 QV2 30° 2.0cm, 4 to 5 veins › ‹ @ 137.89 QVbull 45° 3.7cm › ‹ @ 139.90 QV2 20° 0.2cm › ‹ @ 140.74 QV2 60° 3.0cm › ‹ @ 145.74 QV2 25° 2.0cm, crushed appearance due to fault ›

Faults
‹ @ 128.30 FZ 0° 3.0cm, clay and rock grind › subparallels CA for 2m.
‹ @ 131.37 FZ 0° 1.0cm, clay, rock grind › subparallels for 0.4m.
‹ @ 134.45 FZ 68° 15.0cm, gouge, rock grind ›

Fault

Fault zone in Argillite - black, high percentage of gouge, rare remnant of siltstone rock. A number of bull white quartz veins also ground up.
Suspect this is a low angle fault although hard to get an angle.
‹ @ 148.20 FZ 20° 100.0cm, appears to represent direction of a large part of fault zone ›

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	1 2
150	Fault	Fault zone in Argillite - black, high percentage of gouge, rare remnant of siltstone rock. A number of bull white quartz veins also ground up. Suspect this is a low angle fault although hard to get an angle. ‹ @ 148.20 FZ 20° 100.0cm, appears to represent direction of a large part of fault zone ›						
155	Cat.2 Argillite, Siltstone	Cataclasite 2 - Interbedded argillites and siltstones (50/50) - As at 115 to 145m, a well layered to laminated, fine gr, grey to black rock showing contortion, micro to larger scale faulting, fold structures, and dismembered and rolled boudins of the lighter more felsic layers. The argillite subsections show laminations possibly representing a realignment and stretching of what may have been the boudins of any felsic laminae originally present. « ank 12.0%» « py 4.5% 0.5-8.0mm» pyrite occurs just as crushed aggregates along fabric ‹ @ 150.00 SO 67° › ‹ @ 156.60 SO 52° › ‹ @ 163.80 SO 80° › ‹ @ 167.70 SO 50° › ‹ @ 173.00 SO 78° › ‹ @ 178.30 SO 70° › Quartz ‹ @ 154.22 QV2 77° 3.0cm › ‹ @ 158.28 QV2 66° 4.0cm › ‹ @ 162.22 QV2 0° 2.5cm, subparallels for 30cm › ‹ @ 162.85 QV2 45° 1.6cm › ‹ @ 164.80 QV2 0° 5.0cm, flooding subparallels for 1m › ‹ @ 166.20 QV2 0° 8.0cm, quartz flooding over 1.1m › ‹ @ 168.72 QV2 60° 3.1cm › Faults ‹ @ 155.35 FZ 55° 8.0cm, gouge, rock crush › ‹ @ 155.90 FZ 50° 12.0cm, gouge, rock crush › ‹ @ 156.48 FZ 40° 8.0cm, clay, rock crush › ‹ @ 166.98 FZ 70° 3.0cm, clay, rock grind, crushed quartz ›						
160								
165								
170								
175								
180	Cat.1 Siltstones, Tuff	Cataclastic 1 siltstones with approx 20% lt grey, fine grained, more massive bands of tuffaceous rock. Approx 5% of the siltstone is black, argillaceous rock. Cataclastic movement is beginning to boudin or disorient the layering in the siltstone and give a "jigsaw" effect to the tuff bands. Very minor sections could be given the prefix "Cat 2". From 191m onward there are sections of very finely laminated siltstones (ash tuffs?). « py 2.0% 0.5-5.0mm» pyrite mainly as crushed lenses along fabric. « ank 15.0%» ‹ @ 179.58 SO 62° › ‹ @ 184.00 SO 55° › ‹ @ 187.50 SO 38° › ‹ @ 192.55 SO 10° › ‹ @ 196.50 SO 48° › ‹ @ 199.40 SO 70° › ‹ @ 202.60 SO 40° › ‹ @ 205.70 SO 62° › ‹ @ 210.90 SO 60° › ‹ @ 215.56 SO 57° › ‹ @ 219.80 SO 58° › ‹ @ 225.00 SO 45° › Quartz ‹ @ 184.83 QV2 35° 3.0cm › ‹ @ 185.59 QV2 47° 3.8cm › ‹ @ 187.05 QV2 38° 4.2cm › ‹ @ 189.14 QV2 20° 0.3cm › ‹ @ 190.13 QV2 43° 1.3cm, 25% pyrite › ‹ @ 190.53 QVbull 13° 6.0cm › ‹ @ 194.48 QVbull 28° 5.8cm › ‹ @ 197.20 QV2 22° 0.2cm › ‹ @ 197.72 QV2 45° 13.0cm, 5 blebs galena › ‹ @ 199.38 QV2 25° 0.2cm › ‹ @ 202.55 QV2 12° 0.3cm › ‹ @ 204.90 QV2 12° 0.3cm › ‹ @ 208.37 QV2 0° 2.0cm, grey, irreg, subparallels CA for 40cm › ‹ @ 209.22 QVbull 70° 2.8cm › ‹ @ 210.35 QVbull 40° 20.0cm, 4% pyrite, lesser galens, one bleb (1mm) gold › ‹ @ 210.35 VG , 1mm bleb in frac in bull quartz › ‹ @ 211.54 QV2 70° 0.2cm › ‹ @ 214.60 QVbull 52° 6.0cm › ‹ @ 219.27 QV2 47° 0.3cm › ‹ @ 219.95 QV2 26° 1.5cm › ‹ @ 222.50 QV2 0° 0.1cm, subparallels CA for 40cm › Faults ‹ @ 197.03 FZ 72° 1.5cm, gouge, rock grind › ‹ @ 198.48 FZ 28° 60.0cm, area of crushed rock only ›						
185								
190								
195								

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Cat.1 Siltstones, Tuff	Cataclastic 1 siltstones with approx 20% lt grey, fine grained, more massive bands of tuffaceous rock. Approx 5% of the siltstone is black, argillaceous rock. Cataclastic movement is beginning to boudin or disorient the layering in the siltstone and give a "jigsaw" effect to the tuff bands. Very minor sections could be given the prefix "Cat 2". From 191m onward there are sections of very finely laminated siltstones (ash tuffs?). « py 2.0% 0.5-5.0mm» pyrite mainly as crushed lenses along fabric. « ank 15.0%» ‹ @ 179.58 SO 62° › ‹ @ 184.00 SO 55° › ‹ @ 187.50 SO 38° › ‹ @ 192.55 SO 10° › ‹ @ 196.50 SO 48° › ‹ @ 199.40 SO 70° › ‹ @ 202.60 SO 40° › ‹ @ 205.70 SO 62° › ‹ @ 210.90 SO 60° › ‹ @ 215.56 SO 57° › ‹ @ 219.80 SO 58° › ‹ @ 225.00 SO 45° › Quartz ‹ @ 184.83 QV2 35° 3.0cm › ‹ @ 185.59 QV2 47° 3.8cm › ‹ @ 187.05 QV2 38° 4.2cm › ‹ @ 189.14 QV2 20° 0.3cm › ‹ @ 190.13 QV2 43° 1.3cm, 25% pyrite › ‹ @ 190.53 QVbull 13° 6.0cm › ‹ @ 194.48 QVbull 28° 5.8cm › ‹ @ 197.20 QV2 22° 0.2cm › ‹ @ 197.72 QV2 45° 13.0cm, 5 blebs galena › ‹ @ 199.38 QV2 25° 0.2cm › ‹ @ 202.55 QV2 12° 0.3cm › ‹ @ 204.90 QV2 12° 0.3cm › ‹ @ 208.37 QV2 0° 2.0cm, grey, irreg, subparallels CA for 40cm › ‹ @ 209.22 QVbull 70° 2.8cm › ‹ @ 210.35 QVbull 40° 20.0cm, 4% pyrite, lesser galens, one bleb (1mm) gold › ‹ @ 210.35 VG , 1mm bleb in frac in bull quartz › ‹ @ 211.54 QV2 70° 0.2cm › ‹ @ 214.60 QVbull 52° 6.0cm › ‹ @ 219.27 QV2 47° 0.3cm › ‹ @ 219.95 QV2 26° 1.5cm › ‹ @ 222.50 QV2 0° 0.1cm, subparallels CA for 40cm › Faults ‹ @ 197.03 FZ 72° 1.5cm, gouge, rock grind › ‹ @ 198.48 FZ 28° 60.0cm, area of crushed rock only ›					
205							
210							
215							
220							
225							
230	Cat.2 Argillite, Siltstone	Cataclasite 2 - Argillite with lesser siltstone - med to dark grey/black, fine grained, showing remnant banding and rare lamination in places but predominantly dismembered and rolled lighter colored (more felsic) units in the more ductile darker argillaceous matrix. Argillite is highly graphitic in places - these forming the centre of shearing/fault movement. Rock is beginning to lack quartz injection material. « py 4.0% 0.5-4.0mm» pyrite forms small cubes but most have been crushed and align as lenses along fabric « ank 20.0%» ‹ @ 226.90 SO 65° › ‹ @ 232.52 SO 40° › Faults ‹ @ 231.88 FZ 43° 8.0cm, schistose, clay, rock grind ›					
235	Tuffs, Siltstones	Interbedded volvanic tuffs and siltstones, lt to med greys, layering indicated in places due to changes in color and grain size. Occurrence of a 1-3mm black angular to rounded minerals/fragments occur scattered thru some of the subunits, no orientation, no evidence of concentrations into banding. The lighter colored, more massive, fine grained tuff units show black-line breccia effect. There is other evidence of small scale fracturing/brecciation and folds but for the most part the banding/bedding present is fairly intact. « ank 25.0%» « py 0.5% 0.5-7.0mm» pyrite mainly cubes ‹ @ 234.60 SO 35° › ‹ @ 240.85 SO 25° › ‹ @ 243.36 SO 44° › ‹ @ 248.12 SO 68° › ‹ @ 252.55 SO 45° ›	VA10145382	I095661	234.89	236.5	0.025
			VA10145382	I095662	236.5	238	0.22
			VA10145382	I095664	238	239.5	0.19
240			VA10145382	I095665	239.5	241	0.025
			VA10145382	I095666	241	242.5	0.025
			VA10145382	I095667	242.5	244	0.025
245			VA10145382	I095668	244	245.5	0.47
			VA10145382	I095669	245.5	247	0.025
			VA10145382	I095671	247	248.5	0.025

Scale 1:200	Start Depth :198.38	End Depth :247.98	Page No.: 5

10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250	Tuffs, Siltstones	Interbedded volvanic tuffs and siltstones, lt to med greys, layering indicated in places due to changes in color and grain size. Occurrence of a 1-3mm black angular to rounded minerals/fragments occur scattered thru some of the subunits, no orientation, no evidence of concentrations into banding. The lighter colored, more massive, fine grained tuff units show black-line breccia effect. There is other evidence of small scale fracturing/brecciation and folds but for the most part the banding/bedding present is fairly intact. « ank 25.0%» « py 0.5% 0.5-7.0mm» pyrite mainly cubes ‹ @ 234.60 SO 35° › ‹ @ 240.85 SO 25° › ‹ @ 243.36 SO 44° › ‹ @ 248.12 SO 68° › ‹ @ 252.55 SO 45° ›	VA10145382	I095671	247	248.5	0.025
			VA10145382	I095672	248.5	250	0.19
			VA10145382	I095673	250	251.5	0.07
			VA10145382	I095675	251.5	253	0.97
255	Cat.1 Siltstone, Argillite	Cataclasite 1 interbedded siltstones and argillites, lt to dark grey/black, fine to med grained, graphitic, laminated to bedded metasediments. The lighter grey siltstone layers have begun to show fault movement and primary boudin formation although units are still "connectable". « py 2.0% 0.5-8.0mm» « ank 20.0%» ‹ @ 258.80 SO 58° › ‹ @ 257.68 SO 58° › Quartz ‹ @ 257.88 QV2 62° 1.0cm › ‹ @ 258.80 QV2 20° 1.2cm, 2 veins along fault zone › Faults ‹ @ 258.08 FZ 20° 1.0cm, clay, rock grind, 2 quartz veins ›	VA10145382	I095676	253	254.5	0.79
			VA10145382	I095677	254.5	256	0.5
			VA10145382	I095678	256	257.5	0.08
			VA10145382	I095680	257.5	259	0.05
260	Massive Crystal Tuff	Coarse grained crystal tuff - med grey with darker grey phases, fine to med grained with coarse xls of cream plag feldspars and angular black lithic pieces from 1 to 3mm, rarely larger to 5mm. These black flecks can make this unit distinctive. The xl sizing can phase to med grained (darker rock) with little coarse plag but this isn't predominant. 295.5 to 300m has a more layered, finer grained look with 3% pyrite and represents a subunit of metasediments (siltstone). 290 to 293m - here there are 2-3 1-2mm veins od calcite subparallel to CA and the core itself also has a mild acid rxtn - not sure why as rock appears same as usual. « py 0.5% 0.5-15.0mm» pyrite mainly as cubes « ank 25.0%» ‹ @ 297.90 SO 50° › Quartz ‹ @ 259.87 QV2 40° 0.4cm › ‹ @ 263.36 QV2 62° 1.0cm › ‹ @ 266.41 QVbull 28° 1.2cm › ‹ @ 267.95 QVbull 21° 6.2cm › ‹ @ 272.35 QV2 25° 6.0cm, 2 phases, one qtzfeld, other irreg white qtz › ‹ @ 273.16 QV2 35° 1.2cm › ‹ @ 274.02 QVbull 57° 7.2cm, cpy, gal › ‹ @ 274.80 QVbull 31° 0.8cm › ‹ @ 278.47 QVbull 75° 4.3cm › ‹ @ 280.24 QV2 32° 1.5cm, 8% pyr cubes, tr sph › ‹ @ 280.82 QVbull 38° 20.0cm › ‹ @ 282.47 QVbull 20° 48.0cm, 3 vg blebs, sphal, galena, large voids hve quartz xls 2cm long by 1.5cm diam › ‹ @ 285.84 QVbull 25° 6.4cm › ‹ @ 287.88 QVbull 44° 4.3cm › ‹ @ 288.51 QVbull 80° 2.8cm › ‹ @ 289.45 QVbull 15° 2.1cm › ‹ @ 292.08 QV2 42° 0.6cm, quartz calcite › ‹ @ 293.05 QV2 43° 0.7cm › ‹ @ 298.27 QV2 40° 1.3cm › ‹ @ 301.95 QVbull 22° 1.3cm ›	VA10145382	I095681	259	260.5	0.025
			VA10145382	I095682	260.5	262	0.09
			VA10145382	I095683	262	263.5	0.025
			VA10145382	I095684	263.5	265	0.025
265			VA10145382	I095685	265	266.5	0.025
			VA10145382	I095686	266.5	268	0.76
			VA10145382	I095687	268	269.5	0.21
270			VA10145382	I095688	269.5	271	0.025
			VA10145382	I095689	271	272.5	0.22
			VA10145382	I095691	272.5	274	0.13
275			VA10145382	I095692	274	275.5	0.41
			VA10145382	I095693	275.5	277	0.025
			VA10145382	I095694	277	278.5	0.025
280			VA10145382	I095696	278.5	280	7.44
			VA10145382	I095697	280	281.5	0.025
			VA10145382	I095698	281.5	283	0.78
			VA10145382	I095699	283	284.5	0.14
285			VA10145382	I095700	284.5	286	0.16
			VA10145382	I095701	286	287.5	0.06
			VA10145382	I095703	287.5	289	0.34
290			VA10145382	I095704	289	290.5	0.31
			VA10145382	I095705	290.5	292	0.025
			VA10145382	I095706	292	293.5	0.43
295			VA10145382	I095707	293.5	295	0.025
			VA10145382	I095708	295	296.5	0.025
			VA10145382	I095709	296.5	298	1

10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description
300	Massive Crystal Tuff	Coarse grained crystal tuff - med grey with darker grey phases, fine to med grained with coarse xls of cream plag feldspars and angular black lithic pieces from 1 to 3mm, rarely larger to 5mm. These black flecks can make this unit distinctive. The xl sizing can phase to med grained (darker rock) with little coarse plag but this isn't predominant. 295.5 to 300m has a more layered, finer grained look with 3% pyrite and represents a subunit of metasediments (siltstone). 290 to 293m - here there are 2-3 1-2mm veins od calcite subparallel to CA and the core itself also has a mild acid rxtn - not sure why as rock appears same as usual. « py 0.5% 0.5-15.0mm» pyrite mainly as cubes « ank 25.0%» ‹ @ 297.90 SO 50° › Quartz ‹ @ 259.87 QV2 40° 0.4cm › ‹ @ 263.36 QV2 62° 1.0cm › ‹ @ 266.41 QVbull 28° 1.2cm › ‹ @ 267.95 QVbull 21° 6.2cm › ‹ @ 272.35 QV2 25° 6.0cm, 2 phases, one qtzfeld, other irreg white qtz › ‹ @ 273.16 QV2 35° 1.2cm › ‹ @ 274.02 QVbull 57° 7.2cm, cpy, gal › ‹ @ 274.80 QVbull 31° 0.8cm › ‹ @ 278.47 QVbull 75° 4.3cm › ‹ @ 280.24 QV2 32° 1.5cm, 8% pyr cubes, tr sph › ‹ @ 280.82 QVbull 38° 20.0cm › ‹ @ 282.47 QVbull 20° 48.0cm, 3 vg blebs, sphal, galena, large voids hve quartz xls 2cm long by 1.5cm diam › ‹ @ 285.84 QVbull 25° 6.4cm › ‹ @ 287.88 QVbull 44° 4.3cm › ‹ @ 288.51 QVbull 80° 2.8cm › ‹ @ 289.45 QVbull 15° 2.1cm › ‹ @ 292.08 QV2 42° 0.6cm, quartz calcite › ‹ @ 293.05 QV2 43° 0.7cm › ‹ @ 298.27 QV2 40° 1.3cm › ‹ @ 301.95 QVbull 22° 1.3cm ›
305		Cat 2 Argillite and Siltstone ((80/20) - dk grey to black graphitic argillite with lt to med grey felsic lenses, boudins, rolled boudins and rafts throughout. Quartz veining (1 or 2) commonly shows ptygmatic folding and fault movement. 305.67 to 307.22m - lt green (cr-mica) color, probably what is called mafic dyke. 321.20 to 324.16m - subunit of the the same "mafic dyke" rock material, lighter green color and more black-line brecciation. 325.77 to 326.57 - as above "z" fold at 318.85m « py 3.0%» « ank 15.0%» ‹ @ 304.80 SO 45° › ‹ @ 309.25 SO 0° › ‹ @ 314.47 SO 67° › ‹ @ 318.60 SO 64° › ‹ @ 325.66 SO 70° › ‹ @ 329.00 SO 62° › ‹ @ 334.00 SO 45° › ‹ @ 339.25 SO 70° › ‹ @ 342.25 SO 25° › ‹ @ 345.38 SO 60° › Quartz ‹ @ 310.00 QV2 45° 0.9cm, highly irreg › ‹ @ 315.65 QVbull 47° 4.4cm › ‹ @ 316.92 QVbull 68° 4.0cm, breccia infill, not solid › ‹ @ 317.73 QV2 67° 2.0cm › ‹ @ 327.74 QV2 80° 3.5cm › ‹ @ 337.50 QV2 80° 1.5cm, 2 veinlets › ‹ @ 337.68 QV2 75° 0.8cm › Faults ‹ @ 307.60 FZ 40° 17.0cm, gouge, rock grind, angle estimated › ‹ @ 315.63 FZ 47° 2.5cm, gouge, rock grind › ‹ @ 328.32 FZ 70° 4.0cm, schistose, clay, rock grind › ‹ @ 336.23 FZ 65° 2.8cm, clay, rock grind › ‹ @ 346.12 FZ 60° 8.0cm, clay, rock grind ›
310		
315		
320		
325	Cat.2 Argillite, Siltstone	
330		
335		
340		
345	Cat.2 Coarse Crystal Tuff, Argillite	Cat 2 Coarse crystal tuff and argillite (65/35) - Tuff is fine to med grained with coarse plag and black flecks, lt to med greywith lt green overtones in some layers; rock shows effect of catacl. movement with the presence of large scale breccia black lines (chl nfill, prob some carbon too). Argillite is the usual dk grey-black, fine grained, schistose, graphitic, ductile mudstone with the more brittle felsic interlayers now broken up, boudined and separated into rafts, lenses and balls. « py 3.5% 0.5-8.0mm» pyrite in argillite is ground along fabric planes. In the more brittle it remains as cubes except for rare instance. « ank 20.0%» « ser 5%» ‹ @ 351.56 SO 68° › Quartz ‹ @ 347.95 QV2 30° 0.5cm › ‹ @ 350.52 QVbull 0° 4.0cm, irreg, brecciated, subparallel for 60cm › ‹ @ 356.40 QVbull 0° 4.0cm, brecciated, irreg, subparallel for 50cm › Faults ‹ @ 346.32 FZ 50° 2.0cm, angle estimated › ‹ @ 346.75 FZ 25° 2.0cm, clay, rock grind › ‹ @ 348.64 FZ 30° 2.5cm, clay, rock grind › ‹ @ 355.60 FZ 27° 6.0cm, gouge, clay, rock grind ›

Geochemistry				
CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
VA10145382	I095709	296.5	298	1
VA10145382	I095711	298	299.5	1.22
VA10145382	I095712	299.5	301	0.27
VA10145382	I095713	301	302.5	0.025
VA10145382	I095714	302.5	304	0.025
VA10145382	I095715	304	305.5	0.08
VA10145382	I095717	305.5	307	0.025
VA10145382	I095718	307	308.5	0.025
VA10145382	I095719	308.5	310	0.025
VA10145382	I095720	310	311.5	0.06
VA10145382	I095722	311.5	313	0.11
VA10145382	I095723	313	314.5	0.13
VA10145382	I095724	314.5	316	0.09
VA10145382	I095725	316	317.5	0.11
VA10145382	I095726	317.5	319	0.11
VA10145382	I095727	319	320.5	0.1
VA10145382	I095728	320.5	322	0.07
VA10145382	I095729	322	323.5	0.025
VA10145382	I095731	323.5	325	0.025
VA10145382	I095732	325	326.5	0.025
VA10145382	I095733	326.5	328	0.05
VA10145382	I095734	328	329.5	0.08
VA10145382	I095736	329.5	331	0.06
VA10145382	I095737	331	332.5	0.09
VA10145382	I095738	332.5	334	0.12
VA10145382	I095739	334	335.5	0.16
VA10145382	I095740	335.5	337	0.15
VA10145382	I095742	337	338.5	0.14
VA10145382	I095743	338.5	340	0.12
VA10145382	I095744	340	341.5	0.11
VA10145382	I095745	341.5	343	0.13
VA10145382	I095746	343	344.5	0.11
VA10145382	I095747	344.5	346	0.08
VA10145382	I095748	346	347.5	0.025

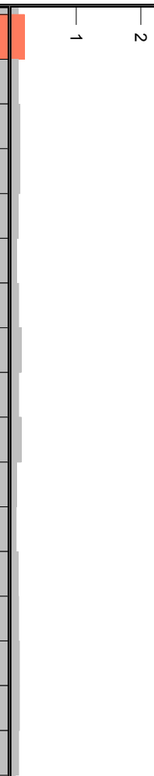
10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
350	Cat.2 Coarse Crystal Tuff, Argillite	Cat 2 Coarse crystal tuff and argillite (65/35) - Tuff is fine to med grained with coarse plag and black flecks, lt to med greywith lt green overtones in some layers; rock shows effect of catacl. movement with the presence of large scale breccia black lines (chl nfill, prob some carbon too). Argillite is the usual dk grey-black, fine grained, schistose, graphitic, ductile mudstone with the more brittle felsic interlayers now broken up, boudined and separated into rafts, lenses and balls. « py 3.5% 0.5-8.0mm» pyrite in argillite is ground along fabric planes. In the more brittle it remains as cubes except for rare instance. « ank 20.0%» « ser 5%» ‹ @ 351.56 SO 68° › Quartz ‹ @ 347.95 QV2 30° 0.5cm › ‹ @ 350.52 QVbull 0° 4.0cm, irreg, brecciated, subparallel for 60cm › ‹ @ 356.40 QVbull 0° 4.0cm, brecciated, irreg, subparallel for 50cm › Faults ‹ @ 346.32 FZ 50° 2.0cm, angle estimated › ‹ @ 346.75 FZ 25° 2.0cm, clay, rock grind › ‹ @ 348.64 FZ 30° 2.5cm, clay, rock grind › ‹ @ 355.60 FZ 27° 6.0cm, gouge, clay, rock grind ›	VA10145382	I095748	346	347.5	0.025
			VA10145382	I095749	347.5	349	0.025
			VA10145382	I095751	349	350.5	0.025
			VA10145382	I095752	350.5	352	0.08
			VA10145382	I095753	352	353.5	0.1
355			VA10145382	I095754	353.5	355	0.21
			VA10145382	I095755	355	356.5	0.07
360	Alt Crystal Tuff	Altered Crystal Tuff - Med grey to lt cream-lt green in color (greys are in upper half), fine to med grained, less coarse in appearance than prev unit. Plag xls and black flecks less abundant. The altered cream-green sections show cataclastic effects more because the black line breccia stands out. The cream-lt green has flecks of the cr-mica alteration in secluded blocks - this could be a compositional variation of the volcanic package. Has been called mafic dyke rock previously. Half of the green tinge comes from chlorite alteration, again suggsting a more mafic protolith. « ank 25.0%» « py 1.5% 0.5-7.0mm» « ser 5%» « chl 3%» ‹ @ 362.87 SO 17° › narrow interbed of argillite Quartz ‹ @ 358.09 QV2 40° 1.1cm › ‹ @ 358.59 QV2 55° 0.7cm › ‹ @ 359.22 QV2 50° 0.8cm › ‹ @ 359.25 QV1 8° 1.8cm › ‹ @ 360.08 QV2 45° 0.6cm › ‹ @ 360.65 QVbull 25° 6.2cm › ‹ @ 361.10 QVbull 30° 15.0cm, irregular, possibly larger › ‹ @ 361.48 QV2 20° 2.3cm › ‹ @ 362.22 QVbull 45° 8.5cm › ‹ @ 366.08 QVbull 42° 15.0cm › Faults ‹ @ 357.20 FZ 78° 6.0cm, gouge, rock grind ›	VA10145382	I095756	356.5	358	0.05
			VA10145382	I095757	358	359.5	0.06
			VA10145382	I095759	359.5	361	0.025
			VA10145382	I095760	361	362.5	0.025
			VA10145382	I095761	362.5	364	0.025
365			VA10145382	I095762	364	365.5	0.025
			VA10145382	I095763	365.5	367	0.025
			VA10145382	I095765	367	368.5	0.025
			VA10145382	I095766	368.5	370	0.025
370	Cat.2 Argillite	Cat 2 argillite with 5% crystal tuff horizons.- as previously described. Here the tuff horizons are not coarse, crystalline in appearance as further up the hole but the subunits are massive grey and there is the presence of the black flecks (considered a signature trait). Zones containing 1-2mm sized plag xls are present. The very faintest impressions of "jigsaw volcanics" show in these tuffs. « py 4.0% 0.5-7.0mm» pyrite only as lenses of crushed xls along fabric planes « ank 15.0%» ‹ @ 373.05 SO 80° › ‹ @ 375.75 SO 47° › ‹ @ 378.28 SO 32° › ‹ @ 381.90 SO 55° › ‹ @ 386.50 SO 40° › ‹ @ 394.30 SO 40° › ‹ @ 400.45 SO 67° › ‹ @ 404.44 SO 63° › Quartz - 2-3% of unit has ptygmatically folded and broken quartz veining. ‹ @ 369.89 QV2 30° 0.7cm › ‹ @ 379.65 QV2 65° 1.4cm › ‹ @ 381.13 QVbull 40° 11.0cm › ‹ @ 389.60 QV2 0° 0.3cm, subparallels CA for 1m › ‹ @ 392.91 QV2 20° 1.1cm › ‹ @ 396.75 QVbull 50° 20.0cm, swarm › ‹ @ 397.20 QVbull 35° 3.5cm › ‹ @ 413.90 QV2 35° 0.3cm › Faults ‹ @ 378.85 FZ 0° 2.0cm, clay and rock grind, subparallels for 1m › ‹ @ 380.20 FZ 10° 6.0cm, clay and rock grind › ‹ @ 382.07 FZ 42° 3.0cm, gouge, rock grind › ‹ @ 382.45 FZ 68° 5.7cm, gouge › ‹ @ 386.90 FZ 35° 12.0cm, clay, rock grind › ‹ @ 387.86 FZ 70° 4.0cm, clay, rock grind › ‹ @ 390.77 FZ 55° 3.0cm, clay, rock grind › ‹ @ 393.70 FZ 15° 6.0cm, gouge, clay, rock grind › ‹ @ 394.14 FZ 45° 3.0cm, goug, clay, rock grind › ‹ @ 397.84 FZ 65° 2.5cm, clay, rock grind › ‹ @ 399.85 FZ 65° 4.5cm, clay, rock grind › ‹ @ 404.72 FZ 65° 0.7cm, rock grind › ‹ @ 409.75 FZ 25° 1.5cm, clay, rock grind › ‹ @ 411.31 FZ 40° 1.0cm, clay,rock grind › ‹ @ 412.95 FZ 65° 8.0cm, rock grind › ‹ @ 415.13 FZ 40° 3.4cm, clay, rock goug › ‹ @ 415.58 FZ 60° 2.0cm, rock grind, angl est › ‹ @ 425.77 FZ 45° 5.0cm, rock grind › ‹ @ 431.88 FZ 70° 2.5cm, clay, rock grind › ‹ @ 439.11 FZ 75° 5.5cm, gouge, rock grind › ‹ @ 441.34 FZ 80° 8.0cm, gouge ›	VA10145382	I095767	370	371.5	0.12
			VA10145382	I095768	371.5	373	0.79
			VA10145382	I095769	373	374.5	0.9
375			VA10145382	I095771	374.5	376	0.26
			VA10145382	I095772	376	377.5	0.17
			VA10145382	I095773	377.5	379	0.72
380			VA10145382	I095774	379	380.5	0.67
			VA10145382	I095776	380.5	382	3.79
			VA10145382	I095777	382	383.5	0.93
			VA10145382	I095778	383.5	385	0.34
385			VA10145382	I095779	385	386.5	0.08
			VA10145382	I095781	386.5	388	0.73
			VA10145382	I095782	388	389.5	0.15
390			VA10145382	I095783	389.5	391	0.025
			VA10145382	I095784	391	392.5	0.07
			VA10145382	I095785	392.5	394	0.1
395			VA10145382	I095786	394	395.5	0.025
			VA10145382	I095787	395.5	397	0.1

10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description
400	Cat.2 Argillite	Cat 2 argillite with 5% crystal tuff horizons.- as previously described. Here the tuff horizons are not coarse, crystalline in appearance as further up the hole but the subunits are massive grey and there is the presence of the black flecks (considered a signature trait). Zones containing 1-2mm sized plag xls are present. The very faintest impressions of "jigsaw volcanics" show in these tuffs. « py 4.0% 0.5-7.0mm» pyrite only as lenses of crushed xls along fabric planes « ank 15.0%» ‹ @ 373.05 SO 80° › ‹ @ 375.75 SO 47° › ‹ @ 378.28 SO 32° › ‹ @ 381.90 SO 55° › ‹ @ 386.50 SO 40° › ‹ @ 394.30 SO 40° › ‹ @ 400.45 SO 67° › ‹ @ 404.44 SO 63° › Quartz - 2-3% of unit has ptygmatically folded and broken quartz veining. ‹ @ 369.89 QV2 30° 0.7cm › ‹ @ 379.65 QV2 65° 1.4cm › ‹ @ 381.13 QVbull 40° 11.0cm › ‹ @ 389.60 QV2 0° 0.3cm, subparallels CA for 1m › ‹ @ 392.91 QV2 20° 1.1cm › ‹ @ 396.75 QVbull 50° 20.0cm, swarm › ‹ @ 397.20 QVbull 35° 3.5cm › ‹ @ 413.90 QV2 35° 0.3cm › Faults ‹ @ 378.85 FZ 0° 2.0cm, clay and rock grind, subparallels for 1m › ‹ @ 380.20 FZ 10° 6.0cm, clay and rock grind › ‹ @ 382.07 FZ 42° 3.0cm, gouge, rock grind › ‹ @ 382.45 FZ 68° 5.7cm, gouge › ‹ @ 386.90 FZ 35° 12.0cm, clay, rock grind › ‹ @ 387.86 FZ 70° 4.0cm, clay, rock grind › ‹ @ 390.77 FZ 55° 3.0cm, clay, rock grind › ‹ @ 393.70 FZ 15° 6.0cm, gouge, clay, rock grind › ‹ @ 394.14 FZ 45° 3.0cm, goug, clay, rock grind › ‹ @ 397.84 FZ 65° 2.5cm, clay, rock grind › ‹ @ 399.85 FZ 65° 4.5cm, clay, rock grind › ‹ @ 404.72 FZ 65° 0.7cm, rock grind › ‹ @ 409.75 FZ 25° 1.5cm, clay, rock grind › ‹ @ 411.31 FZ 40° 1.0cm, clay,rock grind › ‹ @ 412.95 FZ 65° 8.0cm, rock grind › ‹ @ 415.13 FZ 40° 3.4cm, clay, rock goug › ‹ @ 415.58 FZ 60° 2.0cm, rock grind, angl est › ‹ @ 425.77 FZ 45° 5.0cm, rock grind › ‹ @ 431.88 FZ 70° 2.5cm, clay, rock grind › ‹ @ 439.11 FZ 75° 5.5cm, gouge, rock grind › ‹ @ 441.34 FZ 80° 8.0cm, gouge ›
405		
410		
415		
420		
425		
430		
435		
440		
445	Cat.1 Siltstone	Cat 1 Sltstone - Lt to med grey wth mildly graphtic med to dk grey interbeds, lenses of a more mafic nature, not dark enough to be argillite as in prev unit. A more clastic phase of the sed sequence. Cataclastic movement only to the point on breakage of layering, minor fault movement. Boudins present but not dominant, rolled boudins rare. « py 1.0% 0.5-6.0mm» « ank 20.0%» ‹ @ 444.87 SO 70° › ‹ @ 448.75 SO 45° › Quartz ‹ @ 447.02 QV2 25° 3.2cm, ribbony grey, minor pyrite, 3 to 4 veinlets › ‹ @ 449.13 QV2 50° 1.3cm, ribbony grey, 3 to 4 veinlets ›

CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
VA10145382	I095787	395.5	397	0.1
VA10145382	I095788	397	398.5	0.2
VA10145382	I095790	398.5	400	0.1
VA10145382	I095791	400	401.5	0.13
VA10145382	I095792	401.5	403	0.13
VA10145382	I095793	403	404.5	0.1
VA10145382	I095794	404.5	406	0.08
VA10145382	I095796	406	407.5	0.11
VA10145382	I095797	407.5	409	0.15
VA10145382	I095798	409	410.5	0.11
VA10145382	I095799	410.5	412	0.15
VA10145382	I095800	412	413.5	0.08
VA10145382	I095802	413.5	415	0.07
VA10145382	I095803	415	416.5	0.1
VA10145382	I095804	416.5	418	0.11
VA10145382	I095805	418	419.5	0.12
VA10145382	I095806	419.5	421	0.12
VA10145382	I095807	421	422.5	0.11
VA10145382	I095808	422.5	424	0.06
VA10145382	I095809	424	425.5	0.1
VA10145382	I095811	425.5	427	0.08
VA10145382	I095812	427	428.5	0.06
VA10145382	I095813	428.5	430	0.06
VA10145382	I095814	430	431.5	0.06
VA10145382	I095816	431.5	433	0.07
VA10145382	I095817	433	434.5	0.06
VA10145382	I095818	434.5	436	0.05
VA10145382	I095819	436	437.5	0.025
VA10145382	I095820	437.5	439	0.025
VA10145382	I095822	439	440.5	0.025
VA10145382	I095823	440.5	442	0.025
VA10145382	I095824	442	443.5	0.025
VA10145382	I095825	443.5	445	0.025
VA10145382	I095826	445	446.5	0.025



10-DDH-905	North :5827601	East :604238	Elevation :1221.1	Hole Length :449.58	Azimuth :27	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Geology Rocktype		Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Cat.1 Siltstone	Cat 1 Sltstone - Lt to med grey wth mildly graphtic med to dk grey interbeds, lenses of a more mafic nature, not dark enough to be argillite as in prev unit. A more clastic phase of the sed sequence. Cataclastic movement only to the point on breakage of layering, minor fault movement. Boudins present but not dominant, rolled boudins rare. « py 1.0% 0.5-6.0mm» « ank 20.0%» ‹ @ 444.87 SO 70° › ‹ @ 448.75 SO 45° › Quartz ‹ @ 447.02 QV2 25° 3.2cm, ribbony grey, minor pyrite, 3 to 4 veinlets › ‹ @ 449.13 QV2 50° 1.3cm, ribbony grey, 3 to 4 veinlets ›	VA10145382	I095827	446.5	448	0.025
				VA10145382	I095828	448	449.58	0.025
450		EOH	End of Hole					
455								
460								
465								
470								
475								
480								
485								
490								
495								

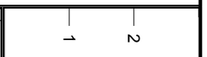
Scale 1:200	Start Depth :446.36	End Depth :495.96	Page No.: 10

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

	Geology			Geochemistry					
Depth At	Rocktype		Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
5		Casing	No core recovered.						
10									
15		Siltstone w/ MD	Med grey siltstone (30%) with sections of mafic volcanic rock (40%) and crystall lithic ash tuff, (30%), volcanic rock more mafic in composition as evidenced from chrome-mica and chlorite selective alteration alternate with fg felsic folcanic rock moderately to strongly ser-carb altered and cut by grey qz veinlets, carbonate alteration as 5-7 mm rounded p/blasts (10%) primarily affects fg var sericitized felsic volcanic rock, while 1-3 mm diffuse ankerite overprint is featured for chrome-mica altered mafic volcanic. Limonite fracture coating is observed to depth of 81m, weathered rusty ankerite spotting expands to 73 m. Overall pyrite make 1% as cubes th/out. Volcanic rock sections are cut by fractured qz-carb veins w/out sulphides	VA10084603	I088038	12.8	14	0.01
				VA10084603	I088039	14	15.5	0.01	
			« 14.00- 25.00 bkn » ‹ @ 22.60 LC 0.20m ›	VA10084603	I088041	15.5	17	0.01	
20			‹ @ 18.40 S0 25° ›						
			« 15.00- 16.20 Siltstone 0°» ‹ @ 25.00 S0 25° ›	VA10084603	I088042	17	18.5	0.01	
			« 17.85- 19.00 Mafic-dyke »						
			« 19.00- 20.00 Tuff »	VA10084603	I088043	18.5	20	0.01	
			« 14.32- 17.40 FZ 0°» broken core, rubble						
			« 20.00- 26.30 Siltstone » med to light grey, leached due to « ser 35.00%», « ank 3%» as 3-5 mm rusty spots	VA10084603	I088045	20	21.5	0.01	
			« 15.80- 16.00 FZ 75-45°»						
			« 26.30- 26.65 Mafic-dyke 70-60°» irregular contacts, 10% mafic minerals, « cr-mica 1.0%»	VA10084603	I088046	21.5	23	0.01	
			« 26.65- 27.10 Felsic Volcanic? » light grey, cut by network of grey qz veins						
			« 26.65- 29.00 ank 10%» 2-5 mm rusty p/blasts						
			« 29.00- 29.57 FZ 60°» gouge, rubble	VA10084603	I088047	23	24.5	0.01	
			‹ @ 30.00 QV2 35° 33.0cm ›						
25			« 30.30- 32.65 Tuff 0°» jig saw texture, with 10 cm patches of						
			« 31.25- 31.35 cr-mica 2.0%»	VA10084603	I088048	24.5	26	0.01	
			‹ @ 31.60 S0 70° ›						
			‹ @ 33.80 QV2 20° 4.0cm › crb	VA10084603	I088049	26	27.5	0.01	
			« 32.65- 33.70 Mafic-dyke 0°» « cr-mica 2.0%»						
			« 33.70- 38.50 Volcanic » jig saw texture						
			« 36.50- 37.85 ser 60.00%» whitish, « ank 10%» 3-7 mm rounded p/lasts, 10% grey qz stylolites	VA10084603	I088051	27.5	29	0.01	
			« 38.50- 43.00 Mafic-dyke » « cr-mica 2.0%» grey network						
			‹ @ 41.00 QV2 50° 15.0cm ›						
30			« 43.00- 44.32 Crystal Tuff 0°» med grey, plag-qz crysts, patchy « sil »	VA10084603	I088052	29	30.5	0.01	
			« 44.95- 50.44 Felsic Volcanic? » light to med grey fg, cut y anastomosing 1-3 mm grey qz veins, « ank 20%» 3-6 mm ragged rounded p/blasts						
			« 50.44- 53.15 Mafic-dyke 80-50°» bright green due to «50.44-52.80 cr-mica 3.0%», mottled appearance due to « ank 25%» 1-2mm diffuse spots						
			« 53.15- 53.52 Volcanic » Jig saw texture, « sil »	VA10084603	I088053	30.5	32	0.01	
			« 53.52- 55.00 Mafic-dyke -45.00°0°» « cr-mica 3.0%»						
			« 55.00- 57.85 Felsic Volcanic? » light to med grey, « ser 25.00%»						
			« ank 20%» as 1-3mm spots locally rusty due to weathering	VA10084603	I088054	32	33.5	0.01	
			« 57.85- 81.75 Mafic Tuff » mafic dyke mixed with tufaceous rock, patchy « cr-mica 1.0%» « ser 10.00%» « chl 1.0%»						
35			« 63.00- 65.00 ank 25%» 5 mm rounded p/lasts	VA10084603	I088055	33.5	35	0.01	
			‹ @ 65.45 QV2 50° 2.7cm › crb						
			‹ @ 71.60 S0 40° › ‹ @ 72.00 S0 75° › « ser 80.00%»						
			« 71.60- 72.00 ank 30%» 1-3 mm spots	VA10084603	I088056	35	36.5	0.01	
			‹ @ 78.00 QV2 90° 11.0cm ›						
			« 78.40- 79.00 cr-mica 2.0%»	VA10084603	I088058	36.5	38	0.01	
			« 79.41- 81.50 FZ 70°» rubble, ‹ @ 81.00 LC 0.40m ›						
40			« 81.75- 87.00 Tuff » jig saw texture, broken th/out, « sil 1.0%», cut by grey qz veins, patchy « ser 20.00%», « chl 1.0%» as fracture coating	VA10084603	I088059	38	39.5	0.01	
				VA10084603	I088060	39.5	41	0.01	
				VA10084603	I088062	41	42.5	0.01	
				VA10084603	I088063	42.5	44	0.01	
45				VA10084603	I088064	44	45.5	0.01	
				VA10084603	I088065	45.5	47	0.01	
				VA10084603	I088066	47	48.5	0.01	
				VA10084603	I088067	48.5	50	0.01	

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

	Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
		Med grey siltstone (30%) with sections of mafic volcanic rock (40%) and crystall lithic ash tuff, (30%), volcanic rock more mafic in composition as evidenced from chrome-mica and chlorite selective alteration alternate with fg felsic folcanic rock moderately to strongly ser-carb altered and cut by grey qz veinlets, carbonate alteration as 5-7 mm rounded p/blasts (10%) primarily affects fg var sericitized felsic volcanic rock, while 1-3 mm diffuse ankerite overprint is featured for chrome-mica altered mafic volcanic.	VA10084603	I088067	48.5	50	0.01	
		Limonite fracture coating is observed to depth of 81m, weathered rusty	VA10084603	I088069	50	51.5	0.01	
		ankerite spotting expands to 73 m.						
		Overall pyrite make 1% as cubes th/out.						
		Volcanic rock sections are cut by fractured qz-carb veins w/out sulphides	VA10084603	I088070	51.5	53	0.01	
		« 14.00- 25.00 bkn » ‹ @ 22.60 LC 0.20m ›						
		‹ @ 18.40 S0 25° ›	VA10084603	I088071	53	54.5	0.01	
		« 15.00- 16.20 Siltstone 0°» ‹ @ 25.00 S0 25° ›						
55		« 17.85- 19.00 Mafic-dyke »						
		« 19.00- 20.00 Tuff »	VA10084603	I088072	54.5	56	0.01	
		« 14.32- 17.40 FZ 0°» broken core, rubble	VA10084603	I088073	56	57.5	0.01	
		« 20.00- 26.30 Siltstone » med to light grey, leached due to « ser 35.00%», « ank 3%» as 3-5 mm rusty spots						
		« 15.80- 16.00 FZ 75-45°»						
		« 26.30- 26.65 Mafic-dyke 70-60°» irregular contacts, 10% mafic minerals, « cr-mica 1.0%»	VA10084603	I088074	57.5	59	0.01	
		« 26.65- 27.10 Felsic Volcanic? » light grey, cut by network of grey qz veins						
		« 26.65- 29.00 ank 10%» 2-5 mm rusty p/blasts						
60		« 29.00- 29.57 FZ 60°» gouge, rubble	VA10084603	I088075	59	60.5	0.01	
		‹ @ 30.00 QV2 35° 33.0cm ›						
		« 30.30- 32.65 Tuff 0°» jig saw texture, with 10 cm patches of						
		« 31.25- 31.35 cr-mica 2.0%»	VA10084603	I088076	60.5	62	0.01	
		‹ @ 31.60 S0 70° ›						
		‹ @ 33.80 QV2 20° 4.0cm › crb						
		« 32.65- 33.70 Mafic-dyke 0°» « cr-mica 2.0%»	VA10084603	I088078	62	63.5	0.01	
		« 33.70- 38.50 Volcanic » jig saw texture						
		« 36.50- 37.85 ser 60.00%» whitish, « ank 10%» 3-7 mm rounded p/lasts, 10% grey qz stylolites						
		« 38.50- 43.00 Mafic-dyke » « cr-mica 2.0%» grey network	VA10084603	I088079	63.5	65	0.01	
65		‹ @ 41.00 QV2 50° 15.0cm ›						
		« 43.00- 44.32 Crystal Tuff 0°» med grey, plag-qz crysts, patchy « sil »						
		« 44.95- 50.44 Felsic Volcanic? » light to med grey fg, cut y anastomosing 1-3 mm grey qz veins, « ank 20%» 3-6 mm ragged rounded p/blasts						
		« 50.44- 53.15 Mafic-dyke 80-50°» bright green due to «50.44-52.80 cr-mica 3.0%», mottled appearance due to « ank 25%» 1-2mm diffuse spots	VA10084603	I088080	65	66.5	0.01	
		« 53.15- 53.52 Volcanic » Jig saw texture, « sil »						
		« 53.52- 55.00 Mafic-dyke -45.00°0°» « cr-mica 3.0%»						
		« 55.00- 57.85 Felsic Volcanic? » light to med grey, « ser 25.00%»	VA10084603	I088082	66.5	68	0.01	
		« ank 20%» as 1-3mm spots locally rusty due to weathering						
		« 57.85- 81.75 Mafic Tuff » mafic dyke mixed with tufaceous rock, patchy « cr-mica 1.0%» « ser 10.00%» « chl 1.0%»	VA10084603	I088083	68	69.5	0.01	
70		« 63.00- 65.00 ank 25%» 5 mm rounded p/lasts						
		‹ @ 65.45 QV2 50° 2.7cm › crb						
		‹ @ 71.60 S0 40° › ‹ @ 72.00 S0 75° › « ser 80.00%»	VA10084603	I088084	69.5	71	0.01	
		« 71.60- 72.00 ank 30%» 1-3 mm spots						
		‹ @ 78.00 QV2 90° 11.0cm ›	VA10084603	I088085	71	72.5	0.01	
		« 78.40- 79.00 cr-mica 2.0%»						
		« 79.41- 81.50 FZ 70°» rubble, ‹ @ 81.00 LC 0.40m ›	VA10084603	I088086	72.5	74	0.01	
		« 81.75- 87.00 Tuff » jig saw texture, broken th/out, « sil 1.0%», cut by grey qz veins, patchy « ser 20.00%», « chl 1.0%» as fracture coating						
75			VA10084603	I088088	74	75.5	0.01	
			VA10084603	I088089	75.5	77	0.01	
			VA10084603	I088090	77	78.5	0.01	
			VA10084603	I088091	78.5	80	0.01	
80			VA10084603	I088092	80	81.5	0.01	
			VA10084603	I088093	81.5	83	0.01	
			VA10084603	I088094	83	84.5	0.01	
85			VA10084603	I088095	84.5	86	0.01	
			VA10084603	I088097	86	87.5	0.01	
			VA10084603	I088098	87.5	89.5	0.01	
90			VA10084603	I088099	89.5	92.5	0.01	
			VA10084603	I088100	92.5	94	0.01	
			VA10084603	I088101	94	95.5	0.01	
95			VA10084603	I088103	95.5	97.5	0.01	
	Siltstone w/ MD		VA10084603	I088104	97.5	99	0.01	
			VA10084603	I088105	99	100.7	0.01	
	Fault	Fault consists of str broken gouged jig saw tuff, cr-mica altered mafic volcanic rock and sericitized poss felsic volcanics cut by abundant qz veinlets, several sections of lost core						
		‹ @ 89.00 LC 1.00m ›, ‹ @ 91.00 LC 1.20m ›, ‹ @ 96.00 LC 0.40m ›						
		‹ @ 99.67 LC 0.65m ›						



Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

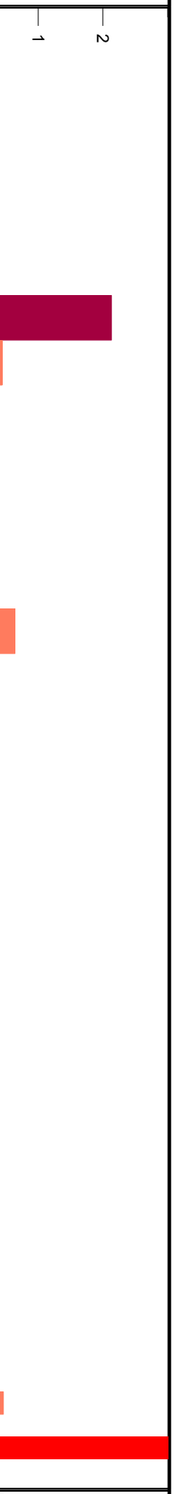
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
100	Fault	Fault consists of str broken gouged jig saw tuff, cr-mica altered mafic volcanic rock and sericitized poss felsic volcanics cut by abundant qz veinlets, several sections of lost core ‹ @ 89.00 LC 1.00m ›, ‹ @ 91.00 LC 1.20m ›, ‹ @ 96.00 LC 0.40m › ‹ @ 99.67 LC 0.65m ›	VA10084603	I088105	99	100.7	0.01
			VA10084603	I088106	100.7	102.5	0.01
			VA10084603	I088108	102.5	104	0.01
105			VA10084603	I088109	104	105.5	0.01
		Light to med grey varialy bleached due to sericite alteration siltstone with sections of cr-mica altered mafic volcanic and str sericitized and weakly silicified possible fg felsic volcanic rock, bedding at 30-65 deg tca, weak chlorite alteration overprint, negligible pyrite content, abundant anastomosing barren qz veins.	VA10084603	I088110	105.5	107	0.01
		« 107.00- 108.00 bkn »	VA10084603	I088111	107	108.5	0.01
		« 107.80- 110.40 Felsic Volcanic » pale whitish with fracture controlled « chl 1.0%» « sil 2.0%» , « ank 30%» as 1-5 mm rounded p/lasts, « ser 50.00%» Note: 109-110 alternating med grey and whitish bands, « ank 1%» mm spots tend to concentrate ‹ @ 108.90 S0 30° › ‹ @ 110.25 S0 65° › « 110.40- 111.10 FZ 80-70°» rubble, gouge	VA10084603	I088112	108.5	110	0.01
110		Note: 112-118 light to med grey siltstone, « ank 10%» 5 mm spots some weathered out « 118.00- 119.80 Mafic-dyke -25°0°» « cr-mica 1.0%» ‹ @ 118.40 QV2 22° 1.0cm › « 119.00- 124.00 py 0.5%» sparce cubes th/out « 124.40- 126.30 Felsic Volcanic? 65°» light grey, cut by abundant grey qz veins, « chl 2.0%» « 126.30- 128.00 Mafic-dyke » « cr-mica 1.0%» « 128.00- 131.70 Felsic Volcanic? » light grey, « 131.0-131.7 chl 3.0%» « ank 10%» 2-5 mm ‹ @ 130.70 QV2 0° 10.0cm ›	VA10084603	I088113	110	111.5	0.01
			VA10084603	I088114	111.5	113	0.01
			VA10084603	I088116	113	114.5	0.01
115		« 134.00- 136.00 bkn » broken core, rubble, ‹ @ 134.00 LC 0.30m › « 135.20- 143.15 Mafic-dyke » « cr-mica 2.0%» « py 0.5%» « 142.50- 143.15 bkn » ‹ @ 143.15 QV2 33° 20.0cm ›	VA10084603	I088117	114.5	116	0.01
			VA10084603	I088118	116	117.5	0.01
			VA10084603	I088119	117.5	119	0.01
120			VA10084603	I088121	119	120.5	0.01
			VA10084603	I088122	120.5	122	0.01
			VA10084603	I088123	122	123.5	0.01
	Siltstone w/ MD / Tuff		VA10084603	I088124	123.5	125	0.01
125			VA10084603	I088125	125	126.5	0.01
			VA10084603	I088127	126.5	128	0.01
			VA10084603	I088128	128	129.5	0.01
130			VA10084603	I088129	129.5	131	0.01
			VA10084603	I088130	131	132.5	0.01
			VA10084603	I088131	132.5	134	0.01
135			VA10084603	I088132	134	135.5	0.01
			VA10084603	S07-48795	135.5	137	0.01
			VA10084603	I088133	137	138.85	0.01
140		Dark grey to black argillite exhibiting planar bedding, short sections with mod contorted bedding, unit is cut by rare 3-5 mm qz veinlets, total « py 3.0%». Visible gold is found @179.4m. « 143.50- 145.20 bkn »	VA10084603	I088134	138.85	140.5	0.01
		« 149.91- 150.00 FZ 45-50°» Note: 150-155 deformed bedding ‹ @ 150.20 S0 45° › ‹ @ 155.60 S0 40° ›	VA10084603	I088135	140.5	142	0.01
		« 155.60- 156.00 Siltstone » « 156.10- 156.60 bkn »	VA10084603	I088137	142	143.5	0.01
		« 165.15- 164.30 bkn » ‹ @ 168.20 S0 30° › ‹ @ 172.10 S0 35° ›	VA10084603	I088138	143.5	145	0.16
145	Cat.1 Argillite	« 173.00- 179.30 FZ 45°» ‹ @ 178.92 LC 0.50m › ‹ @ 179.40 QV3 6° 9.0cm › ‹ @ 179.40 gal 2.0% › ‹ @ 179.40 sph 1.0% › ‹ @ 179.40 VG › ‹ @ 180.00 S0 20° ›, ‹ @ 181.20 S0 30° › ‹ @ 182.00 S0 30° ›	VA10084603	I088139	145	146.5	0.46
		« 184.20- 192.00 FZ 30°» ruble, gouge, ‹ @ 185.00 gal 1.0% › in qz rubble ‹ @ 188.50 S0 20° › « 189.20- 189.30 cpy 0.5%» ‹ @ 189.20 QV3 0° 0.7cm ›	VA10084603	I088140	146.5	148	0.31
			VA10084603	I088142	148	149.5	0.27

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Dark grey to black argillite exhibiting planar bedding, short sections with mod contorted bedding, unit is cut by rare 3-5 mm qz veinlets, total « py 3.0%». Visible gold is found @179.4m.	VA10084603	I088142	148	149.5	0.27
150		« 143.50- 145.20 bkn »					
		« 149.91- 150.00 FZ 45-50°»	VA10084603	I088143	149.5	151	0.17
		Note: 150-155 deformed bedding					
		‹ @ 150.20 S0 45° › ‹ @ 155.60 S0 40° ›	VA10084603	I088144	151	152.5	0.14
		« 155.60- 156.00 Siltstone »					
		« 156.10- 156.60 bkn »	VA10084603	I088145	152.5	154	0.2
		« 165.15- 164.30 bkn »					
		‹ @ 168.20 S0 30° › ‹ @ 172.10 S0 35° ›	VA10084603	I088146	154	155.5	0.19
155		Med grey crystal lithic tuff with minor siltstone and argillite beds, lithic frgms vary in size from 0.5 to 3.5 cm, 1-4 mm qz and plag crysts, bedding within tuff is from 8 to 30 deg TCA and about 50-60 deg tca with sediments. Competent rock hard to break with hammer, but mixed zone with sediments is usually broken or faulted. Averaged pyrite is « py 1.0%» as 0.5-1.0 cm cubes th/out, with ncrease up to 3% observed at the contact with argillite. Chlorite 1% is encountered as fracture coat and rimming ankerite p/blasts. Fronts of sericitic alteration are usually marked by 1-2mm transparent qz veins at 50 deg tca. Quartz stockwork is observed in near proximity to fault zones. Carbonate alteration developed in two stages: ankerite 1-3 mm ragged rounded p/blasts varialy degraded up to 35% and 2mm rhombs affecting argillite and siltstone. Unit is cut by 3-20 cm qz veins at 40-70 deg TCA , often veins cut bedding.Visible gold is found @ 295.30, 301.82 and 304.67m. Several occurences of base metals.	VA10084603	I088147	155.5	157	0.12
		Note: 192-192.7 argillaceous siltstone mixed w tuff, qz stockwork	VA10084603	I088149	157	158.5	0.25
		‹ @ 194.85 QV2 50° 7.0cm › broken					
		‹ @ 195.60 QV2 70° 2.0cm › ‹ @ 195.60 sph 0.3% ›					
		‹ @ 197.90 S0 20° ›	VA10084603	I088150	158.5	160	0.14
160		‹ @ 196.50 QV3 50° 3.5cm › ‹ @ 196.50 sph 2.0% › « cpy 1.0%»					
		« 196.50- 196.70 bkn »	VA10084603	I088151	160	161.5	0.12
		‹ @ 199.80 S0 47° › ‹ @ 205.00 S0 26° ›					
		« 205.00- 205.50 Siltstone 26-20°» argillaceous, dark grey, « stringers 3% 1.0 mm»	VA10084603	I088152	161.5	163	0.2
		‹ @ 207.45 QV3 50° 22.0cm › barren					
		‹ @ 208.24 QV3 55° 1.3cm › broken					
		‹ @ 208.44 S0 30° ›	VA10084603	I088153	163	164.5	0.16
		« 208.44- 209.50 Argillite 30-33°» black , « py 3.0%» as aggregates of cubes, « ank 20%» as 2mm rhombs, ‹ @ 208.90 S0 12° ›					
165		« 209.50- 209.80 py 3.0%» 2-7 mm cubes, below the argillite bed	VA10084603	I088154	164.5	166	0.23
		‹ @ 203.50 QV3 50° 7.0cm › ‹ @ 211.70 S0 8° ›					
		« 212.45- 213.00 bkn » broken, « cpy 1.0%» in 1 cm broken qz vein					
		‹ @ 218.00 QV2 53° 2.3cm › ‹ @ 218.20 S0 15° › ‹ @ 219.00 S0 10° ›	VA10084603	I088155	166	167.5	0.21
		« 219.75- 219.82 bkn » «cpy 0.5%», ‹ @ 219.75 sph 0.5% ›, ‹ @ 219.75 gal 0.2% ›					
		« 220.80- 223.10 bkn »	VA10084603	I088157	167.5	169	0.22
		« 223.20- 226.10 Siltstone » med grey, « ank 30%» as 5% degraded 5 mm rounded p/lasts and 30% 1mm rhombs, « stringers 2% 0.1cm»					
		« 224.90- 225.20 bkn »					
170	Cat.1 Argillite	‹ @ 226.00 S0 10° › offset by veins at 62 deg tca	VA10084603	I088158	169	170.5	0.22
		« 227.00- 234.50 py 2.0%» 3-6 mm cubes					
		‹ @ 235.40 S0 30° ›	VA10084603	I088159	170.5	172	0.16
		« 235.42- 235.70 bkn » « 239.50- 239.90 bkn »					
		‹ @ 242.06 S0 45° › ‹ @ 243.00 S0 40° ›	VA10084603	I088160	172	173.5	0.18
		« 243.10- 244.91 ank 40%»					
		‹ @ 243.20 QV3 60° 2.0cm › « 243.20- 243.21 cpy 1.5%»	VA10084603	I088161	173.5	175	0.15
175		‹ @ 244.20 S0 20° ›					
		‹ @ 243.44 QV3 50° 0.6cm › «cpy 1.0%» ‹ @ 243.44 sph 1.5% ›					
		‹ @ 244.90 QV3 35° 1.0cm › «cpy 1.0%», ‹ @ 244.90 sph 1.0% ›					
		‹ @ 246.62 QV3 60° 17.0cm › « cpy 2.0%»	VA10084603	I088163	175	176.5	0.19
		« 246.90 cpy 2.0%» ‹ @ 246.90 sph 1.0% › in broken qz vein					
		‹ @ 248.20 QV3 27° 3.3cm › ‹ @ 248.20 gal 1.0% ›					
		« 248.20- 248.21 cpy 1.0%»	VA10084603	I088164	176.5	178	0.18
		‹ @ 248.50 S0 20° › ‹ @ 250.10 S0 27° › ‹ @ 250.60 S0 30° ›					
		« 250.00- 252.00 stringers 3% 0.2cm» dismembered, transposed	VA10084603	I088165	178	179.5	1.1
		‹ @ 251.70 S0 15° › ‹ @ 252.07 S0 20° › ‹ @ 252.27 S0 22° ›					
180		« 252.40- 255.25 chl 2.0%» rims around ankerite	VA10084603	I088166	179.5	181	1.41
		« 257.00- 260.70 ank 30%» 2-5 mm rounded p/blasts and 1-2mm rhombs					
		‹ @ 260.70 S0 20° › ‹ @ 261.80 S0 70° › ‹ @ 263.15 S0 60° ›					
		« 264.50- 264.80 bkn » broken qz vein with Py	VA10084603	I088168	181	182.5	0.19
		‹ @ 265.35 S0 30° › ‹ @ 267.55 S0 50° ›					
		‹ @ 267.70 QV3 50° 2.2cm › ‹ @ 267.70 gal 1.0% › « cpy 1.0%»	VA10084603	I088169	182.5	184	0.48
		‹ @ 270.05 QV3 0° 13.0cm › broken					
		« 270.60- 271.50 bkn » rubble, broken qz veins					
		« 271.50- 272.40 qz veins 50-60° 1-20cm»					
185		« 277.25- 277.40 qz veins » anastomosing with crb	VA10084603	I088170	184	185.5	0.82
		« 275.10- 275.30 bkn » broken qz vei with Py rubble					
		« 276.75- 277.15 FZ 30°» rubble					
		« 278.06- 279.37 FZ 50°»rule, broken qz veins with Pyritohedrons and well developed qz crysts in vugs	VA10084603	I088171	185.5	187	0.55
		‹ @ 280.50 S0 40° ›					
		‹ @ 281.48 QV3 73° 6.0cm › « cpy 0.5%» ‹ @ 281.48 sph 2.0% ›					
		‹ @ 281.60 QV3 48° 10.0cm › ‹ @ 281.60 sph 0.5% ›	VA10084603	I088172	187	188.5	0.28
		« 282.55- 286.80 ser 70.00%» ‹ @ 288.75 QV3 72° 0.7cm › « 288.75 cpy 1.0%»					
		‹ @ 289.20 QV3 50° 13.0cm › ‹ @ 289.20 gal 1.0% › ‹ @ 289.20 sph 1.0% ›	VA10084603	I088173	188.5	190	0.24
190		« 289.20- 289.21 cpy 2.0%»					
		‹ @ 293.75 QV3 60° 4.0cm › ‹ @ 293.75 gal 1.5% › ‹ @ 293.75 cpy 1.5% ›					
		‹ @ 295.30 QV3 20° 15.0cm › ‹ @ 295.30 sph 2.0% › ‹ @ 295.30 VG ›	VA10084603	I088174	190	191.5	0.75
		‹ @ 295.30 cpy 6.0% ›					
		‹ @ 295.75 QV3 23° 1.5cm › ‹ @ 295.75 cpy 1.0% ›					
		« 296.60- 297.30 ank 35%» 1-3mm rhombs and rounded p/blasts					
		« 297.55- 300.30 Siltstone » med grey, ankerite dusting, does not react to HCL, ‹ @ 300.30 S0 30° i	VA10084603	I088176	191.5	193	0.17
		‹ @ 299.15 QV3 70° 1.2cm › ‹ @ 299.15 sph 1.0% › ‹ @ 299.15 cpy 2.0% ›					
		‹ @ 301.60 QV3 60° 1.0cm › ‹ @ 301.60 cpy 1.0% ›	VA10084603	I088177	193	194.5	0.06
		‹ @ 301.82 QV3 57° 5.0cm › ‹ @ 301.82 sph 3.0% › ‹ @ 301.82 cpy 1.0% ›					
195	Crystal Lithic Tuff	‹ @ 301.82 VG › , Py 3%	VA10084603	I088178	194.5	196	0.35
		« 300.80- 304.00 ser 50.00%»					
		« 304.30- 304.60 stringers 5% 0.3cm» var oriented,	VA10084603	I088179	196	197.5	1.12
		‹ @ 304.67 QV3 0° 1.6cm › broken, ‹ @ 304.67 VG › ‹ @ 304.67 sph 1.5% ›					
		‹ @ 308.80 S0 20° › ‹ @ 310.20 S0 60° ›					
		Note: 311.8-312.15 brecciated, deformed bedding	VA10084603	I088180	197.5	199	0.01

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	**Geochemistry**				
200	Crystal Lithic Tuff	Med grey crystal lithic tuff with minor siltstone and argillite beds, lithic frgms vary in size from 0.5 to 3.5 cm, 1-4 mm qz and plag crysts, bedding within tuff is from 8 to 30 deg TCA and about 50-60 deg tca with sediments. Competent rock hard to break with hammer, but mixed zone with sediments is usually broken or faulted. Averaged pyrite is « py 1.0%» as 0.5-1.0 cm cubes th/out, with ncrease up to 3% observed at the contact with argillite. Chlorite 1% is encountered as fracture coat and rimming ankerite p/blasts. Fronts of sericitic alteration are usually marked by 1-2mm transparent qz veins at 50 deg tca. Quartz stockwork is observed in near proximity to fault zones. Carbonate alteration developed in two stages: ankerite 1-3 mm ragged rounded p/blasts varialy degraded up to 35% and 2mm rhombs affecting argillite and siltstone. Unit is cut by 3-20 cm qz veins at 40-70 deg TCA , often veins cut bedding.Visible gold is found @ 295.30, 301.82 and 304.67m. Several occurences of base metals.	VA10084603	I088180	197.5	199	0.01
		Note: 192-192.7 argillaceous siltstone mixed w tuff, qz stockwork	VA10084603	I088182	199	200.5	0.01
		‹ @ 194.85 QV2 50° 7.0cm › broken ‹ @ 195.60 QV2 70° 2.0cm › ‹ @ 195.60 sph 0.3% › ‹ @ 197.90 S0 20° › ‹ @ 196.50 QV3 50° 3.5cm › ‹ @ 196.50 sph 2.0% › « cpy 1.0%»	VA10084603	I088183	200.5	202	0.01
		« 196.50- 196.70 bkn » ‹ @ 199.80 S0 47° › ‹ @ 205.00 S0 26° ›	VA10084603	I088184	202	203.5	0.1
205		« 205.00- 205.50 Siltstone 26-20°» argillaceous, dark grey, « stringers 3% 1.0 mm» ‹ @ 207.45 QV3 50° 22.0cm › barren ‹ @ 208.24 QV3 55° 1.3cm › broken ‹ @ 208.44 S0 30° ›	VA10084603	I088185	203.5	205	0.01
		« 208.44- 209.50 Argillite 30-33°» black , « py 3.0%» as aggregates of cubes, « ank 20%» as 2mm rhombs, ‹ @ 208.90 S0 12° ›	VA10084603	I088186	205	206.5	0.07
		« 209.50- 209.80 py 3.0%» 2-7 mm cubes, below the argillite bed ‹ @ 203.50 QV3 50° 7.0cm › ‹ @ 211.70 S0 8° › « 212.45- 213.00 bkn » broken, « cpy 1.0%» in 1 cm broken qz vein	VA10084603	I088187	206.5	208	0.12
210		‹ @ 218.00 QV2 53° 2.3cm › ‹ @ 218.20 S0 15° › ‹ @ 219.00 S0 10° ›	VA10084603	I088189	208	209.5	2.13
		« 219.75- 219.82 bkn » «cpy 0.5%», ‹ @ 219.75 sph 0.5% ›, ‹ @ 219.75 gal 0.2% › « 220.80- 223.10 bkn » « 223.20- 226.10 Siltstone » med grey, « ank 30%» as 5% degraded 5 mm rounded p/lasts and 30% 1mm rhombs, « stringers 2% 0.1cm»	VA10084603	I088190	209.5	211	0.44
		« 224.90- 225.20 bkn » ‹ @ 226.00 S0 10° › offset by veins at 62 deg tca « 227.00- 234.50 py 2.0%» 3-6 mm cubes	VA10084603	I088191	211	212.5	0.01
215		‹ @ 235.40 S0 30° ›	VA10084603	I088192	212.5	214	0.11
		« 235.42- 235.70 bkn » « 239.50- 239.90 bkn » ‹ @ 242.06 S0 45° › ‹ @ 243.00 S0 40° › « 243.10- 244.91 ank 40%»	VA10084603	I088193	214	215.5	0.08
		‹ @ 243.20 QV3 60° 2.0cm › « 243.20- 243.21 cpy 1.5%» ‹ @ 244.20 S0 20° › ‹ @ 243.44 QV3 50° 0.6cm › «cpy 1.0%» ‹ @ 243.44 sph 1.5% › ‹ @ 244.90 QV3 35° 1.0cm › «cpy 1.0%», ‹ @ 244.90 sph 1.0% › ‹ @ 246.62 QV3 60° 17.0cm › « cpy 2.0%»	VA10084603	I088194	215.5	217	0.01
220		« 246.90 cpy 2.0%» ‹ @ 246.90 sph 1.0% › in broken qz vein ‹ @ 248.20 QV3 27° 3.3cm › ‹ @ 248.20 gal 1.0% › « 248.20- 248.21 cpy 1.0%» ‹ @ 248.50 S0 20° › ‹ @ 250.10 S0 27° › ‹ @ 250.60 S0 30° ›	VA10084603	I088195	217	218.5	0.13
		« 250.00- 252.00 stringers 3% 0.2cm» dismembered, transposed ‹ @ 251.70 S0 15° › ‹ @ 252.07 S0 20° › ‹ @ 252.27 S0 22° › « 252.40- 255.25 chl 2.0%» rims around ankerite	VA10084603	I088196	218.5	220	0.64
		« 257.00- 260.70 ank 30%» 2-5 mm rounded p/blasts and 1-2mm rhombs ‹ @ 260.70 S0 20° › ‹ @ 261.80 S0 70° › ‹ @ 263.15 S0 60° ›	VA10084603	I088198	220	221.5	0.01
225		« 264.50- 264.80 bkn » broken qz vein with Py ‹ @ 265.35 S0 30° › ‹ @ 267.55 S0 50° › ‹ @ 267.70 QV3 50° 2.2cm › ‹ @ 267.70 gal 1.0% › « cpy 1.0%» ‹ @ 270.05 QV3 0° 13.0cm › broken	VA10084603	I088199	221.5	223	0.01
		« 270.60- 271.50 bkn » rubble, broken qz veins « 271.50- 272.40 qz veins 50-60° 1-20cm» « 277.25- 277.40 qz veins » anastomosing with crb « 275.10- 275.30 bkn » broken qz vei with Py rubble « 276.75- 277.15 FZ 30°» rubble	VA10084603	I088200	223	224.5	0.07
		« 278.06- 279.37 FZ 50°»rule, broken qz veins with Pyritohedrons and well developed qz crysts in vugs ‹ @ 280.50 S0 40° ›	VA10084603	I088201	224.5	226	0.01
230		‹ @ 281.48 QV3 73° 6.0cm › « cpy 0.5%» ‹ @ 281.48 sph 2.0% › ‹ @ 281.60 QV3 48° 10.0cm › ‹ @ 281.60 sph 0.5% ›	VA10084602	I088202	226	227.5	0.01
		« 282.55- 286.80 ser 70.00%» ‹ @ 288.75 QV3 72° 0.7cm › « 288.75 cpy 1.0%» ‹ @ 289.20 QV3 50° 13.0cm › ‹ @ 289.20 gal 1.0% › ‹ @ 289.20 sph 1.0% › « 289.20- 289.21 cpy 2.0%»	VA10084602	I088203	227.5	229	0.05
		‹ @ 293.75 QV3 60° 4.0cm › ‹ @ 293.75 gal 1.5% › ‹ @ 293.75 cpy 1.5% › ‹ @ 295.30 QV3 20° 15.0cm › ‹ @ 295.30 sph 2.0% › ‹ @ 295.30 VG ›	VA10084602	I088204	229	230.5	0.025
235		‹ @ 295.30 cpy 6.0% › ‹ @ 295.75 QV3 23° 1.5cm › ‹ @ 295.75 cpy 1.0% › « 296.60- 297.30 ank 35%» 1-3mm rhombs and rounded p/blasts	VA10084602	I088205	230.5	232	0.27
		« 297.55- 300.30 Siltstone » med grey, ankerite dusting, does not react to HCL, ‹ @ 300.30 S0 30° i	VA10084602	I088207	232	233.5	0.17
		‹ @ 299.15 QV3 70° 1.2cm › ‹ @ 299.15 sph 1.0% › ‹ @ 299.15 cpy 2.0% › ‹ @ 301.60 QV3 60° 1.0cm › ‹ @ 301.60 cpy 1.0% › ‹ @ 301.82 QV3 57° 5.0cm › ‹ @ 301.82 sph 3.0% › ‹ @ 301.82 cpy 1.0% ›	VA10084602	I088208	233.5	235	0.025
		‹ @ 301.82 VG › , Py 3%	VA10084602	I088209	235	236.5	0.025
240		« 300.80- 304.00 ser 50.00%» « 304.30- 304.60 stringers 5% 0.3cm» var oriented, ‹ @ 304.67 QV3 0° 1.6cm › broken, ‹ @ 304.67 VG › ‹ @ 304.67 sph 1.5% › ‹ @ 308.80 S0 20° › ‹ @ 310.20 S0 60° ›	VA10084602	I088210	236.5	238	0.025
		Note: 311.8-312.15 brecciated, deformed bedding	VA10084602	I088212	238	239.5	0.05
		« 315.00- 316.00 bkn » broken siltstone, tuff and qz veins ‹ @ 316.10 QV3 50° 3.5cm › ‹ @ 316.10 cpy 3.0% › ‹ @ 316.30 QV3 70° 2.2cm ›	VA10084602	I088213	239.5	241	0.025
			VA10084602	I088214	241	242.5	0.025
		« 319.13- 319.40 bkn » « 323.20- 323.40 bkn » Note: 326-330 tuff mixed up with siltstone, « 326.00- 330.00 chl 1.0%» « 327.50- 328.10 FZ 0°» rubble, gouge	VA10084602	I088216	242.5	244	0.32
245		« 321.70- 325.20 ser 40.00%» light pale, intensity of alteration drops down at 325.20m and front is marked y 1 mm qz vein @50 deg tca	VA10084602	I088217	244	244.75	0.025
		« 334.37- 336.75 FZ 70-75°» rubble, broken qz veins, <20cm competent locks, gouge, « chl 1.0%» as fracture coating	VA10084602	I088218	244.75	245.5	0.46
			VA10084602	I088219	245.5	246.25	0.22
			VA10084602	I088220	246.25	247	30.4
			VA10084602	I088222	247	248.5	0.28



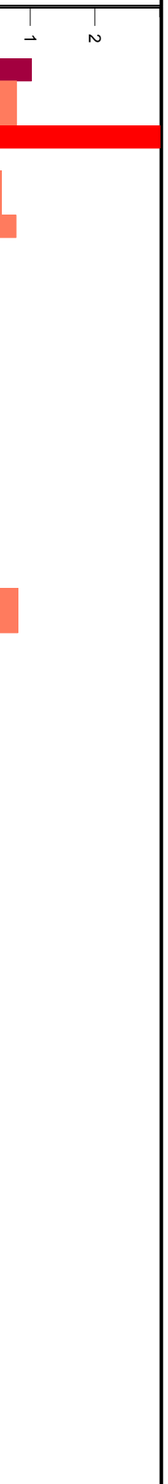
Scale 1:200	Start Depth :198.38	End Depth :247.98	Page No.: 5

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	Geochemistry				
250		Med grey crystal lithic tuff with minor siltstone and argillite beds, lithic frgms vary in size from 0.5 to 3.5 cm, 1-4 mm qz and plag crysts, bedding within tuff is from 8 to 30 deg TCA and about 50-60 deg tca with sediments. Competent rock hard to break with hammer, but mixed zone with sediments is usually broken or faulted. Averaged pyrite is « py 1.0%» as 0.5-1.0 cm cubes th/out, with ncrease up to 3% observed at the contact with argillite. Chlorite 1% is encountered as fracture coat and rimming ankerite p/blasts. Fronts of sericitic alteration are usually marked by 1-2mm transparent qz veins at 50 deg tca. Quartz stockwork is observed in near proximity to fault zones. Carbonate alteration developed in two stages: ankerite 1-3 mm ragged rounded p/blasts varialy degraded up to 35% and 2mm rhombs affecting argillite and siltstone. Unit is cut by 3-20 cm qz veins at 40-70 deg TCA , often veins cut bedding.Visible gold is found @ 295.30, 301.82 and 304.67m. Several occurences of base metals.	VA10084602	I088222	247	248.5	0.28
			VA10084602	I088223	248.5	250	0.025
		Note: 192-192.7 argillaceous siltstone mixed w tuff, qz stockwork	VA10084602	I088224	250	251.5	0.025
		‹ @ 194.85 QV2 50° 7.0cm › broken ‹ @ 195.60 QV2 70° 2.0cm › ‹ @ 195.60 sph 0.3% › ‹ @ 197.90 S0 20° › ‹ @ 196.50 QV3 50° 3.5cm › ‹ @ 196.50 sph 2.0% › « cpy 1.0%»	VA10084602	I088225	251.5	253	0.07
		« 196.50- 196.70 bkn » ‹ @ 199.80 S0 47° › ‹ @ 205.00 S0 26° ›	VA10084602	I088226	253	254.5	0.025
255		« 205.00- 205.50 Siltstone 26-20°» argillaceous, dark grey, « stringers 3% 1.0 mm» ‹ @ 207.45 QV3 50° 22.0cm › barren ‹ @ 208.24 QV3 55° 1.3cm › broken ‹ @ 208.44 S0 30° ›	VA10084602	I088227	254.5	256	0.025
		« 208.44- 209.50 Argillite 30-33°» black , « py 3.0%» as aggregates of cubes, « ank 20%» as 2mm rhombs, ‹ @ 208.90 S0 12° ›	VA10084602	I088228	256	257.5	0.025
		« 209.50- 209.80 py 3.0%» 2-7 mm cubes, below the argillite bed ‹ @ 203.50 QV3 50° 7.0cm › ‹ @ 211.70 S0 8° ›	VA10084602	I088230	257.5	259	0.025
260		« 212.45- 213.00 bkn » broken, « cpy 1.0%» in 1 cm broken qz vein ‹ @ 218.00 QV2 53° 2.3cm › ‹ @ 218.20 S0 15° › ‹ @ 219.00 S0 10° ›	VA10084602	I088231	259	260.5	0.025
		« 219.75- 219.82 bkn » «cpy 0.5%», ‹ @ 219.75 sph 0.5% ›, ‹ @ 219.75 gal 0.2% › « 220.80- 223.10 bkn »	VA10084602	I088232	260.5	262	0.025
		« 223.20- 226.10 Siltstone » med grey, « ank 30%» as 5% degraded 5 mm rounded p/lasts and 30% 1mm rhombs, « stringers 2% 0.1cm» « 224.90- 225.20 bkn » ‹ @ 226.00 S0 10° › offset by veins at 62 deg tca	VA10084602	I088233	262	263.5	0.025
		« 227.00- 234.50 py 2.0%» 3-6 mm cubes ‹ @ 235.40 S0 30° ›	VA10084602	I088234	263.5	265	0.025
265		« 235.42- 235.70 bkn » « 239.50- 239.90 bkn » ‹ @ 242.06 S0 45° › ‹ @ 243.00 S0 40° ›	VA10084602	I088235	265	266.5	0.025
		« 243.10- 244.91 ank 40%» ‹ @ 243.20 QV3 60° 2.0cm › « 243.20- 243.21 cpy 1.5%» ‹ @ 244.20 S0 20° ›	VA10084602	I088237	266.5	267.5	0.13
		‹ @ 243.44 QV3 50° 0.6cm › «cpy 1.0%» ‹ @ 243.44 sph 1.5% › ‹ @ 244.90 QV3 35° 1.0cm › «cpy 1.0%», ‹ @ 244.90 sph 1.0% ›	VA10084602	I088238	267.5	268.25	2.15
		‹ @ 246.62 QV3 60° 17.0cm › « cpy 2.0%»	VA10084602	I088239	268.25	270	0.11
270		« 246.90 cpy 2.0%» ‹ @ 246.90 sph 1.0% › in broken qz vein ‹ @ 248.20 QV3 27° 3.3cm › ‹ @ 248.20 gal 1.0% ›	VA10084602	I088240	270	271.5	0.59
		« 248.20- 248.21 cpy 1.0%» ‹ @ 248.50 S0 20° › ‹ @ 250.10 S0 27° › ‹ @ 250.60 S0 30° ›	VA10084602	I088241	271.5	273	0.47
	Crystal Lithic Tuff	« 250.00- 252.00 stringers 3% 0.2cm» dismembered, transposed ‹ @ 251.70 S0 15° › ‹ @ 252.07 S0 20° › ‹ @ 252.27 S0 22° › « 252.40- 255.25 chl 2.0%» rims around ankerite	VA10084602	I088243	273	274.5	0.19
		« 257.00- 260.70 ank 30%» 2-5 mm rounded p/blasts and 1-2mm rhombs ‹ @ 260.70 S0 20° › ‹ @ 261.80 S0 70° › ‹ @ 263.15 S0 60° ›	VA10084602	I088244	274.5	276	0.09
275		« 264.50- 264.80 bkn » broken qz vein with Py ‹ @ 265.35 S0 30° › ‹ @ 267.55 S0 50° › ‹ @ 267.70 QV3 50° 2.2cm › ‹ @ 267.70 gal 1.0% › « cpy 1.0%» ‹ @ 270.05 QV3 0° 13.0cm › broken	VA10084602	I088245	276	277.5	0.05
		« 270.60- 271.50 bkn » rubble, broken qz veins « 271.50- 272.40 qz veins 50-60° 1-20cm» « 277.25- 277.40 qz veins » anastomosing with crb « 275.10- 275.30 bkn » broken qz vei with Py rubble « 276.75- 277.15 FZ 30°» rubble	VA10084602	I088246	277.5	279	0.14
		« 278.06- 279.37 FZ 50°»rule, broken qz veins with Pyritohedrons and well developed qz crysts in vugs ‹ @ 280.50 S0 40° ›	VA10084602	I088247	279	280.5	0.15
280		‹ @ 281.48 QV3 73° 6.0cm › « cpy 0.5%» ‹ @ 281.48 sph 2.0% › ‹ @ 281.60 QV3 48° 10.0cm › ‹ @ 281.60 sph 0.5% ›	VA10084602	I088248	280.5	281.25	0.025
		« 282.55- 286.80 ser 70.00%» ‹ @ 288.75 QV3 72° 0.7cm › « 288.75 cpy 1.0%» ‹ @ 289.20 QV3 50° 13.0cm › ‹ @ 289.20 gal 1.0% › ‹ @ 289.20 sph 1.0% ›	VA10084602	I088250	281.25	282	8.16
		« 289.20- 289.21 cpy 2.0%» ‹ @ 293.75 QV3 60° 4.0cm › ‹ @ 293.75 gal 1.5% › ‹ @ 293.75 cpy 1.5% › ‹ @ 295.30 QV3 20° 15.0cm › ‹ @ 295.30 sph 2.0% › ‹ @ 295.30 VG ›	VA10084602	I088251	282	283.5	0.025
285		‹ @ 295.30 cpy 6.0% › ‹ @ 295.75 QV3 23° 1.5cm › ‹ @ 295.75 cpy 1.0% › « 296.60- 297.30 ank 35%» 1-3mm rhombs and rounded p/blasts	VA10084602	I088252	283.5	285	0.025
		« 297.55- 300.30 Siltstone » med grey, ankerite dusting, does not react to HCL, ‹ @ 300.30 S0 30° i	VA10084602	I088253	285	286.5	0.025
		‹ @ 299.15 QV3 70° 1.2cm › ‹ @ 299.15 sph 1.0% › ‹ @ 299.15 cpy 2.0% › ‹ @ 301.60 QV3 60° 1.0cm › ‹ @ 301.60 cpy 1.0% › ‹ @ 301.82 QV3 57° 5.0cm › ‹ @ 301.82 sph 3.0% › ‹ @ 301.82 cpy 1.0% ›	VA10084602	I088254	286.5	288	0.07
		‹ @ 301.82 VG › , Py 3%	VA10084602	I088255	288	288.75	0.06
		« 300.80- 304.00 ser 50.00%»	VA10084602	I088257	288.75	289.5	0.63
290		« 304.30- 304.60 stringers 5% 0.3cm» var oriented, ‹ @ 304.67 QV3 0° 1.6cm › broken, ‹ @ 304.67 VG › ‹ @ 304.67 sph 1.5% › ‹ @ 308.80 S0 20° › ‹ @ 310.20 S0 60° ›	VA10084602	I088258	289.5	291	0.33
		Note: 311.8-312.15 brecciated, deformed bedding	VA10084602	I088259	291	292.5	0.85
		« 315.00- 316.00 bkn » broken siltstone, tuff and qz veins ‹ @ 316.10 QV3 50° 3.5cm › ‹ @ 316.10 cpy 3.0% › ‹ @ 316.30 QV3 70° 2.2cm ›	VA10084602	I088260	292.5	293.25	0.025
		« 319.13- 319.40 bkn » « 323.20- 323.40 bkn » Note: 326-330 tuff mixed up with siltstone, « 326.00- 330.00 chl 1.0%»	VA10084602	I088262	293.25	294	2.18
295		« 327.50- 328.10 FZ 0°» rubble, gouge	VA10084602	I088263	294	294.75	0.08
		« 321.70- 325.20 ser 40.00%» light pale, intensity of alteration drops down at 325.20m and front is marked y 1 mm qz vein @50 deg tca	VA10084602	I088264	294.75	295.5	13.7
		« 334.37- 336.75 FZ 70-75°» rubble, broken qz veins, <20cm competent locks, gouge, « chl 1.0%» as fracture coating	VA10084602	I088266	295.5	297	0.44
			VA10084602	I088267	297	298.5	0.08

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	**Geochemistry**				
300	Crystal Lithic Tuff	Med grey crystal lithic tuff with minor siltstone and argillite beds, lithic frgms vary in size from 0.5 to 3.5 cm, 1-4 mm qz and plag crysts, bedding within tuff is from 8 to 30 deg TCA and about 50-60 deg tca with sediments. Competent rock hard to break with hammer, but mixed zone with sediments is usually broken or faulted. Averaged pyrite is « py 1.0%» as 0.5-1.0 cm cubes th/out, with ncrease up to 3% observed at the contact with argillite. Chlorite 1% is encountered as fracture coat and rimming ankerite p/blasts. Fronts of sericitic alteration are usually marked by 1-2mm transparent qz veins at 50 deg tca. Quartz stockwork is observed in near proximity to fault zones. Carbonate alteration developed in two stages: ankerite 1-3 mm ragged rounded p/blasts varialy degraded up to 35% and 2mm rhombs affecting argillite and siltstone. Unit is cut by 3-20 cm qz veins at 40-70 deg TCA , often veins cut bedding.Visible gold is found @ 295.30, 301.82 and 304.67m. Several occurences of base metals.	VA10084602	I088267	297	298.5	0.08
			VA10084602	I088268	298.5	299.25	0.08
			VA10084602	I088269	299.25	300	1.02
		Note: 192-192.7 argillaceous siltstone mixed w tuff, qz stockwork	VA10084602	I088270	300	301.5	0.79
		‹ @ 194.85 QV2 50° 7.0cm › broken ‹ @ 195.60 QV2 70° 2.0cm › ‹ @ 195.60 sph 0.3% › ‹ @ 197.90 S0 20° ›	VA10084602	I088271	301.5	302.25	12
		‹ @ 196.50 QV3 50° 3.5cm › ‹ @ 196.50 sph 2.0% › « cpy 1.0%»	VA10084602	I088273	302.25	303	0.3
		« 196.50- 196.70 bkn » ‹ @ 199.80 S0 47° › ‹ @ 205.00 S0 26° ›	VA10084602	I088274	303	304.5	0.55
305		« 205.00- 205.50 Siltstone 26-20°» argillaceous, dark grey, « stringers 3% 1.0 mm» ‹ @ 207.45 QV3 50° 22.0cm › barren ‹ @ 208.24 QV3 55° 1.3cm › broken ‹ @ 208.44 S0 30° ›	VA10084602	I088275	304.5	305.25	0.78
			VA10084602	I088277	305.25	306.5	0.025
		« 208.44- 209.50 Argillite 30-33°» black , « py 3.0%» as aggregates of cubes, « ank 20%» as 2mm rhombs, ‹ @ 208.90 S0 12° ›	VA10084602	I088279	306.5	308	0.13
		« 209.50- 209.80 py 3.0%» 2-7 mm cubes, below the argillite bed ‹ @ 203.50 QV3 50° 7.0cm › ‹ @ 211.70 S0 8° ›	VA10084602	I088280	308	309.5	0.13
310		« 212.45- 213.00 bkn » broken, « cpy 1.0%» in 1 cm broken qz vein ‹ @ 218.00 QV2 53° 2.3cm › ‹ @ 218.20 S0 15° › ‹ @ 219.00 S0 10° ›	VA10084602	I088281	309.5	311	0.22
		« 219.75- 219.82 bkn » «cpy 0.5%», ‹ @ 219.75 sph 0.5% ›, ‹ @ 219.75 gal 0.2% › « 220.80- 223.10 bkn » « 223.20- 226.10 Siltstone » med grey, « ank 30%» as 5% degraded 5 mm rounded p/lasts and 30% 1mm rhombs, « stringers 2% 0.1cm» « 224.90- 225.20 bkn » ‹ @ 226.00 S0 10° › offset by veins at 62 deg tca	VA10084602	I088282	311	312.5	0.025
		« 227.00- 234.50 py 2.0%» 3-6 mm cubes ‹ @ 235.40 S0 30° ›	VA10084602	I088283	312.5	314	0.025
315		« 235.42- 235.70 bkn » « 239.50- 239.90 bkn » ‹ @ 242.06 S0 45° › ‹ @ 243.00 S0 40° ›	VA10084602	I088284	314	315.5	0.39
		« 243.10- 244.91 ank 40%» ‹ @ 243.20 QV3 60° 2.0cm › « 243.20- 243.21 cpy 1.5%» ‹ @ 244.20 S0 20° ›	VA10084602	I088285	315.5	316.25	0.45
		‹ @ 243.44 QV3 50° 0.6cm › «cpy 1.0%» ‹ @ 243.44 sph 1.5% › ‹ @ 244.90 QV3 35° 1.0cm › «cpy 1.0%», ‹ @ 244.90 sph 1.0% › ‹ @ 246.62 QV3 60° 17.0cm › « cpy 2.0%»	VA10084602	I088286	316.25	317	0.25
			VA10084602	I088288	317	318.5	0.81
		« 246.90 cpy 2.0%» ‹ @ 246.90 sph 1.0% › in broken qz vein ‹ @ 248.20 QV3 27° 3.3cm › ‹ @ 248.20 gal 1.0% ›	VA10084602	I088289	318.5	320	0.09
320		« 248.20- 248.21 cpy 1.0%» ‹ @ 248.50 S0 20° › ‹ @ 250.10 S0 27° › ‹ @ 250.60 S0 30° ›	VA10084602	I088290	320	321.5	0.025
		« 250.00- 252.00 stringers 3% 0.2cm» dismembered, transposed ‹ @ 251.70 S0 15° › ‹ @ 252.07 S0 20° › ‹ @ 252.27 S0 22° ›	VA10084602	I088291	321.5	323	0.025
		« 252.40- 255.25 chl 2.0%» rims around ankerite	VA10084602	I088292	323	324.5	0.025
		« 257.00- 260.70 ank 30%» 2-5 mm rounded p/blasts and 1-2mm rhombs ‹ @ 260.70 S0 20° › ‹ @ 261.80 S0 70° › ‹ @ 263.15 S0 60° ›	VA10084602	I088293	324.5	326	0.19
325		« 264.50- 264.80 bkn » broken qz vein with Py ‹ @ 265.35 S0 30° › ‹ @ 267.55 S0 50° ›	VA10084602	I088294	326	327.5	0.025
		‹ @ 267.70 QV3 50° 2.2cm › ‹ @ 267.70 gal 1.0% › « cpy 1.0%» ‹ @ 270.05 QV3 0° 13.0cm › broken	VA10084602	I088296	327.5	329	0.025
		« 270.60- 271.50 bkn » rubble, broken qz veins « 271.50- 272.40 qz veins 50-60° 1-20cm» « 277.25- 277.40 qz veins » anastomosing with crb « 275.10- 275.30 bkn » broken qz vei with Py rubble « 276.75- 277.15 FZ 30°» rubble	VA10084602	I088297	329	330.5	0.025
330		« 278.06- 279.37 FZ 50°»rule, broken qz veins with Pyritohedrons and well developed qz crysts in vugs ‹ @ 280.50 S0 40° ›	VA10084602	I088298	330.5	332	0.025
		‹ @ 281.48 QV3 73° 6.0cm › « cpy 0.5%» ‹ @ 281.48 sph 2.0% › ‹ @ 281.60 QV3 48° 10.0cm › ‹ @ 281.60 sph 0.5% ›	VA10084602	I088299	332	333.5	0.025
		« 282.55- 286.80 ser 70.00%» ‹ @ 288.75 QV3 72° 0.7cm › « 288.75 cpy 1.0%» ‹ @ 289.20 QV3 50° 13.0cm › ‹ @ 289.20 gal 1.0% › ‹ @ 289.20 sph 1.0% ›	VA10084602	I088300	333.5	335	0.025
335		« 289.20- 289.21 cpy 2.0%» ‹ @ 293.75 QV3 60° 4.0cm › ‹ @ 293.75 gal 1.5% › ‹ @ 293.75 cpy 1.5% › ‹ @ 295.30 QV3 20° 15.0cm › ‹ @ 295.30 sph 2.0% › ‹ @ 295.30 VG › ‹ @ 295.30 cpy 6.0% › ‹ @ 295.75 QV3 23° 1.5cm › ‹ @ 295.75 cpy 1.0% ›	VA10084602	I088301	335	336.5	0.025
		« 296.60- 297.30 ank 35%» 1-3mm rhombs and rounded p/blasts « 297.55- 300.30 Siltstone » med grey, ankerite dusting, does not react to HCL, ‹ @ 300.30 S0 30° i ‹ @ 299.15 QV3 70° 1.2cm › ‹ @ 299.15 sph 1.0% › ‹ @ 299.15 cpy 2.0% › ‹ @ 301.60 QV3 60° 1.0cm › ‹ @ 301.60 cpy 1.0% › ‹ @ 301.82 QV3 57° 5.0cm › ‹ @ 301.82 sph 3.0% › ‹ @ 301.82 cpy 1.0% › ‹ @ 301.82 VG › , Py 3%	VA10084602	I088303	336.5	338	0.025
		« 300.80- 304.00 ser 50.00%» « 304.30- 304.60 stringers 5% 0.3cm» var oriented, ‹ @ 304.67 QV3 0° 1.6cm › broken, ‹ @ 304.67 VG › ‹ @ 304.67 sph 1.5% ›	VA10084602	I088304	338	339.5	0.26
340		‹ @ 308.80 S0 20° › ‹ @ 310.20 S0 60° › Note: 311.8-312.15 brecciated, deformed bedding	VA10084602	I088305	339.5	341	0.18
		« 315.00- 316.00 bkn » broken siltstone, tuff and qz veins ‹ @ 316.10 QV3 50° 3.5cm › ‹ @ 316.10 cpy 3.0% › ‹ @ 316.30 QV3 70° 2.2cm ›	VA10084602	I088306	341	342.5	0.13
		« 319.13- 319.40 bkn » « 323.20- 323.40 bkn » Note: 326-330 tuff mixed up with siltstone, « 326.00- 330.00 chl 1.0%»	VA10084602	I088307	342.5	344	0.025
345		« 327.50- 328.10 FZ 0°» rubble, gouge	VA10084602	I088309	344	345.5	0.025
		« 321.70- 325.20 ser 40.00%» light pale, intensity of alteration drops down at 325.20m and front is marked y 1 mm qz vein @50 deg tca	VA10084602	I088310	345.5	347	0.07
		« 334.37- 336.75 FZ 70-75°» rubble, broken qz veins, <20cm competent locks, gouge, « chl 1.0%» as fracture coating	VA10084602	I088311	347	348.5	0.09



Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	**Geochemistry**				
	Crystal Lithic Tuff	Med grey crystal lithic tuff with minor siltstone and argillite beds, lithic frgms vary in size from 0.5 to 3.5 cm, 1-4 mm qz and plag crysts, bedding within tuff is from 8 to 30 deg TCA and about 50-60 deg tca with sediments. Competent rock hard to break with hammer, but mixed zone with sediments is usually broken or faulted. Averaged pyrite is « py 1.0%» as 0.5-1.0 cm cubes th/out, with ncrease up to 3% observed at the contact with argillite. Chlorite 1% is encountered as fracture coat and rimming ankerite p/blasts. Fronts of sericitic alteration are usually marked by 1-2mm transparent qz veins at 50 deg tca. Quartz stockwork is observed in near proximity to fault zones. Carbonate alteration developed in two stages: ankerite 1-3 mm ragged rounded p/blasts varialy degraded up to 35% and 2mm rhombs affecting argillite and siltstone. Unit is cut by 3-20 cm qz veins at 40-70 deg TCA , often veins cut bedding.Visible gold is found @ 295.30, 301.82 and 304.67m. Several occurences of base metals.	VA10084602	I088311	347	348.5	0.09
		Note: 192-192.7 argillaceous siltstone mixed w tuff, qz stockwork	VA10084602	I088312	348.5	350	1.74
350		‹ @ 194.85 QV2 50° 7.0cm › broken ‹ @ 195.60 QV2 70° 2.0cm › ‹ @ 195.60 sph 0.3% › ‹ @ 197.90 S0 20° › ‹ @ 196.50 QV3 50° 3.5cm › ‹ @ 196.50 sph 2.0% › « cpy 1.0%»	VA10084602	I088313	350	351.5	0.49
		« 196.50- 196.70 bkn » ‹ @ 199.80 S0 47° › ‹ @ 205.00 S0 26° ›	VA10084602	I088314	351.5	353	0.4
		« 205.00- 205.50 Siltstone 26-20°» argillaceous, dark grey, « stringers 3% 1.0 mm»	VA10084602	I088315	353	354.5	0.025
355		‹ @ 207.45 QV3 50° 22.0cm › barren ‹ @ 208.24 QV3 55° 1.3cm › broken ‹ @ 208.44 S0 30° ›	VA10084602	I088316	354.5	356	0.025
		« 208.44- 209.50 Argillite 30-33°» black , « py 3.0%» as aggregates of cubes, « ank 20%» as 2mm rhombs, ‹ @ 208.90 S0 12° ›	VA10084602	I088318	356	357.5	0.32
		« 209.50- 209.80 py 3.0%» 2-7 mm cubes, below the argillite bed ‹ @ 203.50 QV3 50° 7.0cm › ‹ @ 211.70 S0 8° ›	VA10084602	I088319	357.5	359	0.12
		« 212.45- 213.00 bkn » broken, « cpy 1.0%» in 1 cm broken qz vein ‹ @ 218.00 QV2 53° 2.3cm › ‹ @ 218.20 S0 15° › ‹ @ 219.00 S0 10° ›	VA10084602	I088320	359	360.5	0.025
360		« 219.75- 219.82 bkn » «cpy 0.5%», ‹ @ 219.75 sph 0.5% ›, ‹ @ 219.75 gal 0.2% › « 220.80- 223.10 bkn » « 223.20- 226.10 Siltstone » med grey, « ank 30%» as 5% degraded 5 mm rounded p/lasts and 30% 1mm rhombs, « stringers 2% 0.1cm»	VA10084602	I088321	360.5	362	0.16
		« 224.90- 225.20 bkn » ‹ @ 226.00 S0 10° › offset by veins at 62 deg tca « 227.00- 234.50 py 2.0%» 3-6 mm cubes ‹ @ 235.40 S0 30° ›	VA10084602	I088323	362	363.5	0.05
		« 235.42- 235.70 bkn » « 239.50- 239.90 bkn » ‹ @ 242.06 S0 45° › ‹ @ 243.00 S0 40° ›	VA10084602	I088324	363.5	365	0.025
365		« 243.10- 244.91 ank 40%» ‹ @ 243.20 QV3 60° 2.0cm › « 243.20- 243.21 cpy 1.5%» ‹ @ 244.20 S0 20° ›	VA10084602	I088325	365	366.5	0.025
		‹ @ 243.44 QV3 50° 0.6cm › «cpy 1.0%» ‹ @ 243.44 sph 1.5% › ‹ @ 244.90 QV3 35° 1.0cm › «cpy 1.0%», ‹ @ 244.90 sph 1.0% › ‹ @ 246.62 QV3 60° 17.0cm › « cpy 2.0%»	VA10084602	I088326	366.5	368	0.025
		« 246.90 cpy 2.0%» ‹ @ 246.90 sph 1.0% › in broken qz vein ‹ @ 248.20 QV3 27° 3.3cm › ‹ @ 248.20 gal 1.0% ›	VA10084602	I088327	368	369.5	0.025
370		« 248.20- 248.21 cpy 1.0%» ‹ @ 248.50 S0 20° › ‹ @ 250.10 S0 27° › ‹ @ 250.60 S0 30° ›	VA10084602	I088328	369.5	371	0.025
		« 250.00- 252.00 stringers 3% 0.2cm» dismembered, transposed ‹ @ 251.70 S0 15° › ‹ @ 252.07 S0 20° › ‹ @ 252.27 S0 22° ›	VA10084602	I088330	371	372.5	0.025
		« 252.40- 255.25 chl 2.0%» rims around ankerite	VA10084602	I088331	372.5	374	0.025
		« 257.00- 260.70 ank 30%» 2-5 mm rounded p/blasts and 1-2mm rhombs ‹ @ 260.70 S0 20° › ‹ @ 261.80 S0 70° › ‹ @ 263.15 S0 60° ›	VA10084602	I088332	374	375.5	0.025
375		« 264.50- 264.80 bkn » broken qz vein with Py ‹ @ 265.35 S0 30° › ‹ @ 267.55 S0 50° ›	VA10084602	I088333	375.5	377	0.025
		‹ @ 267.70 QV3 50° 2.2cm › ‹ @ 267.70 gal 1.0% › « cpy 1.0%» ‹ @ 270.05 QV3 0° 13.0cm › broken	VA10084602	I088334	377	378.5	0.025
		« 270.60- 271.50 bkn » rubble, broken qz veins « 271.50- 272.40 qz veins 50-60° 1-20cm»	VA10084602	I088335	378.5	380	0.025
		« 277.25- 277.40 qz veins » anastomosing with crb « 275.10- 275.30 bkn » broken qz vei with Py rubble « 276.75- 277.15 FZ 30°» rubble	VA10084602	I088336	380	381.5	0.025
380		« 278.06- 279.37 FZ 50°»rule, broken qz veins with Pyritohedrons and well developed qz crysts in vugs ‹ @ 280.50 S0 40° ›	VA10084602	I088338	381.5	383	0.28
		‹ @ 281.48 QV3 73° 6.0cm › « cpy 0.5%» ‹ @ 281.48 sph 2.0% › ‹ @ 281.60 QV3 48° 10.0cm › ‹ @ 281.60 sph 0.5% ›	VA10084602	I088339	383	384.5	0.025
		« 282.55- 286.80 ser 70.00%» ‹ @ 288.75 QV3 72° 0.7cm › « 288.75 cpy 1.0%» ‹ @ 289.20 QV3 50° 13.0cm › ‹ @ 289.20 gal 1.0% › ‹ @ 289.20 sph 1.0% ›	VA10084602	I088340	384.5	386	0.15
385		« 289.20- 289.21 cpy 2.0%» ‹ @ 293.75 QV3 60° 4.0cm › ‹ @ 293.75 gal 1.5% › ‹ @ 293.75 cpy 1.5% › ‹ @ 295.30 QV3 20° 15.0cm › ‹ @ 295.30 sph 2.0% › ‹ @ 295.30 VG › ‹ @ 295.30 cpy 6.0% › ‹ @ 295.75 QV3 23° 1.5cm › ‹ @ 295.75 cpy 1.0% ›	VA10084602	I088341	386	387.5	0.025
		« 296.60- 297.30 ank 35%» 1-3mm rhombs and rounded p/blasts « 297.55- 300.30 Siltstone » med grey, ankerite dusting, does not react to HCL, ‹ @ 300.30 S0 30° i ‹ @ 299.15 QV3 70° 1.2cm › ‹ @ 299.15 sph 1.0% › ‹ @ 299.15 cpy 2.0% › ‹ @ 301.60 QV3 60° 1.0cm › ‹ @ 301.60 cpy 1.0% › ‹ @ 301.82 QV3 57° 5.0cm › ‹ @ 301.82 sph 3.0% › ‹ @ 301.82 cpy 1.0% › ‹ @ 301.82 VG › , Py 3%	VA10084602	I088342	387.5	389	0.025
		« 300.80- 304.00 ser 50.00%» « 304.30- 304.60 stringers 5% 0.3cm» var oriented, ‹ @ 304.67 QV3 0° 1.6cm › broken, ‹ @ 304.67 VG › ‹ @ 304.67 sph 1.5% › ‹ @ 308.80 S0 20° › ‹ @ 310.20 S0 60° › Note: 311.8-312.15 brecciated, deformed bedding	VA10084602	I088344	389	390.5	0.08
390		« 315.00- 316.00 bkn » broken siltstone, tuff and qz veins ‹ @ 316.10 QV3 50° 3.5cm › ‹ @ 316.10 cpy 3.0% › ‹ @ 316.30 QV3 70° 2.2cm ›	VA10084602	I088345	390.5	392	0.82
		« 319.13- 319.40 bkn » « 323.20- 323.40 bkn » Note: 326-330 tuff mixed up with siltstone, « 326.00- 330.00 chl 1.0%»	VA10084602	I088346	392	393.5	0.11
		« 327.50- 328.10 FZ 0°» rubble, gouge	VA10084602	I088347	393.5	395	0.82
395		« 321.70- 325.20 ser 40.00%» light pale, intensity of alteration drops down at 325.20m and front is marked y 1 mm qz vein @50 deg tca	VA10084602	I088348	395	396.5	0.05
		« 334.37- 336.75 FZ 70-75°» rubble, broken qz veins, <20cm competent locks, gouge, « chl 1.0%» as fracture coating	VA10084602	I088350	396.5	398	0.025

10-DDH-906	North :5828429	East :604048	Elevation :1004.7	Hole Length :416.66	Azimuth :118	Dip :-70	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
400	Crystal Lithic Tuff	Med grey crystal lithic tuff with minor siltstone and argillite beds, lithic frgms vary in size from 0.5 to 3.5 cm, 1-4 mm qz and plag crysts, bedding within tuff is from 8 to 30 deg TCA and about 50-60 deg tca with sediments. Competent rock hard to break with hammer, but mixed zone with sediments is usually broken or faulted. Averaged pyrite is « py 1.0%» as 0.5-1.0 cm cubes th/out, with ncrease up to 3% observed at the contact with argillite. Chlorite 1% is encountered as fracture coat and rimming ankerite p/blasts. Fronts of sericitic alteration are usually marked by 1-2mm transparent qz veins at 50 deg tca. Quartz stockwork is observed in near proximity to fault zones. Carbonate alteration developed in two stages: ankerite 1-3 mm ragged rounded p/blasts varialy degraded up to 35% and 2mm rhombs affecting argillite and siltstone. Unit is cut by 3-20 cm qz veins at 40-70 deg TCA , often veins cut bedding.Visible gold is found @ 295.30, 301.82 and 304.67m. Several occurences of base metals.	VA10084602	I088350	396.5	398	0.025
			VA10084602	I088351	398	399.5	0.025
		Note: 192-192.7 argillaceous siltstone mixed w tuff, qz stockwork	VA10084602	I088352	399.5	401	0.21
		‹ @ 194.85 QV2 50° 7.0cm › broken ‹ @ 195.60 QV2 70° 2.0cm › ‹ @ 195.60 sph 0.3% › ‹ @ 197.90 S0 20° › ‹ @ 196.50 QV3 50° 3.5cm › ‹ @ 196.50 sph 2.0% › « cpy 1.0%»	VA10084602	I088353	401	402.5	0.025
		« 196.50- 196.70 bkn » ‹ @ 199.80 S0 47° › ‹ @ 205.00 S0 26° ›	VA10084602	I088354	402.5	404	0.025
405		« 205.00- 205.50 Siltstone 26-20°» argillaceous, dark grey, « stringers 3% 1.0 mm» ‹ @ 207.45 QV3 50° 22.0cm › barren ‹ @ 208.24 QV3 55° 1.3cm › broken ‹ @ 208.44 S0 30° ›	VA10084602	I088356	404	405.5	0.025
		« 208.44- 209.50 Argillite 30-33°» black , « py 3.0%» as aggregates of cubes, « ank 20%» as 2mm rhombs, ‹ @ 208.90 S0 12° ›	VA10084602	I088357	405.5	407	0.025
		« 209.50- 209.80 py 3.0%» 2-7 mm cubes, below the argillite bed ‹ @ 203.50 QV3 50° 7.0cm › ‹ @ 211.70 S0 8° › « 212.45- 213.00 bkn » broken, « cpy 1.0%» in 1 cm broken qz vein	VA10084602	I088358	407	408.5	0.025
		‹ @ 218.00 QV2 53° 2.3cm › ‹ @ 218.20 S0 15° › ‹ @ 219.00 S0 10° ›	VA10084602	I088359	408.5	410	0.025
410		« 219.75- 219.82 bkn » «cpy 0.5%», ‹ @ 219.75 sph 0.5% ›, ‹ @ 219.75 gal 0.2% › « 220.80- 223.10 bkn » « 223.20- 226.10 Siltstone » med grey, « ank 30%» as 5% degraded 5 mm rounded p/lasts and 30% 1mm rhombs, « stringers 2% 0.1cm»	VA10084602	I088360	410	411.5	0.025
		« 224.90- 225.20 bkn » ‹ @ 226.00 S0 10° › offset by veins at 62 deg tca « 227.00- 234.50 py 2.0%» 3-6 mm cubes ‹ @ 235.40 S0 30° ›	VA10084602	I088362	411.5	413	0.025
		« 235.42- 235.70 bkn » « 239.50- 239.90 bkn » ‹ @ 242.06 S0 45° › ‹ @ 243.00 S0 40° › « 243.10- 244.91 ank 40%» ‹ @ 243.20 QV3 60° 2.0cm › « 243.20- 243.21 cpy 1.5%» ‹ @ 244.20 S0 20° ›	VA10084602	I088363	413	415	0.025
415	EOH	‹ @ 243.44 QV3 50° 0.6cm › «cpy 1.0%» ‹ @ 243.44 sph 1.5% › ‹ @ 244.90 QV3 35° 1.0cm › «cpy 1.0%», ‹ @ 244.90 sph 1.0% › ‹ @ 246.62 QV3 60° 17.0cm › « cpy 2.0%»	VA10084602	I088364	415	416.66	0.025
		« 246.90 cpy 2.0%» ‹ @ 246.90 sph 1.0% › in broken qz vein ‹ @ 248.20 QV3 27° 3.3cm › ‹ @ 248.20 gal 1.0% › « 248.20- 248.21 cpy 1.0%» ‹ @ 248.50 S0 20° › ‹ @ 250.10 S0 27° › ‹ @ 250.60 S0 30° ›					
420		« 250.00- 252.00 stringers 3% 0.2cm» dismembered, transposed ‹ @ 251.70 S0 15° › ‹ @ 252.07 S0 20° › ‹ @ 252.27 S0 22° › « 252.40- 255.25 chl 2.0%» rims around ankerite					
		« 257.00- 260.70 ank 30%» 2-5 mm rounded p/blasts and 1-2mm rhombs ‹ @ 260.70 S0 20° › ‹ @ 261.80 S0 70° › ‹ @ 263.15 S0 60° › « 264.50- 264.80 bkn » broken qz vein with Py ‹ @ 265.35 S0 30° › ‹ @ 267.55 S0 50° ›					
425		‹ @ 267.70 QV3 50° 2.2cm › ‹ @ 267.70 gal 1.0% › « cpy 1.0%» ‹ @ 270.05 QV3 0° 13.0cm › broken « 270.60- 271.50 bkn » rubble, broken qz veins « 271.50- 272.40 qz veins 50-60° 1-20cm» « 277.25- 277.40 qz veins » anastomosing with crb « 275.10- 275.30 bkn » broken qz vei with Py rubble « 276.75- 277.15 FZ 30°» rubble					
		« 278.06- 279.37 FZ 50°»rule, broken qz veins with Pyritohedrons and well developed qz crysts in vugs ‹ @ 280.50 S0 40° › ‹ @ 281.48 QV3 73° 6.0cm › « cpy 0.5%» ‹ @ 281.48 sph 2.0% › ‹ @ 281.60 QV3 48° 10.0cm › ‹ @ 281.60 sph 0.5% ›					
430		« 282.55- 286.80 ser 70.00%» ‹ @ 288.75 QV3 72° 0.7cm › « 288.75 cpy 1.0%» ‹ @ 289.20 QV3 50° 13.0cm › ‹ @ 289.20 gal 1.0% › ‹ @ 289.20 sph 1.0% › « 289.20- 289.21 cpy 2.0%» ‹ @ 293.75 QV3 60° 4.0cm › ‹ @ 293.75 gal 1.5% › ‹ @ 293.75 cpy 1.5% › ‹ @ 295.30 QV3 20° 15.0cm › ‹ @ 295.30 sph 2.0% › ‹ @ 295.30 VG › ‹ @ 295.30 cpy 6.0% › ‹ @ 295.75 QV3 23° 1.5cm › ‹ @ 295.75 cpy 1.0% ›					
		« 296.60- 297.30 ank 35%» 1-3mm rhombs and rounded p/blasts « 297.55- 300.30 Siltstone » med grey, ankerite dusting, does not react to HCL, ‹ @ 300.30 S0 30° i					
435		‹ @ 299.15 QV3 70° 1.2cm › ‹ @ 299.15 sph 1.0% › ‹ @ 299.15 cpy 2.0% › ‹ @ 301.60 QV3 60° 1.0cm › ‹ @ 301.60 cpy 1.0% › ‹ @ 301.82 QV3 57° 5.0cm › ‹ @ 301.82 sph 3.0% › ‹ @ 301.82 cpy 1.0% › ‹ @ 301.82 VG › , Py 3%					
		« 300.80- 304.00 ser 50.00%» « 304.30- 304.60 stringers 5% 0.3cm» var oriented, ‹ @ 304.67 QV3 0° 1.6cm › broken, ‹ @ 304.67 VG › ‹ @ 304.67 sph 1.5% › ‹ @ 308.80 S0 20° › ‹ @ 310.20 S0 60° ›					
440		Note: 311.8-312.15 brecciated, deformed bedding					
		« 315.00- 316.00 bkn » broken siltstone, tuff and qz veins ‹ @ 316.10 QV3 50° 3.5cm › ‹ @ 316.10 cpy 3.0% › ‹ @ 316.30 QV3 70° 2.2cm ›					
		« 319.13- 319.40 bkn » « 323.20- 323.40 bkn » Note: 326-330 tuff mixed up with siltstone, « 326.00- 330.00 chl 1.0%» « 327.50- 328.10 FZ 0°» rubble, gouge					
445		« 321.70- 325.20 ser 40.00%» light pale, intensity of alteration drops down at 325.20m and front is marked y 1 mm qz vein @50 deg tca					
		« 334.37- 336.75 FZ 70-75°» rubble, broken qz veins, <20cm competent locks, gouge, « chl 1.0%» as fracture coating Hole reached the target depth					

Scale 1:200	Start Depth :396.77	End Depth :446.36	Page No.: 9

10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Geology Rocktype		Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Casing	Casing					
5		Casing						
10		Crystal Lithic Tuff	Crystal Lithic Tuff: fg-mg grey to pale cream crystal lithic tuff. Bedded on a 3mm-10cm scale.Unit shows brown oxidation weathering on ankerite _pyrite xls which lessens throughout the unit. The lithics consist of 1-2cm flattened black subangular fragments aligned to the bedding in areas which also show slight green fuchsite alteration (5%). Also visible are competent jigsaw texture sections <10cm. Ankerite rhombs are persistent throughout with bimodal size distribution 4-7mm _<1mm.	VA10090441	I088365	9.75	11	0.025
			« ank 16%, bimodal size dist» « py 0.30% 2-10mm»	VA10090441	I088366	11	12.5	0.025
			‹ @ 10.00 S0 40.00° › ‹ @ 12.66 S0 43° ›	VA10090441	I088367	12.5	13.75	0.025
15			‹ @ 12.49 FZ 58° 4.0cm, gouge slicks › ‹ @ 14.76 FZ 58° 4.5cm, gouge _slicks ›	VA10090441	I088368	13.75	15.13	0.025
			« 12.10- 12.56 chl 5%»					
		Argillite	Argillite: V.fg black argillite with thin lam-thin bed visible. Fractures follow the bedding and are highly graphitic. Unit also contains some green stained lithic tuff medium beds (10%, 10-20cm) and also coarsens towards the bottom of the unit up to a dark grey fg siltstone. Pyrite appears persistent throughout as euhedral rhombs and as disseminated clusters following bedding.	VA10090441	I088370	15.13	16.5	0.025
			« ank 6%» « py 4% 1-9mm»	VA10090441	I088371	16.5	18	0.025
			‹ @ 15.72 S0 72° › ‹ @ 17.60 S0 55° › ‹ @ 17.20 S0 60° › ‹ @ 20.26 S0 62° ›	VA10090441	I088372	18	19.5	0.025
20			‹ @ 18.93 QVpy 30° 10mm, 80% py ›	VA10090441	I088373	19.5	20.68	0.025
		Crystal Tuff	Crystal Tuff: Fg-mg grey crystal tuff bedded with cg pale green more mafic tuff/(mafic dyke?) (5%). Some bedding is visible in the unaltered grey tuff on a thin bed to fine lamination scale. Contacts with the green altered beds are abrupt and planar with the bedding. These beds also contain black flattened lithic fragments 1-3mm in size, in varying abundance but generally aligned with bedding. Ankerite again seen in bimodal distribution throughout and shows slight sericitic alteration to a pale cream colour.	VA10090441	I088374	20.68	22	0.025
			Some fractured units- show brown oxidation weathering and areas of possible fault gouge.	VA10090441	I088375	22	23.5	0.025
			« ank 12%» « py 0.2% 2-6mm»	VA10090441	I088376	23.5	25	0.025
25			‹ @ 22.28 S0 48°, bedding in mafic rock › ‹ @ 26.18 S0 28° › ‹ @ 31.45 S0 45° ›	VA10090441	I088378	25	26.5	0.025
			‹ @ 21.08 QVbull 30° 0.9cm › ‹ @ 21.82 QVbull 28° 5.0cm › ‹ @ 22.53 QVbull 30° 7.5cm › ‹ @ 29.00 QVbull 6° 5.0cm › ‹ @ 30.78 QVbull 42° 7.5cm › ‹ @ 33.43 QV2 51° 0.2cm › ‹ @ 33.83 QVbull 27° 0.5cm › ‹ @ 35.73 QVbull 38° 3.2cm ›	VA10090441	I088379	26.5	28	0.025
			‹ @ 34.28 FZ 60° 18.0cm, rubble _small area of gouge, oxidised ›	VA10090441	I088380	28	29.5	0.025
30			« ser 1%»	VA10090441	I088381	29.5	31	0.025
				VA10090441	I088382	31	32.5	0.025
				VA10090441	I088383	32.5	34	0.025
35				VA10090441	I088385	34	35.5	0.07
				VA10090441	I088386	35.5	37.26	0.025
		Altered mafic dyke / tuff??	Altered mafic dyke/tuff??: Same rock as the previous green fuchsite altered beds but much larger. Green shade varies from pale green to dark green in areas of more pronounced chlorite mineralisation- visible along the fractures.	VA10090441	I088387	37.26	39	0.08
			« ank 8%» « py 0.1% 2-3mm»	VA10090441	I088388	39	40.5	0.31
40			‹ @ 38.00 S0 35° › ‹ @ 44.22 S0 60° ›	VA10090441	I088390	40.5	42	0.025
			‹ @ 38.28 QVbull 30° 0.7cm › ‹ @ 38.58 QVbull 16° 18.0cm › ‹ @ 40.73 QVbull 51° 3.0cm ›	VA10090441	I088391	42	43	0.025
			« chl 1%»	VA10090441	I088392	43	44.46	0.025
45		Crystal Tuff	Crystal Tuff: Same rock type as previous to altered mafic bed. Increase in pyrite in the last 2 metres of the bed- possible small sediment contribution in unit but no clear bedding. Again contains thin beds of the green fuchsite altered tuff/mafic dyke?	VA10090441	I088393	44.46	46	0.025
			« ank 5%» « py 0.7% 1-12mm»	VA10090441	I088394	46	47.5	0.025
			‹ @ 49.15 S0 45° › ‹ @ 56.10 S0 30° › ‹ @ 56.66 S0 30°, uphole limb of fold › ‹ @ 56.78 S0 0°, Top of fold, bedding parallel to CA › ‹ @ 56.86 S0 29°, downhole limb of fold ›	VA10090441	I088395	47.5	49	0.025
			‹ @ 48.81 QVbull 55° 1.4cm › ‹ @ 51.33 QV2 50° 0.3cm › ‹ @ 52.26 QVbull 20° 0.9cm ›	VA10090441	I088397	49	50.5	0.025
			« ser 2%»					

10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
55	Crystal Tuff	Crystal Tuff: Same rock type as previous to altered mafic bed. Increase in pyrite in the last 2 metres of the bed- possible small sediment contribution in unit but no clear bedding. Again contains thin beds of the green fuchsite altered tuff/mafic dyke? « ank 5%» « py 0.7% 1-12mm» ‹ @ 49.15 S0 45° › ‹ @ 56.10 S0 30° › ‹ @ 56.66 S0 30°, uphole limb of fold › ‹ @ 56.78 S0 0°, Top of fold, bedding parallel to CA › ‹ @ 56.86 S0 29°, downhole limb of fold ›	VA10090441	I088397	49	50.5	0.025
			VA10090441	I088398	50.5	52	0.025
		‹ @ 48.81 QVbull 55° 1.4cm › ‹ @ 51.33 QV2 50° 0.3cm › ‹ @ 52.26 QVbull 20° 0.9cm › « ser 2%»	VA10090441	I088399	52	53.5	0.025
			VA10090441	I088401	53.5	55	0.025
			VA10090441	I088402	55	56	0.025
			VA10090441	I088403	56	57.5	0.025
60	Argillite / Siltstone	Argillite/Siltstone: V.fg black argillite (75%) .fg dark grey siltstone (25%) interbedded on a thick lamination to medium bedding scale. Unit contains anastomising white spider veins as well as larger deformed quartz veins. Increase in pyrite compared to previous unit- mostly disseminated xls along bedding. « ank 10%» « py 6.0% 1-4mm» ‹ @ 57.80 S0 35° › ‹ @ 61.12 S0 38° › ‹ @ 63.00 S0 44° ›	VA10090441	I088404	57.5	59	0.025
			VA10090441	I088405	59	60.5	0.42
		‹ @ 59.38 QV2 25° 0.2cm › ‹ @ 60.77 QV2 50° 2.2cm, 5% py ›	VA10090441	I088406	60.5	62	0.025
			VA10090441	I088407	62	63.5	0.025
65	Crystal Tuff	Crystal Tuff: Same rock type as previous to argillite. Similarly has beds 10-80cm in size of green fuchsite altered mafic tuff/dyke and also some possible sediment influence shown by thin dark grey fg veinlets and also an increase in euhedral pyrite in areas. Overall unit has higher sericitic alteration than previous but the alteration varies slightly throughout. « ank 11%» « py 0.1% 0.5-13.0mm» ‹ @ 70.64 S0 50° › ‹ @ 75.40 S0 62° › ‹ @ 79.40 S0 20° › ‹ @ 83.10 S0 52° › ‹ @ 88.31 S0 60° › ‹ @ 89.59 S0 60° › ‹ @ 97.44 S0 35° › ‹ @ 98.80 S0 60°, contact between green .grey › ‹ @ 107.23 S0 42° › ‹ @ 114.60 S0 60° › ‹ @ 117.64 S0 57° ›	VA10090441	I088408	63.5	65	0.025
			VA10090441	I088410	65	66.5	0.025
		‹ @ 63.77 QVbull 60° 2.7cm › ‹ @ 64.67 QVbull 54° 1.5cm › ‹ @ 66.33 QVbull 15° 0.7cm › ‹ @ 70.53 QVbull 40° 2.5cm › ‹ @ 70.95 QVbull 79° 4.2cm › ‹ @ 72.45 QVbull 52° 0.9cm › ‹ @ 73.02 QVbull 75° 0.6cm › ‹ @ 75.95 QVbull 60° 4.3cm › ‹ @ 81.45 QVbull 32° 0.3cm › ‹ @ 86.78 QVbull 60° 1.2cm › ‹ @ 95.76 QVbull 70° 0.3cm › ‹ @ 97.55 QVbull 77° 0.3cm › ‹ @ 98.40 QVbull 23° 0.7cm › ‹ @ 99.40 QVbull 45° 1.5cm › ‹ @ 101.70 QVbull 25° 1.5cm › ‹ @ 101.50 QVbull 41° 8.5cm › ‹ @ 101.90 QVbull 29° 0.5cm › ‹ @ 108.48 QVbull 70° 0.2cm › ‹ @ 114.26 QVbull 65° 1.5cm ›	VA10090441	I088411	66.5	68	0.025
			VA10090441	I088412	68	69.5	0.025
70		« ser 3%»	VA10090441	I088413	69.5	71	0.025
			VA10090441	I088414	71	72.5	0.025
			VA10090441	I088416	72.5	74	0.025
75			VA10090441	I088417	74	75.5	0.025
			VA10090441	I088418	75.5	77	0.025
			VA10090441	I088419	77	78.5	0.025
80			VA10090441	I088420	78.5	80	0.025
			VA10090441	I088421	80	81.5	0.025
			VA10090441	I088423	81.5	83	0.025
85			VA10090441	I088424	83	84.5	0.025
			VA10090441	I088425	84.5	86	0.025
			VA10090441	I088426	86	87.5	0.025
90			VA10090441	I088427	87.5	89	0.025
			VA10090441	I088429	89	90.5	0.025
			VA10090441	I088430	90.5	92	0.025
95			VA10090441	I088431	92	93.5	0.025
			VA10090441	I088432	93.5	95	0.025
			VA10090441	I088433	95	96.5	0.025
			VA10090441	I088434	96.5	98	0.025
			VA10090441	I088435	98	99.5	0.025

10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

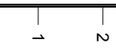
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Crystal Tuff	Crystal Tuff: Same rock type as previous to argillite. Similarly has beds 10-80cm in size of green fuchsite altered mafic tuff/dyke and also some possible sediment influence shown by thin dark grey fg veinlets and also an increase in euhedral pyrite in areas. Overall unit has higher sericitic alteration than previous but the alteration varies slightly throughout. « ank 11%» « py 0.1% 0.5-13.0mm» ‹ @ 70.64 S0 50° › ‹ @ 75.40 S0 62° › ‹ @ 79.40 S0 20° › ‹ @ 83.10 S0 52° › ‹ @ 88.31 S0 60° › ‹ @ 89.59 S0 60° › ‹ @ 97.44 S0 35° › ‹ @ 98.80 S0 60°, contact between green _grey › ‹ @ 107.23 S0 42° › ‹ @ 114.60 S0 60° › ‹ @ 117.64 S0 57° › ‹ @ 63.77 QVbull 60° 2.7cm › ‹ @ 64.67 QVbull 54° 1.5cm › ‹ @ 66.33 QVbull 15° 0.7cm › ‹ @ 70.53 QVbull 40° 2.5cm › ‹ @ 70.95 QVbull 79° 4.2cm › ‹ @ 72.45 QVbull 52° 0.9cm › ‹ @ 73.02 QVbull 75° 0.6cm › ‹ @ 75.95 QVbull 60° 4.3cm › ‹ @ 81.45 QVbull 32° 0.3cm › ‹ @ 86.78 QVbull 60° 1.2cm › ‹ @ 95.76 QVbull 70° 0.3cm › ‹ @ 97.55 QVbull 77° 0.3cm › ‹ @ 98.40 QVbull 23° 0.7cm › ‹ @ 99.40 QVbull 45° 1.5cm › ‹ @ 101.70 QVbull 25° 1.5cm › ‹ @ 101.50 QVbull 41° 8.5cm › ‹ @ 101.90 QVbull 29° 0.5cm › ‹ @ 108.48 QVbull 70° 0.2cm › ‹ @ 114.26 QVbull 65° 1.5cm › « ser 3%»	VA10090441	I088435	98	99.5	0.025
			VA10090441	I088437	99.5	101	0.025
			VA10090441	I088438	101	102.5	0.025
			VA10090441	I088439	102.5	104	0.025
105			VA10090441	I088440	104	105.5	0.025
			VA10090441	I088441	105.5	107	0.025
			VA10090441	I088442	107	108.5	0.025
			VA10090441	I088444	108.5	110	0.025
110			VA10090441	I088445	110	111.5	0.025
			VA10090441	I088446	111.5	113	0.025
			VA10090441	I088447	113	114.5	0.025
115			VA10090441	I088448	114.5	116	0.025
			VA10090441	I088450	116	117.83	0.025
	Cat.1: Siltstone / Argillite	Cat 1: Siltstone/Argillite: Fg dark grey siltstone (65%) interbedded with v.fg black argillite (30%) and also contains some minor dark grey tuff sections (<5%) and traces of the green cr-mica altered rock can be seen also in very thin beds. Beds are quite deformed (cat 1) with bedding difficult to measure and also contains a few faulted areas- likely related to the fault zone in silt/arg below. Unit also contains persistent felsic anastomising veinlets and pyrite appears usually as disseminated xls stretched and deformed along bedding planes. Qz veins also highly deformed. « ank 2%» « py 3.2% 0.3-1.5mm» ‹ @ 120.49 S0 65° › ‹ @ 134.35 S0 50° › ‹ @ 118.25 QVbull 29° 0.4cm › ‹ @ 128.55 QV2 50° 0.8cm › ‹ @ 134.21 QV2 60° 1.1cm › ‹ @ 125.77 FZ 0° 6.0cm, not measurable, grind › ‹ @ 126.40 FZ 0° 7.0cm, grind, not measurable ›	VA10090441	I088451	117.83	119.5	0.025
120			VA10090441	I088452	119.5	121	0.025
			VA10090441	I088453	121	122.5	0.05
			VA10090441	I088454	122.5	124	0.07
125			VA10090441	I088455	124	125.5	0.07
			VA10090441	I088457	125.5	127	0.025
			VA10090441	I088458	127	128.5	0.025
130			VA10090441	I088459	128.5	130	0.025
			VA10090441	I088460	130	131.5	0.025
			VA10090441	I088461	131.5	133.5	0.025
			VA10090441	I088463	133.5	135	0.1
135			VA10090441	I088464	135	136.5	0.15
	Fault in Cat.1 Siltstone / Argillite	Fault Zone in Cat 1 Siltstone/Argillite: Same rock type as previous. Highly fractured with large areas of gouge and grind. CORE LOSS- 1.5m in total « ank 1%» « py 0.8% 0.1-1.0mm» ‹ @ 138.53 QV2 80° 0.2cm › ‹ @ 143.85 QVbull 30° 16.0cm › ‹ @ 149.00 QVbull 80° 5.5cm › ‹ @ 153.04 QV2 85° 2.8cm › ‹ @ 154.90 QVbull 35° 6.5cm › ‹ @ 158.12 QVbull 40° 1.9cm › ‹ @ 136.72 FZ 54° 16.0cm, gouge › ‹ @ 139.70 FZ 0° 7.0cm, gouge, not measurable › ‹ @ 145.10 FZ 80° 43.0cm, gouge grind › ‹ @ 146.53 FZ 78° 14.5cm, gouge › ‹ @ 148.00 FZ 0° 17.0cm, gouge _grind, not measurable › ‹ @ 148.44 FZ 60° 20.0cm, gouge slicks › ‹ @ 150.50 FZ 82° 196.0cm, gouge slicks, grind › ‹ @ 152.14 FZ 78° 72.0cm, gouge, slicks _grind › ‹ @ 158.63 FZ 0° 80.0cm, gouge, in core loss › ‹ @ 158.90 FZ 0° 12.0cm, grind, not measurable ›	VA10090441	I088465	136.5	138	0.29
			VA10090441	I088466	138	139.5	0.37
140			VA10090441	I088467	139.5	141	0.21
			VA10090441	I088468	141	142.5	0.15
			VA10090441	I088470	142.5	144	0.11
145			VA10090441	I088471	144	145.5	0.14
			VA10090441	I088472	145.5	147	0.16
			VA10090441	I088473	147	148.5	0.23
			VA10090441	I088474	148.5	150	0.15

10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150	Fault in Cat.1 Siltstone / Argillite	Fault Zone in Cat 1 Siltstone/Argillite:	VA10090441	I088474	148.5	150	0.15
		Same rock type as previous. Highly fractured with large areas of gouge and grind.	VA10090441	I088475	150	151.5	0.19
		CORE LOSS- 1.5m in total					
		« ank 1%» « py 0.8% 0.1-1.0mm»	VA10090441	I088477	151.5	153	0.4
		‹ @ 138.53 QV2 80° 0.2cm › ‹ @ 143.85 QVbull 30° 16.0cm › ‹ @ 149.00 QVbull 80° 5.5cm › ‹ @ 153.04 QV2 85° 2.8cm › ‹ @ 154.90 QVbull 35° 6.5cm › ‹ @ 158.12 QVbull 40° 1.9cm ›					
		‹ @ 136.72 FZ 54° 16.0cm, gouge › ‹ @ 139.70 FZ 0° 7.0cm, gouge, not measurable › ‹ @ 145.10 FZ 80° 43.0cm, gouge grind › ‹ @ 146.53 FZ 78° 14.5cm, gouge › ‹ @ 148.00 FZ 0° 17.0cm, gouge _grind, not measurable ›	VA10090441	I088478	153	154.5	0.07
155		‹ @ 148.44 FZ 60° 20.0cm, gouge slicks › ‹ @ 150.50 FZ 82° 196.0cm, gouge slicks, grind › ‹ @ 152.14 FZ 78° 72.0cm, gouge, slicks _grind › ‹ @ 158.63 FZ 0° 80.0cm, gouge, in core loss › ‹ @ 158.90 FZ 0° 12.0cm, grind, not measurable ›	VA10090441	I088479	154.5	157	0.36
			VA10090441	I088480	157	159	0.1
160	Siltstone / Argillite	Siltstone/Argillite (60/40): Medium bedded to thinly laminated fg grey siltstone and v.fg black argillite. Bedding is obvious and planar but shows some crenulations on a mm-cm scale. Lowest 1m of unit has zebra stripe appearance due to thin felsic laminate- this is where the crenulations are visible.	VA10090441	I088481	159	160.5	0.025
		Crenulations visible @164.55- almost developed to crenulation cleavage and show micro S-folds ‹ @ 164.55 S0 40-148°, Beta to crenulation cleavage › ‹ @ 164.55 CCL 70° ›	VA10090441	I088483	160.5	162	0.08
		« ank 8%» « py 1.6% 0.2-12.0mm»	VA10090441	I088484	162	163.5	0.78
		‹ @ 162.70 S0 55° › ‹ @ 165.00 S0 52° ›					
		‹ @ 159.04 QVbull 50° 5.6cm › ‹ @ 163.05 QVbull 62° 1.1cm › ‹ @ 163.86 QVbull 49° 4.0cm › ‹ @ 165.78 QVbull 51° 33.0cm ›	VA10090441	I088485	163.5	165	0.48
165			VA10090441	I088486	165	166	0.43
	Siltstone / Tuff	Siltstone/Tuff: Interbedded (thin-medium beds) fg grey siltstone (70%) with fg-mg grey crystal tuff (30%). Bedding is planar and shows more deformation in the sediment beds. Some graphitic v.fg black argillite areas (<5%) are also seen at fractures.	VA10090441	I088487	166	167.5	0.32
		Unit also contains a thin bed (3cm not visibly bedded) which has a limey component (groundmass strongly reacts with acid not just the ankerite) @166.66					
		« ank 16%» « py 1.2% 0.5-15.0mm»	VA10090441	I088488	167.5	169	0.79
		‹ @ 166.75 S0 18° › ‹ @ 168.06 S0 40° › ‹ @ 171.70 S0 39° › ‹ @ 173.35 S0 29° › ‹ @ 174.34 S0 20° ›					
170		‹ @ 166.60 QV2 90° 0.2cm › ‹ @ 167.75 QVbull 42° 0.9cm › ‹ @ 167.90 QVbull 27° 2.8cm › ‹ @ 170.36 QVbull 87° 0.3cm › ‹ @ 172.93 QVbull 25° 2.7cm › ‹ @ 175.36 QVbull 25° 2.7cm ›	VA10090441	I088490	169	170.5	0.14
		Sph _Gal in qv bull: ‹ @ 172.93 sph 1.0% 3-6mm, 3x xls › ‹ @ 172.93 ga 3.0mm, 1x xls ›	VA10090441	I088491	170.5	172	0.49
			VA10090441	I088492	172	173.5	0.32
			VA10090441	I088493	173.5	175	0.29
175			VA10090441	I088494	175	176.5	0.2
			VA10090441	I088495	176.5	178	7.17
	Crystal Tuff / Sediments	Crystal Tuff/Sediments: Interbedded fg-mg crystal tuff (75%) with fg grey siltstone (25%) on a medium to thickly bedded scale. Contacts display reworking of adjacent units between siltstone into the tuff with faulting and fractures visible.	VA10090441	I088497	178	179.5	0.13
180		CORE LOSS 0.3m in faulted area	VA10090441	I088498	179.5	181	0.025
		« ank 6%» « py 0.6% 3.0-14.0mm»	VA10090441	I088499	181	182.5	0.24
		‹ @ 181.75 S0 35° › ‹ @ 191.38 S0 55° › ‹ @ 187.95 S0 40° ›					
		‹ @ 179.15 QVbull 80° 0.3cm › ‹ @ 182.55 QVbull 66° 0.3cm › ‹ @ 183.58 QVbull 55° 3.3cm › ‹ @ 184.41 QVbull 75° 0.2cm › ‹ @ 185.79 QVbull 62° 1.2cm › ‹ @ 186.40 QVbull 50° 1.1cm › ‹ @ 187.70 QVbull 70° 0.8cm ›	VA10090441	I088500	182.5	184	0.41
		‹ @ 192.12 FZ 52° 18.0cm, core loss .3m, slicks _gouge ›					
185			VA10090441	I088501	184	185.5	0.08
			VA10090441	I088503	185.5	187	0.16
			VA10090441	I088504	187	188.5	0.09
			VA10090441	I088505	188.5	190	0.025
190			VA10090441	I088506	190	191.5	0.025
		Crystal Lithic Tuff: Fg-cg dark grey crystal lithic tuff. Slight bedding is seen- particularly in areas with higher abundance of lithics. Lithics appear as black sub-angular liths 2-10mm in size in areas up to 3% abundance. Occasional well rounded large (10mm) lithics are found (@194.75m).	VA10090441	I088508	191.5	193	0.44
		CORE LOSS 1.1m	VA10090441	I088509	193	194.5	0.06
		« ank 19%» « py 0.3% 3.0-14.0mm»					
195		‹ @ 202.77 S0 25°, alignment of lithics › ‹ @ 204.60 S0 20° ›	VA10090441	I088510	194.5	196	0.025
	Crystal Lithic Tuff	‹ @ 195.85 QVbull 35°, cpy 1x 3mm xl › ‹ @ 199.25 QVbull 60° 0.9cm › ‹ @ 201.78 QVbull 55° 1.6cm › QV	VA10090441	I088511	196	197.5	0.25
		‹ @ 195.85 cpy 0.1% 3.0mm, xl in qvbull ›					
		‹ @ 206.90 FZ 28° 15.0cm, slick _gouge ›	VA10090441	I088512	197.5	199	0.025

10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Crystal Lithic Tuff	Crystal Lithic Tuff: Fg-cg dark grey crystal lithic tuff. Slight bedding is seen- particularly in areas with higher abundance of lithics. Lithics appear as black sub-angular liths 2-10mm in size in areas up to 3% abundance. Occasional well rounded large (10mm) lithics are found (@194.75m).	VA10090441	I088512	197.5	199	0.025
		CORE LOSS 1.1m	VA10090441	I088513	199	200.5	0.025
		« ank 19%» « py 0.3% 3.0-14.0mm»	VA10090441	I088514	200.5	202	0.025
		‹ @ 202.77 S0 25°, alignment of lithics › ‹ @ 204.60 S0 20° ›	VA10090441	I088515	202	203.5	0.025
		‹ @ 195.85 QVbull 35°, cpy 1x 3mm xl › ‹ @ 199.25 QVbull 60° 0.9cm › ‹ @ 201.78 QVbull 55° 1.6cm › QV	VA10090441	I088517	203.5	205	0.025
205		‹ @ 195.85 cpy 0.1% 3.0mm, xl in qvbull ›	VA10090441	I088518	205	206.5	0.025
		‹ @ 206.90 FZ 28° 15.0cm, slick_gouge ›	VA10090441	I088519	206.5	208	0.025
			VA10090441	I088520	208	209	0.025
210			VA10090441	I088521	209	211.04	0.025
	5% Alt. Crystal Lithic Tuff	Altered Crystal Lithic Tuff: Similar to previous unit but more sericitic alteration is seen. Alteration varies in 2-3m sections and can change abruptly to very unaltered greys to pale grey/cream colour at distinct bdys. Lithics are sparse but appear in abundance up to 3% in small 10-20cm sections. Show as subangular black liths 2-3mm and also larger subrounded grey or black liths roughly 10mm in size. Similiarly contains a few larger highly rounded lithics.	VA10090441	I088522	211.04	212.5	0.025
		Unit in places show jigsaw texture- brecciated tuff with anastomising black mafic veinlets running through, still competent though.	VA10090441	I088523	212.5	214	0.025
		« ank 14%» « py 0.1% 3.0-12.0mm»	VA10090441	I088525	214	215.5	0.025
215		‹ @ 220.85 QVbull 60° 0.6cm ›	VA10090441	I088526	215.5	217	0.025
		« ser 5 %»	VA10090441	I088527	217	218.5	0.025
			VA10090441	I088528	218.5	220	0.025
220			VA10090441	I088530	220	221	0.025
			VA10090441	I088531	221	222.21	0.025
	25% Alt. Crystal Tuff	3% Alt. Crystal Tuff: Pale cream quite homogenous mg crystal tuff. Bedding not seen. In areas grey sub-rounded qz xls 3-4mm in size are visible in no particular orientation. Areas of chlorite alteration, seen as dark green rims around ankerite xls, are found particularly around distinct fractures that have fine white powder along the fracture surface- talc? No pyrite.	VA10090441	I088532	222.21	223.5	0.025
		« ank 8%»	VA10090441	I088533	223.5	225	0.025
225		‹ @ 229.71 QVbull 29° 1.1cm ›	VA10090441	I088534	225	226.5	0.025
		« ser 25%»	VA10090441	I088535	226.5	228.5	0.025
		« 222.21- 222.51 chl 2%» « 223.20- 223.45 chl 3%» « 225.15- 225.30 chl 1%»	VA10090441	I088537	228.5	230	0.025
230			VA10090441	I088538	230	231	0.025
	20% Alt. Crystal Tuff	20% Alt. Crystal Tuff: Mg-cg pale grey crystal tuff overprinted by fine mafic veinlets with no preferred orientation. Massive bed with bedding not obvious but with some variation in sericitic alteration. Rounded 2-3mm qz xls @241m are seen in large abundance (10%). Thin graphitic rich layers are seen within the unit and areas of increasing sediment content show an increase in pyrite xls and more of the mafic veinlets.	VA10090441	I088539	231	232.5	0.92
		« ank 5%» « py 0.3% 6.0-20.0mm»	VA10090441	I088540	232.5	234	0.31
		‹ @ 231.92 QVbull 70° 1.0cm › ‹ @ 233.00 QVbull 50° 1.1cm › ‹ @ 235.60 QVbull 62° 4.5cm › ‹ @ 236.75 QVbull 65° 15.0cm, 3% py › ‹ @ 238.05 QVbull 60° 3.6cm › ‹ @ 238.82 QVbull 56° 7.0cm › ‹ @ 240.80 QVbull 80° 14.0cm, 6% py ›	VA10090441	I088541	234	235.5	0.11
235		« ser 20%»	VA10090441	I088543	235.5	237	0.74
			VA10090441	I088544	237	238.5	0.14
			VA10090441	I088545	238.5	240	0.81
240		Fault Zone: Large area of gouge_grind	VA10090441	I088546	240	241.5	0.36
		‹ @ 244.40 FZ 75° 234.0cm, includes .3m core loss ›	VA10090441	I088547	241.5	243.44	0.025
		« py 0.4% 0.5-1.0mm»	VA10090441	I088548	243.44	245.5	0.54
	Fault	Tuff/Sediment: Interbedded fg-mg grey-pale cream altered tuff (75%) with fg dark grey siltstone (25%) with minor argillite component. Some clear contacts can be seen between the tuff and sediment bed but others are gradational or have a breciated appearance with the sediment squeezed around blocks of the tuff. Py abundance increases with increasing sediment composition and show as large euhedral xls. Minor element of sericitic altered tuff in the middle of the unit and mineralisation in qz veins is visible- vg, Sph and Gal in one.	VA10090441	I088549	245.5	247	0.16
245		« ank 6%» « py 0.5% 3.0-14.0mm»	VA10090441	I088551	247	248.5	0.025
	Tuff / Sediment	‹ @ 250.82 S0 42° › ‹ @ 255.74 S0 52° ›					
		‹ @ 251.58 QVbull 50° 2.1cm › ‹ @ 251.77 QVbull 70° 0.7cm › ‹ @ 252.87 QVbull 30° 3.3cm, vg, sph, gal › ‹ @ 254.68 QVbull 44° 5.0cm ›					
		‹ @ 248.65 FZ 62° 1.3cm, gouge › ‹ @ 247.80 FZ 60° 4.5cm ›					
		« 250.60- 252.70 ser 10%»					



Scale 1:200	Start Depth :198.38	End Depth :247.98	Page No.: 5

10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
250	Tuff / Sediment	Tuff/Sediment: Interbedded fg-mg grey-pale cream altered tuff (75%) with fg dark grey siltstone (25%) with minor argillite component. Some clear contacts can be seen between the tuff and sediment bed but others are gradational or have a breciated appearance with the sediment squeezed around blocks of the tuff. Py abundance increases with increasing sediment composition and show as large euhedral xls. Minor element of sericitic altered tuff in the middle of the unit and mineralisation in qz veins is visible- vg, Sph and Gal in one.	VA10090441	I088551	247	248.5	0.025
		« ank 6%» « py 0.5% 3.0-14.0mm»	VA10090441	I088552	248.5	250	0.27
		‹ @ 250.82 S0 42° › ‹ @ 255.74 S0 52° ›	VA10090441	I088553	250	251.5	0.025
		‹ @ 251.58 QVbull 50° 2.1cm › ‹ @ 251.77 QVbull 70° 0.7cm › ‹ @ 252.87 QVbull 30° 3.3cm, vg, sph, gal › ‹ @ 254.68 QVbull 44° 5.0cm ›	VA10090441	I088554	251.5	252.5	0.025
		‹ @ 248.65 FZ 62° 1.3cm, gouge › ‹ @ 247.80 FZ 60° 4.5cm ›	VA10090441	I088555	252.5	253.25	1.09
		« 250.60- 252.70 ser 10%»	VA10090441	I088557	253.25	254.5	0.1
255			VA10090441	I088558	254.5	255.5	0.26
	20% Alt. Crystal Lithic Tuff	20% Alt. Crystal Lithic Tuff/Sediment: Mg pale grey/cream lithic tuff bedded with minor sediment component (<10%). Lithics are occasional large flattened black grey liths 2-3cm in size and are aligned with bedding and some smaller angular fragments 1-2mm in low abudance. Sericitic alteration varies slightly in the unit and can change dramatically over a qz vein.	VA10090441	I088559	255.5	256.84	0.025
		« ank 9%» « py 0.1% 1.0-2.0mm»	VA10090441	I088560	256.84	258	0.025
		‹ @ 257.41 S0 45°, alignment of lithics ›	VA10090442	I088561	258	259.5	0.025
260		‹ @ 258.90 QVbull 55° 0.6cm › « ser 20%»	VA10090442	I088562	259.5	260.59	0.025
	Crystal Tuff / Sediment	Crystal Tuff/Sediment: Interbedded grey fg-mg crystal tuff (70%) interbedded with dark grey fg. siltstone/argillite (30%). Appears in areas as clearly bedded finely laminated core but also is seen as a quite brecciated jigsaw texture with dark grey veinlets anastomising across the tuff, sometimes with slight orientation of the original bedding visible. This texture changes quite regularly throughout on a 0.4-1m scale. Lithics do occur in low abundance (<1%) within localised tuff beds 10-30cm in size (<10% of total unit).	VA10090442	I088564	260.59	262	0.025
		« ank 12%» « py 0.4% 0.5-15.0mm»	VA10090442	I088565	262	263.5	0.08
		‹ @ 270.00 S0 50° › ‹ @ 276.63 S0 40° › ‹ @ 279.83 S0 36° › ‹ @ 286.90 S0 52° › ‹ @ 290.85 S0 50° › ‹ @ 296.50 S0 50° › ‹ @ 301.70 S0 15° › ‹ @ 314.10 S0 15° › ‹ @ 330.35 S0 38° › ‹ @ 342.65 S0 50° ›	VA10090442	I088566	263.5	265	0.05
265		‹ @ 212.42 QVbull 40° 22.0cm › ‹ @ 260.70 QVbull 40° 10.0cm › ‹ @ 269.18 QVbull 50° 0.8cm › ‹ @ 264.72 QVbull 26° 1.4cm › ‹ @ 165.24 QVbull 57° 0.4cm › ‹ @ 267.30 QVbull 31° 4.6cm › ‹ @ 268.92 QVbull 60° 2.1cm › ‹ @ 273.37 QVbull 60° 5.5cm › ‹ @ 273.70 QVbull 45° 13.0cm, cpy 1%, gal .5% › ‹ @ 274.53 QVbull 37° 0.6cm › ‹ @ 275.73 QVbull 40° 1.3cm, sph, cpy › ‹ @ 276.37 QVbull 47° 2.8cm › ‹ @ 278.45 QVbull 50° 8.8cm › ‹ @ 281.15 QVbull 30° 0.9cm › ‹ @ 288.50 QVbull 18° 1.8cm › ‹ @ 289.32 QVbull 52° 1.6cm, 60% py › ‹ @ 293.00 QVbull 40° 0.9cm › ‹ @ 294.74 QVbull 30° 3.8cm › ‹ @ 298.80 QVbull 70° 5.2cm › ‹ @ 302.90 QVbull 55° 2.8cm › ‹ @ 304.75 QVbull 52° 8.0cm › ‹ @ 306.00 QVbull 15° 1.8cm › ‹ @ 306.20 QVbull 25° 5.0cm › ‹ @ 306.75 QVbull 30° 5.5cm › ‹ @ 309.00 QVbull 57° 28.0cm › ‹ @ 310.50 QVbull 50° 1.8cm › ‹ @ 310.85 QVbull 55° 14.5cm › ‹ @ 311.30 QVbull 40° 24.0cm › ‹ @ 312.00 QVbull 38° 1.0cm › ‹ @ 314.32 QVbull 60° 1.3cm › ‹ @ 314.76 QVbull 35° 8.0cm › ‹ @ 316.55 QVbull 40° 17.0cm › ‹ @ 316.93 QVbull 65° 1.3cm › ‹ @ 323.77 QVbull 40° 3.0cm › ‹ @ 326.70 QVbull 60° 8.0cm › ‹ @ 328.21 QVbull 50° 7.0cm › ‹ @ 333.37 QVbull 50° 0.4cm › ‹ @ 334.64 QVbull 50° 0.4cm › ‹ @ 336.38 QVbull 50° 9.0cm › ‹ @ 336.85 QVbull 33° 7.5cm, sph gal › ‹ @ 339.29 QVbull 70° 1.0cm › ‹ @ 344.37 QVbull 70° 1.6cm ›	VA10090442	I088567	265	266.5	0.025
		‹ @ 273.70 cpy 1.0% 4.0-4.0mm, in qvbull › ‹ @ 273.70 ga 0.5% 3.0-5.0mm, in qvbull › ‹ @ 275.73 sph 2.0% 3-5mm, 4x xls › ‹ @ 275.73 cpy 1.0% 2.0-3.0mm, in qvbull › ‹ @ 313.00 cpy 0.5% 4.0mm, in QVbull › ‹ @ 336.85 sph 2.0% 8mm, in QVbull › ‹ @ 336.85 ga 6.0% 16.0mm ›	VA10090442	I088568	266.5	268	0.75
		‹ @ 300.59 FZ 60° 3.5cm, gouge slicks › ‹ @ 322.37 FZ 20° 13.0cm, gouge › ‹ @ 325.20 FZ 10° 6.0cm, gouge slicks › ‹ @ 346.60 FZ 45° 32.0cm, grind gouge, slicks ›	VA10090442	I088570	268	269.5	0.025
270			VA10090442	I088571	269.5	271	0.025
			VA10090442	I088572	271	272.5	0.07
			VA10090442	I088573	272.5	274	0.52
275			VA10090442	I088574	274	275.5	0.34
			VA10090442	I088575	275.5	277	0.18
			VA10090442	I088577	277	278.5	0.35
280			VA10090442	I088578	278.5	280	0.07
			VA10090442	I088579	280	281.5	0.025
			VA10090442	I088580	281.5	283	0.08
			VA10090442	I088581	283	284.5	0.05
285			VA10090442	I088582	284.5	286	0.025
			VA10090442	I088583	286	287.5	0.025
			VA10090442	I088585	287.5	289	0.11
290			VA10090442	I088586	289	290.5	0.24
			VA10090442	I088587	290.5	292	0.025
			VA10090442	I088588	292	293.5	0.025
			VA10090442	I088589	293.5	295	0.025
295			VA10090442	I088590	295	296.5	0.025
			VA10090442	I088592	296.5	298	0.025

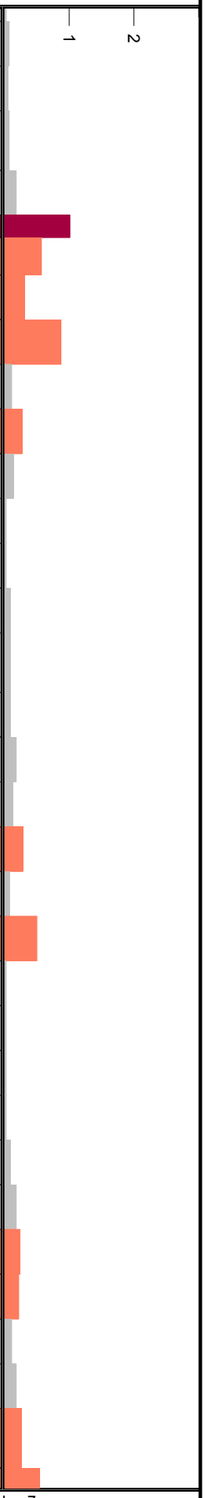
10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Geology

Depth At	Rocktype	Description
300	Crystal Tuff / Sediment	Crystal Tuff/Sediment: Interbedded grey fg-mg crystal tuff (70%) interbedded with dark grey fg. siltstone/argillite (30%). Appears in areas as clearly bedded finely laminated core but also is seen as a quite brecciated jigsaw texture with dark grey veinlets anastomising across the tuff, sometimes with slight orientation of the original bedding visible. This texture changes quite regularly throughout on a 0.4-1m scale. Lithics do occur in low abundance (<1%) within localised tuff beds 10-30cm in size (<10% of total unit). « ank 12%» « py 0.4% 0.5-15.0mm» ‹ @ 270.00 S0 50° › ‹ @ 276.63 S0 40° › ‹ @ 279.83 S0 36° › ‹ @ 286.90 S0 52° › ‹ @ 290.85 S0 50° › ‹ @ 296.50 S0 50° › ‹ @ 301.70 S0 15° › ‹ @ 314.10 S0 15° › ‹ @ 330.35 S0 38° › ‹ @ 342.65 S0 50° › ‹ @ 212.42 QVbull 40° 22.0cm › ‹ @ 260.70 QVbull 40° 10.0cm › ‹ @ 269.18 QVbull 50° 0.8cm › ‹ @ 264.72 QVbull 26° 1.4cm › ‹ @ 165.24 QVbull 57° 0.4cm › ‹ @ 267.30 QVbull 31° 4.6cm › ‹ @ 268.92 QVbull 60° 2.1cm › ‹ @ 273.37 QVbull 60° 5.5cm › ‹ @ 273.70 QVbull 45° 13.0cm, cpy 1%, gal .5% › ‹ @ 274.53 QVbull 37° 0.6cm › ‹ @ 275.73 QVbull 40° 1.3cm, sph, cpy › ‹ @ 276.37 QVbull 47° 2.8cm › ‹ @ 278.45 QVbull 50° 8.8cm › ‹ @ 281.15 QVbull 30° 0.9cm › ‹ @ 288.50 QVbull 18° 1.8cm › ‹ @ 289.32 QVbull 52° 1.6cm, 60% py › ‹ @ 293.00 QVbull 40° 0.9cm › ‹ @ 294.74 QVbull 30° 3.8cm › ‹ @ 298.80 QVbull 70° 5.2cm › ‹ @ 302.90 QVbull 55° 2.8cm › ‹ @ 304.75 QVbull 52° 8.0cm › ‹ @ 306.00 QVbull 15° 1.8cm › ‹ @ 306.20 QVbull 25° 5.0cm › ‹ @ 306.75 QVbull 30° 5.5cm › ‹ @ 309.00 QVbull 57° 28.0cm › ‹ @ 310.50 QVbull 50° 1.8cm › ‹ @ 310.85 QVbull 55° 14.5cm › ‹ @ 311.30 QVbull 40° 24.0cm › ‹ @ 312.00 QVbull 38° 1.0cm › ‹ @ 314.32 QVbull 60° 1.3cm › ‹ @ 314.76 QVbull 35° 8.0cm › ‹ @ 316.55 QVbull 40° 17.0cm › ‹ @ 316.93 QVbull 65° 1.3cm › ‹ @ 323.77 QVbull 40° 3.0cm › ‹ @ 326.70 QVbull 60° 8.0cm › ‹ @ 328.21 QVbull 50° 7.0cm › ‹ @ 333.37 QVbull 50° 0.4cm › ‹ @ 334.64 QVbull 50° 0.4cm › ‹ @ 336.38 QVbull 50° 9.0cm › ‹ @ 336.85 QVbull 33° 7.5cm, sph _gal › ‹ @ 339.29 QVbull 70° 1.0cm › ‹ @ 344.37 QVbull 70° 1.6cm › ‹ @ 273.70 cpy 1.0% 4.0-4.0mm, in qvbull › ‹ @ 273.70 ga 0.5% 3.0-5.0mm, in qvbull › ‹ @ 275.73 sph 2.0% 3-5mm, 4x xls › ‹ @ 275.73 cpy 1.0% 2.0-3.0mm, in qvbull › ‹ @ 313.00 cpy 0.5% 4.0mm, in QVbull › ‹ @ 336.85 sph 2.0% 8mm, in QVbull › ‹ @ 336.85 ga 6.0% 16.0mm › ‹ @ 300.59 FZ 60° 3.5cm, gouge slicks › ‹ @ 322.37 FZ 20° 13.0cm, gouge › ‹ @ 325.20 FZ 10° 6.0cm, gouge slicks › ‹ @ 346.60 FZ 45° 32.0cm, grind _gouge, slicks ›
305		
310		
315		
320		
325		
330		
335		
340		
345		

Geochemistry

CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
VA10090442	I088592	296.5	298	0.025
VA10090442	I088593	298	299.5	0.07
VA10090442	I088594	299.5	301	0.05
VA10090442	I088595	301	303	0.07
VA10090442	I088596	303	304.5	0.18
VA10090442	I088597	304.5	305.25	1.01
VA10090442	I088599	305.25	306.5	0.57
VA10090442	I088600	306.5	308	0.31
VA10090442	I088601	308	309.5	0.87
VA10090442	I088603	309.5	311	0.11
VA10090442	I088604	311	312.5	0.27
VA10090442	I088605	312.5	314	0.14
VA10090442	I088606	314	315.5	0.025
VA10090442	I088607	315.5	317	0.025
VA10090442	I088609	317	318.5	0.09
VA10090442	I088610	318.5	320.5	0.09
VA10090442	I088611	320.5	322	0.09
VA10090442	I088612	322	323.5	0.18
VA10090442	I088613	323.5	325	0.13
VA10090442	I088614	325	326.5	0.28
VA10090442	I088616	326.5	328	0.08
VA10090442	I088617	328	329.5	0.5
VA10090442	I088618	329.5	331	0.025
VA10090442	I088619	331	332.5	0.025
VA10090442	I088620	332.5	334	0.025
VA10090442	I088621	334	335.5	0.025
VA10090442	I088623	335.5	337	0.09
VA10090442	I088624	337	338.5	0.18
VA10090442	I088625	338.5	340	0.24
VA10090442	I088626	340	341.5	0.22
VA10090442	I088627	341.5	343	0.11
VA10090442	I088629	343	344.5	0.18
VA10090442	I088630	344.5	346.5	0.26
VA10090442	I088631	346.5	348	0.54



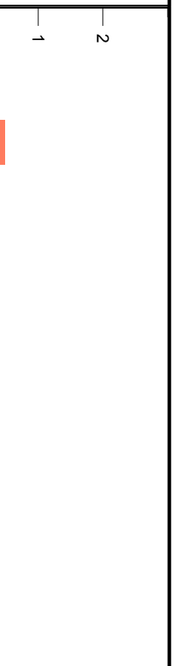
10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Crystal Tuff / Sediment	Crystal Tuff/Sediment: Interbedded grey fg-mg crystal tuff (70%) interbedded with dark grey fg. siltstone/argillite (30%). Appears in areas as clearly bedded finely laminated core but also is seen as a quite brecciated jigsaw texture with dark grey veinlets anastomising across the tuff, sometimes with slight orientation of the original bedding visible. This texture changes quite regularly throughout on a 0.4-1m scale. Lithics do occur in low abundance (<1%) within localised tuff beds 10-30cm in size (<10% of total unit).	VA10090442	I088631	346.5	348	0.54
		« ank 12%» « py 0.4% 0.5-15.0mm»	VA10090442	I088632	348	349.08	0.025
350		‹ @ 270.00 S0 50° › ‹ @ 276.63 S0 40° › ‹ @ 279.83 S0 36° › ‹ @ 286.90 S0 52° › ‹ @ 290.85 S0 50° › ‹ @ 296.50 S0 50° › ‹ @ 301.70 S0 15° › ‹ @ 314.10 S0 15° › ‹ @ 330.35 S0 38° › ‹ @ 342.65 S0 50° ›	VA10090442	I088633	349.08	350.5	0.025
	15% Alt Crystal Tuff / Sediment	‹ @ 212.42 QVbull 40° 22.0cm › ‹ @ 260.70 QVbull 40° 10.0cm › ‹ @ 269.18 QVbull 50° 0.8cm › ‹ @ 264.72 QVbull 26° 1.4cm › ‹ @ 165.24 QVbull 57° 0.4cm › ‹ @ 267.30 QVbull 31° 4.6cm › ‹ @ 268.92 QVbull 60° 2.1cm › ‹ @ 273.37 QVbull 60° 5.5cm › ‹ @ 273.70 QVbull 45° 13.0cm, cpy 1%, gal .5% › ‹ @ 274.53 QVbull 37° 0.6cm › ‹ @ 275.73 QVbull 40° 1.3cm, sph, cpy › ‹ @ 276.37 QVbull 47° 2.8cm › ‹ @ 278.45 QVbull 50° 8.8cm › ‹ @ 281.15 QVbull 30° 0.9cm › ‹ @ 288.50 QVbull 18° 1.8cm › ‹ @ 289.32 QVbull 52° 1.6cm, 60% py › ‹ @ 293.00 QVbull 40° 0.9cm › ‹ @ 294.74 QVbull 30° 3.8cm › ‹ @ 298.80 QVbull 70° 5.2cm › ‹ @ 302.90 QVbull 55° 2.8cm › ‹ @ 304.75 QVbull 52° 8.0cm › ‹ @ 306.00 QVbull 15° 1.8cm › ‹ @ 306.20 QVbull 25° 5.0cm › ‹ @ 306.75 QVbull 30° 5.5cm › ‹ @ 309.00 QVbull 57° 28.0cm › ‹ @ 310.50 QVbull 50° 1.8cm › ‹ @ 310.85 QVbull 55° 14.5cm › ‹ @ 311.30 QVbull 40° 24.0cm › ‹ @ 312.00 QVbull 38° 1.0cm › ‹ @ 314.32 QVbull 60° 1.3cm › ‹ @ 314.76 QVbull 35° 8.0cm › ‹ @ 316.55 QVbull 40° 17.0cm › ‹ @ 316.93 QVbull 65° 1.3cm › ‹ @ 323.77 QVbull 40° 3.0cm › ‹ @ 326.70 QVbull 60° 8.0cm › ‹ @ 328.21 QVbull 50° 7.0cm › ‹ @ 333.37 QVbull 50° 0.4cm › ‹ @ 334.64 QVbull 50° 0.4cm › ‹ @ 336.38 QVbull 50° 9.0cm › ‹ @ 336.85 QVbull 33° 7.5cm, sph ,gal › ‹ @ 339.29 QVbull 70° 1.0cm › ‹ @ 344.37 QVbull 70° 1.6cm ›	VA10090442	I088635	352	353.5	0.025
		‹ @ 273.70 cpy 1.0% 4.0-4.0mm, in qvbull › ‹ @ 273.70 ga 0.5% 3.0-5.0mm, in qvbull › ‹ @ 275.73 sph 2.0% 3-5mm, 4x xls › ‹ @ 275.73 cpy 1.0% 2.0-3.0mm, in qvbull › ‹ @ 313.00 cpy 0.5% 4.0mm, in QVbull › ‹ @ 336.85 sph 2.0% 8mm, in QVbull › ‹ @ 336.85 ga 6.0% 16.0mm ›	VA10090442	I088637	353.5	355	0.025
355		‹ @ 300.59 FZ 60° 3.5cm, gouge slicks › ‹ @ 322.37 FZ 20° 13.0cm, gouge › ‹ @ 325.20 FZ 10° 6.0cm, gouge slicks › ‹ @ 346.60 FZ 45° 32.0cm, grind ,gouge, slicks ›	VA10090442	I088638	355	356.5	0.025
		15% Alt Crystal Tuff (85%)/Sediment (15%): Similar rock type to previous unit but sericitic alteration shows throughout. Lacks the finely laminated sediment beds but shows the fractured blocky jigsaw texture. Overall pale cream to grey rock, tuff grainsize varies up to coarse grained almost lapilli size grains in a small 50cm section @355m. The grainsize grades in and out of this so no clear graded beds are seen. Lacks pyrite.	VA10090442	I088639	356.5	358	0.025
		« ank 4%» « py »	VA10090442	I088640	358	359.5	0.025
		‹ @ 349.53 QVbull 70° 0.9cm › ‹ @ 349.67 QVbull 54° 1.5cm › ‹ @ 352.40 QVbull 27° 0.8cm › ‹ @ 353.33 QVbull 70° 0.8cm › ‹ @ 354.89 QVbull 68° 0.8cm ›	VA10090442	I088641	359.5	361	0.05
360		« ser 15%»	VA10090442	I088643	361	362.5	0.025
	Siltstone / Alt. Tuff	Siltstone/Tuff: Brecciated grey siltstone (and minor argillite) (75%) with pale grey crystal lithic tuff. Lithics are in low abundance but show as black 3-6mm angular fragments within the pale grey tuff. Bedding is not clear although some alignment of darker thin sediment laminae give possible bedding.	VA10090442	I088644	362.5	364	0.025
		« ank 5%» « py 0.1% 1.0-2.0mm»	VA10090442	I088645	364	365.5	0.05
		‹ @ 353.80 S0 40° ›	VA10090442	I088646	365.5	366.5	0.025
		‹ @ 358.39 QVbull 80° 0.3cm › ‹ @ 361.30 QVbull 20° 4.0cm › ‹ @ 361.33 QVbull 35° 1.7cm › ‹ @ 364.30 QVbull 70° 2.2cm, sph 2mm , ga 4mm › ‹ @ 365.35 QVbull 40° 4.5cm ›	VA10090442	I088647	366.5	367.58	0.025
		‹ @ 364.30 sph 0.5% 2mm, 1x xl › ‹ @ 364.30 ga 1.0% 4.0mm, 1x xl in qvbull ›	VA10090442	I088648	367.58	369	0.025
365		« ser 2%»	VA10090442	I088650	369	370.5	0.025
		60% Alt Crystal Tuff: Massive unbedded pale cream to pale green mg crystal tuff. @371.4-373.5 grades in and out of a more maficdarker green coloured tuff showing an increase in chlorite- platy crystals can be seen slightly aligned to bedding. Lack of pyrite throughtout.	VA10090442	I088651	370.5	372	0.025
		« ank 3%»	VA10090442	I088652	372	373.5	0.025
370		‹ @ 371.58 S0 50°, alignment of chlorite in mafic rich bed ›	VA10090442	I088653	373.5	375	0.025
		‹ @ 369.00 QVbull 19° 0.9cm › ‹ @ 373.38 QVbull 70° 0.3cm › ‹ @ 374.85 QVbull 70° 0.5cm › ‹ @ 367.72 QVbull 30° 1.5cm › ‹ @ 378.64 QVbull 28° 4.5cm › ‹ @ 378.90 QVbull 30° 2.3cm › ‹ @ 381.55 QVbull 55° 2.0cm ›	VA10090442	I088654	375	376.5	0.025
		« ser 60%»	VA10090442	I088656	376.5	378	0.025
		« 371.40- 373.50 chl 5%»	VA10090442	I088657	378	379.5	0.025
375			VA10090442	I088658	379.5	381	0.025
	60% Alt Crystal Tuff		VA10090442	I088659	381	383	0.23
		Crystal Tuff/Sediment: Unaltered grey mg crystal tuff (80%) and some fg dark grey siltstone ,minor argillite laminae and beds. Bedding quite fractured and distorted but individual planar beds can be seen.	VA10090442	I088660	383	384.5	0.025
		« ank 7%» « py 0.6% 2.0-10.0mm»	VA10090442	I088661	384.5	386	0.025
		‹ @ 383.52 S0 25° › ‹ @ 386.57 S0 30° ›	VA10090442	I088662	386	387.5	0.23
380		‹ @ 384.38 QVbull 70° 2.5cm › ‹ @ 386.38 QVbull 35° 4.8cm ›	VA10090442	I088664	387.5	388.78	0.1
		50% Alt. Crystal Tuff: Similar massive unbedded altered crystal tuff as above, slightly less altered. Some slight chlorite alteration seen as rims around ankerite	VA10090442	I088665	388.78	390.5	0.025
		« ank 7%»	VA10090442	I088666	390.5	392	0.24
		‹ @ 391.35 QVbull 30° 3.0cm › ‹ @ 393.52 QVbull 57° 3.8cm ›	VA10090442	I088667	392	393.56	0.025
		‹ @ 393.00 FZ 0° 25.0cm, grind, not measurable ›	VA10090442	I088668	393.56	394.63	0.08
385		« 389.23- 389.90 chl 1%»	VA10090442	I088669	394.63	396	0.025
	Crystal Tuff / Sediment	Conglomerate: Small bed of conglomerate in altered crystal tuff. Subangular clasts 5-60mm in size in a matrix supported bed 30cm thick.	VA10090442	I088671	396	397.5	0.025
		« ank 12%»					
		« ser 40%»					
		40% Alt. Crystal Tuff: Same massive crystal tuff, less altered. Some lithic 1-2mm are seen occasionally throughout and some slight bedding is visible.					
		« ank 10%» « py 0.1% 1.0-8.0mm»					
390		‹ @ 399.60 S0 38° ›					
	50% Alt. Crystal Tuff	‹ @ 394.67 QVbull 50° 3.3cm › ‹ @ 401.28 QVbull 40° 1.9cm › ‹ @ 401.85 QVbull 35° 0.8cm › ‹ @ 402.47 QVbull 40° 3.0cm › ‹ @ 403.09 QVbull 47° 2.0cm › ‹ @ 414.51 QVbull 50° 1.0cm ›					
		« ser 40%»					
	Conglomerate						
	40% Alt. Crystal Tuff						
395							

Scale 1:200	Start Depth :347.17	End Depth :396.77	Page No.: 8

10-DDH-907	North :5828401	East :603991	Elevation :1016.6	Hole Length :434.95	Azimuth :118	Dip :-70	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Geology: Rocktype	Geology: Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
400	40% Alt. Crystal Tuff	40% Alt. Crystal Tuff: Same massive crystal tuff, less altered. Some lithic 1-2mm are seen occasionally throughout and some slight bedding is visible. « ank 10%» « py 0.1% 1.0-8.0mm» ‹ @ 399.60 S0 38° › ‹ @ 394.67 QVbull 50° 3.3cm › ‹ @ 401.28 QVbull 40° 1.9cm › ‹ @ 401.85 QVbull 35° 0.8cm › ‹ @ 402.47 QVbull 40° 3.0cm › ‹ @ 403.09 QVbull 47° 2.0cm › ‹ @ 414.51 QVbull 50° 1.0cm › « ser 40%»	VA10090442	I088671	396	397.5	0.025
			VA10090442	I088672	397.5	399	0.025
			VA10090442	I088673	399	400.5	0.025
			VA10090442	I088674	400.5	402	0.48
			VA10090442	I088675	402	403.5	0.05
405			VA10090442	I088677	403.5	405	0.025
			VA10090442	I088678	405	406.5	0.025
			VA10090442	I088679	406.5	408	0.025
			VA10090442	I088680	408	409.5	0.025
410			VA10090442	I088681	409.5	411	0.025
			VA10090442	I088682	411	412.5	0.025
			VA10090442	I088684	412.5	414	0.025
415	Tuff / Sediment	Tuff/Sediment: Deformed interbedded tuff (70%) and sediments (30%) with slight jigsaw texture in places. « ank 11%» « py 0.1% 2.0-12.0mm» ‹ @ 415.67 QVbull 60° 0.2cm › ‹ @ 417.94 QVbull 60° 0.3cm › ‹ @ 420.61 QVbull 47° 1.2cm › ‹ @ 415.21 FZ 80° 1.3cm, gouge › « ser 5%»	VA10090442	I088685	414	415.5	0.025
			VA10090442	I088686	415.5	417	0.025
			VA10090442	I088687	417	418.5	0.025
			VA10090442	I088688	418.5	420	0.025
420			VA10090442	I088689	420	421.5	0.025
		20% Alt. Crystal Tuff: Pale green mg crystal tuff showing green cr-mica alteration with grades out towards the end of the bed to a pale grey colour. Bed also contains a medium bed of darker green more mafic composition rock which has a sharp contact with the tuff on either side and shows possible chilled margin which is finer grained. Interpreted as mafic-dyke	VA10090442	I088691	421.5	423.2	0.025
		« 425.77- 426.08 Mafic-dyke »	VA10090442	I088692	423.2	424.5	0.025
425	20% Alt. Crystal Tuff	« ank 8%» ‹ @ 426.71 S0 52° › ‹ @ 424.30 QVbull 70° 3.5cm › ‹ @ 424.74 QVbull 82° 0.8cm › ‹ @ 425.31 QVbull 70° 1.4cm › ‹ @ 426.88 QVbull 84° 2.2cm › « ser 20%»	VA10090442	I088693	424.5	426	0.08
			VA10090442	I088694	426	427.5	0.025
		Siltstone/Tuff: Unaltered interbedded fg dark grey siltstone to black argillite (65%) with mg-cg grey tuff. Bedding is highly deformed and fractured and @433.15 has the appearance of an angular conglomerate.	VA10090442	I088695	427.5	429	0.15
		« ank 6%» « py 0.6% 2.0-13.0mm»	VA10090442	I088697	429	430.5	0.07
430	Siltstone / Tuff	‹ @ 428.80 S0 45° › ‹ @ 428.62 QVbull 65° 8.0cm › ‹ @ 431.47 QVbull 85° 3.5cm › \	VA10090442	I088698	430.5	432	0.23
			VA10090442	I088699	432	433.5	0.025
	EOH	End of the hole!	VA10090442	I088700	433.5	434.95	0.025
435							
440							
445							



Scale 1:200	Start Depth :396.77	End Depth :446.36	Page No.: 9

10-DDH-908	North :5827601	East :604238	Elevation :1221.1	Hole Length :100.58	Azimuth :207	Dip :-65	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Casing	Casing					
5	Argillite, Siltstone	Interbedded argillites and siltstones (50-50) - fine to med grained, lt to dk grey and black, graphitic, finely laminated to bedded (10-15cm) metaseds. Upper 2m cobbled, limonite stained ans pock-marked due to surface degradation. Minor zones of a fine grained mottled grey rock, possibly tuffaceous in origin (plag feldspar tuff? porphyry?) Whole unit blocky fractures. « py 1% 0.5-1.2mm» « ank 20.0%» ‹ @ 7.17 SO 70° › ‹ @ 11.00 SO 60° › ‹ @ 15.10 SO 85° › ‹ @ 21.50 SO 68° › ‹ @ 10.12 QV2 55° 0.6cm › ‹ @ 12.63 QV2 43° 0.2cm › ‹ @ 11.83 FZ 50° 5.0cm, rock grind › ‹ @ 22.00 FZ 30° 5.0cm, rock grind, 70cm lost core ›	VA10090443	I004617	4.57	6.5	0.025
			VA10090443	I004618	6.5	8	0.025
			VA10090443	I004619	8	9.5	0.06
10			VA10090443	I004621	9.5	11	0.11
			VA10090443	I004622	11	12.5	0.025
			VA10090443	I004623	12.5	14	0.17
15			VA10090443	I004624	14	15.5	0.025
			VA10090443	I004625	15.5	17	0.025
			VA10090443	I004627	17	18.5	0.025
			VA10090443	I004628	18.5	20	0.025
20			VA10090443	I004629	20	21.5	0.025
			VA10090443	I004630	21.5	23.5	0.12
			VA10090443	I004631	23.5	25	0.56
25			VA10090443	I004633	25	26.5	0.025
	Greywacke	Greywacke - uniform, fine to med grained, med grey rock. Gritty texture, salt and pepper color under hand lense. Minor Argillite and siltstone interlayers, otherwise massive in appearance. Rock is brittle, 2-3% felsic strings infill cracks. « py 0.5% 0.5-10.0mm» « ank 12.0%» ‹ @ 37.88 SO 63° › ‹ @ 39.00 QV2 15° 1.3cm, quartz and feld › ‹ @ 39.43 QV2 27° 0.4cm › ‹ @ 41.45 QV2 25° 1.6cm, highly brecciated, rock frags within › ‹ @ 42.65 QV2 23° 3.0cm, rubble › ‹ @ 43.00 QV2 0° 1.4cm, angle not known, crushed › ‹ @ 44.00 QV2 20° 1.6cm, highly fractured › ‹ @ 44.80 QVbull 0° 2.0cm, irreg clot, sphal 1.2 by .9cm › ‹ @ 32.17 FZ 85° 1.5cm, gouge › ‹ @ 43.50 FZ 20° 2.5cm, gouge › ‹ @ 44.10 FZ 20° 2.0cm, clay, rock grind › ‹ @ 42.57 FZ 23° 1.8cm, gouge › ‹ @ 46.15 FZ 0° 7.0cm, rock grind, quartz veining also ground ›	VA10090443	I004634	26.5	28.5	0.025
30			VA10090443	I004635	28.5	30	0.13
			VA10090443	I004636	30	31.5	0.025
			VA10090443	I004637	31.5	33	0.025
			VA10090443	I004638	33	34.5	0.025
35			VA10090443	I004640	34.5	36	0.025
			VA10090443	I004641	36	37.5	0.1
			VA10090443	I004642	37.5	39.16	0.18
40			VA10090443	I004643	39.16	40.5	0.025
			VA10090443	I004644	40.5	42	0.025
			VA10090443	I004646	42	43.5	0.025
			VA10090443	I004647	43.5	45	0.14
45			VA10090443	I004648	45	47	0.37
	Cat.1 Argillite	Cat 1 Argillite - med to dk greys and black, fine to med grained, graphitic with 20% siltstone interbeds. Unit is blocky, fractured, shears occur along the more schistose sections. Unit is laminated to banded with breakage/boudining occuring for alot of the lighter bands. Orig layering can be reconnected in most cases so prefixed as Cat 1. « py 1.0% 0.5-4.0mm» « ank 20.0%» ‹ @ 46.48 SO 68° › ‹ @ 49.90 SO 33° › ‹ @ 51.75 SO 22° › ‹ @ 48.53 FZ 63° 3.0cm, clay, rock grind › ‹ @ 50.80 FZ 0° 6.0cm, rock crush, no readable angle ›	VA10090443	I004649	47	48.5	0.32
			VA10090443	I004650	48.5	50	0.025

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-908	North :5827601	East :604238	Elevation :1221.1	Hole Length :100.58	Azimuth :207	Dip :-65	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Cat.1 Argillite	Cat 1 Argillite - med to dk greys and black, fine to med grained, graphitic with 20% siltstone interbeds. Unit is blocky, fractured, shears occur along the more schistose sections. Unit is laminated to banded with breakage/boudining occuring for alot of the lighter bands. Orig layering can be reconnected in most cases so prefixed as Cat 1. « py 1.0% 0.5-4.0mm» « ank 20.0%» ‹ @ 46.48 SO 68° › ‹ @ 49.90 SO 33° › ‹ @ 51.75 SO 22° › ‹ @ 48.53 FZ 63° 3.0cm, clay, rock grind › ‹ @ 50.80 FZ 0° 6.0cm, rock crush, no readable angle ›	VA10090443	I004650	48.5	50	0.025
			VA10090443	I004651	50	51.5	0.025
	Greywacke, Siltstone	Banded to massive greywacke and siltstones with less than 5% darker, more schistose argillitic layers - grwk is massive, med grey, with a evenly distributed, "salt and pepper" fine to med grained mineral composition. Banding is defined by color changes caused by changes in mafic content and grain sizes. Cataclastic movement has occurred however appears not to a great extent. Lower 4m brecciated, rubbly. « py 0.8% 0.5-0.6mm» « ank 20.0%» Note of caution regarding bedding measurements - There is a subtle orientation of minerals (dark platy) and faint bedding so I've used this - the more pronounced layers of felsic veining - probably 2nd event - are oblique and can deceptively look like they are parallelling the orig planes. Frac planes even parallel this second direction. ‹ @ 56.29 SO 20° › ‹ @ 61.30 SO 32° › this is a unique sample that points out the above para. Here I've measured the 2nd gen felsic veining at around 50 degrees to CA - Peter Read not sure what to label it as right now.	VA10090443	I004652	51.5	53	0.025
			VA10090443	I004654	53	54.5	0.025
55			VA10090443	I004655	54.5	56	0.025
			VA10090443	I004656	56	57.5	0.05
			VA10090443	I004657	57.5	59	0.025
60			VA10090443	I004658	59	60.5	0.025
			VA10090443	I004659	60.5	62	0.025
			VA10090443	I004661	62	63.5	0.07
65			VA10090443	I004662	63.5	65	0.13
			VA10090443	I004663	65	66	0.06
			VA10090443	I004664	66	67.1	0.15
	Cat.2 Argillite, Siltstone	Cat 2 Argillite and Siltstone - fine to med grained, well banded, lt to med grey with lesser dk grey-black layers. Lighter layers show folding, contortion, breakage and boudins with units completely dismembered, untraceable. Unit is blocky due to proximity to fault zone. « py 3.0% 0.5-6.0mm» pyrite mainly as crushed smears on fabric « ank 15.0%» ‹ @ 67.70 SO 58° › ‹ @ 72.40 SO 55° › Quartz ‹ @ 69.59 QV2 55° 0.2cm ›	VA10090443	I004665	67.1	68.5	0.74
70			VA10090443	I004667	68.5	70	0.76
			VA10090443	I004668	70	71.5	0.42
		Faults ‹ @ 69.52 FZ 80° 2.0cm, rock crush › ‹ @ 71.08 FZ 20° 1.5cm, rock crush, clay › ‹ @ 72.88 FZ 30° 2.0cm, clay, rock grind ›	VA10090443	I004669	71.5	73	0.55
	Fault	Fault zone in argillite - black gouge and crushed/broken core, 4.4m lost core in total. Host rock is mainly argillite. « py 3.5%» hard to determine Quartz One crushed qv2 approx 2cm wide but unmeasurable. Faults ‹ @ 74.68 FZ 0° 210.0cm, gouge, 70cm lost core, angle not avail › ‹ @ 76.50 FZ 0° 110.0cm, gouge, clay, crushed rock, 80cm lost core, angle not avail › ‹ @ 78.50 FZ 0° 150.0cm, gouge, clay crushed rock, no angle avail › ‹ @ 80.60 FZ 30° 170.0cm, gouge, clay, rock crush, 1.7m lost core ›	VA10090443	I004671	73	75	0.12
75			VA10090443	I004672	75	77	0.05
			VA10090443	I004673	77	79.25	0.23
80			VA10090443	I004674	79.25	82	0.08
	Cat.2 Argillite, Siltstone	Cat 2 Argillite, Siltstone as in prev Cat 2 unit. « py 3.5% 0.5-3.0mm» « ank 20.0%» ‹ @ 87.82 QV2 60° 1.2cm, contorted, boudined › ‹ @ 86.80 FZ 20° 50.0cm, gouge, rock grind › ‹ @ 87.58 FZ 40° 25.0cm, clay rock grind; 20 cm lost core ›	VA10090443	I004675	82	83.5	0.11
			VA10090443	I004676	83.5	85	0.13
85			VA10090443	I004677	85	86.5	0.09
			VA10090443	I004678	86.5	88	0.09
	Fault	Fault Zone in Argillite and Siltstones. - black gouge, crushed core. 3.35m lost core in total. « py 5.0% 0.5-2.0mm» hard to estimate pyrite - this is in the few remnant chunks. ‹ @ 98.06 QV2 58° 0.8cm › Other qv2 veins total about 3-4cm but crushed in fault. Faults hard to get angle on, but appear to be: 90.95m - 50 deg 95m - 40 deg	VA10090443	I004679	88	90	0.07
90			VA10090443	I004680	90	91.5	0.06
			VA10090443	I004682	91.5	93.5	0.05
			VA10090443	I004683	93.5	95	0.07
95			VA10090443	I004684	95	97	0.1
			VA10090443	I004685	97	100.58	0.08

10-DDH-908	North :5827601	East :604238	Elevation :1221.1	Hole Length :100.58	Azimuth :207	Dip :-65	Logged by :JAS	Size :HQ3	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
100	Fault EOH	Fault Zone in Argillite and Siltstones. - black gouge, crushed core. 3.35m lost core in total. « py 5.0% 0.5-2.0mm» hard to estimate pyrite - this is in the few remnant chunks. ‹ @ 98.06 QV2 58° 0.8cm › Other qv2 veins total about 3-4cm but crushed in fault. Faults hard to get angle on, but appear to be: 90.95m - 50 deg 95m - 40 deg Hole terminated early due to inability to get thru fault zone. Possibly aggravated by the fact that the drill shack had changed attitude, dropped down in the rear. Drill was moved over, new azimuth and dip chosen, new hole is 10-DDH-909.	VA10090443	I004685	97	100.58	0.08	
105								
110								
115								
120								
125								
130								
135								
140								
145								

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-909	North :5827558	East :604254	Elevation :1236	Hole Length :179.71	Azimuth :222	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
	Casing	Casing					
	Siltstone	Siltstone - laminated to banded, light to dark grey, fine to med grained rock. Blocky rock, corroded ankerite pits, limonite on fracs but appears to be bedrock. HOWEVER - there is a section of overburden-like rubble (9.14 to 11m) between this and the following darker argillitic rock and this unit could be a large rafted block. Oddly - this block also has a moderate fizz - mainly from hair-like calcite lines but also overall so may be in matrix. « py 0.2% 0.5-1.0mm» « ank 20.0%» ‹ @ 2.68 SO 62° › ‹ @ 6.90 SO 35° ›	VA10090444	I004686	1.9	3.5	0.08
			VA10090444	I004687	3.5	5	0.15
5			VA10090444	I004689	5	6.5	0.025
			VA10090444	I004690	6.5	8	0.025
			VA10090444	I004691	8	9.5	0.025
10			VA10090444	I004692	9.5	12	0.12
	Siltstone, Argillite	Interlayered Siltstones with minor graphitic argillite (10%). Well laminated/banded, fine to med grained, light to dark grey/black with micro crenulations and faulting but not significant - only very minor sections could be termed Cat 1. « py 2.0% 0.5-6.0mm» « ank 15.0%» ‹ @ 12.20 SO 68° › ‹ @ 14.72 SO 60° › ‹ @ 19.00 SO 70° › ‹ @ 23.80 SO 60° › ‹ @ 28.00 SO 80° › ‹ @ 34.20 SO 73° › ‹ @ 37.30 SO 52° › Quartz ‹ @ 25.22 QV2 30° 1.3cm, series of 4 veins › ‹ @ 26.60 QV2 47° 0.3cm › ‹ @ 30.46 QV2 50° 0.5cm › ‹ @ 35.59 QV2 37° 0.2cm › ‹ @ 38.24 QV2 0° 0.4cm, subparallels CA for 1m › Faults ‹ @ 21.00 FZ 55° 2.5cm, clay, rock grind ›	VA10090444	I004693	12	13.5	0.025
15			VA10090444	I004695	13.5	15	0.025
			VA10090444	I004696	15	16.5	0.025
			VA10090444	I004697	16.5	18	0.11
			VA10090444	I004698	18	19.5	0.025
20			VA10090444	I004699	19.5	21	0.21
			VA10090444	I004700	21	23	0.025
			VA10090444	I004701	23	24.5	0.025
25			VA10090444	I004703	24.5	26	0.025
			VA10090444	I004704	26	27.5	0.025
			VA10090444	I004705	27.5	29	0.025
30			VA10090444	I004706	29	30.5	0.025
			VA10090444	I004708	30.5	32	0.025
			VA10090444	I004709	32	33.5	0.025
35			VA10090444	I004710	33.5	35	0.025
			VA10090444	I004711	35	36.5	0.025
			VA10090444	I004713	36.5	38	0.28
			VA10090444	I004714	38	39	0.025
40		Massive unbedded greywacke with minor siltstone in the first metre. Unit is massive, fine to med grained, med grey with "salt and pepper" look to it in hand lense. Small black angular grains are in this mixture (as usual) and can suggest a vague fabric in places but not trustworthy.	VA10090444	I004715	39	40.75	0.025
	Greywacke	« py 0.5% 0.5-8.0mm» « ank 25.0%» Quartz ‹ @ 40.06 QVbull 32° 65.0cm, white bull with lge white quartz crystals in vugs › Unit blocky in places but not sheared/faulted.	VA10090444	I004716	40.75	42	0.025
			VA10090444	I004717	42	43	0.025
		Cat 2 Argillite with 10% Siltstone interlayers. Light to dk grey/black, fine grained, bedded to laminated, with rock movement shown by breakage/boudining of the lighter grey (more brittle) layers. Tracing/connecting these bands cannot be accomplished in most of the unit, thus the Cat 2 designation.	VA10090444	I004718	43	44.5	0.12
45		« py 4.0% 0.5-4.0mm» « ank 12.0%» ‹ @ 45.95 SO 55° › ‹ @ 48.65 SO 78° › Quartz ‹ @ 47.05 QV2 0° 0.6cm, subparallels CA for 65cm, ptygmatic › Faults ‹ @ 7.88 FZ 90° 6.0cm, clay, crushed rock ›	VA10090444	I004719	44.5	45.73	0.06
	Cat.2 Argillite, Siltstone		VA10090444	I004721	45.73	47.5	1.06
	Fault	Fault Zone - mainly black gouge, clay and ground rock. Rare blocks are argillite. « py 1.5% 0.5-2.0mm» Quartz - some quartz bits in rock crush. Fault angles not readable.	VA10090444	I004722	47.5	48.77	0.88
			VA10090444	I004723	48.77	51	0.36

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-909	North :5827558	East :604254	Elevation :1236	Hole Length :179.71	Azimuth :222	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	Geochemistry				
	Fault	Fault Zone - mainly black gouge, clay and ground rock. Rare blocks are argillite. « py 1.5% 0.5-2.0mm» Quartz - some quartz bits in rock crush. Fault angles not readable.	VA10090444	I004723	48.77	51	0.36
			VA10090444	I004724	51	53	0.26
	Cat.2 Argillite, Siltstone	Cat 2 Argillite with lesser siltstone (40%) - This is the usual Cat 2 type seddiments, as at 45-48m. Very blocky, lying in between fault gouge units. « py 3.5% 0.5-2.0mm» « ank 18.0%» ‹ @ 54.30 SO 75° › ‹ @ 57.20 SO 50° › ‹ @ 59.00 SO 62° › ‹ @ 53.36 QV2 0° 0.2cm, subparallels CA for 50cm › ‹ @ 56.84 QV2 15° 0.3cm › ‹ @ 56.28 FZ 85° 20.0cm, gouge and rock grind; angle est only › ‹ @ 57.70 FZ 18° 1.5cm, clay, rock grind ›	VA10090444	I004725	53	54.5	0.025
55			VA10090444	I004727	54.5	56	0.025
			VA10090444	I004728	56	57.5	0.05
			VA10090444	I004730	57.5	59	0.1
60	Fault	Fault zone in argillite, lesser siltstone. Mainly black gouge-clay-rock grind with remnant blocks of the sediment. « py 2.0% 0.5-0.2mm» « ank 15.0%» 1-2% quartz veining (qv2) but highly irreg, unreadable. ‹ @ 61.30 FZ 45° 120.0cm, intermittent gouge, rock grind over 1.2m › ‹ @ 62.65 FZ 65° 6.0cm, clay, rock grind ›	VA10090444	I004731	59	62.18	0.07
			VA10090444	I004732	62.18	64	0.06
65	Cat.2 Argillite, Siltstone	Cat 2 Argillite with lesser siltstone interlayers (40%) - a zone of structurally reworked sedimentary rocks, blocky and broken with small rock grind sections, in the middle of faulted rock units. Talc - at 70.10m there is a plug of talc - approx 5cm, lt green-cream colored with 1mm pyrite cubes and subrounded quartz grains 1-2mm. A couple spots of Cr-mica bright green. Qtz grains caught up in the talc but suspect they were incorporated from adjacent veining. « py 5.0% 0.5-2.0mm» « ank 12.0%» Quartz ‹ @ 64.15 QV2 45° 0.3cm › ‹ @ 67.65 QV2 18° 0.5cm › ‹ @ 69.85 QVbull 0° 70.0cm › \‹ @ 65.09 FZ 60° 6.0cm, clay, rock grind › ‹ @ 66.78 FZ 78° 5.0cm, clay, rock grind › ‹ @ 67.92 FZ 10° 3.5cm, clay, rock grind › ‹ @ 68.82 FZ 10° 1.0cm, clay, rock grind › ‹ @ 70.05 FZ 0° 6.0cm, gouge, angle not determined ›	VA10090444	I004733	64	65.5	0.09
			VA10090444	I004734	65.5	67	0.07
			VA10090444	I004735	67	68.5	0.09
			VA10090444	I004736	68.5	69.5	0.12
70			VA10090444	I004737	69.5	71.4	0.12
			VA10090444	I004738	71.4	72	0.28
	Mafic Dike, Tuff	Mafic dike rock,with talcose sections, especially at 76.55 to 77.72. Rock is lt green-cream, fine to med grained, massive with varying degrees of brecciation emphasized by blackline fracturing (chlorite?). Cr-mica green specks thruout with green rimmed large fragments of the argillitic seds up to 6 by 10cm. Has a porphyritic texture with med to coarse grained quartz and feldspar xls. This has been what prev logging has called mafic dike material. The rock is highly altered, soft, with talcose fracture coatings and a large section of loose, crushed talc at 77.4m (50cm). 78 to 81m has minor bands argillite and quartz veining along with fault zone crush and gouge. Lower 50cm appears to be sed rock - maqssive siltstone or grwk, minor graph. « py 1.0% 0.5-8.0mm» mainly cubes scattered thruout « ank 15.0%» Quartz ‹ @ 77.83 QVbull 40° 24.0cm › ‹ @ 78.20 QVbull 0° 11.0cm, no angle taken, irreg › ‹ @ 80.85 QV2 0° 0.7cm › ‹ @ 81.15 QV2 12° 0.3cm, talcose walls to quartz › Faults ‹ @ 75.65 FZ 28° 1.5cm, talcose › ‹ @ 77.40 FZ 0° 50.0cm, talc, no angle avail › ‹ @ 77.72 FZ 0° 6.0cm, black gouge, no angle avail › ‹ @ 78.80 FZ 0° 40.0cm, no angle avail, 40 cm lost also › ‹ @ 80.77 FZ 0° 4.0cm, black gouge, 55cm lost core ›	VA10090444	I004739	72	73.5	1.37
			VA10090444	I004740	73.5	75	0.025
75			VA10090444	I004742	75	76	0.08
			VA10090444	I004743	76	77.72	0.52
			VA10090444	I004744	77.72	79.25	0.09
80			VA10090444	I004745	79.25	81.5	0.42
			VA10090444	I004746	81.5	83	0.025
85			VA10090444	I004748	83	85.34	0.09
	Fault	Fault Zone - black gouge and rock grind, rare remnant of argillitic rock, one 15cm block of poss carbonatite? near top at 86.80m. It is fine grained, med grey, massive and fizzes with acid vigorously, not just thin fracs. Not magnetic. Can't determine pyrite or ankerite. This is the unit that the prev hole (10-DDH-908) had to be terminated in. Quartz ‹ @ 87.88 QV2 82° 1.1cm › ‹ @ 91.00 QVbull 0° 3.2cm, no angle, irreg ›	VA10090444	I004749	85.34	87	0.08
			VA10090444	I004750	87	88.5	0.1
			VA10090444	I004751	88.5	90	0.08
90			VA10090444	I004752	90	93	0.09
			VA10090444	I004754	93	94.25	0.1
	Mafic Dike	Mafic dike with talcose fracture coatings and shears. Rock is at 72 to 85m, light cream-green with the bright green Cr-mica specks and clots. Thin breccia lines occur at all angles thruout, coated by black mineral (probably chlorite). Unit is fairly blocky, fractured due to its proximity to fault zone. « py 0.5% 0.5-2.0mm» Pyrite mainly as scattered tiny cubes, appear to have preference for the black line fracs. « ank 15.0%» No quartz veining Faults ‹ @ 94.60 FZ 15° 3.0cm, black gouge › ‹ @ 94.84 FZ 40° 3.5cm, talcose clay, rock grind › ‹ @ 96.05 FZ 20° 6.0cm, black clay, rock grind › ‹ @ 97.76 FZ 40° 5.0cm, talcose clay, rock grind › ‹ @ 98.02 FZ 35° 7.0cm, talcose clay, rock grind ›	VA10090444	I004755	94.25	97	0.025
95		Fault zone in argillite rocks - Mixed black fault material (60%), argillite-siltstone blocks (30%) and mafic dyke, all as peviously described, but blocky. « py 7.0% 0.5-2.0mm» Pyrite stronger in argillite sections but down to 1% in mafic dike sections. « ank 20.0%» ‹ @ 102.80 SO 65° › fabric highly variable at end Some quartz frags in grind but very little. ‹ @ 101.65 FZ 55° 80.0cm, plus 90cm lost core, mainly black gouge, angle est. › ‹ @ 103.50 FZ 50° 20.0cm, black gouge › ‹ @ 106.50 FZ 55° 210.0cm, black gouge, angle est. ›	VA10090444	I004756	97	98.35	0.025
	Fault		VA10090444	I004757	98.35	102	0.025

Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-909	North :5827558	East :604254	Elevation :1236	Hole Length :179.71	Azimuth :222	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
100	Fault	Fault zone in argillite rocks - Mixed black fault material (60%), argillite-siltstone blocks (30%) and mafic dyke, all as peviously described, but blocky. « py 7.0% 0.5-2.0mm» Pyrite stronger in argillite sections but down to 1% in mafic dike sections. « ank 20.0%» ‹ @ 102.80 SO 65° › fabric highly variable at end Some quartz frags in grind but very little. ‹ @ 101.65 FZ 55° 80.0cm, plus 90cm lost core, mainly black gouge, angle est. › ‹ @ 103.50 FZ 50° 20.0cm, black gouge › ‹ @ 106.50 FZ 55° 210.0cm, black gouge, angle est. ›	VA10090444	I004757	98.35	102	0.025
			VA10090444	I004758	102	103.5	0.29
105			VA10090444	I004759	103.5	106.5	0.98
			VA10090444	I004761	106.5	108.5	0.15
110			VA10090444	I004762	108.5	112.78	0.025
		Black cataclastised argillite with broken, warped and micro-scale folded foliation planes, with 10% pale grey white volcanic rocks having porphyritic texture and visible plag and quartz phenocrysts (1-2mm, <5%), light greenish tint due to pervasive <1% chlorite and 2% green mica clots and specks, rare xenoliths up to 2 cm in size, volcanic rock has sharp contacts and argillite frgms, pyrite up to 3% in volcanic.	VA10090444	I004763	112.78	114	0.025
		Pyrite as fine dissemination and lenses parallel to bedding/foliation planes in argillite ans as 1mm cubes and anhedral xrysts in volcanic subunit, minor chalcopyrite in volcanic subunit,	VA10090444	I004764	114	115.5	0.025
115		Volcanic, possibly mafic as suggested by chlorite and green mica content, is cut by translucent some vuggy qz veins with well developed qz crystals in vugs ‹ @ 117.50 LC 0.60 › ‹ @ 120.90 fol 45° › « 118.20- 118.57 Volcanic 75-80°» possibly mafic, « cr-mica 1.0%» « 120.10- 120.15 Volcanic 80-67°», «cr-mica 0.5%» « 120.40- 120.57 Volcanic -55.0°0°» possibly mafic « 120.64- 120.80 Volcanic 75.0-80.0°» possibly mafic	VA10093335	I004765	115.5	117.5	0.025
		« 122.30- 123.00 bkn » broken, ‹ @ 122.30 LC 0.50 › ‹ @ 124.90 LC 0.85 ›	VA10093335	I004766	117.5	119.5	0.025
120		« 122.30- 124.00 Volcanic » poss mafic, rare xenoliths ‹ @ 124.00 fol 45° › ‹ @ 126.40 LC 0.45 › ‹ @ 128.00 LC 0.70 ›	VA10093335	I004768	119.5	121	0.025
		« 129.50- 131.90 Volcanic 40-73°» poss mafic, « py 2.0% 1.0-3.0 mm» cubes th/out , « cr-mica 1.0%» specks ‹ @ 134.00 fol 45° ›	VA10093335	I004769	121	123	0.025
		« 139.00- 144.00 py 2.0% 1.0-10.0mm» cubes with qz pressure shadows	VA10093335	I004770	123	125	0.025
125		« 140.00- 141.70 Crystal Tuff » « ank 5.0%» « ser 10%» ‹ @ 142.85 LC 0.25 › ‹ @ 144.00 LCT 47° ›	VA10093335	I004771	125	126.5	0.06
	Cat.1 Argillite		VA10093335	I004772	126.5	128.5	0.06
			VA10093335	I004773	128.5	130	0.025
130			VA10093335	I004774	130	131.5	0.025
			VA10093335	I004775	131.5	133	0.44
			VA10093335	I004777	133	134.5	0.13
135			VA10093335	I004778	134.5	136	0.025
			VA10093335	I004779	136	137.5	0.16
			VA10093335	I004781	137.5	139	0.025
140		Light to medium grey crystal lithic tuff with lithic clasts up to 3 cm, competent, cut by rare QV3 veins, bedding at 40 deg tca, var sericitized, section of volcanic rock that appears to be comprised of interlocking plag crysts but carbonate-sericitic alt obscures texture, sections of mafic volcanic with jigsaw texture @150-163.5 and 171-179.71, cut by var oriented irregular in shape qz veins, some veins carry negligible base metals and sericitized. ‹ @ 146.40 S0 40° › ‹ @ 147.10 QV2 40° 1.0cm › ‹ @ 147.10 sph 1.0% › ‹ @ 147.80 QV3 60° 5.0cm › vuggy ‹ @ 148.90 QV2 45° 1.0cm ›	VA10093335	I004782	139	140.5	0.18
			VA10093335	I004783	140.5	142	0.13
		Note: 150-163.5 volcanics with jigsaw texture prevails, subunit is cut by abundant white and grey translucent anastomosing qz veins with no sulphides, « cr-mica 1.0%» and « chl 1%» imparts light green hue	VA10093335	I004784	142	144	0.025
145		« 150.00- 163.50 ser 20%» « ank 15.0%» as 3-5 mm yellowish rounded diffuse p/blasts ‹ @ 153.57 QV3 40° 1.1cm › with wallrock frgms, barren ‹ @ 158.70 QV3 40° 1.5cm › barren ‹ @ 163.00 QV3 43° 5.0cm ›	VA10093335	I004785	144	145.5	0.07
	Crystal Lithic Tuff	‹ @ 163.60 QV3 20° 50.0cm › broken to rubble, ‹ @ 164.00 LC 0.20 › ‹ @ 164.60 LC 0.20 › Note: possibly porphyritic rock , pale grey with tan mottles, carbonate alteration obscures the texture	VA10093335	I004786	145.5	147	0.07
		« 164.60- 179.71 Mafic Volcanic » with pervasive «chl 2%» « ank 15.0%» « ser 10%» and jigsaw texture within171-179.71« var oriented qz veins 5-15mm» some with sericite, intense qz flooding @172-173m ‹ @ 175.40 gal 0.5% › in qz vein with sericite, ‹ @ 175.41 cpy 0.5% ›	VA10093335	I004788	147	148.5	0.43
			VA10093335	I004789	148.5	150	0.24

10-DDH-909	North :5827558	East :604254	Elevation :1236	Hole Length :179.71	Azimuth :222	Dip :-75	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Geology: Rocktype	Geology: Description	Geochemistry: CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
150	Crystal Lithic Tuff	Light to medium grey crystal lithic tuff with lithic clasts up to 3 cm, competent, cut by rare QV3 veins, bedding at 40 deg tca, var sericitized, section of volcanic rock that appears to be comprised of interlocking plag crysts but carbonate-sericitic alt obscures texture, sections of mafic volcanic with jigsaw texture @150-163.5 and 171-179.71, cut by var oriented irregular in shape qz veins, some veins carry negligible base metals and sericitized.	VA10093335	I004789	148.5	150	0.24
		‹ @ 146.40 S0 40° ›	VA10093335	I004790	150	151.5	0.025
		‹ @ 147.10 QV2 40° 1.0cm › ‹ @ 147.10 sph 1.0% ›	VA10093335	I004791	151.5	153	0.025
		‹ @ 147.80 QV3 60° 5.0cm › vuggy	VA10093335	I004792	153	154.5	0.2
		‹ @ 148.90 QV2 45° 1.0cm ›	VA10093335	I004794	154.5	156	0.025
		Note: 150-163.5 volcanics with jigsaw texture prevails, subunit is cut by abundant white and grey translucent anastomosing qz veins with no sulphides, « cr-mica 1.0%» and « chl 1%» imparts light green hue	VA10093335	I004795	156	157.5	0.025
155		« 150.00- 163.50 ser 20%» « ank 15.0%» as 3-5 mm yellowish rounded diffuse p/blasts	VA10093335	I004796	157.5	159	0.025
		‹ @ 153.57 QV3 40° 1.1cm › with wallrock frgms, barren	VA10093335	I004797	159	160.5	0.025
		‹ @ 158.70 QV3 40° 1.5cm › barren	VA10093335	I004798	160.5	162	0.025
		‹ @ 163.00 QV3 43° 5.0cm ›	VA10093335	I004800	162	163.5	0.025
		‹ @ 163.60 QV3 20° 50.0cm › broken to rubble, ‹ @ 164.00 LC 0.20 ›	VA10093335	I004801	163.5	165	1.49
		‹ @ 164.60 LC 0.20 ›	VA10093335	I004802	165	166.5	0.76
		Note: possibly porphyritic rock , pale grey with tan mottles, carbonate alteration obscures the texture	VA10093335	I004803	166.5	168	0.08
160		« 164.60- 179.71 Mafic Volcanic » with pervasive «chl 2%» « ank 15.0%» « ser 10%» and jigsaw texture within171-179.71« var oriented qz veins 5-15mm» some with sericite, intense qz flooding @172-173m	VA10093335	I004804	168	169.5	0.025
		‹ @ 175.40 gal 0.5% › in qz vein with sericite, ‹ @ 175.41 cpy 0.5% ›	VA10093335	I004806	169.5	171	0.09
			VA10093335	I004807	171	172.5	0.025
			VA10093335	I004808	172.5	174	0.65
165			VA10093335	I004809	174	175.5	0.07
			VA10093335	I004810	175.5	177	0.27
			VA10093335	I004812	177	178.5	0.025
			VA10093335	I004813	178.5	179.71	0.025
170							
175							
	EOH	Hole reached the target depth.					
180							
185							
190							
195							

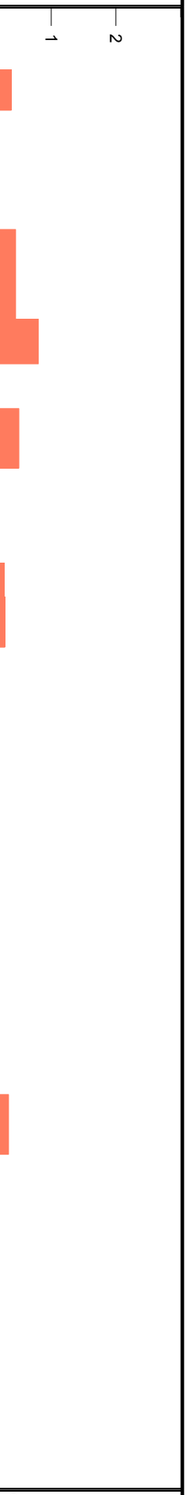
10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Casing	Casing... no core recovered					
5							
10							
	Siltstone / Tuff	Siltstone/Tuff: Fg dark grey siltstone interbedded with fg pale grey tuff on a thin to med bed scale, grading from 80% siltstone to 30% siltstone at the base of the unit.					
		« ank 6%» « py 0.2% 1.0-5.0mm»	VA10093336	I088701	12.48	14	0.025
		‹ @ 12.69 S0 34° › ‹ @ 14.00 S0 48° ›	VA10093336	I088702	14	15.4	0.06
15		‹ @ 14.05 QVbull 40° 0.8cm ›	VA10093336	I088704	15.4	16.5	0.025
		‹ @ 15.30 FZ 85° 2.0cm, gouge _slicks › ‹ @ 13.75 FZ 78° 1.6cm ›	VA10093336	I088705	16.5	18	0.025
	Crystal Lithic Tuff	Crystal Lithic Tuff: Fg. pale grey crystal lithic tuff. Lithics appear in 10% abundance @17.60m in a 20cm thick bed and then sporadically throughout the unit. Show as angular black or grey fragments 2-8mm in size. Alteration persistant throughout unit 10-15%. Some sediment influence (<5%) shows the bedding as fine-med laminae of dark grey fg rock. Lack of pyrite.					
		« ank 11%» « py 0.1% 1.0-1.0mm»	VA10093336	I088706	18	19.5	0.025
		‹ @ 17.30 S0 50° ›	VA10093336	I088708	19.5	21	0.025
20		‹ @ 18.85 QVbull 28° 0.9cm ›	VA10093336	I088709	21	23	0.025
		‹ @ 20.65 FZ 60° 4.0cm, grind _gouge ›	VA10093336	I088710	23	24.5	0.025
		« ser 10%»	VA10093336	I088711	24.5	26.5	0.025
	Tuff / Sediment	Tuff/Sediment: Interbedded pale grey mg crystal tuff (60%) with dark grey fg siltstone (40%) on a thick laminae to thin bed scale. Bedding is generally planar and clear but also show fracturing within the rocks and some deformation.					
		CORE LOSS: ‹ @ 26.52 CL 0.8m, Undeterminable ›	VA10093336	I088712	26.5	28	0.54
		« ank 5%» « py 0.6% 3.0-15.0mm»	VA10093336	I088713	28	29.5	0.65
		‹ @ 28.80 S0 55° › ‹ @ 31.00 S0 30° ›	VA10093336	I088714	29.5	31	0.23
25		‹ @ 26.88 QVbull 60° 2.2cm › ‹ @ 27.45 QVbull 40° 1.8cm › ‹ @ 29.17 QVbull 70° 8.0cm › ‹ @ 31.30 QV2 60° 0.7cm, 10% py ›	VA10093336	I088716	31	32.67	0.025
		‹ @ 29.20 FZ 60° 1.5cm, gouge ›	VA10093336	I088717	32.67	34.58	0.025
	Crystal / Crystal Lithic Tuff	Crystal/Crystal Lithic Tuff: Inerbedded fg pale grey crystal tuff with fg-mg grey crystal lithic tuff on thinly bedded scale. Alteration varies throughout the unit on a 3-8cm scale giving the core a camouflage texture appearance.					
		CORE LOSS:‹ @ 35.66 CL 0.6m, Undeterminable ›	VA10093336	I088718	34.58	36.5	0.16
		« ank 5%» « py 0.7% 2.0-10.0mm»	VA10093336	I088719	36.5	37.5	0.16
30		‹ @ 34.10 S0 50° ›	VA10093336	I088720	37.5	39	0.26
		‹ @ 33.75 QVbull 50° 2.3cm ›	VA10093336	I088722	39	40.5	0.27
		« ser 10%»	VA10093336	I088723	40.5	42	0.025
	Tuff / Sediment	Tuff/Sediment: Same as previous tuff/sediment unit, including a medium 12cm thick bed with 3% lithic abundance.					
		« ank 8%» « py 0.9% 5.0-18.0mm»	VA10093336	I088724	42	43.5	0.09
		‹ @ 34.83 S0 60° ›	VA10093336	I088725	43.5	45.5	0.025
35		‹ @ 36.16 QVbull 60° 18.0cm ›	VA10093336	I088726	45.5	47	0.025
		Crystal Tuff: Massive bed of fg-mg crystal tuff. Bedding within the tuff is not seen but some thin sediment laminae give some bedding orientation. Very occassional angular black lithic fragments are seen. Middle section (42-49m) of the unit is highly fractured and shows some gouge areas.					
		CORE LOSS: 1.2m ‹ @ 38.71 CL 0.2m, Undeterminable › ‹ @ 44.20 CL 0.5m › ‹ @ 48.10 CL 0.4m ›	VA10093336	I088727	47	48.5	0.19
		« ank 5%» « py 0.2% 2.0-4.0mm»	VA10093336	I088728	48.5	50	0.025
		‹ @ 38.08 S0 65° › ‹ @ 50.08 S0 35° ›					
40		‹ @ 38.00 QVbull 60° 1.4cm › ‹ @ 38.41 QVbull 40° 2.1cm › ‹ @ 38.60 QVbull 40° 1.5cm › ‹ @ 38.92 QVpy 70° 7mm › ‹ @ 39.80 QVbull 25° 0.7cm › ‹ @ 42.85 QVbull 40° 0.5cm › ‹ @ 43.18 QVbull 50° 0.3cm › ‹ @ 48.00 QVbull 60° 9.0cm › ‹ @ 51.23 QVbull 68° 2.7cm › ‹ @ 51.38 QVbull 60° 7.0cm ›					
		‹ @ 45.00 FZ 0° 200.0cm, area of highly fractured rock _some gouge ›					
		« ser 10%»					
45							

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
	Crystal Tuff	Crystal Tuff: Massive bed of fg-mg crystal tuff. Bedding within the tuff is not seen but some thin sediment laminae give some bedding orientation. Very occassional angular black lithic fragments are seen. Middle section (42-49m) of the unit is highly fractured and shows some gouge areas.	VA10093336	I088728	48.5	50	0.025
		CORE LOSS: 1.2m ‹ @ 38.71 CL 0.2m, Undeterminable › ‹ @ 44.20 CL 0.5m › ‹ @ 48.10 CL 0.4m ›	VA10093336	I088730	50	51.63	0.05
		« ank 5%» « py 0.2% 2.0-4.0mm»	VA10093336	I088731	51.63	53	0.38
	Tuff / Sediment	‹ @ 38.08 S0 65° › ‹ @ 50.08 S0 35° ›					
		‹ @ 38.00 QVbull 60° 1.4cm › ‹ @ 38.41 QVbull 40° 2.1cm › ‹ @ 38.60 QVbull 40° 1.5cm › ‹ @ 38.92 QVpy 70° 7mm › ‹ @ 39.80 QVbull 25° 0.7cm › ‹ @ 42.85 QVbull 40° 0.5cm › ‹ @ 43.18 QVbull 50° 0.3cm › ‹ @ 48.00 QVbull 60° 9.0cm › ‹ @ 51.23 QVbull 68° 2.7cm › ‹ @ 51.38 QVbull 60° 7.0cm ›	VA10093336	I088732	53	55	0.05
55		‹ @ 45.00 FZ 0° 200.0cm, area of highly fractured rock _some gouge ›					
		« ser 10%»	VA10093336	I088733	55	57	0.025
		Siltstone/Tuff: Interbedded dark grey siltstone (40%) with fg pale grey moderately altered tuff (60%) on a thin laminae to medium bed scale.					
		CORE LOSS:‹ @ 53.50 CL 0.2m › ‹ @ 53.98 CL 0.5m ›	VA10093336	I088734	57	60	0.45
		« ank 5%» « py 0.3% 3.0-5.0mm»					
60		‹ @ 53.00 S0 30° › ‹ @ 56.85 S0 40° ›					
		‹ @ 52.00 QVbull 73° 0.8cm › ‹ @ 53.26 QVbull 40° 2.8cm › ‹ @ 55.63 QVbull 32° 0.5cm ›	VA10093336	I088735	60	61.5	0.8
		« ser 20%»	VA10093336	I088736	61.5	63	0.025
	Fault Zone	Fault Zone: Highly fractured unit with large areas of gouge and grind. Rock type is interbedded siltstone _tuff until the bottom metre which is quite graphitic argillite/siltstone.					
		CORE LOSS: 2m ‹ @ 57.20 CL 0.3m › ‹ @ 58.50 CL 0.4m › ‹ @ 67.00 CL 0.55m › ‹ @ 65.00 CL 0.80m, Undeterminable ›	VA10093336	I088737	63	65	0.5
		« ank 5%» « py 0.6% 1.0-13.0mm»					
65		‹ @ 60.85 QVbull 18° 3.5cm › ‹ @ 61.10 QVbull 40° 7.0cm › ‹ @ 63.41 QVbull 45° 7.0cm › ‹ @ 64.56 QVbull 60° 8.5cm › ‹ @ 69.00 QVbull 70° 50.0cm ›	VA10093336	I088739	65	66	0.025
		‹ @ 58.16 FZ 0° 18.0cm, gouge grind, alpha not measurable › ‹ @ 60.00 FZ 0° 5.0cm, grind gouge, alpha not measurable › ‹ @ 64.37 FZ 0° 6.0cm, gouge, alpha not measurable › ‹ @ 67.10 FZ 0° 15.0cm, grind _gouge, alpha not measurable › ‹ @ 67.68 FZ 30° 22.0cm, grind _gouge, slicks › ‹ @ 64.23 FZ 0° 10.0cm, gouge ›	VA10093336	I088740	66	68.18	0.07
		Siltstone/Argillite: Interbedded dark grey fg siltstone medium bedded to thickly laminated with black v.fg argillite. Bedding is quite deformed and unit has high abundance of fine quartz veinlets throughout.	VA10093336	I088741	68.18	69.31	0.27
		CORE LOSS: ‹ @ 71.10 CL 0.30m › ‹ @ 72.24 CL 0.20m ›	VA10093336	I088742	69.31	71	0.28
70		« ank 5%» « py 1.2% 1.0-1.4mm»					
	Siltstone / Argillite	‹ @ 72.00 S0 26° › ‹ @ 73.80 S0 5°, bedding cross cut by next unit ›	VA10093336	I088743	71	72.31	0.025
		‹ @ 70.01 QV2 39° 0.2cm ›	VA10093336	I088744	72.31	73.81	0.025
		‹ @ 71.10 FZ 0° 20.0cm, grind, alpha not measurable ›					
		Crystal Tuff: Med-course grained dark grey crystal tuff. Qz xls 1-2mm in size show as anhedral crystals in 25% abundance, rare euhedral fspars are seen 1mm in size. Overall the unit shows some possible foliation and crystals are slightly flattened and aligned to this. Originally intrepreted first 1m of unit as a quartz fspar porphry but it contains occasional large angular black lithics, which could be possible rafts.	VA10093336	I088746	73.81	75.5	0.025
		Deformed milky white quartz veins are visible throughout the unit and are cross cut by cleaner white/grey bull quartz veins.					
75		« ank 8%» « py 0.7% 2.0-9.0mm»	VA10093336	I088747	75.5	77	0.025
		‹ @ 81.78 S0 40° › ‹ @ 74.15 S0 30° ›	VA10093336	I088748	77	78.5	0.05
	Crystal Tuff	‹ @ 76.07 QVbull 50° 1.3cm › ‹ @ 75.81 QVbull 40° 0.2cm › ‹ @ 78.40 QVbull 30° 0.2cm ›					
		‹ @ 81.40 FZ 0° 1.3cm, gouge, alpha unmeasurable ›	VA10093336	I088750	78.5	80	0.025
80			VA10093336	I088751	80	81.5	0.025
		5% Alt. Crystal Tuff: Slightly altered fg pale grey crystal tuff, same rock type as previous.	VA10093336	I088752	81.5	82.6	0.025
		« ank 6%» « py 0.5% 5.0-1.8mm»	VA10093336	I088753	82.6	84	0.025
		‹ @ 84.03 S0 35° ›					
	5% Alt. Crystal Tuff	‹ @ 85.30 QVbull 50° 23.0cm ›					
85		« ser 5%»	VA10093336	I088754	84	86	0.09
		Fault Zone (5% Alt CT): Fault zone in same rock type as previous with some sediment laminae to thin beds in the bottom 1m. Rock is highly fractured with areas of fault gouge and grind.					
		CORE LOSS‹ @ 87.00 CL 0.50m › ‹ @ 90.23 CL 0.25m › ‹ @ 91.60 CL 0.15m ›	VA10093336	I088755	86	88	0.34
		« ank 13%» « py 0.2% 2.0-14mm»					
	Fault Zone (5% Alt CT)	‹ @ 87.48 QVbull 25° 20.0cm › ‹ @ 90.58 QVbull 50° 32.0cm › ‹ @ 91.48 QVbull 50° 2.0cm ›	VA10093336	I088756	88	89.5	0.025
90		‹ @ 86.29 FZ 0° 8.0cm, grind, alpha not measurable › ‹ @ 86.86 FZ 0° 8.0cm, gouge alpha not measurable › ‹ @ 89.77 FZ 0° 4.0cm, gouge, no alpha › ‹ @ 91.85 FZ 0° 8.0cm, grind and gouge, no alpha ›	VA10093336	I088758	89.5	90.85	0.025
			VA10093336	I088759	90.85	92	0.15
		Tuff/Sediment: Medium-thickly Interbedded fg-mg grey tuff (55%) with dark grey fg-cg siltstone(45%). Course grained sediments are texturally immature containing polymodal qz grains, possible greywacke. Some thin 5-10cm areas of finely laminated bedding are seen.	VA10093336	I088760	92	93.5	0.07
		An area of clear planar bedding is cross cut by possible dyke, shows fg chilled margin at edges then porphyritic texture. Coarse grained qz porphry with anhedral qz crystals up to 1mm and few euhedral fspars. dyke appears to have some slight foliation due to alignment and slight flattening of qz xls. Py are in 4% abundance in the dyke but all are connected by an anastomising qz vein.	VA10093336	I088761	93.5	95	0.025
95		« 94.81- 95.01 Felsic-dyke, qz porphyry »					
	Tuff / Sediment	« 97.91- 98.22 Ribbon Chert » finely laminated very hard silicious chert with fg dark grey siltstone.	VA10093336	I088762	95	96.5	0.025
		« ank 4%» « py 0.6% 3.0-12.0mm»					
		‹ @ 94.75 S0 42° › ‹ @ 98.18 S0 57° › ‹ @ 99.51 S0 20° ›	VA10093336	I088764	96.5	98	0.05
		‹ @ 95.57 QV2 49° 0.1cm › ‹ @ 98.00 QVbull 60° 3.8cm, 1% py › ‹ @ 98.26 QVbull 63° 1.2cm ›	VA10093336	I088765	98	99.5	0.025



10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Tuff / Sediment	Tuff/Sediment: Medium-thickly Interbedded fg-mg grey tuff (55%) with dark grey fg-cg siltstone(45%). Course grained sediments are texturally immature containing polymodal qz grains, possible greywacke. Some thin 5-10cm areas of finely laminated bedding are seen.	VA10093336	I088765	98	99.5	0.025
		An area of clear planar bedding is cross cut by possible dyke, shows fg chilled margin at edges then porphyritic texture. Coarse grained qz porphry with anhedral qz crystals up to 1mm and few euhedral fspars. dyke appears to have some slight foliation due to alignment and slight flattening of qz xls. Py are in 4% abundance in the dyke but all are connected by an anastomising qz vein.	VA10093336	I088766	99.5	101	0.025
	Laminated Sediment / Tuff	« 94.81- 95.01 Felsic-dyke, qz porphyry »	VA10093336	I088767	101	102	0.025
		« 97.91- 98.22 Ribbon Chert » finely laminated very hard silicious chert with fg dark grey siltstone.	VA10093336	I088768	102	103.38	0.025
		« ank 4%» « py 0.6% 3.0-12.0mm»	VA10093336	I088770	103.38	105	0.025
105		‹ @ 94.75 S0 42° › ‹ @ 98.18 S0 57° › ‹ @ 99.51 S0 20° ›	VA10093336	I088771	105	106.5	0.025
		‹ @ 95.57 QV2 49° 0.1cm › ‹ @ 98.00 QVbull 60° 3.8cm, 1% py › ‹ @ 98.26 QVbull 63° 1.2cm ›	VA10093336	I088772	106.5	108	0.025
	Tuff / Sediment 65 / 35	Laminated Tuff/Sediment: Laminated fg grey tuff (40%) with fg dark grey siltstone (60%). Thin to thick laminates (2-8mm) are planar and show very little deformation. Thicker siltstone bed (25cm) in the middle of the unit is pinched out at the contacts and is quite pyrite rich.	VA10093336	I088773	108	109.5	0.025
		« ank 15%» « py 0.7% 3.0-10.0mm»	VA10093336	I088774	109.5	111	0.025
110		‹ @ 101.10 S0 30° › ‹ @ 103.15 S0 37° ›	VA10093336	I088775	111	112.5	0.025
		‹ @ 101.55 QV2 5° 0.1cm ›	VA10093336	I088777	112.5	113.5	0.05
		Tuff/Sediment 65/35: Fg grey crystal tuff with occasional small lithics in med. to thick beds with fg dark grey siltstone. Bedding is quite deformed and at one contact appears like the tuff has been boudined within the siltstone. Pyrite content increases in the sediments and is seen in places in tight clusters of euhedral xls.	VA10093336	I088778	113.5	115	0.25
		« ank 17%» « py 0.3% 2.0-9.0mm»	VA10093336	I088779	115	116.5	0.13
		‹ @ 107.34 S0 60° › ‹ @ 113.00 S0 52° ›	VA10093336	I088780	116.5	118	0.025
		‹ @ 107.23 QVbull 33° 0.5cm › ‹ @ 109.14 QVbull 55° 0.5cm › ‹ @ 112.18 QVbull 58° 1.8cm ›	VA10093336	I088781	118	119.5	0.025
		‹ @ 103.60 FZ 55° 11.0cm, gouge, .6m core loss ›	VA10093336	I088782	119.5	121	0.025
115	10% Alt. Crystal Tuff	10% Alt. Crystal Tuff (10% sed): Fg pale grey crystal tuff with some sericitic alteration persistant throughout. Minor sediment component which shows as quite deformed very thin beds.	VA10093336	I088784	121	122.5	0.15
		« ank 10%» « py 0.3% 3.0-7.0mm»	VA10093336	I088785	122.5	124	0.69
		‹ @ 114.70 S0 27° ›	VA10093336	I088786	124	125.5	0.13
		‹ @ 114.25 QVbull 48° 1.0cm › ‹ @ 114.45 QVbull 57° 0.8cm, 30% py › ‹ @ 114.96 QVbull 55° 2.5cm › ‹ @ 115.70 QVbull 50° 0.5cm ›	VA10093336	I088787	125.5	127	0.11
		« ser 10%»	VA10093336	I088788	127	128.5	0.24
120		Tuff/Sediment (75/25%): Interbedded pale grey to grey fg-cg tuff with fg dark grey sediments. Bedding is clear in places but also shows large amounts of deformation around contacts with the tuff and sediments.	VA10093336	I088790	128.5	130	0.06
		Lithic abundance is higher than normal, but abundance increases in localised areas. From 121-122.5m tuff shows shows a fining downhole sequence starting with quite a coarse grained almost lapilli tuff with flattened qz xls 4-5mm in size and with a few angular black lithics 8-12mm in size, fining down to a fg-mg crystal tuff at 122.5m. Chlorite rimming of the ankerite is also seen at 122.5m.	VA10093336	I088791	130	131.5	0.025
		Chert sequence @124m: 1-3cm beds of very hard siliceous grey chert, highly fractured and interbedded with tuff and sediments.	VA10093336	I088792	131.5	133	0.025
		« 123.90- 124.30 Ribbon Chert »	VA10093336	I088793	133	134.5	0.18
		« ank 8%» « py 0.4% 3.0-6.0mm»	VA10093336	I088794	134.5	135.78	0.025
125		‹ @ 118.60 S0 60° ›	VA10093336	I088795	135.78	137.5	0.025
		‹ @ 121.08 QVbull 60° 0.6cm › ‹ @ 121.60 QVbull 70° 0.3cm › ‹ @ 122.18 QVbull 50° 0.7cm › ‹ @ 122.70 QVbull 55° 22.0cm › ‹ @ 123.85 QVbull 30° 1.0cm › ‹ @ 124.35 QVbull 70° 0.3cm › ‹ @ 125.06 QVbull 39° 1.0cm › ‹ @ 126.20 QVbull 60° 0.2cm › ‹ @ 128.30 QVbull 38° 2.5cm › ‹ @ 128.17 QVbull 60° 0.8cm › ‹ @ 129.74 QVbull 56° 0.7cm › ‹ @ 131.30 QVbull 60° 0.5cm › ‹ @ 133.90 QVbull 20° 1.4cm › ‹ @ 134.82 QVbull 54° 2.6cm ›	VA10093336	I088796	137.5	139	0.025
	Tuff / Sediment (75 / 25%, 5% alt.)	‹ @ 129.74 cpy 5.0% 6.0-6.0mm, in QVbull, 2x xls ›	VA10093336	I088798	139	140.5	0.23
		« 122.10- 122.40 chl 3%»	VA10093336	I088799	140.5	142	0.025
130			VA10093336	I088800	142	143.5	0.025
			VA10093336	I088801	143.5	145	0.025
			VA10093336	I088803	145	147.15	0.13
			VA10093336	I088804	147.15	148.2	0.15
135			VA10093336	I088805	148.2	149.5	0.4
		20% Alt. Crystal Tuff: Massive unbedded pale cream altered crystal tuff. Contains some green chrome-mica altered blebs2-3mm in size upto 1% abundance.					
		« ank 4%» « py 0.1% 3.0-7.0mm»					
		‹ @ 136.21 QVbull 58° 0.5cm › ‹ @ 139.82 QVbull 40° 1.3cm › ‹ @ 139.85 QVbull 42° 0.3cm › ‹ @ 140.10 QVbull 30° 0.6cm › ‹ @ 140.20 QVbull 40° 0.3cm › ‹ @ 142.80 QVbull 50° 3.8cm › ‹ @ 143.30 QVbull 52° 0.8cm ›					
		« ser 20%»					
140	20% Alt. Crystal Tuff	15% Alt. Crystal Lithic Tuff/Sed (15%): mg-cg pale cream to dark grey crystal lithic tuff. Alteration varies throughout unit from little altered dark grey colour to pale cream which does not follow any trend. Lithics are black subangular fragments in 1-3% abundance 1-2mm in size. Pyrite increase in thin beds implies sedimet influence in the darker areas up to 15% of unit.					
		« ank 5%» « py 0.3% 3.0-5.0mm»					
		‹ @ 155.49 QVbull 42° 2.4cm › ‹ @ 146.25 QVbull 50° 1.8cm ›					
		« ser 15%»					
		20% Alt. Crystal Tuff: Very similar to previous to lithic tuff.					
		« ank 3%» « py 0.3% 4.0-5.0mm»					
145		‹ @ 152.50 S0 27° ›					
	15% Alt. Crystal Lithic Tuff	‹ @ 147.30 QVbull 32° 2.4cm › ‹ @ 148.78 QVpy 20° 3mm › ‹ @ 148.85 QVbull 39° 1.3cm › ‹ @ 148.79 QVpy 20° 3mm › ‹ @ 148.95 QVbull 70° 0.7cm › ‹ @ 149.55 QVbull 40° 3.6cm › ‹ @ 150.52 QVbull 45° 0.9cm, gal ›					
		‹ @ 150.52 ga 1.0% 2.5mm, 1x xl in qvbull ›					
	20% Alt. Crystal Tuff	« ser 20%»					

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150	20% Alt. Crystal Tuff	20% Alt. Crystal Tuff: Very similar to previous to lithic tuff.	VA10093336	I088805	148.2	149.5	0.4
		« ank 3%» « py 0.3% 4.0-5.0mm»	VA10093336	I088806	149.5	151	0.62
		‹ @ 152.50 S0 27° ›					
		‹ @ 147.30 QVbull 32° 2.4cm › ‹ @ 148.78 QVpy 20° 3mm › ‹ @ 148.85 QVbull 39° 1.3cm › ‹ @ 148.79 QVpy 20° 3mm › ‹ @ 148.95 QVbull 70° 0.7cm › ‹ @ 149.55 QVbull 40° 3.6cm › ‹ @ 150.52 QVbull 45° 0.9cm, gal ›	VA10093336	I088808	151	152.5	0.025
		‹ @ 150.52 ga 1.0% 2.5mm, 1x xl in qvbull ›	VA10093336	I088809	152.5	153.64	0.025
155	Conglomerate	« ser 20%»	VA10093336	I088810	153.64	155	0.025
		Conglomerate: V.Course grained subangular volcanic conglomerate. Clasts vary in colour from black to grey to altered cream. Overall unit has a fining downhole grading from 2-3cm at the top to 3-4mm at the base.	VA10093336	I088811	155	156.5	0.025
		« ank 5%» « py 0.1% 1.0-2.0mm»	VA10093336	I088812	156.5	157.84	0.025
		‹ @ 155.90 S0 47° ›					
		‹ @ 154.12 QVbull 37° 0.4cm › ‹ @ 155.58 QVbull 35° 0.6cm › ‹ @ 156.07 QVbull 40° 0.5cm › ‹ @ 157.14 QVbull 42° 3.0cm, sph › ‹ @ 157.67 QVbull 40° 0.6cm ›	VA10093336	I088813	157.84	159.5	0.07
		‹ @ 157.14 sph 3.0% 14mm, 1x xl in QVbull ›					
160	Ribbon Chert	« ser 5%»	VA10093336	I088814	159.5	161	0.56
		Ribbon Chert: Thinly to medium laminated grey very hard chert with dark grey fg siltstone. Chert beds display a micro fractured texture and occasionally have veins of the darker sediment piercing through the laminae.	VA10093336	I088815	161	163	0.47
		« ank 3%» « py 0.3% 0.2-0.4mm»	VA10093336	I088817	163	164.5	0.41
		‹ @ 159.00 S0 56° › ‹ @ 161.33 S0 44° › ‹ @ 162.80 S0 30° ›					
		‹ @ 160.90 QVbull 30° 2.8cm, 2mm cpy ›	VA10093336	I088818	164.5	166.5	0.18
		‹ @ 160.90 cpy 0.5% 2.0mm, 1 xl in QVbull ›					
165	Cat.1 Argillite / Siltstone	Cat.1 Argillite/Siltstone: Highly fractured cat 1 argillite (60%) ,siltstone (40%) due to proximity to fault.	VA10093336	I088819	166.5	168.5	0.13
		« ank 2%» « py 0.6% 0.5-2.0mm»	VA10093336	I088820	168.5	169.7	0.1
		‹ @ 164.33 QVbull 37° 0.8cm, sph ,cpy › ‹ @ 164.70 QVbull 60° 1.2cm ›					
		‹ @ 164.33 sph 1.0% 4mm, in QVbull › ‹ @ 164.33 cpy 0.5% 2.0mm, in QVbull ›	VA10093336	I088821	169.7	171	4.26
		‹ @ 163.42 FZ 40° 4.5cm ›					
170	Fault (Cat.1. A / S)	Fault Zone: Fault zone in cat.1 argillite/siltstone	VA10093336	I088822	171	172.5	0.025
		« ank 2%» « py 0.4% 0.5-1.0mm»	VA10093336	I088824	172.5	174	0.025
		‹ @ 165.62 FZ 50° 4.0cm › ‹ @ 168.00 FZ 0° 141.0cm, gouge grind › ‹ @ 170.33 FZ 70° 90.0cm, gouge ,grind ›	VA10093336	I088825	174	175	0.025
		CORE LOSS: ‹ @ 167.00 CL 0.75m › ‹ @ 169.80 CL 0.30m ›	VA10093336	I088826	175	176.1	0.025
		Cat.1 Siltstone/Argillite:	VA10093336	I088827	176.1	177.5	0.05
		« ank 3%» « py 0.5% 0.5-1.0mm»	VA10093336	I088828	177.5	178.92	0.025
		‹ @ 172.70 S1 42.00° › ‹ @ 174.83 S1 44° ›					
175	Cat.1 Siltstone / Argillite	‹ @ 174.10 QVbull 43° 0.6cm ›	VA10093336	I088829	178.92	180.5	0.025
		Fault Zone: in Cat. 1 Argillite/Siltstone	VA10093336	I088831	180.5	182	0.025
		« ank 2%» « py 0.4% 0.5-1.0mm»	VA10093336	I088832	182	183.5	0.06
		‹ @ 176.15 FZ 0° 10.0cm, grind, alpha not measurable › ‹ @ 177.76 FZ 50° 15.0cm, gouge › ‹ @ 178.82 FZ 0° 4.0cm, gouge ,grind ›	VA10093336	I088833	183.5	185	0.025
	Fault (Cat.1 A / S)		VA10093336	I088834	185	186.7	0.025
		Cat.1 Siltstone/Argilllite	VA10093336	I088835	186.7	188	0.025
180		« ank 1%» « py 0.4% 0.4-2.0mm»	VA10093336	I088836	188	189.5	0.025
		‹ @ 186.35 S1 78° ›	VA10093336	I088838	189.5	191	0.025
		‹ @ 183.45 QVbull 20° 0.3cm ›	VA10093336	I088839	191	192.5	0.025
		‹ @ 185.06 FZ 0° 6.0cm, gouge, alpha unmeasurable › ‹ @ 186.43 FZ 82° 1.0cm, gouge ›	VA10093336	I088840	192.5	194	0.14
	Cat.1 Siltstone / Argillite		VA10093336	I088841	194	195.5	0.06
185			VA10093336	I088842	195.5	196.89	0.05
			VA10093336	I088843	196.89	198.5	0.025
		Siltstone/Argillite: much less deformed siltstone argillite (65/35%) unit.					
		« ank 1%» « py 0.4% 0.5-2.0mm»					
		‹ @ 190.00 S1 45° › ‹ @ 195.00 S0 44° ›					
190		‹ @ 188.06 QVbull 60° 0.8cm › ‹ @ 192.00 QVpy 33° 4mm › ‹ @ 193.57 QVpy 60° 30mm, 90% py ›					
		‹ @ 192.10 FZ 73° 1.0cm, gouge ,slicks ›					
	Siltstone / Argillite						
		Cat2. Siltstone/Argillite:					
		« ank 2%» « py 1.1% 0.5-2.0mm»					
195		‹ @ 199.30 S1 61° › ‹ @ 203.00 S1 60° › ‹ @ 207.50 S1 61° › ‹ @ 215.00 S1 70° › ‹ @ 217.00 S1 58° ›					
		‹ @ 198.55 QV2 67° 0.7cm › ‹ @ 200.62 QVbull 50° 0.9cm ›					
	Cat.2 Siltstone / Argillite	‹ @ 200.90 FZ 58° 34.0cm, gouge ,grind, slicks ›					

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Cat.2 Siltstone / Argillite	Cat2. Siltstone/Argillite: « ank 2%» « py 1.1% 0.5-2.0mm» ‹ @ 199.30 S1 61° › ‹ @ 203.00 S1 60° › ‹ @ 207.50 S1 61° › ‹ @ 215.00 S1 70° › ‹ @ 217.00 S1 58° › ‹ @ 198.55 QV2 67° 0.7cm › ‹ @ 200.62 QVbull 50° 0.9cm › ‹ @ 200.90 FZ 58° 34.0cm, gouge ,grind, slicks ›	VA10093336	I088845	198.5	200	0.025
			VA10093336	I088846	200	201.5	0.025
			VA10093336	I088847	201.5	203	0.025
			VA10093336	I088848	203	204.5	0.025
205			VA10093336	I088849	204.5	206	0.025
			VA10093336	I088851	206.5	207.5	0.025
			VA10093336	I088852	207.5	209	0.025
210			VA10093336	I088853	209	210.5	0.025
			VA10093336	I088854	210.5	212	0.025
			VA10093336	I088856	212	213.5	0.025
215			VA10093336	I088857	213.5	215	0.025
			VA10093336	I088858	215	216.5	0.025
			VA10093336	I088859	216.5	218.36	0.025
220	Crystal Lithic Tuff	Crystal Lithic Tuff (Peppery): mg-cg grey crystal lithic tuff with a salt and pepper texture. Black angular lithics 1-2mm in size are present in 3-6% abundance throughout the unit. « ank 3%» « py 0.9% 2.0-8.0mm» ‹ @ 219.70 S0 63° › ‹ @ 21.84 QVbull 8° 1.7cm › ‹ @ 223.00 QVbull 40° 3.0cm › ‹ @ 224.15 QVbull 50° 2.3cm › ‹ @ 226.80 QVbull 42° 1.6cm › ‹ @ 227.00 QVbull 15° 0.2cm › ‹ @ 238.63 QVbull 50° 1.4cm › ‹ @ 229.88 FZ 0° 50.0cm, 2cm gouge, grind, alpha unmeasurable › Unit shows alteration around the fault zone @230m up to 30% « 227.00- 231.00 ser 30%»	VA10093336	I088860	218.36	219.5	0.025
			VA10093336	I088861	219.5	221	0.025
			VA10093336	I088863	221	222.5	0.025
			VA10093336	I088864	222.5	224	0.2
225			VA10093336	I088865	224	225.5	0.025
			VA10093336	I088866	225.5	227	0.025
			VA10093336	I088867	227	228.5	0.025
			VA10093336	I088868	228.5	230	0.025
230			VA10093336	I088870	230	231.5	0.025
			VA10093336	I088871	231.5	233	0.025
			VA10093336	I088872	233	234.5	0.025
235			VA10093336	I088873	234.5	236	0.025
			VA10093336	I088874	236	237.5	0.025
			VA10093336	I088876	237.5	239	0.025
240			VA10093336	I088877	239	240.5	0.025
			VA10093336	I088878	240.5	241.5	0.025
	Cat.2 Siltstone / Argillite	Cat2. Siltstone/Argillite: « ank 2%» « py 0.4% 0.5-1.0mm» ‹ @ 242.90 S1 78° › ‹ @ 260.00 S1 64° › ‹ @ 242.69 QVbull 50° 4.1cm › ‹ @ 255.94 QVbull 41° 1.2cm › ‹ @ 257.54 QVbull 58° 1.2cm › ‹ @ 260.37 QVbull 60° 4.0cm › ‹ @ 244.79 FZ 0° 14.0cm, grind, alpha unmeasurable › ‹ @ 246.22 FZ 72° 3.0cm, gouge, slicks › ‹ @ 251.34 FZ 0° 12.0cm, gouge ,grind, no alpha ›	VA10093336	I088879	241.5	243	0.025
245			VA10093336	I088880	243	244.5	0.08
			VA10093336	I088882	244.5	246	0.025
			VA10093336	I088883	246	247.5	0.06
			VA10093336	I088884	247.5	249	0.06

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
250	Cat.2 Siltstone / Argillite	Cat2. Siltstone/Argillite: « ank 2%» « py 0.4% 0.5-1.0mm» ‹ @ 242.90 S1 78° › ‹ @ 260.00 S1 64° › ‹ @ 242.69 QVbull 50° 4.1cm › ‹ @ 255.94 QVbull 41° 1.2cm › ‹ @ 257.54 QVbull 58° 1.2cm › ‹ @ 260.37 QVbull 60° 4.0cm › ‹ @ 244.79 FZ 0° 14.0cm, grind, alpha unmeasurable › ‹ @ 246.22 FZ 72° 3.0cm, gouge, slicks › ‹ @ 251.34 FZ 0° 12.0cm, gouge ,grind, no alpha ›	VA10093336	I088884	247.5	249	0.06
			VA10093336	I088885	249	250.5	0.07
			VA10093336	I088886	250.5	252	0.07
			VA10093336	I088887	252	253.5	0.09
255			VA10093336	I088889	253.5	255	0.07
			VA10093336	I088890	255	256.5	0.05
			VA10093337	I088891	256.5	258	0.07
			VA10093337	I088892	258	259.5	0.08
260			VA10093337	I088893	259.5	260.5	0.08
	Fault (Cat.2)	Fault Zone (Cat2.) « ank 2%» « py 0.6% 0.5-0.6mm» ‹ @ 261.96 FZ 60° 2.5cm, gouge › ‹ @ 262.13 FZ 36° 10.0cm, grind › ‹ @ 264.26 FZ 0° 15.0cm, gouge,no alpha › CORE LOSS‹ @ 264.26 CL 0.55m ›	VA10093337	I088894	260.5	262	0.08
			VA10093337	I088895	262	264.4	0.12
265	Cat.2 Siltstone / Argillite	Cat2. Silstone/Argillite: « ank 4%» « py 0.5% 0.5-1.0mm» Quartz veins are highy deformed and few alpha angles measurable. Included in sample data. ‹ @ 278.60 QVbull 55° 1.6cm › ‹ @ 266.03 FZ 0° 2.0cm, grind, no alpha › ‹ @ 269.61 FZ 49° 4.0cm, gouge › ‹ @ 273.22 FZ 55° 6.3cm, gouge grind › ‹ @ 201.00 FZ 56° 7.0cm, gouge ,grind ›	VA10093337	I088896	264.4	266	0.1
			VA10093337	I088898	266	267.5	0.09
			VA10093337	I088899	267.5	269	0.11
270			VA10093337	I088900	269	270.5	0.11
			VA10093337	I088901	270.5	272	0.08
			VA10093337	I088902	272	273.5	0.1
275			VA10093337	I088903	273.5	275	0.11
			VA10093337	I088905	275	276.5	0.06
			VA10093337	I088906	276.5	278	0.08
			VA10093337	I088907	278	279.5	0.05
280			VA10093337	I088908	279.5	281	0.06
	Fault (Cat.2 A / S)	Fault (Cat2. A/S): Highly fractured and quite graphitic fault zone in the argillite/silstone cataclasite. « ank 1%» « py 0.5% 0.5-1.0mm» ‹ @ 251.66 FZ 46° 30.0cm, grind ,slicks › ‹ @ 286.47 FZ 58° 9.5cm, gouge › CORE LOSS‹ @ 282.50 CL 0.45m › ‹ @ 284.30 CL 0.45m ›	VA10093337	I088910	281	282.5	0.025
			VA10093337	I088911	282.5	284	0.05
285			VA10093337	I088912	284	285.5	0.1
			VA10093337	I088913	285.5	286.86	0.1
	Crystal Tuff (15% Alt. Jig.)	Crystal Tuff (15% Alt.): mg grey to pale grey crystal tuff with a brecciated jigsaw texture which increases and decreases with intensity in 1-2m intervals. Texture is formed by thin black anastomising veinlets. Alteration increases through the unit from roughly 10-15%. « ank 1%» « py 0.4% 3.0-11.0mm» ‹ @ 288.80 QVbull 25° 17.0cm › ‹ @ 291.50 QVbull 18° 14.0cm › ‹ @ 292.47 QVbull 70° 0.5cm › ‹ @ 294.74 QVbull 32° 10.0cm › ‹ @ 299.41 QVbull 18° 3.2cm › ‹ @ 295.00 FZ 50° 2.0cm, grind › « ser 15%»	VA10093337	I088914	286.86	288.5	1.84
290			VA10093337	I088915	288.5	290	0.06
			VA10093337	I088917	290	291.69	4.65
			VA10093337	I088918	291.69	293	0.06
			VA10093337	I088919	293	294.5	0.27
295			VA10093337	I088920	294.5	296	0.29
			VA10093337	I088921	296	297.5	0.025

Scale 1:200	Start Depth :247.98	End Depth :297.58	Page No.: 6

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	Geochemistry				
300	Crystal Tuff (15% Alt. Jig.)	Crystal Tuff (15% Alt.): mg grey to pale grey crystal tuff with a brecciated jigsaw texture which increases and decreases with intensity in 1-2m intervals. Texture is formed by thin black anastomising veinlets. Alteration increases through the unit from roughly 10-15%.	VA10093337	I088923	297.5	299	0.06
		« ank 1%» « py 0.4% 3.0-11.0mm»	VA10093337	I088924	299	300.5	0.1
		‹ @ 288.80 QVbull 25° 17.0cm › ‹ @ 291.50 QVbull 18° 14.0cm › ‹ @ 292.47 QVbull 70° 0.5cm › ‹ @ 294.74 QVbull 32° 10.0cm › ‹ @ 299.41 QVbull 18° 3.2cm ›	VA10093337	I088925	300.5	301.5	0.025
	Fault Zone (crystal tuff)	‹ @ 295.00 FZ 50° 2.0cm, grind ›	VA10093337	I088926	301.5	303.25	0.025
		« ser 15%»	VA10093337	I088927	303.25	305	0.12
305	Fault Zone (Cat.2. A / S)	Fault (crystal tuff): Highly fractured crystal tuff with areas of gouge _grind.	VA10093337	I088929	305	306.5	0.73
		« ank 2%» « py 0.3% 0.5-2.0mm»	VA10093337	I088930	306.5	308	0.025
		‹ @ 300.84 FZ 0° 35.0cm, grind, no alpha › ‹ @ 302.70 FZ 0° 42.0cm, grind, no alpha ›	VA10093337	I088931	308	309.17	0.025
	Mafic-dyke (Jigsaw)	Fault Zone (Cat 2. A/S):	VA10093337	I088932	309.17	310.5	0.3
		« ank 1%» « py 0.3% 0.5-1.0mm»	VA10093337	I088933	310.5	311.5	0.025
310	Fault Zone (Cat.2. A / S)	‹ @ 306.25 FZ 40° 44.0cm, gouge, grind _slicks ›	VA10093337	I088934	311.5	312.72	0.025
		Mafic-dyke: Jigsaw textured very pale cream/white fg-mg rock. Has a soapy feel to the fine, soft fractured areas which is a possible talc alteration. Also contains green chrome-mica blebs 2-3mm in size. Jigsaw texture is given by v.fg black veinlets.	VA10093337	I088935	312.72	314	0.06
		« ank 2%, hard to distinguish» « py 0.3% 1.0-2.0mm»	VA10093337	I088936	314	315.5	0.025
	Tuff / Sediment (Cat.2.)	‹ @ 308.20 QVbull 70° 16cm ›	VA10093337	I088938	315.5	317	0.025
		« ser 40%»	VA10093337	I088939	317	318.5	0.96
		Fault Zone (Cat 2. A/S):	VA10093337	I088940	318.5	319.5	0.34
		« ank 2%» « py 0.6% 0.5-1.0mm»	VA10093337	I088941	319.5	321.21	0.025
		‹ @ 309.98 FZ 50° 46.0cm, gouge _slicks ›	VA10093337	I088942	321.21	323	0.06
315	Fault Zone (Cat.2 S / A)	Tuff/Sediment: Fractured unit as between faults but consists of fg dark grey siltstone (40%) with mg-cg light grey tuff. Sediments have cataclasite texture- possible boudin of tuff but unit too fractured to see contacts or bedding.	VA10093337	I088943	323	324.5	0.025
		« ank 2%» « py 0.5% 0.5-3.0mm»	VA10093337	I088945	324.5	326	0.31
		‹ @ 313.33 QVbull 65° 1.3cm › ‹ @ 312.70 QVbull 18° 0.4cm ›	VA10093337	I088946	326	327.5	0.025
		Fault zone in Cat.2 Siltstone/Argillite: Possible mafic dyke at 314.29m- pale cream mg-cg rock with very fine grained chilled margins. « 314.12- 314.44 Mafic-dyke »	VA10093337	I088947	327.5	329	0.025
		« ank 2%» « py 0.7% 0.5-1.0mm»	VA10093337	I088948	329	330	0.025
		‹ @ 313.62 QV2 60° 1.7cm ›	VA10093337	I088950	330	331.5	0.025
	Cat.2 Argillite / Siltstone	‹ @ 313.03 FZ 80° 47.0cm, gouge _slicks › ‹ @ 317.18 FZ 78° 53.0cm › ‹ @ 318.30 FZ 58° 32.0cm, gouge _slicks ›	VA10093337	I088951	331.5	333	0.025
320	Mafic-dyke (40% Alt. Jigsaw)	Cat.2 Argillite/Siltstone: Short section cat.2 A/S.	VA10093337	I088952	333	334.5	0.025
		« ank 2%» « py 1.1% 0.5-1.0mm»	VA10093337	I088953	334.5	336	0.025
		‹ @ 318.66 S1 22° ›	VA10093337	I088954	336	337.5	0.025
		‹ @ 319.34 QVbull 10° 1.0cm ›	VA10093337	I088956	337.5	339	0.06
		Mafic-dyke (40% Alt. Jigsaw): Fg-mg pale cream altered mafic dyke. Contacts are clean with the surrounding cataclasite arg/siltstone but are deformed and not planar. Also, no chilled margin is visible leading to possible tuff interpretation. Green chrome-mica blebs 3-4mm are persistant throughout the unit and same jigsaw texture is formed by black veinlets.	VA10093337	I088957	339	340.5	0.06
		« ank 3%» « py 0.8% 2.0-5.0mm»	VA10093337	I088958	340.5	342.16	0.025
325	Cat.1 Tuff / Sediment	« ser 40%»	VA10093337	I088959	342.16	342.86	0.025
		Cat.1 Tuff/Sediment: Cataclasite texture in a sediment/tuff bed. Boudins and highly contorted beds of altered crystal tuff are mingled with dark grey fg siltstone.	VA10093337	I088960	342.86	344	0.025
		« ank 4%» « py 1.0% 0.5-2.0mm»	VA10093337	I088961	344	345.5	0.025
		‹ @ 327.50 S1 20° ›	VA10093337	I088963	345.5	347	0.025
		‹ @ 321.42 QVbull 30° 0.7cm › ‹ @ 325.32 QVbull 60° 0.5cm › ‹ @ 325.69 QVbull 41° 3.4cm › ‹ @ 326.58 QVbull 35° 1.5cm ›	VA10093337	I088964	347	348.5	0.06
		‹ @ 322.17 FZ 70° 4.2cm, gouge › ‹ @ 324.00 FZ 30° 6.0cm › ‹ @ 325.57 FZ 39° 13.0cm, gouge ›					
330		« ser 5%»					
		Jigsaw Volc. (Crystal Tuff): Pale cream fg-mg crystal tuff with brecciated jigsaw texture formed by thin black anastomising veinlets.					
		« ank 3%» « py 0.2% 2.0-4.0mm»					
		‹ @ 331.75 QV2 30° 0.2cm › ‹ @ 333.36 QVbull 30° 0.8cm › ‹ @ 333.72 QVbull 50° 0.6cm › ‹ @ 334.67 QVbull 42° 0.3cm › ‹ @ 335.34 QVbull 51° 0.6cm › ‹ @ 337.91 QVbull 54° 1.9cm › ‹ @ 338.00 QVbull 25° 0.6cm › ‹ @ 338.47 QVbull 25° 0.7cm › ‹ @ 338.84 QVbull 46° 1.0cm › ‹ @ 340.03 QVbull 45° 0.3cm › ‹ @ 342.00 QVbull 37° 0.9cm ›					
335	Jigsaw Volc. (Crystal Tuff)	« ser 20%»					
340		Chert: Highly silicified v.fg grey rock with a micro-fractured texture. Shows ankerite alteration better than surrounding unit as pale cream altered rhombs 3-4mm in size.					
		« ank 3%» « py 0.3% 0.5-1.0mm»					
		« ser 20%»					
	Chert (Jigsaw texture)	Jigsaw Volc (Crystal Tuff): same as previous to chert. Contains minor sediment component (<10%) which shows in darker grey areas and along some fractures as being graphitic rich which create slip surfaces.					
		« ank 5%» « py 0.2% 0.5-2.0mm»					
345	Jigsaw Volc (Crystal Tuff)	‹ @ 347.35 S0 40° ›					
		‹ @ 343.49 QVbull 28° 0.4cm › ‹ @ 345.57 QVbull 70° 0.6cm › ‹ @ 346.20 QVbull 33° 0.2cm › ‹ @ 347.35 QVbull 41° 0.6cm › ‹ @ 348.50 QVbull 31° 0.6cm › ‹ @ 349.28 QVbull 42° 0.7cm › ‹ @ 350.42 QVbull 24° 0.4cm › ‹ @ 350.65 QVbull 24° 0.6cm › ‹ @ 353.29 QVbull 38° 0.9cm › ‹ @ 353.78 QVbull 30° 0.7cm › ‹ @ 355.15 QVbull 29° 0.4cm › ‹ @ 356.00 QVbull 32° 0.5cm › ‹ @ 356.64 QVbull 53° 0.5cm ›					
		« ser 30%»					

Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
350	Jigsaw Volc (Crystal Tuff)	Jigsaw Volc (Crystal Tuff): same as previous to chert. Contains minor sediment component (<10%) which shows in darker grey areas and along some fractures as being graphitic rich which create slip surfaces. « ank 5%» « py 0.2% 0.5-2.0mm» ‹ @ 347.35 S0 40° › ‹ @ 343.49 QVbull 28° 0.4cm › ‹ @ 345.57 QVbull 70° 0.6cm › ‹ @ 346.20 QVbull 33° 0.2cm › ‹ @ 347.35 QVbull 41° 0.6cm › ‹ @ 348.50 QVbull 31° 0.6cm › ‹ @ 349.28 QVbull 42° 0.7cm › ‹ @ 350.42 QVbull 24° 0.4cm › ‹ @ 350.65 QVbull 24° 0.6cm › ‹ @ 353.29 QVbull 38° 0.9cm › ‹ @ 353.78 QVbull 30° 0.7cm › ‹ @ 355.15 QVbull 29° 0.4cm › ‹ @ 356.00 QVbull 32° 0.5cm › ‹ @ 356.64 QVbull 53° 0.5cm › « ser 30%»	VA10093337	I088964	347	348.5	0.06
			VA10093337	I088965	348.5	350	0.025
			VA10093337	I088966	350	351.5	0.025
			VA10093337	I088967	351.5	353	0.025
			VA10093337	I088968	353	354.5	0.025
355			VA10093337	I088970	354.5	356	0.025
			VA10093337	I088971	356	357.5	2.3
			VA10093337	I088972	357.5	359	0.025
360			VA10093337	I088973	359	360.5	0.025
			VA10093337	I088974	360.5	361.63	0.025
	Crystal Tuff (30% Alt.)	Crystal Tuff: Fg-mg pale grey crystal tuff. No bedding visible and jigsaw fracturing is lacking. Some areas of moderate chlorite alteration is seen, rimming the ankerites in areas 10-20cm thick. Strong fizzing acid reaction occurs with the infilling of fractures @368-369m- fine grained white powder, calcite or ground akerite? « ank 6%» ‹ @ 362.42 QVbull 31° 0.2cm › ‹ @ 364.85 QVbull 20° 0.2cm › ‹ @ 366.00 QVbull 62° 0.2cm › ‹ @ 369.53 QVbull 17° 1.8cm › « ser 30%»	VA10093337	I088975	361.63	363	0.025
			VA10093337	I088976	363	364.5	0.025
365			VA10093337	I088978	364.5	366	0.025
			VA10093337	I088979	366	367.5	0.025
			VA10093337	I088980	367.5	369	0.025
370			VA10093337	I088981	369	370.5	0.08
			VA10093337	I088983	370.5	372	0.025
			VA10093337	I088984	372	373.5	0.025
	Fault Zone (Crystal Tuff)	Fault Zone (Crystal Tuff): HIghly fractured unit in the crystal tuff with areas of gouge. « ank 6%» « py 0.4% 0.2-0.5mm» ‹ @ 374.98 FZ 12° 2.0cm, gouge › ‹ @ 377.10 FZ 0° 17.0cm, no alpha, gouge › ‹ @ 377.00 FZ 0° 7.0cm, gouge, no alpha › CORE LOSS‹ @ 376.80 CL 0.40m ›	VA10093337	I088985	373.5	375	0.025
375			VA10093337	I088986	375	377	0.025
	Jigsaw Volc. (Crystal Tuff)	Jigsaw Volc. (Crystal Tuff): Very similar to previous jigsaw volcanic unit. Slightly higher abundance of sediment 15-20%. « ank 8%» ‹ @ 380.43 S0 32° › ‹ @ 377.18 QVbull 59° 3.9cm › ‹ @ 377.40 QVbull 10° 0.9cm › ‹ @ 379.28 QVbull 60° 1.3cm › ‹ @ 381.00 QVbull 17° 0.2cm › ‹ @ 381.85 QVbull 16° 0.7cm › ‹ @ 382.48 QVbull 50° 0.5cm › ‹ @ 382.48 QVbull 30° 0.5cm › ‹ @ 386.85 QVbull 20° 2.7cm › « ser 25%»	VA10093337	I088987	377	378.5	0.025
			VA10093337	I088988	378.5	380	0.025
380			VA10093337	I088990	380	381.5	0.025
			VA10093337	I088991	381.5	383	0.025
			VA10093337	I088992	383	384.5	0.025
385			VA10093337	I088993	384.5	386	0.025
			VA10093337	I088994	386	387.5	0.09
			VA10093337	I088995	387.5	389	0.025
			VA10093337	I088997	389	390	0.025
390			VA10093337	I088998	390	391.15	0.025
	Chert (Jigsaw)	Chert: Jigsaw texture highly fractured grey siliceous rock. Ankerite rhombs visibl to pale cream colour through alteration. Few areas of fault grind and gouge, overall the unit is broken up. « ank 6%» « py 0.2% 0.5-3.0mm» ‹ @ 395.48 QVbull 27° 1.3cm › ‹ @ 397.24 QVbull 30° 5.7cm › ‹ @ 394.63 FZ 60° 3.8cm › ‹ @ 392.90 FZ 0° 2.2cm, gouge, no alpha › « ser 10%» CORE LOSS‹ @ 391.34 CL 0.35m › ‹ @ 394.70 CL 0.20m › ‹ @ 396.50 CL 0.45m ›	VA10093337	I088999	391.15	393	0.025
			VA10093337	I089000	393	394.5	0.025
395			VA10093337	I089002	394.5	396	0.35
			VA10093337	I089003	396	397.5	0.025

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
400	Chert (Jigsaw)	Chert: Jigsaw texture highly fractured grey siliceous rock. Ankerite rhombs visibl to pale cream colour through alteration. Few areas of fault grind and gouge, overall the unit is broken up.	VA10093337	I089003	396	397.5	0.025
		« ank 6%» « py 0.2% 0.5-3.0mm»	VA10093337	I089004	397.5	399	0.025
		‹ @ 395.48 QVbull 27° 1.3cm › ‹ @ 397.24 QVbull 30° 5.7cm ›	VA10093337	I089005	399	400.1	0.025
		‹ @ 394.63 FZ 60° 3.8cm › ‹ @ 392.90 FZ 0° 2.2cm, gouge, no alpha ›	VA10093337	I089006	400.1	401.5	0.025
		« ser 10%»	VA10093337	I089008	401.5	403	0.025
		CORE LOSS‹ @ 391.34 CL 0.35m › ‹ @ 394.70 CL 0.20m › ‹ @ 396.50 CL 0.45m ›	VA10093337	I089009	403	404.5	0.14
405	Jigsaw Volc. (Crystal Tuff 30% Alt)	Jigsaw Volc. (Crystal Tuff 30% Alt): Alteration increases throughout the bottom 1m of the unit up to 40%.	VA10093337	I089010	404.5	406	0.025
		« ank 7%» « py 0.2% 0.5-3.0mm»	VA10093337	I089011	406	407.5	0.025
		‹ @ 404.00 QVbull 8° 0.7cm › ‹ @ 404.65 QVbull 12° 0.3cm › ‹ @ 407.75 QVbull 29° 1.8cm › ‹ @ 409.37 QVbull 60° 1.1cm › ‹ @ 410.60 QVbull 12° 1.0cm › ‹ @ 412.86 QVbull 20° 1.2cm › ‹ @ 413.40 QVbull 60° 3.6cm ›	VA10093337	I089012	407.5	409	0.025
		« ser 30%»	VA10093337	I089013	409	410.5	0.025
410			VA10093337	I089014	410.5	412	0.025
			VA10093337	I089016	412	413.5	0.025
			VA10093337	I089017	413.5	415	0.025
415	Fault (Jig. Volc-S / A)	Fault (Jig. Volc-S/A): Fault zone in jigsaw volc. crystal tuff, bottom 60cm is lower argillite/siltstone unit.	VA10093337	I089018	415	416.5	0.025
		« ank 3%»	VA10093337	I089019	416.5	418.4	0.025
		‹ @ 414.44 FZ 52° 6.0cm, gouge slicks › ‹ @ 416.05 FZ 34° 3.5cm, gouge slicks › ‹ @ 418.25 FZ 40° 18.0cm, gouge _grind, slicks ›	VA10093337	I089020	418.4	420	0.05
		Cat.2 Argillite/Siltstone: Broken unit with lts of areas of gouge- almost a fault zone in it's entireity.	VA10093337	I089021	420	421.5	0.05
420		Thin pale cream mg mafic dyke in middle of unit. Contains green chrome-mica blebs 4-6mm in size, 2% abundance. « 425.73- 426.03 Mafic-dyke »	VA10093337	I089023	421.5	423	0.025
		« ank 3%» « py 0.5% 0.2-1.0mm»	VA10093337	I089024	423	424.5	0.025
		‹ @ 418.80 S1 50° ›	VA10093337	I089025	424.5	426	0.05
		‹ @ 431.00 QVbull 12° 0.2cm ›	VA10093337	I089026	426	427.5	0.11
		‹ @ 491.71 FZ 0° 6.0cm, gouge, no alpha › ‹ @ 422.32 FZ 60° 9.0cm, gouge slicks › ‹ @ 425.28 FZ 70° 6.5cm, gouge › ‹ @ 427.00 FZ 76° 31.0cm, gouge › ‹ @ 427.80 FZ 0° 3.5cm, no alpha › ‹ @ 431.10 FZ 30° 1.6cm, gouge _slicks ›	VA10093337	I089027	427.5	429	0.025
425	Cat.2 Argillite / Siltstone		VA10093337	I089028	429	430	0.025
			VA10093337	I089029	430	431.3	0.025
430			VA10093337	I089031	431.3	432.5	0.025
		Jigsaw Volc. (Crystal Tuff 25% Alt): Same jigsaw textured crystal tuff.	VA10093337	I089032	432.5	434	0.025
		« ank 8%» « py 0.3% 1.0-4.0mm»	VA10093337	I089033	434	435.5	0.025
		‹ @ 432.50 QVbull 50° 0.3cm › ‹ @ 435.60 QVbull 46° 1.5cm › ‹ @ 436.90 QVbull 40° 7.0cm › ‹ @ 437.82 QVbull 35° 1.4cm, 1% cpy › ‹ @ 438.95 QVbull 82° 5.5cm › ‹ @ 440.90 QVbull 73° 1.2cm › ‹ @ 444.09 QVbull 60° 1.5cm › ‹ @ 445.33 QVbull 45° 0.3cm › ‹ @ 445.59 QVbull 66° 2.8cm › ‹ @ 446.00 QVbull 37° 0.3cm › ‹ @ 449.45 QVbull 37° 0.5cm › ‹ @ 449.83 QVbull 38° 0.7cm, .5% cpy › ‹ @ 452.28 QVbull 10° 1.2cm ›	VA10093337	I089034	435.5	437	0.025
435		‹ @ 437.82 cpy 1.0% 6.0mm, in qvbull › ‹ @ 449.83 cpy 0.5% 3.0mm, in qvbull ›	VA10093337	I089035	437	438.5	0.025
		‹ @ 452.10 FZ 60° 6.5cm, slicks gouge › ‹ @ 434.51 FZ 32° 5.8cm, slicks gouge › ‹ @ 432.00 FZ 70° 1.0cm, slicks _gouge ›	VA10093337	I089036	438.5	440	0.025
		CORE LOSS: ‹ @ 440.10 CL 0.40m ›	VA10093337	I089038	440	441.5	0.025
			VA10093337	I089039	441.5	443	0.025
			VA10093337	I089040	443	444.5	0.025
440	Jigsaw Volc. (Crystal Tuff 25% Alt)		VA10093337	I089041	444.5	446	0.025
			VA10093337	I089042	446	447.5	0.025
445							

10-DDH-910	North :5828055	East :603823	Elevation :1104.4	Hole Length :491.74	Azimuth :118	Dip :-74	Logged by :EAG	Size :NQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
450	Jigsaw Volc. (Crystal Tuff 25% Alt)	Jigsaw Volc. (Crystal Tuff 25% Alt): Same jigsaw textured crystal tuff. « ank 8%» « py 0.3% 1.0-4.0mm» ‹ @ 432.50 QVbull 50° 0.3cm › ‹ @ 435.60 QVbull 46° 1.5cm › ‹ @ 436.90 QVbull 40° 7.0cm › ‹ @ 437.82 QVbull 35° 1.4cm, 1% cpy › ‹ @ 438.95 QVbull 82° 5.5cm › ‹ @ 440.90 QVbull 73° 1.2cm › ‹ @ 444.09 QVbull 60° 1.5cm › ‹ @ 445.33 QVbull 45° 0.3cm › ‹ @ 445.59 QVbull 66° 2.8cm › ‹ @ 446.00 QVbull 37° 0.3cm › ‹ @ 449.45 QVbull 37° 0.5cm › ‹ @ 449.83 QVbull 38° 0.7cm, .5% cpy › ‹ @ 452.28 QVbull 10° 1.2cm › ‹ @ 437.82 cpy 1.0% 6.0mm, in qvbull › ‹ @ 449.83 cpy 0.5% 3.0mm, in qvbull › ‹ @ 452.10 FZ 60° 6.5cm, slicks gouge › ‹ @ 434.51 FZ 32° 5.8cm, slicks gouge › ‹ @ 432.00 FZ 70° 1.0cm, slicks _gouge ›	VA10093337	I089042	446	447.5	0.025	
			VA10093337	I089044	447.5	449	0.025	
			VA10093337	I089045	449	450.5	0.025	
			VA10093337	I089046	450.5	452.3	0.025	
		CORE LOSS: ‹ @ 440.10 CL 0.40m ›						
455	Chert (Jigsaw Text.)	Jigsaw Chert: Micro-macro fractured very hard grey to pale grey siliceous chert. Fracture is throughout on a cm to mm scale giving jigsaw texture. Fractures are healed and infilled with fg black veinlets. Ankerite shows as large 3-4mm altered to pale cream rhombs. « ank 4%» « py 0.3% 0.5-3.0mm» ‹ @ 450.60 S0 25° › ‹ @ 456.00 S0 30° › ‹ @ 455.00 QVbull 51° 0.2cm › ‹ @ 457.45 QVbull 30° 2.7cm, VG, sph › ‹ @ 457.60 QVbull 30° 3.2cm › ‹ @ 465.87 QVbull 44° 7.2cm › ‹ @ 467.10 QVbull 50° 0.5cm › ‹ @ 467.85 QVbull 30° 0.4cm › ‹ @ 457.45 sph 3.0% 5-7mm, 2x xls in qvbull › « VG 0.1% 0.2-0.3mm, specks in qvbull»	VA10093337	I089047	452.3	454	0.025	
			VA10093337	I089048	454	455.5	0.025	
			VA10093337	I089050	455.5	457	0.025	
			VA10093337	I089051	457	458.5	1.49	
460			VA10093337	I089052	458.5	460	0.025	
			VA10093337	I089053	460	461.5	0.025	
			VA10093337	I089054	461.5	463	0.025	
			VA10093337	I089055	463	464.5	0.025	
465			VA10093337	I089057	464.5	466	0.025	
			VA10093337	I089058	466	467	0.1	
		End of the hole...	VA10093337	I089059	467	468.48	0.025	
	EOH							
470								
475								
480								
485								
490								
495								

Scale 1:200	Start Depth :446.36	End Depth :495.96	Page No.: 10

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Casing	Casing					
	Tuffs, Mafic Dikes	Interlayered volcanic tuffs and mafic dike material (10%) with minor interbeds of finely layered to laminated sediments - siltstone and possibly greywacke. All three show cataclastic features, to Cat 2 in places. Tuffs are lt to med grey, highly siliceous in appearance (cherty in places) with a large portion resembled the jigsaw volcanics due to cataclastic action. Thin black fractures thruout at various angles (chlorite?) can be deceptive and taken as bedding or fol. Any So angles measured are from the few sed horizons. Mafic dike material is cream-lt green (Cr-mica), with sharp contacts - these have probably been formed by Cat movement. Rafts of tuff occur. 9.4m - a 10cm wide band of possible conglomerate but just as easily be cataclastically altered tuff. Most of unit blocky, limonite stained, corroded dueto weathering. Ankerite stained brown. Sericitic alteration shows in the tuffs in the small centers that haven't undergone cat movement or black line alteration. « ser 5%» « py 0.3% 0.5-7.0mm» « ank 20.0%» ‹ @ 9.10 S0 33° › no orient line on core ‹ @ 8.45 QV3 52° 2.0cm › ‹ @ 9.90 QV3 11° 4.5cm, open vugs, coarse xls › ‹ @ 11.91 QV3 25° 13.0cm, open vugs, coarse xls › ‹ @ 12.92 QV3 23° 3.0cm, irregular › ‹ @ 16.75 OQV2 15° 6.0mm › ‹ @ 16.75 Obeta 330° › Faults ‹ @ 20.65 FZ 0° 180.0cm, no measureable angle › no orient line	VA10098123	I004814	1.27	3	0.025
			VA10098123	I004815	3	6	0.025
			VA10098123	I004816	6	8	0.025
			VA10098123	I004817	8	9.5	0.025
			VA10098123	I004818	9.5	11	0.025
			VA10098123	I004820	11	13	0.025
			VA10098123	I004821	13	14.5	0.025
			VA10098123	I004822	14.5	16	0.025
			VA10098123	I004823	16	17.5	0.025
			VA10098123	I004824	17.5	19.25	0.025
			VA10098123	I004825	19.25	22	0.06
	Cat.2 Argillite	Cat 2 Argillite with 15% siltstone as lighter grey boudins and wavy, discontinuous thin layering. Rare bands of siltstone to 3cm maintain integrity. Unit is mainly dk grey to black, f.gr, graphitic. Up to 27m unit is still rust stained and limonitic along fracs due to near surface weathering effects. « ank 20.0%» « py 4.0% 0.5-3.0mm» ‹ @ 24.20 S0 12° › no orient line ‹ @ 28.40 S0 60° › ‹ @ 30.40 S0 53° › Quartz ‹ @ 22.90 QV2 63° 0.6cm › ‹ @ 28.75 QV2 75° 0.5cm ›	VA10098123	I004827	22	23.5	0.025
			VA10098123	I004828	23.5	25	0.025
			VA10098123	I004829	25	26.5	0.025
			VA10098123	I004830	26.5	28	0.06
			VA10098123	I004831	28	29.5	0.05
			VA10098123	I004833	29.5	31.28	0.025
	Cat.1 Siltstone, Tuffs, Mafic Dikes	Interlayered siltstones, tuffs (15%) and lt green-cream colored mafic dikes (20%). A 1m section centered at 34.5 has interbedded argillite which shows a Cat 1 degree of deformation. Rest of unit shows displacements, up to a jigsaw effect locally. Tuffs are finely laminated and siliceous, very fine grained, lt to med grey. Siltstones are more roughly banded, in shades of grey. « ank 15.0%» « py 2% 0.5-10.0mm» ‹ @ 38.46 QV3 0° 0.8cm › vein is parallel CA ‹ @ 39.55 OQV2 20° 3.0mm › ‹ @ 39.55 Obeta 0° ›	VA10098123	I004834	31.28	32.5	0.025
			VA10098123	I004835	32.5	33.85	0.025
			VA10098123	I004836	33.85	34.82	0.025
			VA10098123	I004837	34.82	36.5	0.025
			VA10098123	I004838	36.5	38	0.025
			VA10098123	I004839	38	39.5	0.025
			VA10098123	I004841	39.5	41.25	0.025
	Cat.2 Argillite, Siltstone	Cat 2 Argillite with 35% siltstone interbeds - fine to med grained, shades of grey to black, graphitic with cat 2 style of deformation. 55m - 25cm section of lt grey, banded siltstone/carbonatitic rock (hi rxtn to acid). « py 2.0% 0.5-3.0mm» « ank 15.0%» ‹ @ 41.40 OS0 45° › ‹ @ 41.40 Obeta 55° › ‹ @ 49.00 S0 67° › no orient line ‹ @ 42.05 OQV2 85° 9.0mm › ‹ @ 42.05 Obeta 70° › ‹ @ 42.00 FZ 0° 8.0cm, clay, rock grind, no angle readable › ‹ @ 47.20 FZ 0° 180.0cm, no readable angle › ‹ @ 48.00 FZ 0° 50.0cm, no readable angle, clay and rock grind › ‹ @ 51.10 FZ 38° 3.0cm, clay, rock grind, angle est › no orient line	VA10098123	I004842	41.25	43	0.025
			VA10098123	I004843	43	44.5	0.025
			VA10098123	I004844	44.5	47	0.025
			VA10098123	I004845	47	48.5	0.17
			VA10098123	I004846	48.5	50	0.14

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
	Cat.2 Argillite, Siltstone	Cat 2 Argillite with 35% siltstone interbeds - fine to med grained, shades of grey to black, graphitic with cat 2 style of deformation.	VA10098123	I004846	48.5	50	0.14
		55m - 25cm section of lt grey, banded siltstone/carbonatitic rock (hi rxtn to acid).	VA10098123	I004848	50	51.5	0.1
		« py 2.0% 0.5-3.0mm» « ank 15.0%»					
		‹ @ 41.40 OS0 45° › ‹ @ 41.40 Obeta 55° ›	VA10098123	I004849	51.5	53	0.07
		‹ @ 49.00 S0 67° › no orient line	VA10098123	I004850	53	54.15	0.1
		‹ @ 42.05 OQV2 85° 9.0mm › ‹ @ 42.05 Obeta 70° ›					
55		‹ @ 42.00 FZ 0° 8.0cm, clay, rock grind, no angle readable ›	VA10098123	I004851	54.15	55.5	0.19
		‹ @ 47.20 FZ 0° 180.0cm, no readable angle ›					
		‹ @ 48.00 FZ 0° 50.0cm, no readable angle, clay and rock grind ›					
		‹ @ 51.10 FZ 38° 3.0cm, clay, rock grind, angle est › no orient line	VA10098123	I004852	55.5	57	1.15
	Siltstone	Siltstone - massive, monotonous med grey, graphitic rock with very little banding effect. Minor argillitic sections.					
		« ank 15.0%» « py 2% 0.5-10.0mm»	VA10098123	I004853	57	58.5	0.09
		Quartz					
		‹ @ 56.38 OQV2 62° 7.0mm › ‹ @ 56.38 Obeta 25° ›	VA10098123	I004855	58.5	60	0.06
60		‹ @ 60.30 QV2 25° 1.0cm › no orient line					
		‹ @ 63.78 QV3 0° 15.0cm, no readable angle › no orient line					
		Faults					
		‹ @ 61.55 FZ 65° 38.0cm, gouge, rock grind › no orient line	VA10098123	I004856	60	61.5	0.1
		‹ @ 64.70 FZ 0° 110.0cm, gouge, rock grind,rubble, angle not readable ›	VA10098123	I004857	61.5	63	0.025
			VA10098123	I004858	63	65	1.14
65	Conglomerate	Conglomerate - massive (unbedded) med grey with lt to dk grey, angular to subrounded fragments to 1.5 x 5cm. The rare "banding" may actually be larger fragments. The angular frags tend to be dk grey. Whole unit is very blocky with faulted zones thruout.	VA10098123	I004859	65	66.5	0.84
		« ank 20.0%» « py 3.4% 0.5-15.0mm»	VA10098123	I004861	66.5	67.5	0.54
		‹ @ 67.35 S0 60° › no orient line					
		Quartz					
		‹ @ 70.90 QV2 20° 1.0cm › no orient line					
		Faults					
70		‹ @ 66.30 FZ 70° 30.0cm, mainly rubble, clay and rockgrind › ‹ @ 69.00 FZ 0° 300.0cm, no readable angle, rubble, clay rock grind › ‹ @ 71.95 FZ 20° 3.0cm, clay, rockgrind ›	VA10098123	I004862	67.5	70	0.17
			VA10098123	I004863	70	72	0.025
			VA10098123	I004864	72	73.63	0.025
		Interbedded siltstones and greywackes, mainly massive in appearance, lt to med grey with 2-4% white felsic lines (wavy to broken so slight disturbance). Most of unit is broken and rubbly reflecting the regular shear movement that has occurred thruout.	VA10098123	I004865	73.63	75	0.025
75		91 to 95m - minor sections of siliceous, laminated rock - poss tuff or chert interbeds. Very minor argillite.					
		« py 1.8% 0.5-11.0mm» « ank 10.0%»					
		‹ @ 91.90 S0 70° › no orient lines unless noted	VA10098123	I004867	75	76.5	0.025
		Quartz					
		‹ @ 79.10 QV2 70° 0.2cm, general angle for veins in this area ›	VA10098123	I004868	76.5	78	0.025
		‹ @ 81.70 QV3 75° 110.0cm ›					
		‹ @ 84.25 QV3 0° 9.0cm › ‹ @ 88.15 QV3 52° 6.0cm ›					
		‹ @ 92.40 QV3 0° 30.0cm, no readable angle › ‹ @ 95.37 QV3 65° 16.0cm › ‹ @ 96.00 QV3 70° 7.0cm ›					
		Faults					
80		‹ @ 78.20 FZ 0° 15.0cm, rock grind › ‹ @ 84.10 FZ 5° 55.0cm, rock grind › ‹ @ 88.05 FZ 28° 15.0cm, clay, rockgind › ‹ @ 89.36 FZ 35° 12.0cm, clay,rock grind › ‹ @ 93.60 FZ 0° 80.0cm, clay, rock grind › ‹ @ 95.70 FZ 0° 40.0cm, gouge, rock grind, no reaable angle › ‹ @ 97.65 FZ 0° 85.0cm, gouge, rubble, no readable angle › ‹ @ 98.60 FZ 70° 24.0cm, gouge, rock grind ›	VA10098123	I004869	78	79.5	0.025
			VA10098123	I004870	79.5	81	0.55
			VA10098123	I004872	81	82.5	0.52
			VA10098123	I004873	82.5	84.5	0.2
85			VA10098123	I004874	84.5	86	0.06
	Siltstone, Greywacke		VA10098123	I004875	86	87.5	0.41
			VA10098123	I004876	87.5	89.5	0.61
90			VA10098123	I004877	89.5	91.5	1.08
			VA10098123	I004878	91.5	93	0.63
			VA10098123	I004879	93	95	1.56
95			VA10098123	I004881	95	96.5	0.32
		Cat 1 argillite - dk grey to black, graphitic, with minor lighter felsic layers showing varying degrees of Cat 1. 1-3% fine white veinlets, some distorted due to movement along the fabric planes.	VA10098123	I004882	96.5	98.71	0.3
		« py 6.0% 0.5-13.0mm» « ank 15.0%»					
		‹ @ 101.00 S0 68° › no orient line					
	Cat.1 Argillite	‹ @ 101.29 FZ 62° 4.0cm, clay, rock gind ›	VA10098123	I004883	98.71	100	1.23

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Cat.1 Argillite	Cat 1 argillite - dk grey to black, graphitic, with minor lighter felsic layers showing varying degrees of Cat 1. 1-3% fine white veinlets, some distorted due to movement along the fabric planes. « py 6.0% 0.5-13.0mm» « ank 15.0%» ‹ @ 101.00 S0 68° › no orient line ‹ @ 101.29 FZ 62° 4.0cm, clay, rock gind ›	VA10098123	I004883	98.71	100	1.23
			VA10098123	I004884	100	102	2.01
	Siltstone, Greywacke	Interbedded siltstones and greywackes, mainly massive in appearance, lt to med grey with 2-5% white felsic lines (wavy to broken so slight disturbance). Rare laminated small sections. « py 1.3% 0.5-12.0mm» « ank 10.0%» ‹ @ 107.05 S0 85° › no orient line ‹ @ 108.50 QV2 12° 0.6cm › ‹ @ 102.54 FZ 30° 4.0cm, schistose rock, clay ›	VA10098123	I004885	102	103.5	0.07
105			VA10098123	I004887	103.5	105	0.025
			VA10098123	I004888	105	106.5	0.13
			VA10098123	I004889	106.5	108	0.22
110			VA10098123	I004890	108	109.5	0.17
			VA10098123	I004891	109.5	111	0.15
			VA10098123	I004893	111	112.6	0.1
	Tuff, Siltstone	Interbedded tuffs with lesser siltstone (25%) - coarse to finely bedded, lt to med grey with occurrence of feldspar crystals (porph) and med and dk grey lithic frags thruout the tuff beds. Siltstones tend to be more laminated, med to dk greys. Top half fairly competent - bottom half blocky due to regular shearing. « py 0.5% 0.5-22.0mm» « ank 25.0%» ‹ @ 117.70 OS0 68-45° › oriented ‹ @ 126.00 OS0 73-55° › Quartz ‹ @ 116.33 OQV2 27-200° 7.0mm › ‹ @ 118.65 OQV3 18-145° 1.1cm, sphal and chalco bleb to .7cm › ‹ @ 119.22 OQV3 12-150° 2.6cm, chalco blebs › Faults ‹ @ 121.25 FZ 28° 45.0cm, clay, rock grind, › no orient line ‹ @ 123.60 FZ 0° 10.0cm, clay, rock grind, no readable angle › ‹ @ 124.45 FZ 0° 7.0cm, gouge, rock grind, no readable angle › ‹ @ 126.72 FZ 30° 4.0cm, clay, rock grind, no orient line ›	VA10098123	I004894	112.6	114	0.025
115			VA10098123	I004895	114	115.5	0.025
			VA10098123	I004896	115.5	117	0.025
			VA10098123	I004897	117	118.5	0.025
			VA10098123	I004898	118.5	120	15.7
120			VA10098123	I004900	120	121.5	0.13
			VA10098123	I004901	121.5	123	0.025
			VA10098123	I004902	123	124.5	0.025
125			VA10098123	I004903	124.5	126	0.06
			VA10098123	I004904	126	127.5	0.025
			VA10098123	I004905	127.5	128.5	0.27
			VA10098123	I004907	128.5	129.5	0.1
130	Crystal Lithic Tuffs	Interbedded sequence of crystal lithic tuffs, f to med grained, med grey with spotted effect caused by ankerite rhombs tinted lt cream-green by the start of sericite alt. Any bedded effect may be result of selective sericite alteration - although this also may reflect a true comp change. Whole unit is blocky due to regular shearing, alot subparallel to CA. Orient lines only where noted « py 0.3% 0.5-8.0mm» « ank 20.0%» « ser 3%, affects mainly anker rhombs» Quartz ‹ @ 130.93 QV2 30° 1.3cm › ‹ @ 137.00 OQV3 40-245° 45.0cm, Chalco to 1x 0.4cm, sphaler to 2.5cm x 2.2cm › this is the bull with openvugs, quartz crystals ‹ @ 141.00 QV2 20° 0.7cm › ‹ @ 142.10 QV2 24° 0.6cm › ‹ @ 145.18 OQV2 30-20° 4.0mm › ‹ @ 136.10 QV3 27° 3.6cm › Faults ‹ @ 131.46 FZ 55° 3.0cm, clay, rock grind › ‹ @ 136.05 FZ 27° 6.0cm, clay, rock grind › ‹ @ 139.65 FZ 5° 0.5cm, subparallels for 2m, clay and rock grind › ‹ @ 143.50 FZ 0° 90.0cm, gouge, no readable angle › ‹ @ 148.00 FZ 5° 0.5cm, subparallels CA for 1m › ‹ @ 149.30 FZ 5° 7.0cm, gouge, clay, rockgrind, subparallels for 1.5m ›	VA10098123	I004908	129.5	131	0.025
			VA10098123	I004909	131	132.5	0.14
			VA10098123	I004910	132.5	134	0.025
135			VA10098123	I004911	134	135.5	0.025
			VA10098123	I004912	135.5	137.5	0.37
			VA10098123	I004914	137.5	139	0.025
			VA10098123	I004915	139	140.5	0.025
140			VA10098123	I004916	140.5	142.15	0.025
			VA10098123	I004917	142.15	143.5	0.025
			VA10098123	I004918	143.5	145	0.025
145			VA10098123	I004919	145	146.5	0.025
			VA10098123	I004921	146.5	148	0.08
			VA10098122	I004922	148	149.5	0.1

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150	Crystal Lithic Tuffs	Interbedded sequence of crystal lithic tuffs, f to med grained, med grey with spotted effect caused by ankerite rhombs tinted lt cream-green by the start of sericite alt. Any bedded effect may be result of selective sericite alteration - although this also may reflect a true comp change. Whole unit is blocky due to regular shearing, alot subparallel to CA.	VA10098122	I004922	148	149.5	0.1
			VA10098122	I004923	149.5	151	0.07
	Altered Tuffs and Andesite	Orient lines only where noted « py 0.3% 0.5-8.0mm» « ank 20.0%» « ser 3%, affects mainly anker rhombs» Quartz ‹ @ 130.93 QV2 30° 1.3cm › ‹ @ 137.00 OQV3 40-245° 45.0cm, Chalco to 1x 0.4cm, sphaler to 2.5cm x 2.2cm › this is the bull with openvugs, quartz crystals ‹ @ 141.00 QV2 20° 0.7cm › ‹ @ 142.10 QV2 24° 0.6cm › ‹ @ 145.18 OQV2 30-20° 4.0mm › ‹ @ 136.10 QV3 27° 3.6cm › Faults ‹ @ 131.46 FZ 55° 3.0cm, clay, rock grind › ‹ @ 136.05 FZ 27° 6.0cm, clay, rock grind › ‹ @ 139.65 FZ 5° 0.5cm, subparallels for 2m, clay and rock grind › ‹ @ 143.50 FZ 0° 90.0cm, gouge, no readable angle › ‹ @ 148.00 FZ 5° 0.5cm, subparallels CA for 1m › ‹ @ 149.30 FZ 5° 7.0cm, gouge, clay, rockgrind, subparallels for 1.5m ›	VA10098122	I004924	151	152.5	0.07
			VA10098122	I004925	152.5	154	0.025
155			VA10098122	I004926	154	155.5	0.025
			VA10098122	I004928	155.5	157	0.025
			VA10098122	I004929	157	158.5	0.025
		Interbanded altered tuffs and andesite volcanics, mainly f to med grained, massive, cream-lt green-grey with black (chlorite?) breccia frac lines in places. The ankerite rhombs and specks have altered to sericite to a greater degree and tend to stand out as lighter cream-yellow than the rest of the rock. Deformation hard to evaluate but could be some as breccia areas show some displacement. Don't get the feeling of much though. 154 to 155.5m - flecks of bright green chrome mica alteration - mafic dyke.	VA10098122	I004930	158.5	160	0.025
160			VA10098122	I004931	160	161.5	0.025
		« py 0.2% 0.2-4.0mm» « ank 15.0%» « ser 20%» Quartz ‹ @ 151.27 OQV2 47-10° 14.0mm › ‹ @ 151.64 OQV2 38-10° 12.0mm ›	VA10098122	I004932	161.5	162.5	0.025
			VA10098122	I004934	162.5	163.5	0.025
	Volcanic Conglomerate	Conglomerate unit in volcanic rock - a small unit of volcanic with angular fragmentals, various shades of volc grey colors, volcanic matrix, aligned to subaligned. Sizes up to 7cm x 3cm.	VA10098122	I004935	163.5	165	0.025
165		« py 0.2% 0.2-0.2mm» « ank 15.0%» « ser 20%» ‹ @ 164.43 OQV2 25-180° 7.0mm ›	VA10098122	I004936	165	166.15	0.025
	Altered Tuffs and Andesite	Altered Volcanic tuffs and andesite, as at 151 to 163.5. Lower 7m has incr of black altered (chloritic?) phases and lines, showing almost a "jigsaw volcanic" effect. From 176.5m to 178m appears to be subsection of med grey massive interbedded greywacke, incr pyrite but no graphite.	VA10098122	I004937	166.15	167.5	0.025
		« py 0.2% 0.2-15.0mm» « ank 15.0%» « ser 20%»	VA10098122	I004938	167.5	169	0.025
170		‹ @ 177.52 QV2 45° 1.0cm › ‹ @ 186.74 OQV2 10-160° 3.0mm ›	VA10098122	I004939	169	170.5	0.025
			VA10098122	I004941	170.5	172	0.025
			VA10098122	I004942	172	173.5	0.025
			VA10098122	I004943	173.5	175	0.025
175			VA10098122	I004944	175	176.5	0.13
			VA10098122	I004946	176.5	178	0.14
			VA10098122	I004947	178	179.5	0.09
180			VA10098122	I004948	179.5	181	0.025
			VA10098122	I004949	181	182.5	0.025
			VA10098122	I004950	182.5	184	0.025
185			VA10098122	I004951	184	185.5	0.025
			VA10098122	I004953	185.5	187	0.025
			VA10098122	I004954	187	188.1	0.025
	Conglomerate, Crystal Lithic Tuffs	Interbedded conglomerates and crystal lithic tuffs (45%) - lt to med greys, fine to med grained with ankerite rhombs and specks well defined by showing cream-lt green alteration to sericite. Conglomerate is predominantly clast supported with subangular to rounded granules and pebbles to 4.5cm x 1.5cm. Minor granules with chrome mica green alteration. Evidence of minor stretching (2:1) in places. Crystal tuffs are fine to coarse in grain size, with quartz eyes, lesser possible plag xls, and lithic frags lt grey and dark grey-black, to 1.3cm x 0.3cm.	VA10098122	I004955	188.1	189.5	0.025
190		« ser 10%, mainly affects ankerite» « py 0.2% 0.2-0.2mm» « ank 15.0%»	VA10098122	I004956	189.5	191	0.025
		‹ @ 189.95 OS0 68-320° › Quartz ‹ @ 189.00 OQV2 76-140° 10.0mm › ‹ @ 189.55 OQV2 10-180° 7.0mm › ‹ @ 193.38 QV2 32° 0.6cm ›	VA10098122	I004957	191	192.5	0.025
			VA10098122	I004958	192.5	194	0.025
195		Interbanded to laminated siltstones, light to dk greys, graphitic, fine to med grained. The beginning of Cat 1 deformation in sections of lower half, may coincide with increase in finer black minerals (not quite to the point of being argillite).	VA10098122	I004959	194	195.5	0.025
		« py 1.0% 0.5-12.0mm» « ank 12.0%» ‹ @ 198.10 OS0 65-330° › ‹ @ 203.25 OS0 65-260° › ‹ @ 211.60 OS0 68-340° ›	VA10098122	I004961	195.5	196.5	0.025
	Siltstone	Quartz ‹ @ 198.00 OQV2 45-90° 6.0mm › ‹ @ 198.78 OQV2 65-265° 18.0mm › ‹ @ 206.44 OQV2 72-230° 16.0mm › ‹ @ 211.00 OQV2 75-235° 17.0mm › Faults ‹ @ 200.41 OFZ 75-330° 13.0cm, gouge,rock grind, blocky › ‹ @ 212.84 FZ 60° 16.0cm, gouge, rock grind ›	VA10098122	I004962	196.5	198	0.025
			VA10098122	I004963	198	199.5	0.025

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
200	Siltstone	Interbanded to laminated siltstones, light to dk greys, graphitic, fine to med grained. The beginning of Cat 1 deformation in sections of lower half, may coincide with increase in finer black minerals (not quite to the point of being argillite). « py 1.0% 0.5-12.0mm» « ank 12.0%» ‹ @ 198.10 OS0 65-330° › ‹ @ 203.25 OS0 65-260° › ‹ @ 211.60 OS0 68-340° › Quartz ‹ @ 198.00 OQV2 45-90° 6.0mm › ‹ @ 198.78 OQV2 65-265° 18.0mm › ‹ @ 206.44 OQV2 72-230° 16.0mm › ‹ @ 211.00 OQV2 75-235° 17.0mm › Faults ‹ @ 200.41 OFZ 75-330° 13.0cm, gouge,rock grind, blocky › ‹ @ 212.84 FZ 60° 16.0cm, gouge, rock grind ›	VA10098122	I004963	198	199.5	0.025
			VA10098122	I004964	199.5	201	0.025
			VA10098122	I004965	201	202.5	0.025
			VA10098122	I004967	202.5	204	0.025
205			VA10098122	I004968	204	205.5	0.025
			VA10098122	I004969	205.5	207	0.025
			VA10098122	I004971	207	208.5	0.025
			VA10098122	I004972	208.5	210	0.025
210			VA10098122	I004973	210	211.5	0.025
			VA10098122	I004974	211.5	213	0.025
			VA10102110	I004975	213	214.8	0.05
215	Argillite, Siltstone, Greywacke	Interbedded argillites, siltstones (35%) and greywackes (10%) - banded, fine to med grained, lt to dk greys - black. Alot of the black, graphitic argillite sections are schistose, faulted. Whole unit is blocky due to fault movement thruout. Greywackes may be classified as siltstones underscope, but appear to be the massive, fine grained, salt and pepper rock completely lacking fabric. « py 1.5%» « ank 12.0%» ‹ @ 226.65 S0 65° › ‹ @ 234.90 S0 45° › ‹ @ 244.60 S0 78° › quartz ‹ @ 220.45 OQV2 35° 9.0mm › There is minor bull quartz but crushed, shattered in fault zones. Faults ‹ @ 215.22 FZ 78° 38.0cm, gouge, rock grind, blocky › ‹ @ 219.39 FZ 15° 175.0cm, gouge, rock grind, blocky › angle estimated ‹ @ 222.50 FZ 60° 200.0cm, gouge, rock grind, blocky core › ‹ @ 229.10 FZ 0° 35.0cm, no readable angle, gouge, rock grind › ‹ @ 232.40 FZ 0° 100.0cm, clay, schistose rockgrind › ‹ @ 233.90 FZ 0° 40.0cm, clay, schistose rock grind › no readable angle ‹ @ 235.75 FZ 40° 220.0cm, gouge, rock grind › ‹ @ 238.00 FZ 67° 100.0cm, gouge, rock grind › ‹ @ 242.25 FZ 63° 75.0cm, clay, rock grind › ‹ @ 247.80 FZ 65° 60.0cm, gouge, rock grind ›	VA10102110	I004976	214.8	216	0.025
			VA10102110	I004977	216	217.5	0.025
			VA10102110	I004978	217.5	219	0.025
220			VA10102110	I004979	219	220.5	0.025
			VA10102110	I004980	220.5	222	0.025
			VA10102110	I004982	222	223.5	0.025
			VA10102110	I004983	223.5	225	0.025
225			VA10098122	I004984	225	226.5	0.08
			VA10098122	I004985	226.5	228.5	0.1
			VA10098122	I004986	228.5	230	0.06
230			VA10098122	I004988	230	231.5	0.05
			VA10098122	I004989	231.5	233.5	0.025
			VA10098122	I004990	233.5	235	0.025
235			VA10098122	I004991	235	237	0.05
			VA10098122	I004992	237	238.5	0.025
			VA10098122	I004993	238.5	240	0.025
240			VA10098122	I004995	240	241.5	0.025
			VA10098122	I004996	241.5	243	0.14
			VA10098122	I004997	243	244.5	0.58
245			VA10098122	I004998	244.5	246	0.06
			VA10098122	I004999	246	247.5	0.025
			VA10098122	I005001	247.5	249	0.05

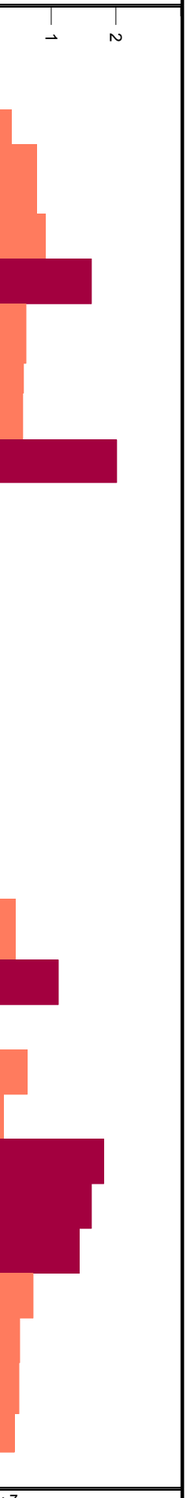
Scale 1:200	Start Depth :198.38	End Depth :247.98	Page No.: 5

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
250	Argillite, Siltstone, Greywacke	Interbedded argillites, siltstones (35%) and greywackes (10%) - banded, fine to med grained, lt to dk greys - black. Alot of the black, graphitic argillite sections are schistose, faulted. Whole unit is blocky due to fault movement thruout. Greywackes may be classified as siltstones underscope, but appear to be the massive, fine grained, salt and pepper rock completely lacking fabric. « py 1.5% » « ank 12.0% » ‹ @ 226.65 S0 65° › ‹ @ 234.90 S0 45° › ‹ @ 244.60 S0 78° › quartz ‹ @ 220.45 OQV2 35° 9.0mm › There is minor bull quartz but crushed, shattered in fault zones. Faults ‹ @ 215.22 FZ 78° 38.0cm, gouge, rock grind, blocky › ‹ @ 219.39 FZ 15° 175.0cm, gouge, rock grind, blocky › angle estimated ‹ @ 222.50 FZ 60° 200.0cm, gouge, rock grind, blocky core › ‹ @ 229.10 FZ 0° 35.0cm, no readable angle, gouge, rock grind › ‹ @ 232.40 FZ 0° 100.0cm, clay, schistose rockgrind › ‹ @ 233.90 FZ 0° 40.0cm, clay, schistose rock grind › no readable angle ‹ @ 235.75 FZ 40° 220.0cm, gouge, rock grind › ‹ @ 238.00 FZ 67° 100.0cm, gouge, rock grind › ‹ @ 242.25 FZ 63° 75.0cm, clay, rock grind › ‹ @ 247.80 FZ 65° 60.0cm, gouge, rock grind ›	VA10098122	I005001	247.5	249	0.05
			VA10098122	I005002	249	250	0.025
			VA10098122	I005003	250	251.5	0.025
			VA10098122	I005004	251.5	253	0.025
			VA10098122	I005005	253	254.5	0.025
255			VA10098122	I005006	254.5	256.36	0.025
	Crystal Tuff						
	Fault Zone	Crystal tuffs, massive, med grey, fine to med grained, predominantly brecciated in appearance with black lines, lenses some of which may be graphitic (from adjoining sed beds?). Imprinted over this brecciated look is the sericitic alteration blotches, mainly affecting the ankerite rhombs but also attacking larger areas. Minor black flecks, quartz eyes. « py 0.5% 0.5-20.0mm » « ank 20% » « ser 5% » no quartz no faults	VA10102782	I005008	256.36	258	0.025
			VA10102782	I005009	258	259.8	0.1
260			VA10102782	I005010	259.8	261	0.025
	Cat.2 Siltstones	Fault zone in siltstones - lt to med grey gouge and rock grind with remnant blocks of banded siltstones. Bull quartz present but crushed, unreadable - est about 20cm. ‹ @ 257.20 FZ 28° 15.0cm, schistose, clay, rock grind › ‹ @ 258.60 FZ 40° 60.0cm, angle est, gouge rock grind › ‹ @ 256.95 QV2 35° 0.6cm ›	VA10102782	I005011	261	262.5	0.025
			VA10102782	I005012	262.5	264	0.025
		Cat 2 siltstones with minor (1m) tuff at the top. Rock is fine to med grained, lt to dk grey, graphitic, banded to laminated but has suffered Cat 2 deformation, to the point where the lower 2/3rds of the unit is actually an annealed fault. Fault movement is very low angle - 10 to 20 degrees. Large part of unit is blocky fue to fault activity. « py 1.0% 0.5-7.0mm » « ank 15.0% » ‹ @ 263.60 S0 45° › ‹ @ 261.13 FZ 52° 6.0cm, gouge, rock grind › ‹ @ 264.45 FZ 35° 8.0cm, gouge, rock grind › ‹ @ 265.05 FZ 15° 0.5cm, clay, rock grind › this is part of thelarge annealed fault system ‹ @ 267.70 FZ 20° 90.0cm, gouge, rock grind ›	VA10102782	I005014	264	265.5	0.025
265			VA10102782	I005015	265.5	267	0.025
			VA10102782	I005016	267	268.5	0.025
			VA10102782	I005017	268.5	270	0.025
270			VA10102782	I005018	270	271.5	0.025
			VA10102782	I005020	271.5	273.39	0.025
	Fault Zone	Fault zone in argillites and siltstones (minor tuffs) - predominantly gouge and clayey rock grind with blocky sections of metasediments. Alot of annealed faults in the siltstone faults. « py 1.5% 0.5-7.0mm » « ank 20.0% » ‹ @ 288.38 QV2 50° 1.2cm › ‹ @ 292.16 QV2 45° 111.1cm › ‹ @ 293.90 QV2 70° 2.0cm › Faults ‹ @ 274.00 FZ 35° 100.0cm, gouge, clay and rock grind › ‹ @ 276.60 FZ 55° 110.0cm, gouge, clay, rock grind › ‹ @ 278.90 FZ 40° 140.0cm, gouge, clay, rock grind › ‹ @ 280.80 FZ 50° 60.0cm, gouge, clay, rock grind › ‹ @ 281.75 FZ 45° 35.0cm, gouge › ‹ @ 283.10 FZ 45° 25.0cm, gouge › ‹ @ 286.00 FZ 25° 200.0cm, clay, rubble, gouge › ‹ @ 295.00 FZ 30° 200.0cm, gouge ›	VA10102782	I005021	273.39	275	0.05
275			VA10102782	I005022	275	276.5	0.025
			VA10102782	I005023	276.5	278	0.025
			VA10102782	I005024	278	280	0.07
280			VA10102782	I005025	280	281.87	0.14
			VA10102782	I005026	281.87	283.5	0.06
			VA10102782	I005028	283.5	285	0.025
285			VA10102782	I005029	285	287.5	0.025
			VA10102782	I005030	287.5	289	0.025
			VA10102782	I005031	289	291	0.025
290			VA10102782	I005032	291	292.5	0.025
			VA10102782	I005034	292.5	294	0.05
		Cat 2 Siltstone - All light grey beds are broken, boudined and rolled, completely disassociated. The whole unit lacks any orig structure. « py 4.0% 0.5-6.0mm » « ank 20.0% » ‹ @ 302.02 OS1 65-310° › Quartz ‹ @ 298.77 QV2 45° 0.8cm › ‹ @ 301.50 OQV2 50° 5.0mm › ‹ @ 296.80 FZ 0° 35.0cm, gouge, clay, rock grind › no readable angle	VA10102782	I005035	294	295.5	0.09
295			VA10102782	I005036	295.5	297	0.22
	Cat.2 Siltstone		VA10102782	I005037	297	298.5	0.12

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
300	Cat.2 Siltstone	Cat 2 Siltstone - All light grey beds are broken, boudined and rolled, completely disassociated. The whole unit lacks any orig structure. « py 4.0% 0.5-6.0mm» « ank 20.0%» ‹ @ 302.02 OS1 65-310° › Quartz ‹ @ 298.77 QV2 45° 0.8cm › ‹ @ 301.50 OQV2 50° 5.0mm › ‹ @ 296.80 FZ 0° 35.0cm, gouge, clay, rock grind › no readable angle	VA10102782	I005037	297	298.5	0.12
			VA10102782	I005039	298.5	300	0.11
			VA10102782	I005040	300	301	0.11
			VA10102782	I005041	301	302.16	0.38
305	Fault Zone	Fault Zone - dark grey to black gouge to rock grind. Rare rock frag suggests orig rock was argillite/siltstone. Quartz veining - probably bull - crushed due to faulting but est 15cm. Hard to get fault angles ‹ @ 304.80 FZ 58° 20.0cm, gouge › ‹ @ 310.22 FZ 57° 100.0cm, gouge, rock grind ›	VA10102782	I005042	302.16	304.5	0.77
			VA10102782	I005043	304.5	306	0.91
			VA10102782	I005044	306	307.5	1.62
			VA10102782	I005046	307.5	309.5	0.61
310			VA10102782	I005047	309.5	310.5	0.57
			VA10102782	I005048	310.5	312.07	0.56
315	Crystal Tuffs	Crystal tuff with argillitic sections in the top 2m and bottom 3 m. Rock is mainly massive, light to med grey, fine to med grained, predominantly brecciated in appearance with black lines, lenses some of which may be graphitic (from adjoining sed beds?). Unit is basically as at 250 to 256m. Sericitic alteration blotches are present, mainly affecting the ankerite rhombs but also attacking larger areas. Minor black flecks, quartz eyes. « py 0.8% 0.5-10.0mm» « ank 25.0%» « ser 5%» Quartz ‹ @ 318.70 QV2 30° 2.2cm › ‹ @ 319.15 QV2 30° 2.0cm › ‹ @ 322.29 QV2 20° 2.0cm › Faults ‹ @ 321.15 FZ 65° 4.0cm, clay, rock grind › ‹ @ 324.80 FZ 30° 40.0cm › gouge, rock grind ‹ @ 327.24 FZ 55° 8.0cm, gouge ›	VA10102782	I005049	312.07	313.5	2.01
			VA10102782	I005050	313.5	315	0.025
			VA10102782	I005052	315	316.5	0.025
			VA10102782	I005053	316.5	318	0.025
			VA10102782	I005054	318	319.5	0.025
320			VA10102782	I005055	319.5	321	0.025
			VA10102782	I005056	321	322.5	0.025
			VA10102782	I005057	322.5	324	0.025
325			VA10102782	I005058	324	325.5	0.025
			VA10102782	I005059	325.5	327.46	0.025
330	Cat.2 Argillite	Cat 2 Argillite - med to dk grey/black, schistose, graphitic matrix with lt colored felsic boudins, balls and contorted lenses of the more brittle felsic component. Small bands to 15cm of the felsic rock however these would probably be just larger boudins if seen in outcrop. Whole zone is rubble, fractured due to faulting in area. « py 3.0% 0.5-7.0mm» « ank 15.0%» ‹ @ 339.00 S1 40.00° › ‹ @ 352.15 S1 68.00° › No quartz Faults ‹ @ 332.00 FZ 30° 95.0cm, gouge, rubble › ‹ @ 335.80 FZ 60° 90.0cm, gouge, clay , rock frag › ‹ @ 345.60 FZ 40° 15.0cm, clay, rock grind › ‹ @ 350.00 FZ 50° 200.0cm, gouge, rock grind, rubble › ‹ @ 353.35 FZ 40° 20.0cm, gouge, schistose ›	VA10102782	I005060	327.46	329.5	0.44
			VA10102782	I005061	329.5	331	1.11
			VA10102782	I005063	331	332.5	0.1
			VA10102782	I005064	332.5	334	0.63
335			VA10102782	I005065	334	335.5	0.26
			VA10102782	I005066	335.5	337	1.81
			VA10102782	I005067	337	338.5	1.62
			VA10102782	I005069	338.5	340	1.43
340			VA10102782	I005070	340	341.5	0.72
			VA10102782	I005071	341.5	343	0.51
			VA10102782	I005073	343.01	344.71	0.5
345			VA10102782	I005074	344.71	346	0.43
			VA10102782	I005075	346	347.5	0.06



Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-911	North :5827768	East :604717	Elevation :1123.2	Hole Length :366.52	Azimuth :297	Dip :-70	Logged by :JAS	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
350	Cat.2 Argillite	Cat 2 Argillite - med to dk grey/black, schistose, graphitic matrix with lt colored felsic boudins, balls and contorted lenses of the more brittle felsic component. Small bands to 15cm of the felsic rock however these would probably be just larger boudins if seen in outcrop. Whole zone is rubble, fractured due to faulting in area. « py 3.0% 0.5-7.0mm» « ank 15.0%» ‹ @ 339.00 S1 40.00° › ‹ @ 352.15 S1 68.00° › No quartz Faults ‹ @ 332.00 FZ 30° 95.0cm, gouge, rubble › ‹ @ 335.80 FZ 60° 90.0cm, gouge, clay , rock frag › ‹ @ 345.60 FZ 40° 15.0cm, clay, rock grind › ‹ @ 350.00 FZ 50° 200.0cm, gouge, rock grind, rubble › ‹ @ 353.35 FZ 40° 20.0cm, gouge, schistose ›	VA10102782	I005075	346	347.5	0.06
			VA10102782	I005076	347.5	348.5	0.1
			VA10102782	I005077	348.5	350.7	0.19
			VA10102782	I005078	350.7	352	0.2
			VA10102782	I005079	352	353.5	0.25
355			VA10102782	I005081	353.5	355	0.55
	Cat.2 Siltstones, Greywacke	Cat 2 Siltstones and greywacke (40%) with minor argillitic beds tending to be schistose, sheared. Siltstone shows broken/disjoined beds up to rolled boudins. Greywacke is massive, lt grey, fine to med grained, salt and pepper in appearance. Appears to have been more competent - may show larger boudinage/breakage if viewed on outcrop scale. « py 0.5% 0.5-4.0mm» « ank 15.0%» ‹ @ 361.03 QV2 45° 0.6cm › ‹ @ 359.47 FZ 45° 10.0cm, clay , rock grind › ‹ @ 361.90 OFZ 25-10° 45.0cm, clay, rock grind, rubble ›	VA10102782	I005082	355	356.5	0.22
			VA10102782	I005083	356.5	358	0.025
360			VA10102782	I005084	358	359.5	0.025
			VA10102782	I005085	359.5	361	0.025
			VA10102782	I005087	361	362.5	0.1
			VA10102782	I005088	362.5	364	0.025
365			VA10102782	I005089	364	365	0.17
	EOH	End of Hole - stopped short due to drill problems.	VA10129318	I095305	365	366.52	0.17
370							
375							
380							
385							
390							
395							

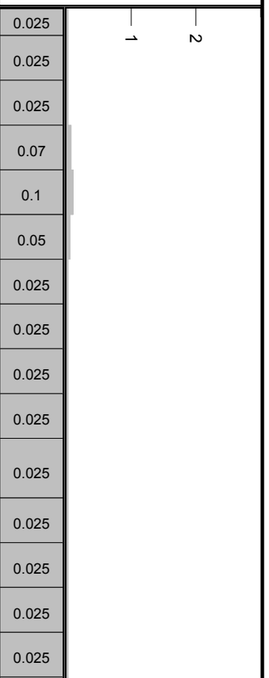
Scale 1:200	Start Depth :347.17	End Depth :396.77	Page No.: 8

10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Casing	Core is sampled from 7.13m.					
	Argillite, Siltstone	Argillite (60%) interbedded with siltstone (25%) and mafic dikes (15%). Carbonate alteration overprints primarily siltstone. Increase in Py content in argillite, fg in veins, aggregates and lenses, disseminated th/out, forms veins and spheric patches of 1mm cubes with qz in core. Qz occurs as patches, translucent veinlets which are buckled and offset. Sphalerite and galena are encountered in few qz veins. « 8.09- 8.23 Mafic-dyke 55-80°» « 8.28- 8.53 Mafic-dyke 55-80°» « 9.50- 9.74 Mafic-dyke 60-54°» « 11.50- 11.75 Mafic-dyke 35-47°» ‹ @ 14.15 QV2 70° 1.8cm › « 16.70- 17.50 stringers 2.0-4.0% 1-2mm» « 17.00- 18.10 ank 35.0%» 1mm rhombs « 18.07- 11.48 Mafic-dyke 80-57°» « 18.70- 20.30 ser 40%» « ank 3.0%» rounded 5mm p/blasts « 11.48- 20.30 Siltstone -45°0°» ‹ @ 21.30 QV3 70° 6.0cm › « 21.06- 22.20 Siltstone 0°» light grey, « ank 5.0%» 3-5mm spots ‹ @ 22.30 QV2 25° 2.5cm › ‹ @ 22.30 sph 1.0% › « 22.32- 23.25 Mafic-dyke 82-70°» ‹ @ 22.75 QV3 55° 9.0cm › ‹ @ 27.40 QV2 90° 0.8cm › ‹ @ 27.40 sph 0.2% › « 28.87- 30.05 Mafic-dyke 25.0-20.0°» cut by dark grey qz veins and white vuggy qz veins, « cr-mica 1.5%» ‹ @ 29.05 QV3 40° 1.7cm ›, ‹ @ 29.55 QV3 30° 16.5cm › ‹ @ 29.75 QV3 30° 1.5cm › ‹ @ 29.75 sph 0.1% › ‹ @ 30.70 QV2 55° 3.5cm › ‹ @ 30.70 cpy 0.2% › « 41.00- 41.50 Mafic-dyke 60.0-80.0°» « 41.76- 42.05 Mafic-dyke 85.0-65.0°» « 42.41- 42.82 Mafic-dyke 75.0-60.0°» « diss py 3.0%» « 43.00- 45.00 stringers 3.0% 1mm» « 44.02- 44.13 Mafic-dyke 53.0-40.0°» cut by multiple qz veins « 45.00- 45.20 Siltstone » « 46.10- 46.70 Mafic-dyke 70-60°» cut by truncated qz vein with crb « 47.00- 47.12 Mafic-dyke 65-70°» « 47.90- 48.34 Mafic-dyke » « 49.30- 49.70 Mafic-dyke 70-70°» « 49.80- 49.95 Mafic-dyke » « cr-mica 0.5%» upper contact is marked by 6mm white translucent qz vein « 50.25- 50.55 Mafic-dyke 50-65°» ‹ @ 51.20 QV2 40° 2.2cm › ‹ @ 51.20 sph 0.1% › ‹ @ 51.50 QV2 35° 1.0cm › « 52.17- 52.40 Mafic-dyke -70°0°» ‹ @ 52.44 fol 75° › « 52.90- 52.40 Mafic-dyke 42°» « 53.00- 53.35 bkn » ‹ @ 53.00 LC 0.25 › ‹ @ 56.50 fol 60° › ‹ @ 57.50 fol 50° › ‹ @ 57.50 S0 45° › « 59.45- 60.85 bkn » broken core, gougey sections, broken qz vein one with stibnite, possible fault « 58.60- 63.53 Siltstone » « ank 10.0%» 3-8mm rounded spots, affected by foliation ‹ @ 63.50 fol 50° › « 63.60- 64.25 Mafic-dyke 0°» lower contact is broken, uct is irregular, « cr-mica 2.0%», cut by 3 cm qz vein with chlorite and wallrock incls « 64.10- 66.14 bkn » ‹ @ 64.50 LC 0.70 › « 65.40- 66.00 ser 10%» ‹ @ 65.50 fol 70° › « 66.30- 66.90 py 2.0%» ‹ @ 67.30 QV2 60° 1.5cm › « 67.35- 68.30 bkn » broken core, gougey sects, ‹ @ 67.35 LC 0.20 › « 69.86- 71.30 Mafic-dyke 85.00-60.00°» « cr-mica 1.0%», with « py 1.0% 1.0-5.0mm» cubes « 71.00- 75.00 Mafic-dyke 50-40°» « cr-mica 2.0%» ‹ @ 74.50 QV3 20° 1.0cm › ‹ @ 75.42 QV2 30° 0.7cm › ‹ @ 76.90 S0 25° › « 76.00- 79.20 ank 10.0%» coalescing 1mm rhombs and 3-5mm rounded p/blasts ‹ @ 77.65 fol 55° › « 79.20- 79.50 Mafic-dyke 40°» cut by 2 white qz veins andvar oriented grey translucent 3mm veinlets ‹ @ 79.23 QV2 30° 1.0cm › ‹ @ 79.40 QV2 40° 2.0cm › « 80.30- 80.97 Mafic-dyke 50-20°» ‹ @ 80.30 QV3 30° 3.1cm › « 81.38- 81.70 bkn » ‹ @ 81.38 LC 0.20 › broken 10 cm qz vein « 81.90- 82.30 Mafic-dyke -31°0°» upper contact is marked by 1.5 cm qz vein @32 deg tca ‹ @ 84.30 sph 0.2% › in qz patch « 85.20- 85.60 bkn » ‹ @ 85.20 LC 0.35 › ‹ @ 91.10 fol 45° › ‹ @ 92.45 QV3 30° 30.0cm › ‹ @ 92.45 sph 0.3% › ‹ @ 93.49 QV2 30° 10.0cm › ‹ @ 95.10 QV2 68° 60.0cm › ‹ @ 96.30 fol 40° › « 96.80- 97.03 Mafic-dyke 57°» ‹ @ 102.00 fol 63° › ‹ @ 104.00 fol 55° › ‹ @ 105.53 QV3 80° 1.0cm › ‹ @ 105.53 sph 0.2% › ‹ @ 105.53 gal 0.3% › ‹ @ 107.54 QV2 45° 1.0cm › ‹ @ 107.75 QV2 60° 1.0cm › « 108.50- 111.40 Siltstone 0°» dark grey	VA10093338	I089060	7.13	8.5	0.11
			VA10093338	I089061	8.5	10	0.025
			VA10093338	I089063	10	11.5	0.09
			VA10093338	I089064	11.5	13	0.05
			VA10093338	I089065	13	14.5	0.08
			VA10093338	I089066	14.5	16	0.025
			VA10093338	I089068	16	17.5	0.025
			VA10093338	I089069	17.5	19	0.025
			VA10093338	I089070	19	20.5	0.025
			VA10093338	I089071	20.5	22	0.025
			VA10093338	I089072	22	23.5	0.025
			VA10093338	I089073	23.5	25	0.025
			VA10093338	I089074	25	26.5	0.025
			VA10093338	I089076	26.5	28	0.05
			VA10093338	I089077	28	29.5	0.025
			VA10093338	I089078	29.5	31	0.025
			VA10093338	I089079	31	32.5	0.14
			VA10093338	I089080	32.5	34	0.12
			VA10093338	I089081	34	35.5	0.14
			VA10093338	I089082	35.5	37	0.025
			VA10093338	I089083	37	38.5	0.025
			VA10093338	I089085	38.5	40	0.025
			VA10093338	I089086	40	41.5	0.025
			VA10093338	I089087	41.5	43	0.025
			VA10093338	I089088	43	44.5	0.025
			VA10093338	I089090	44.5	46	0.025
			VA10093338	I089091	46	47.5	0.025
			VA10093338	I089092	47.5	49	0.025
			VA10093338	I089093	49	50.5	0.025

10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Argillite (60%) interbedded with siltstone (25%) and mafic dikes (15%).	VA10093338	I089093	49	50.5	0.025
		Carbonate alteration overprints primarily siltstone. Increase in Py content in argillite, fg in veins, aggregates and lenses, disseminated th/out, forms veins and spheric patches of 1mm cubes with qz in core.					
		Qz occurs as patches, translucent veinlets which are buckled and offset.	VA10093338	I089094	50.5	52	0.025
		Sphalerite and galena are encountered in few qz veins.					
		« 8.09- 8.23 Mafic-dyke 55-80°» « 8.28- 8.53 Mafic-dyke 55-80°»					
		« 9.50- 9.74 Mafic-dyke 60-54°» « 11.50- 11.75 Mafic-dyke 35-47°»	VA10093338	I089096	52	53.5	0.025
		‹ @ 14.15 QV2 70° 1.8cm › « 16.70- 17.50 stringers 2.0-4.0% 1-2mm» « 17.00- 18.10 ank 35.0%» 1mm rhombs					
		« 18.07- 11.48 Mafic-dyke 80-57°»					
		« 18.70- 20.30 ser 40%» « ank 3.0%» rounded 5mm p/blasts					
		« 11.48- 20.30 Siltstone -45°0°»	VA10093338	I089097	53.5	55	0.07
		‹ @ 21.30 QV3 70° 6.0cm ›					
55		« 21.06- 22.20 Siltstone 0°» light grey, « ank 5.0%» 3-5mm spots					
		‹ @ 22.30 QV2 25° 2.5cm › ‹ @ 22.30 sph 1.0% ›	VA10093338	I089098	55	56.5	0.1
		« 22.32- 23.25 Mafic-dyke 82-70°»					
		‹ @ 22.75 QV3 55° 9.0cm › ‹ @ 27.40 QV2 90° 0.8cm › ‹ @ 27.40 sph 0.2% ›	VA10093338	I089099	56.5	58	0.05
		« 28.87- 30.05 Mafic-dyke 25.0-20.0°» cut by dark grey qz veins and white vuggy qz veins, « cr-mica 1.5%»					
		‹ @ 29.05 QV3 40° 1.7cm ›, ‹ @ 29.55 QV3 30° 16.5cm ›					
		‹ @ 29.75 QV3 30° 1.5cm › ‹ @ 29.75 sph 0.1% ›	VA10093338	I089100	58	59.5	0.025
		‹ @ 30.70 QV2 55° 3.5cm › ‹ @ 30.70 cpy 0.2% ›					
60		« 41.00- 41.50 Mafic-dyke 60.0-80.0°» « 41.76- 42.05 Mafic-dyke 85.0-65.0°» « 42.41- 42.82 Mafic-dyke 75.0-60.0°» « diss py 3.0%»					
		« 43.00- 45.00 stringers 3.0% 1mm»	VA10093338	I089101	59.5	61	0.025
		« 44.02- 44.13 Mafic-dyke 53.0-40.0°» cut by multiple qz veins					
		« 45.00- 45.20 Siltstone »	VA10093338	I089103	61	62.5	0.025
		« 46.10- 46.70 Mafic-dyke 70-60°» cut by truncated qz vein with crb					
		« 47.00- 47.12 Mafic-dyke 65-70°»					
		« 47.90- 48.34 Mafic-dyke » « 49.30- 49.70 Mafic-dyke 70-70°»	VA10093338	I089104	62.5	64	0.025
		« 49.80- 49.95 Mafic-dyke » « cr-mica 0.5%» upper contact is marked by 6mm white translucent qz vein					
65		« 50.25- 50.55 Mafic-dyke 50-65°»					
		‹ @ 51.20 QV2 40° 2.2cm › ‹ @ 51.20 sph 0.1% ›	VA10093338	I089106	64	66	0.025
		‹ @ 51.50 QV2 35° 1.0cm ›					
		« 52.17- 52.40 Mafic-dyke -70°0°»	VA10093338	I089107	66	67.5	0.025
		‹ @ 52.44 fol 75° ›					
		« 52.90- 52.40 Mafic-dyke 42°»					
		« 53.00- 53.35 bkn » ‹ @ 53.00 LC 0.25 ›	VA10093338	I089108	67.5	69	0.025
		‹ @ 56.50 fol 60° › ‹ @ 57.50 fol 50° › ‹ @ 57.50 S0 45° ›					
		« 59.45- 60.85 bkn » broken core, gougey sections, broken qz vein one with stibnite, possible fault					
70		« 58.60- 63.53 Siltstone » « ank 10.0%» 3-8mm rounded spots, affected by foliation ‹ @ 63.50 fol 50° ›	VA10093338	I089109	69	70.5	0.025
		« 63.60- 64.25 Mafic-dyke 0°» lower contact is broken, uct is irregular,					
		« cr-mica 2.0%», cut by 3 cm qz vein with chlorite and wallrock incls					
		« 64.10- 66.14 bkn » ‹ @ 64.50 LC 0.70 ›	VA10093338	I089110	70.5	72	0.025
		« 65.40- 66.00 ser 10%» ‹ @ 65.50 fol 70° ›					
		« 66.30- 66.90 py 2.0%»					
		‹ @ 67.30 QV2 60° 1.5cm ›	VA10093338	I089111	72	73.5	0.025
		« 67.35- 68.30 bkn » broken core, gougey sects, ‹ @ 67.35 LC 0.20 ›					
		« 69.86- 71.30 Mafic-dyke 85.00-60.00°» « cr-mica 1.0%», with					
		« py 1.0% 1.0-5.0mm» cubes	VA10093338	I089112	73.5	75	0.025
75	Argillite, Siltstone	« 71.00- 75.00 Mafic-dyke 50-40°» « cr-mica 2.0%»					
		‹ @ 74.50 QV3 20° 1.0cm › ‹ @ 75.42 QV2 30° 0.7cm › ‹ @ 76.90 S0 25° ›					
		« 76.00- 79.20 ank 10.0%» coalescing 1mm rhombs and 3-5mm rounded p/blasts	VA10093338	I089113	75	76.5	0.025
		‹ @ 77.65 fol 55° ›					
		« 79.20- 79.50 Mafic-dyke 40°» cut by 2 white qz veins andvar oriented grey translucent 3mm veinlets	VA10093338	I089114	76.5	78	0.025
		‹ @ 79.23 QV2 30° 1.0cm › ‹ @ 79.40 QV2 40° 2.0cm ›					
		« 80.30- 80.97 Mafic-dyke 50-20°» ‹ @ 80.30 QV3 30° 3.1cm ›					
		« 81.38- 81.70 bkn » ‹ @ 81.38 LC 0.20 › broken 10 cm qz vein	VA10093338	I089115	78	79.5	0.025
		« 81.90- 82.30 Mafic-dyke -31°0°» upper contact is marked by 1.5 cm qz vein @32 deg tca					
80		‹ @ 84.30 sph 0.2% › in qz patch	VA10093338	I089117	79.5	81	0.025
		« 85.20- 85.60 bkn » ‹ @ 85.20 LC 0.35 ›					
		‹ @ 91.10 fol 45° ›	VA10093338	I089118	81	82.5	0.025
		‹ @ 92.45 QV3 30° 30.0cm › ‹ @ 92.45 sph 0.3% ›					
		‹ @ 93.49 QV2 30° 10.0cm ›	VA10093338	I089119	82.5	84	0.025
		‹ @ 95.10 QV2 68° 60.0cm › ‹ @ 96.30 fol 40° ›					
		« 96.80- 97.03 Mafic-dyke 57°»					
		‹ @ 102.00 fol 63° › ‹ @ 104.00 fol 55° ›	VA10093338	I089120	84	86	0.025
85		‹ @ 105.53 QV3 80° 1.0cm › ‹ @ 105.53 sph 0.2% › ‹ @ 105.53 gal 0.3% ›					
		‹ @ 107.54 QV2 45° 1.0cm › ‹ @ 107.75 QV2 60° 1.0cm ›	VA10093338	I089121	86	87.5	0.09
		« 108.50- 111.40 Siltstone 0°» dark grey					
			VA10093338	I089122	87.5	89	0.11
			VA10093338	I089123	89	90.5	0.14
90			VA10093338	I089124	90.5	92	0.16
			VA10093338	I089125	92	93.5	0.05
			VA10093338	I089127	93.5	95	0.025
95			VA10093338	I089128	95	96.5	0.025
			VA10093338	I089129	96.5	98	0.025
			VA10093338	I089131	98	99.5	0.13



10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Argillite, Siltstone	Argillite (60%) interbedded with siltstone (25%) and mafic dikes (15%). Carbonate alteration overprints primarily siltstone. Increase in Py content in argillite, fg in veins, aggregates and lenses, disseminated th/out, forms veins and spheric patches of 1mm cubes with qz in core. Qz occurs as patches, translucent veinlets which are buckled and offset. Sphalerite and galena are encountered in few qz veins.	VA10093338	I089131	98	99.5	0.13
		« 8.09- 8.23 Mafic-dyke 55-80°» « 8.28- 8.53 Mafic-dyke 55-80°»	VA10093338	I089132	99.5	101	0.22
		« 9.50- 9.74 Mafic-dyke 60-54°» « 11.50- 11.75 Mafic-dyke 35-47°»	VA10093338	I089133	101	102.5	0.2
		‹ @ 14.15 QV2 70° 1.8cm › « 16.70- 17.50 stringers 2.0-4.0% 1-2mm» « 17.00- 18.10 ank 35.0%» 1mm rhombs	VA10093338	I089134	102.5	104	0.42
		« 18.07- 11.48 Mafic-dyke 80-57°» « 18.70- 20.30 ser 40%» « ank 3.0%» rounded 5mm p/blasts « 11.48- 20.30 Siltstone -45°0°» ‹ @ 21.30 QV3 70° 6.0cm ›	VA10093338	I089135	104	105.5	0.25
105		« 21.06- 22.20 Siltstone 0°» light grey, « ank 5.0%» 3-5mm spots ‹ @ 22.30 QV2 25° 2.5cm › ‹ @ 22.30 sph 1.0% ›	VA10093338	I089136	105.5	107	0.2
		« 22.32- 23.25 Mafic-dyke 82-70°» ‹ @ 22.75 QV3 55° 9.0cm › ‹ @ 27.40 QV2 90° 0.8cm › ‹ @ 27.40 sph 0.2% ›	VA10093338	I089138	107	108.5	0.14
		« 28.87- 30.05 Mafic-dyke 25.0-20.0°» cut by dark grey qz veins and white vuggy qz veins, « cr-mica 1.5%» ‹ @ 29.05 QV3 40° 1.7cm ›, ‹ @ 29.55 QV3 30° 16.5cm › ‹ @ 29.75 QV3 30° 1.5cm › ‹ @ 29.75 sph 0.1% › ‹ @ 30.70 QV2 55° 3.5cm › ‹ @ 30.70 cpy 0.2% ›	VA10093338	I089139	108.5	110	0.15
110		« 41.00- 41.50 Mafic-dyke 60.0-80.0°» « 41.76- 42.05 Mafic-dyke 85.0-65.0°» « 42.41- 42.82 Mafic-dyke 75.0-60.0°» « diss py 3.0%» « 43.00- 45.00 stringers 3.0% 1mm»	VA10093338	I089140	110	111.5	0.09
		« 44.02- 44.13 Mafic-dyke 53.0-40.0°» cut by multiple qz veins « 45.00- 45.20 Siltstone » « 46.10- 46.70 Mafic-dyke 70-60°» cut by truncated qz vein with crb « 47.00- 47.12 Mafic-dyke 65-70°» « 47.90- 48.34 Mafic-dyke » « 49.30- 49.70 Mafic-dyke 70-70°» « 49.80- 49.95 Mafic-dyke » « cr-mica 0.5%» upper contact is marked by 6mm white translucent qz vein	VA10093338	I089141	111.5	113	0.09
			VA10093338	I089143	113	114	0.59
115		« 50.25- 50.55 Mafic-dyke 50-65°» ‹ @ 51.20 QV2 40° 2.2cm › ‹ @ 51.20 sph 0.1% › ‹ @ 51.50 QV2 35° 1.0cm ›	VA10093338	I089144	114	115.1	0.54
	Conglomerate	« 52.17- 52.40 Mafic-dyke -70°0°» ‹ @ 52.44 fol 75° ›	VA10093338	I089145	115.1	116.5	0.025
		« 52.90- 52.40 Mafic-dyke 42°» « 53.00- 53.35 bkn » ‹ @ 53.00 LC 0.25 ›	VA10093338	I089146	116.5	118	0.025
		‹ @ 56.50 fol 60° › ‹ @ 57.50 fol 50° › ‹ @ 57.50 S0 45° › « 59.45- 60.85 bkn » broken core, gougey sections, broken qz vein one with stibnite, possible fault « 58.60- 63.53 Siltstone » « ank 10.0%» 3-8mm rounded spots, affected by foliation ‹ @ 63.50 fol 50° ›	VA10093338	I089148	118	119.5	0.025
120		« 63.60- 64.25 Mafic-dyke 0°» lower contact is broken, uct is irregular, « cr-mica 2.0%», cut by 3 cm qz vein with chlorite and wallrock incls	VA10093338	I089149	119.5	121	0.025
		« 64.10- 66.14 bkn » ‹ @ 64.50 LC 0.70 › « 65.40- 66.00 ser 10%» ‹ @ 65.50 fol 70° ›	VA10093338	I089150	121	122.25	0.025
		« 66.30- 66.90 py 2.0%» ‹ @ 67.30 QV2 60° 1.5cm ›	VA10093338	I089151	122.25	124	0.025
		« 67.35- 68.30 bkn » broken core, gougey sects, ‹ @ 67.35 LC 0.20 › « 69.86- 71.30 Mafic-dyke 85.00-60.00°» « cr-mica 1.0%», with « py 1.0% 1.0-5.0mm» cubes	VA10093338	I089152	124	125.5	0.025
125		« 71.00- 75.00 Mafic-dyke 50-40°» « cr-mica 2.0%» ‹ @ 74.50 QV3 20° 1.0cm › ‹ @ 75.42 QV2 30° 0.7cm › ‹ @ 76.90 S0 25° › « 76.00- 79.20 ank 10.0%» coalescing 1mm rhombs and 3-5mm rounded p/blasts ‹ @ 77.65 fol 55° ›	VA10093338	I089153	125.5	127	0.025
		« 79.20- 79.50 Mafic-dyke 40°» cut by 2 white qz veins andvar oriented grey translucent 3mm veinlets ‹ @ 79.23 QV2 30° 1.0cm › ‹ @ 79.40 QV2 40° 2.0cm ›	VA10093338	I089154	127	128.5	0.09
		« 80.30- 80.97 Mafic-dyke 50-20°» ‹ @ 80.30 QV3 30° 3.1cm ›	VA10093338	I089155	128.5	130	0.21
		« 81.38- 81.70 bkn » ‹ @ 81.38 LC 0.20 › broken 10 cm qz vein « 81.90- 82.30 Mafic-dyke -31°0°» upper contact is marked by 1.5 cm qz vein @32 deg tca ‹ @ 84.30 sph 0.2% › in qz patch	VA10093338	I089156	130	131.5	0.3
130		« 85.20- 85.60 bkn » ‹ @ 85.20 LC 0.35 › ‹ @ 91.10 fol 45° › ‹ @ 92.45 QV3 30° 30.0cm › ‹ @ 92.45 sph 0.3% ›	VA10093338	I089158	131.5	133	1.97
		‹ @ 93.49 QV2 30° 10.0cm › ‹ @ 95.10 QV2 68° 60.0cm › ‹ @ 96.30 fol 40° › « 96.80- 97.03 Mafic-dyke 57°»	VA10093338	I089159	133	134.5	0.14
		‹ @ 102.00 fol 63° › ‹ @ 104.00 fol 55° › ‹ @ 105.53 QV3 80° 1.0cm › ‹ @ 105.53 sph 0.2% › ‹ @ 105.53 gal 0.3% › ‹ @ 107.54 QV2 45° 1.0cm › ‹ @ 107.75 QV2 60° 1.0cm ›	VA10093338	I089160	134.5	136	0.53
135	Siltstone, Argillite	Polymictic conglomerate, matrix supported, with clasts up to 2 cm, grades into siltstone, Py cubes up to 1 cm with qz pressure shadows, cut by rare bull qz veins and abundant var oriented qz-carb-py 2-3 mm veinlets ‹ @ 117.75 QV3 70° 0.5cm › ‹ @ 118.50 QV3 68° 2.2cm ›	VA10093338	I089161	136	137.5	0.025
		Med grey siltstone with black massive argillite and short sections of med grained greywacke/crystal tuff? Py as 1-10mm cubes linked by qz stringers. Occasional 0.5-0.8 mm qz veins w/o sulphides	VA10093338	I089162	137.5	139	0.08
		« 122.60- 122.70 bkn » rubble, broken qz vein	VA10093338	I089163	139	140.5	0.2
		« 128.04- 129.60 FZ 75-45°» rubble, broken core, gouge, ‹ @ 128.04 LC 0.30 ›	VA10093338	I089165	140.5	142	0.26
140		« 130.15- 131.15 sil 10.0%» « 131.50- 133.10 Argillite 0°» « py 2.0%» « 133.00- 133.45 bkn »	VA10093338	I089166	142	144	0.08
		« 133.40- 134.50 greywacke 0°» « 134.50- 135.60 Argillite 20-70°» « 135.55- 136.40 greywacke 0°» « 136.40- 138.95 Argillite 55-55°» ‹ @ 139.10 S0 60° ›	VA10093338	I089167	144	145.5	0.46
		« 142.30- 143.65 FZ 0°» broken core, ‹ @ 142.30 LC 0.40 › « 144.05- 144.55 FZ 70-70°» « 146.00- 146.80 py 3.0% 1.0-10.0mm» diss euh crysts and aggregates Note: 147.20-148.05 greywacke?	VA10093338	I089168	145.5	147	0.48
145		‹ @ 148.06 S0 70° › ‹ @ 148.25 S0 50° › ‹ @ 151.00 S0 43° › Greywacke downhole ‹ @ 152.00 QV2 600° 0.8cm ›	VA10093338	I089170	147	148.5	0.5
		« 153.40- 153.50 FZ 35-42°» gouge « 154.30- 155.00 bkn » « 155.00- 157.50 stringers 3.0% 1mm» « 157.50- 158.00 ank 15.0%» 3-5 mm rounded p/blasts, « ser 20%» ‹ @ 159.10 S0 20 › ‹ @ 159.60 QV2 65° 3.0cm › w Py3%	VA10093338	I089171	148.5	150	0.05

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
150	Siltstone, Argillite	Med grey siltstone with black massive argillite and short sections of med grained greywacke/crystal tuff? Py as 1-10mm cubes linked by qz stringers. Occasional 0.5-0.8 mm qz veins w/o sulphides « 122.60- 122.70 bkn » rubble, broken qz vein « 128.04- 129.60 FZ 75-45°» rubble, broken core, gouge, ‹ @ 128.04 LC 0.30 › « 130.15- 131.15 sil 10.0%» « 131.50- 133.10 Argillite 0°» « py 2.0%» « 133.00- 133.45 bkn » « 133.40- 134.50 greywacke 0°» « 134.50- 135.60 Argillite 20-70°» « 135.55- 136.40 greywacke 0°» « 136.40- 138.95 Argillite 55-55°» ‹ @ 139.10 S0 60° › « 142.30- 143.65 FZ 0°» broken core, ‹ @ 142.30 LC 0.40 › « 144.05- 144.55 FZ 70-70°» « 146.00- 146.80 py 3.0% 1.0-10.0mm» diss euh crysts and aggregates Note: 147.20-148.05 greywacke? ‹ @ 148.06 S0 70° › ‹ @ 148.25 S0 50° › ‹ @ 151.00 S0 43° › Greywacke downhole ‹ @ 152.00 QV2 600° 0.8cm ›	VA10093338	I089171	148.5	150	0.05
			VA10093338	I089172	150	151.5	0.025
			VA10093338	I089173	151.5	153	0.06
			VA10093338	I089174	153	154.5	0.025
155			VA10093338	I089175	154.5	156	0.025
			VA10093338	I089176	156	157.5	0.35
			VA10093338	I089178	157.5	159	0.36
160		« 153.40- 153.50 FZ 35-42°» gouge « 154.30- 155.00 bkn » « 155.00- 157.50 stringers 3.0% 1mm» « 157.50- 158.00 ank 15.0%» 3-5 mm rounded p/blasts, « ser 20%» ‹ @ 159.10 S0 20° › ‹ @ 159.60 QV2 65° 3.0cm › w Py3%	VA10093338	I089179	159	160.5	0.15
			VA10093338	I089180	160.5	162	0.07
			VA10093338	I089181	162	163.5	0.025
			VA10093338	I089182	163.5	165	0.16
165			VA10093338	I089184	165	167	0.6
			VA10093338	I089185	167	168.5	0.025
			VA10093338	I089186	168.5	170	0.025
170			VA10093338	I089187	170	172	0.025
			VA10093338	I089188	172	175	0.025
175			VA10093338	I089189	175	176.5	0.025
	Crystal Lithic Tuff		VA10093338	I089191	176.5	178	0.17
			VA10093338	I089192	178	179.5	0.025
180			VA10093338	I089193	179.5	181	0.025
			VA10093338	I089194	181	182.5	0.025
			VA10093338	I089195	182.5	184	0.025
185			VA10093338	I089197	184	185.5	0.025
			VA10093338	I089198	185.5	187	0.025
			VA10093338	I089199	187	188.5	0.025
190			VA10093338	I089200	188.5	190	0.14
			VA10093338	I089201	190	191.5	0.025
			VA10093338	I089203	191.5	192.5	0.025
			VA10093338	I089204	192.5	194.5	0.025
195	Fault	Fault zone is comprised of ground siltstone, argillite,fg greywacke, graphitic and clayey gouge. Several sections of lost core and wash. Occasional quartz rubble. Overall « py 1.0%». Green calcite crysts on broken surfaces. ‹ @ 195.50 LC 0.40 › ‹ @ 200.00 LC 1.05 › ‹ @ 201.00 LC 1.30 › ‹ @ 203.20 LC 1.10 › ‹ @ 207.00 LC 1.50 › ‹ @ 212.00 LC 1.70 ›	VA10093338	I089205	194.5	196	0.05
			VA10093338	I089206	196	197.5	0.025
			VA10093338	I089207	197.5	200	0.025

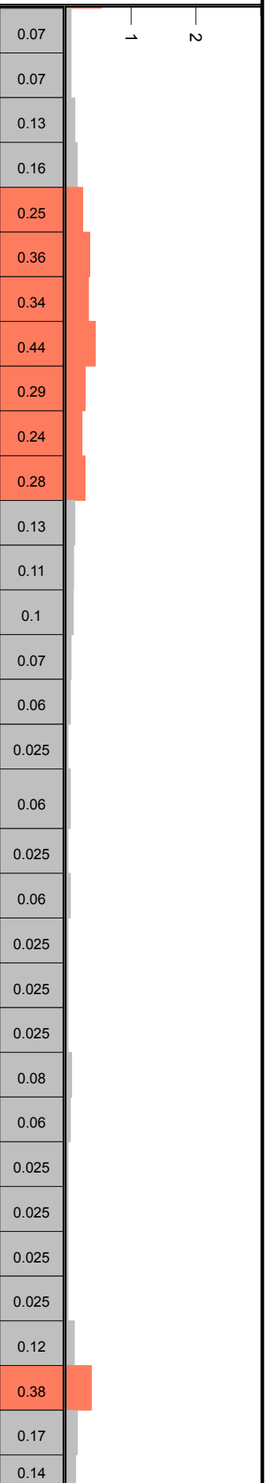
10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
200	Fault	Fault zone is comprised of ground siltstone, argillite,fg greywacke, graphitic and clayey gouge. Several sections of lost core and wash. Occasional quartz rubble. Overall « py 1.0%». Green calcite crysts on broken surfaces. ‹ @ 195.50 LC 0.40 › ‹ @ 200.00 LC 1.05 › ‹ @ 201.00 LC 1.30 › ‹ @ 203.20 LC 1.10 › ‹ @ 207.00 LC 1.50 › ‹ @ 212.00 LC 1.70 ›	VA10093338	I089207	197.5	200	0.025
			VA10093338	I089209	200	203	0.09
205			VA10093338	I089210	203	205.5	0.025
			VA10098120	I089211	205.5	207	0.13
			VA10098120	I089212	207	210	0.15
210			VA10098120	I089213	210	213	0.08
			VA10098120	I089214	213	214.5	0.025
215			VA10098120	I089216	214.5	216	0.025
			VA10098120	I089217	216	218	0.025
220			VA10098120	I089218	218	221.78	0.07
	Siltstone, Argillite	Med to dark grey siltstone interbedded with argillite on cm scale at 25-65 deg tca, competent, but locally weakly broken, unit is cut by occasional bull qz veins at 35 deg tca. Overall « py 0.5%» as 1-5 mm cubes disseminated, in aggregates and veins with qz core, minor ones are locally folded and dismembered. Chalcopyrite is encountered in argillite ‹ @ 221.85 QV1 60° 0.5cm › ‹ @ 222.00 fol 55° › ‹ @ 224.52 QV3 35° 3.0cm › ‹ @ 224.80 S0 55° › ‹ @ 226.74 S0 25° › ‹ @ 227.80 S0 30° ›	VA10098120	I089219	221.78	223.5	0.025
			VA10098120	I089220	223.5	225	0.14
225		« 227.00- 232.00 ank 15.0%» 3-6mm rounded p/blasts ‹ @ 228.20 S0 43° › ‹ @ 228.53 QV3 35° 0.8cm › ‹ @ 228.53 cpy 0.2% › crosscuts bedding ‹ @ 228.80 S0 45° › ‹ @ 229.35 S0 65° › ‹ @ 232.00 QV3 38° 3.0cm ›	VA10098120	I089222	225	226.5	0.025
			VA10098120	I089223	226.5	228	0.18
			VA10098120	I089224	228	229.5	0.025
230			VA10098120	I089225	229.5	231	0.025
			VA10098120	I089226	231	232.65	0.025
	Cat.2 Argillite	Argillite (90%) interbedded with siltstone (10%), generally exhibits cataclastic texture with broken/contorted/folded bedding, siltstone boudings wrapped with graphitic folia, competent, locally faulted, some sections show bedding at 40 deg tca, occasional qz veins some with sphalerite, overall pyrite «py 2.0%» as cubes and anhedral crysts in veinlets and aggregates « 235.50- 236.00 bkn » ‹ @ 235.50 LC 0.25 › ‹ @ 242.25 QV2 40° 2.5cm › ‹ @ 242.25 sph 0.5% › ‹ @ 242.42 QV2 40° 0.5cm › crosscuts bedding ‹ @ 242.50 S0 40° › ‹ @ 23.10 S0 40° › ‹ @ 244.88 QV2 35° 0.5cm › folded « 25.95- 247.00 FZ 55-70°» rubble, ‹ @ 245.97 LC 0.55 › « 252.00- 252.45 bkn » « 273.67- 274.57 bkn » ‹ @ 273.67 LC 0.55 › « 284.70- 285.03 Crysta Lithic Tuff 45.00-70.00°» « 289.74- 290.00 bkn » « 290.85- 292.10 Crystal Lithic Tuff 75-25°» med grey, « ser 25.00%» « anastomosing qz veins 45.00-5.20°» « 292.10- 295.00 deformed qz veins 30.00-63.00° 5.00-8.00mm» « 300.60- 300.83 Crystal Tuff 70-75°» « ank 15%» 1mm spots ‹ @ 301.62 QV2 35° 1.0cm › broken partly, parallel to foliation, ‹ @ 301.52 fol 35° › ‹ @ 302.45 LCT 70° ›	VA10098120	I089227	232.65	234	0.71
235			VA10098120	I089228	234	235.5	0.69
			VA10098120	I089230	235.5	237	0.36
			VA10098120	I089231	237	238.5	0.11
240			VA10098120	I089232	238.5	240	0.08
			VA10098120	I089233	240	241.5	0.06
			VA10098120	I089234	241.5	243	0.48
			VA10098120	I089235	243	244.5	0.07
245			VA10098120	I089236	244.5	246	0.14
			VA10098120	I089237	246	248	0.54

Scale 1:200	Start Depth :198.38	End Depth :247.98	Page No.: 5

10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250		Argillite (90%) interbedded with siltstone (10%), generally exhibits cataclastic texture with broken/contorted/folded bedding, siltstone boudings wrapped with graphitic folia, competent, locally faulted, some sections show bedding at 40 deg tca, occasional qz veins some with sphalerite, overall pyrite «py 2.0%» as cubes and anhedral crysts in veinlets and aggregates « 235.50- 236.00 bkn » ‹ @ 235.50 LC 0.25 › ‹ @ 242.25 QV2 40° 2.5cm › ‹ @ 242.25 sph 0.5% › ‹ @ 242.42 QV2 40° 0.5cm › crosscuts bedding ‹ @ 242.50 S0 40° › ‹ @ 23.10 S0 40° › ‹ @ 244.88 QV2 35° 0.5cm › folded « 25.95- 247.00 FZ 55-70°» rubble, ‹ @ 245.97 LC 0.55 › « 252.00- 252.45 bkn » « 273.67- 274.57 bkn » ‹ @ 273.67 LC 0.55 › « 284.70- 285.03 Crysta Lithic Tuff 45.00-70.00°» « 289.74- 290.00 bkn » « 290.85- 292.10 Crystal Lithic Tuff 75-25°» med grey, « ser 25.00%» « anastomosing qz veins 45.00-5.20°» « 292.10- 295.00 deformed qz veins 30.00-63.00° 5.00-8.00mm» « 300.60- 300.83 Crystal Tuff 70-75°» « ank 15%» 1mm spots ‹ @ 301.62 QV2 35° 1.0cm › broken partly, parallel to foliation, ‹ @ 301.52 fol 35° › ‹ @ 302.45 LCT 70° ›	VA10098120	I089238	248	249.5	0.07
			VA10098120	I089240	249.5	251	0.07
			VA10098120	I089241	251	252.5	0.13
			VA10098120	I089242	252.5	254	0.16
255			VA10098120	I089243	254	255.5	0.25
			VA10098120	I089245	255.5	257	0.36
			VA10098120	I089246	257	258.5	0.34
			VA10098120	I089247	258.5	260	0.44
260			VA10098120	I089248	260	261.5	0.29
			VA10098120	I089250	261.5	263	0.24
			VA10098120	I089251	263	264.5	0.28
265			VA10098120	I089252	264.5	266	0.13
			VA10098120	I089253	266	267.5	0.11
			VA10098120	I089254	267.5	269	0.1
270			VA10098120	I089256	269	270.5	0.07
			VA10098120	I089257	270.5	272	0.06
	Cat.2 Argillite		VA10098120	I089258	272	273.5	0.025
275			VA10098120	I089259	273.5	275.5	0.06
			VA10098120	I089260	275.5	277	0.025
			VA10098120	I089262	277	278.5	0.06
280			VA10098120	I089263	278.5	280	0.025
			VA10098120	I089264	280	281.5	0.025
			VA10098120	I089265	281.5	283	0.025
285			VA10098120	I089267	283	284.5	0.08
			VA10098120	I089268	284.5	286	0.06
			VA10098120	I089269	286	287.5	0.025
			VA10098120	I089270	287.5	289	0.025
290			VA10098120	I089271	289	290.5	0.025
			VA10098120	I089272	290.5	292	0.025
			VA10098120	I089273	292	293.5	0.12
295			VA10098120	I089274	293.5	295	0.38
			VA10098120	I089275	295	296.5	0.17
			VA10098120	I089276	296.5	298	0.14



10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
300	Cat.2 Argillite	Argillite (90%) interbedded with siltstone (10%), generally exhibits cataclastic texture with broken/contorted/folded bedding, siltstone boudings wrapped with graphitic folia, competent, locally faulted, some sections show bedding at 40 deg tca, occasional qz veins some with sphalerite, overall pyrite «py 2.0%» as cubes and anhedral crysts in veinlets and aggregates « 235.50- 236.00 bkn » ‹ @ 235.50 LC 0.25 › ‹ @ 242.25 QV2 40° 2.5cm › ‹ @ 242.25 sph 0.5% › ‹ @ 242.42 QV2 40° 0.5cm › crosscuts bedding ‹ @ 242.50 S0 40° › ‹ @ 23.10 S0 40° › ‹ @ 244.88 QV2 35° 0.5cm › folded « 25.95- 247.00 FZ 55-70°» rubble, ‹ @ 245.97 LC 0.55 › « 252.00- 252.45 bkn » « 273.67- 274.57 bkn » ‹ @ 273.67 LC 0.55 ›	VA10098120	I089276	296.5	298	0.14
			VA10098120	I089277	298	299.5	0.07
			VA10098120	I089279	299.5	301	0.025
			VA10098120	I089280	301	302.45	0.14
			VA10098120	I089281	302.45	304	0.48
305		« 284.70- 285.03 Crysta Lithic Tuff 45.00-70.00°» « 289.74- 290.00 bkn » « 290.85- 292.10 Crystal Lithic Tuff 75-25°» med grey, « ser 25.00%» « anastomosing qz veins 45.00-5.20°» « 292.10- 295.00 deformed qz veins 30.00-63.00° 5.00-8.00mm» « 300.60- 300.83 Crystal Tuff 70-75°» « ank 15%» 1mm spots ‹ @ 301.62 QV2 35° 1.0cm › broken partly, parallel to foliation, ‹ @ 301.52 fol 35° › ‹ @ 302.45 LCT 70° ›	VA10098120	I089282	304	305.5	0.36
			VA10098120	I089283	305.5	307	0.025
			VA10098120	I089285	307	308.5	0.025
310		Med to light grey crystal lithic tuff with minor lapily sections and sediments, competent , massive, locally bedding at 45 deg tca, overprinted by coalescing ankerite rhombs and rounded p/blasts that locally can be diffuse, starting from depth 332.5 to 341calcite rhombs dominate and strongly react to HCL (within that interval there is no ankerite), var sericitized, euhedral pyrite th/out, occasional veinlets of very fg pyrite at high angles tca, qz veins carry insignificant amount of base metals.Very fg crystal tuff interbedded with argillite at 30-45 deg tca within 337-341m, possible carbonatite dikes at 341.3-341.55m alternating with argillite in the last meter of the unit. ‹ @ 303.00 S0 15° › ‹ @ 304.00 S0 35° › « 303.00- 304.00 py 3.0%» very fg pyrite as veinlets @70 deg tca and aggregates « 304.00- 304.60 Breccia » mixed zone of brecciated siltstone, fg tuff and argillite « 304.60- 305.62 Argillite 40-65°» locally deformed black argillite ‹ @ 304.95 QV1 50° 1.2cm › ribbony qz vein ‹ @ 306.20 S0 40° › ‹ @ 307.30 fol 35° › « 307.20- 309.50 ank 20%» coalescing rhombs and 1-5 mm rounded p/blasts ‹ @ 308.20 QV3 30° 1.0cm › ‹ @ 308.20 sph 0.2% › « 309.54- 310.25 Siltstone » « sil 10.0%» silicified, cut by « stringers 5% 0.1cm» Note: 310.25-312 light coloration due to « ser 20.00%» and « ank 15%» « 314.25- 321.00 ank 20%» 3-7 mm diffuse spots ‹ @ 315.90 S0 45° ›	VA10098120	I089286	308.5	310	0.025
			VA10098120	I089287	310	311.5	0.025
			VA10098120	I089288	311.5	313	0.025
			VA10098120	I089289	313	314.5	0.025
315			VA10098120	I089291	314.5	316	0.025
			VA10098120	I089292	316	317.5	0.025
			VA10098120	I089293	317.5	319	0.44
320		‹ @ 320.85 QV2 250° 0.8cm › ‹ @ 320.85 cpy 0.5% › ‹ @ 320.85 sph 0.5% › « 322.34- 322.70 20.0-75.0° 0.50-0.80cm» ‹ @ 324.40 QV3 39° 1.0cm › ‹ @ 324.40 cpy 0.1% › ‹ @ 324.40 sph 0.2% › « 328.48- 335.50 ser 5.00%» « 328.48-330.00 ank 15%» as rhombs « 330.00- 333.00 ank 10%» as 3-5 mm diffuse spots ‹ @ 330.55 QV3 40° 1.3cm › ‹ @ 330.55 sph 1.0% › ‹ @ 330.55 cpy 0.2% › « 331.07- 331.70 bkn » ‹ @ 331.90 cpy 0.2% › in qz veinlets Note: 332.5-341 carbonate alteration as 1mm calcite rhombs strongly reacting to HCL ‹ @ 332.05 QV3 20° 1.0cm › crb, ‹ @ 332.05 sph 2.0% › ‹ @ 338.30 S0 45° › ‹ @ 340.50 S0 30° › Note: 341.3-341.55 possible carbonatite dike @60 deg tca, reacts intensely to HCl	VA10098120	I089294	319	320.5	0.025
			VA10098120	I089295	320.5	322	0.025
	Crystal Lithic Tuff		VA10098120	I089297	322	323.5	0.025
			VA10098120	I089298	323.5	325	0.06
325			VA10098120	I089299	325	326.5	0.025
			VA10098120	I089300	326.5	328	0.025
			VA10098120	I089302	328	329.5	0.025
330			VA10098120	I089303	329.5	331	0.14
			VA10098120	I089304	331	332.5	0.13
			VA10098120	I089305	332.5	334	0.05
335			VA10098120	I089306	334	335.5	0.025
			VA10098120	I089307	335.5	337	0.025
			VA10098120	I089309	337	338.5	0.025
			VA10098120	I089310	338.5	340	0.025
340			VA10098120	I089311	340	342	0.23
	Argillite, Siltstone	Black argillite (50%) interbedded with light grey siltstone (50%) on cm scale generally at 60-80 deg tca. Sericitic alteration affects siltstone. Occasional qz-calcite « stringers », rare <1cm qz veins, within argillite ribbon-type veins up to 2 cm wide and often carry Py. Rock does not react to HCl except 5cm short segment near 348m intensely effervescing when HCl applied. Argillite is locally faulted and broken, silty sections are more competent, but bedding planes locally show offset. Overall pyrite makes « py 2.0%»	VA10098120	I089312	342	343.5	0.21
			VA10098120	I089313	343.5	345	1.62
345		‹ @ 342.75 S0 80° › ‹ @ 343.52 S0 70° › ‹ @ 343.90 S0 65° › ‹ @ 346.34 S0 20° › « 344.58- 344.82 bkn » « 348.00- 349.00 bkn » rubble, gouge, ‹ @ 349.00 LC 0.30m ›	VA10098120	I089314	345	346.5	0.36
			VA10098120	I089315	346.5	348	0.09

Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
350	Argillite, Siltstone	Black argillite (50%) interbedded with light grey siltstone (50%) on cm scale generally at 60-80 deg tca. Sericitic alteration affects siltstone. Occasional qz-calcite « stringers », rare <1cm qz veins, within argillite ribbon-type veins up to 2 cm wide and often carry Py. Rock does not react to HCl except 5cm short segment near 348m intensely effervescing when HCl applied. Argillite is locally faulted and broken, silty sections are more competent, but bedding planes locally show offset. Overall pyrite makes « py 2.0%»	VA10098120	I089315	346.5	348	0.09
			VA10098120	I089317	348	349.5	0.32
		‹ @ 342.75 S0 80° › ‹ @ 343.52 S0 70° › ‹ @ 343.90 S0 65° › ‹ @ 346.34 S0 20° › « 344.58- 344.82 bkn » « 348.00- 349.00 bkn » rubble, gouge, ‹ @ 349.00 LC 0.30m ›	VA10098120	I089318	349.5	351	0.22
		Black argillite with sections having massive texture, laminar bedding and weakly to moderately deformed bedding. Less deformed interval 356.30-359.45 is cut by two 0.5 mm quartz veins carrying multiple flakes of visible gold. Upper part of the unit (to depth 356.30) can be referred as to Cat 1 Argillite slightly boudinaged and having contorted bedding. ‹ @ 351.62 S0 30° › ‹ @ 357.00 S0 15° › ‹ @ 358.75 S0 15° › ‹ @ 353.42 S0 60° › « 353.80- 354.30 bkn » ‹ @ 357.75 QV2 50° 0.5cm › folded, ‹ @ 357.75 VG › ‹ @ 359.40 QV2 12° 0.5cm › ‹ @ 359.40 VG ›	VA10098120	I089319	351	352.5	1.38
			VA10098120	I089320	352.5	354	0.69
355	Argillite	« 360.50- 360.90 bkn »	VA10098120	I089321	354	355.5	1.02
			VA10098120	I089322	355.5	356.5	1.07
			VA10098120	I089323	356.5	357.25	0.69
			VA10098120	I089324	357.25	358	5.21
			VA10098120	I089326	358	358.75	0.92
			VA10098120	I089327	358.75	359.5	9.05
360			VA10098120	I089328	359.5	360.25	0.34
			VA10098120	I089330	360.25	361	0.41
			VA10098120	I089331	361	361.75	0.35
			VA10098120	I089332	361.75	362.5	0.15
	Greywacke	Dark grey fg greywacke with angular black lithic frgms, qz-fspar grains in fg argillaceous matrix, gritty masive rock, minor cm sections intensely react to HCl suggesting they could be carbonatite dikes, overall pyrite 2% « py 2.0%» Visible goldis found @362.82m	VA10098120	I089333	362.5	363.25	2.92
		‹ @ 362.82 QV2 37° 1.5cm › reopened vein, with 4 flakes of visible gold ‹ @ 362.82 VG ›	VA10098120	I089335	363.25	364.5	0.66
365		Note: 364.82-364.87 intensely fizzing, poss carbonatite ‹ @ 365.13 S0 30° › ‹ @ 366.80 LCT 57° ›	VA10098120	I089336	364.5	365.5	0.74
			VA10098120	I089337	365.5	366.8	0.83
	Argillite	Black argillite interedded with light grey siltstone, toward the bottom (370.94-374.53) argillite can be termed as Cat 2 Argillite. ‹ @ 367.05 S0 40° › ‹ @ 367.10 S0 27° › ‹ @ 367.56 S0 55° › « 367.80- 368.00 bkn » « 368.50- 368.80 bkn » roken qz vein with Cpy/VG? ‹ @ 369.95 S0 47° › ‹ @ 370.26 S0 80° › « 371.80- 372.30 FZ 50-60°» ‹ @ 371.80 LC 0.25m › broken 5cm ribboney vein with Py « 373.10- 373.53 bkn »	VA10098120	I089338	366.8	368.5	1.07
			VA10098120	I089339	368.5	370	1.49
370			VA10098120	I089340	370	371.5	0.24
			VA10098120	I089342	371.5	373	0.26
			VA10098120	I089343	373	374.72	0.15
	Crystal Tuff	Light to med grey to locally black crystal tuff interbedded with minor argillite and argillaceous siltstone. Competent, locally broken with 0.45m core loss. Ankerite overprint th/out « ank 15%». Overall « py 1.0%». Occasional <1 cm quartz veins. Silty sections are slightly silicified. No base metals observed. « 377.10- 382.30 Siltstone 35-80°» var carbonaceous from dark grey to black, cut y « stringers 2% 0.2cm», « sil 3.0%» « 386.18- 391.70 Siltstone » med grey, fg, « ank 3%» as 5 mm rounded p/lasts « 388.00- 389.10 bkn » ‹ @ 388.00 LC 0.45m ›	VA10098120	I089344	374.72	376	0.2
375			VA10098120	I089345	376	377.5	0.025
			VA10098120	I089346	377.5	379	0.09
			VA10098120	I089347	379	380.5	0.06
380			VA10098120	I089349	380.5	382	0.025
			VA10098120	I089350	382	383.5	0.025
			VA10098120	I089351	383.5	385	0.025
385			VA10098120	I089352	385	386.5	0.025
			VA10098120	I089353	386.5	388	0.025
			VA10098120	I089354	388	389.5	0.025
390			VA10098120	I089355	389.5	391	0.05
			VA10098120	I089357	391	392.5	0.17
			VA10098120	I089358	392.5	393.5	0.14
			VA10098120	I089359	393.5	394.7	0.025
395	Fault	Fault zone consists of broken crystal tuff and siltstone, several gougey sections , 1m core lost, rubble and competent blocks < 15cm, quartz rubble in weakly solidified gougey matrix, 3 broken qz veins, with 1 occurence of sphalerite ‹ @ 396.15 LC 0.75m › ‹ @ 398.20 QV2 30° 0.4cm › ‹ @ 398.80 LC 0.35m ›	VA10098120	I089360	394.7	396	0.19
			VA10098120	I089361	396	398	0.025

10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
400	Fault	Fault zone consists of broken crystal tuff and siltstone, several gougey sections , 1m core lost, rubble and competent blocks < 15cm, quartz rubble in weakly solidified gougey matrix, 3 broken qz veins, with 1 occurence of sphalerite ‹ @ 396.15 LC 0.75m › ‹ @ 398.20 QV2 30° 0.4cm › ‹ @ 398.80 LC 0.35m ›	VA10098120	I089361	396	398	0.025	
			VA10098120	I089362	398	399.5	0.025	
			VA10098120	I089364	399.5	401	0.08	
			VA10098120	I089365	401	402.5	0.025	
			VA10098120	I089366	402.5	404	0.08	
405			VA10098120	I089367	404	405	0.17	
			VA10098120	I089368	405	406.5	0.025	
	Siltstone	Med grey var carbonaceous siltstone/mudstone with minor crystal lithic tuff and possible greywacke sections, black lithic frgms 1-3mm (1%) do not show any preferred orientation, contorted bedding, mod to str broken th/out with 8 sections of lost core, pyrite occurs th/out as euhedral crysts 0.1-2 cm in size some with qz pressure shadows, in qz veinlets, intense qz veining bearing no sulphides ‹ @ 408.45 QV2 50° 17.0cm › ‹ @ 409.10 QV2 50° 0.5cm › Py « 410.80- 414.90 Crystal Lithic Tuff » med grey , patchy sericitized « ser 5.00%» « 413.80- 414.50 bkn » ‹ @ 415.65 QV3 40° 12.0cm › « 417.20- 418.30 intense qz veining 0°» Py, irregular in shape, include wallrock frgms « 419.00- 419.30 bkn » ‹ @ 419.00 LC 0.25m › « 422.45- 422.90 bkn » « 427.30- 428.00 bkn » ‹ @ 427.30 LC 0.20m › « 428.85- 429.34 bkn » ‹ @ 428.85 LC 0.25m › ‹ @ 430.65 S0 40° › ‹ @ 437.20 S0 37° › « 422.32- 436.90 bkn » broken core, gougey sections, ‹ @ 433.10 LC 0.90m › ‹ @ 436.00 LC 1.30m › could be fault with drilled out fault planes « 437.65- 439.90 bkn » ‹ @ 437.65 LC 0.40m › ‹ @ 441.15 sph 0.2% › in broken 1 cm translucent qzvein « 442.00- 444.48 bkn » broken, ‹ @ 443.00 LC 0.30m › Lower contact is broken.	VA10098120	I089370	406.5	408	0.025	
410			VA10098120	I089371	408	409.5	0.025	
			VA10098120	I089372	409.5	411	0.025	
			VA10098120	I089373	411	412.5	0.025	
			VA10098120	I089374	412.5	414	0.025	
415			VA10098120	I089375	414	415.5	0.06	
			VA10098120	I089376	415.5	417	0.19	
			VA10098120	I089377	417	418.5	0.1	
420			VA10098120	I089379	418.5	420	0.025	
			VA10098120	I089380	420	421.5	0.025	
			VA10098120	I089381	421.5	423	0.025	
			VA10098120	I089382	423	424.5	0.025	
425			VA10098120	I089383	424.5	426	0.025	
			VA10098120	I089384	426	427.5	0.025	
			VA10098120	I089386	427.5	429	0.025	
430			VA10098120	I089387	429	430.5	0.025	
			VA10098120	I089388	430.5	432	0.025	
			VA10098120	I089389	432	434.5	0.025	
435			VA10098120	I089391	434.5	437	0.025	
			VA10098120	I089392	437	438.5	0.025	
			VA10098120	I089393	438.5	440	0.025	
440			VA10098120	I089394	440	441.5	0.025	
			VA10098120	I089395	441.5	443.5	0.025	
			VA10098120	I089396	443.5	445	0.025	
445			VA10098120	I089398	445	447	0.33	

10-DDH-912	North :5828125	East :604015	Elevation :1091.2	Hole Length :468.48	Azimuth :118	Dip :-73	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
450	Siltstone	Med grey var carbonaceous siltstone/mudstone with minor crystal lithic tuff and possible greywacke sections, black lithic frgms 1-3mm (1%) do not show any preferred orientation, contorted bedding, mod to str broken th/out with 8 sections of lost core, pyrite occurs th/out as euhedral crysts 0.1-2 cm in size some with qz pressure shadows, in qz veinlets, intense qz veining bearing no sulphides	VA10098120	I089398	445	447	0.33
		‹ @ 408.45 QV2 50° 17.0cm › ‹ @ 409.10 QV2 50° 0.5cm › Py	VA10098120	I089399	447	448.8	0.2
		« 410.80- 414.90 Crystal Lithic Tuff » med grey , patchy sericitized « ser 5.00%»					
		« 413.80- 414.50 bkn »					
		‹ @ 415.65 QV3 40° 12.0cm ›	VA10098120	I089400	448.8	450.5	0.025
		« 417.20- 418.30 intense qz veining 0°» Py, irregular in shape, include wallrock frgms					
		« 419.00- 419.30 bkn » ‹ @ 419.00 LC 0.25m › « 422.45- 422.90 bkn »					
		« 427.30- 428.00 bkn » ‹ @ 427.30 LC 0.20m ›	VA10098120	I089401	450.5	452.5	0.11
		« 428.85- 429.34 bkn » ‹ @ 428.85 LC 0.25m ›					
		‹ @ 430.65 S0 40° › ‹ @ 437.20 S0 37° ›					
		« 422.32- 436.90 bkn » broken core, gougey sections, ‹ @ 433.10 LC 0.90m › ‹ @ 436.00 LC 1.30m › could be fault with drilled out fault planes					
		« 437.65- 439.90 bkn » ‹ @ 437.65 LC 0.40m ›	VA10098120	I089403	452.5	454	0.025
		‹ @ 441.15 sph 0.2% › in broken 1 cm translucent qzvein					
455		« 442.00- 444.48 bkn » broken, ‹ @ 443.00 LC 0.30m ›	VA10098120	I089404	454	455.5	0.05
		Lower contact is broken.					
	Crystal Lithic Tuff	Light grey crystal lithic tuff, poorly sorted, poss pyroclastic flow as lithic frgms vary in size from 0.1 to 3cm, along with plag-qz grains and glassy frgms there are 20-30% angular to subangular 1-2mm black frgms that could be liths/crysts/ash, no bedding, mod to str broken, locally faulted, cut by quartz veins most of them are sheared, low content of sulphides « py 0.2%», wk «chl 1.0%», « ser 3.00%»	VA10098120	I089405	455.5	457	0.05
		« 450.00- 453.00 bkn » ‹ @ 451.00 LC 0.45m ›	VA10098120	I089406	457	458.5	0.06
		‹ @ 454.00 QV2 60° 4.0cm ›					
		« 457.00- 458.15 bkn »gouge, broken qz veins,some are greenish due to chlorite and sericite	VA10098120	I089408	458.5	460	0.025
460		« 460.00- 460.35 bkn » « 460.90- 462.00 bkn »gouge with talc					
		Note:463-464 blocky broken core with ‹ @ 463.50 LC 0.30m ›	VA10098120	I089409	460	461.5	0.025
		« 464.83- 465.80 bkn »broken qz vein with « py 5.0%»					
		‹ @ 467.30 QV3 0° 3.0cm › ‹ @ 467.30 sph 0.1% ›	VA10098120	I089410	461.5	463	0.025
		« 467.30- 467.55 bkn »					
465			VA10098120	I089411	463	464.5	0.29
			VA10098120	I089412	464.5	466	3.07
			VA10098120	I089413	466	467	0.025
	EOH	Hole reached the target depth.	VA10098120	I089414	467	468.48	0.025
470							
475							
480							
485							
490							
495							

Scale 1:200	Start Depth :446.36	End Depth :495.96	Page No.: 10

10-DDH-913	North :5828780	East :604234	Elevation :912.7	Hole Length :300.84	Azimuth :197	Dip :-80	Logged by :AA	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
5	Casing	No core recovered.					
10	Argillite	Dark grey to black fine-grained mudstone exhibiting lack of fissility and black foliated argillite, both rocks are composed predominantly of clay and silt-sized particles with variable amount of carbonaceous matter, minor intervals of fg greywacke or possibly sandstone. Foliation is defined by concentration of graphite, locally fg quartz with sericite are aligned into foliation. Argillite is broken and faulted with many sectios of lost core, mudstone seems to have more competency. Ankerite overprint upto 5% of rounded 5mm p/blasts in less carbonaceous mudstone. Some quartz veins 0.7-10cm are parallel to foliation, some crosscut, some carry base metals. Overal Py makes 1% as cubes upto 1cm, clots of fg anhedral crystals « 6.77- 7.50 bkn » ‹ @ 7.70 QV2 18° 1.0cm › ‹ @ 8.70 fol 30° › « 8.75- 21.30 FZ 40-40°» rubble, graphitic gouge, ‹ @11.28 LC 1.75m › ‹ @ 13.20 LC 1.55m › ‹ @ 14.33 LC 2.45m › ‹ @ 17.37 LC 0.95m ›, broken qz veins ‹ @ 9.20 QV2 55° 6.0cm › crack-seal vein « 13.20- 13.70 Greywacke » fg, med grey, qz stockworking ‹ @ 23.90 S0 30° › « 22.10- 23.47 bkn » ‹ @ 22.10 LC 1.20m › ‹ @ 22.33 gal 1.0% › in broke 1.6 cm qz vein running parallel tca ‹ @ 24.70 fol 50° › ‹ @ 25.85 fol 50° › ‹ @ 25.90 QV2 50° 8.3cm › wallrock frgms ‹ @ 28.00 fol 40° › ‹ @ 27.90 sph 0.2% › in 0.5cm qz vein running parallel tca and slightly folded ‹ @ 29.10 S0 60° › ‹ @ 29.90 fol 45° › « 29.30- 29.57 ank 5%» 5mm rounded p/blasts ‹ @ 30.13 QV2 27° 0.7cm › ‹ @ 30.13 sph 0.1% › « 33.30- 35.66 bkn » ‹ @ 34.00 LC 0.75m › « 36.47- 43.55 FZ 35-90°» gougey ad ground sects ‹ @ 38.71 LC 2.15m › ‹ @ 42.00 LC 1.00m › ‹ @ 43.55 S0 70° › ‹ @ 44.10 S0 30° › « 44.30- 50.26 bkn » rubble, gouge, ‹ @ 45.00 LC 2.25m › ‹ @ 47.85 LC 2.20m › « 50.20- 51.00 ank 3%»5 mm rounded p/blasts ‹ @ 50.30 S0 0° › parallel tca « 51.25- 54.80 bkn » rubble, ‹ @ 52.00 LC 1.55m › ‹ @ 53.95 LC 0.65m ›	VA10098121	I089415	6.71	8	0.025
			VA10098121	I089416	8	9.5	0.18
			VA10098121	I089418	9.5	14	0.13
			VA10098121	I089419	14	18.5	0.025
			VA10098121	I089420	18.5	20	0.025
			VA10098121	I089421	20	21.5	0.2
			VA10098121	I089422	21.5	24	0.025
			VA10098121	I089423	24	25.5	0.025
			VA10098121	I089424	25.5	27	0.025
			VA10098121	I089425	27	28.5	0.025
			VA10098121	I089427	28.5	30	0.025
			VA10098121	I089428	30	31.5	0.025
			VA10098121	I089429	31.5	33	0.025
			VA10098121	I089430	33	35	0.07
			VA10098121	I089432	35	36.5	0.025
			VA10098121	I089433	36.5	38	0.05
			VA10098121	I089434	38	41.5	0.08
			VA10098121	I089435	41.5	44	0.11
			VA10098121	I089436	44	47.85	0.15
			VA10098121	I089437	47.85	51.5	0.025

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-913	North :5828780	East :604234	Elevation :912.7	Hole Length :300.84	Azimuth :197	Dip :-80	Logged by :AA	Size :NQ	15 July 2011

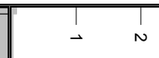
Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
55	Argillite	Dark grey to black fine-grained mudstone exhibiting lack of fissility and black foliated argillite, both rocks are composed predominantly of clay and silt-sized particles with variable amount of carbonaceous matter, minor intervals of fg greywacke or possibly sandstone. Foliation is defined by concentration of graphite, locally fg quartz with sericite are aligned into foliation. Argillite is broken and faulted with many sectios of lost core, mudstone seems to have more competency. Ankerite overprint upto 5% of rounded 5mm p/blasts in less carbonaceous mudstone. Some quartz veins 0.7-10cm are parallel to foliation, some crosscut, some carry base metals. Overal Py makes 1% as cubes upto 1cm, clots of fg anhedral crystals « 6.77- 7.50 bkn » ‹ @ 7.70 QV2 18° 1.0cm › ‹ @ 8.70 fol 30° ›	VA10098121	I089437	47.85	51.5	0.025
		« 8.75- 21.30 FZ 40-40°» rubble, graphitic gouge, ‹ @11.28 LC 1.75m › ‹ @ 13.20 LC 1.55m › ‹ @ 14.33 LC 2.45m › ‹ @ 17.37 LC 0.95m ›, broken qz veins ‹ @ 9.20 QV2 55° 6.0cm › crack-seal vein	VA10098121	I089439	51.5	55	0.26
		« 13.20- 13.70 Greywacke » fg, med grey, qz stockworking ‹ @ 23.90 S0 30° ›	VA10098121	I089440	55	56.5	0.1
60		« 22.10- 23.47 bkn » ‹ @ 22.10 LC 1.20m › ‹ @ 22.33 gal 1.0% › in broke 1.6 cm qz vein running parallel tca ‹ @ 24.70 fol 50° › ‹ @ 25.85 fol 50° › ‹ @ 25.90 QV2 50° 8.3cm › wallrock frgms ‹ @ 28.00 fol 40° › ‹ @ 27.90 sph 0.2% › in 0.5cm qz vein running parallel tca and slightly folded ‹ @ 29.10 S0 60° › ‹ @ 29.90 fol 45° ›	VA10098121	I089442	56.5	58.5	1.08
		« 29.30- 29.57 ank 5%» 5mm rounded p/blasts ‹ @ 30.13 QV2 27° 0.7cm › ‹ @ 30.13 sph 0.1% ›	VA10098121	I089443	58.5	60	0.08
		« 33.30- 35.66 bkn » ‹ @ 34.00 LC 0.75m ›	VA10098121	I089444	60	63	0.08
65		« 36.47- 43.55 FZ 35-90°» gougey ad ground sects ‹ @ 38.71 LC 2.15m › ‹ @ 42.00 LC 1.00m › ‹ @ 43.55 S0 70° › ‹ @ 44.10 S0 30° ›	VA10098121	I089445	63	66	0.31
		« 44.30- 50.26 bkn » rubble, gouge, ‹ @ 45.00 LC 2.25m › ‹ @ 47.85 LC 2.20m ›	VA10102781	I089446	66	69	0.06
70		« 50.20- 51.00 ank 3%»5 mm rounded p/blasts ‹ @ 50.30 S0 0° › parallel tca	VA10102781	I089447	69	78.5	0.07
		« 51.25- 54.80 bkn » rubble, ‹ @ 52.00 LC 1.55m › ‹ @ 53.95 LC 0.65m ›	VA10102781	I089448	78.5	83.5	0.025
75	Fault	Fault zone is comprized of rubbley/gougey/brecciated sections, lost core ‹ @ 56.25 S0 30° › ‹ @ 59.00 S0 25° › ‹ @ 58.00 LC 0.35m › ‹ @ 61.00 LC 1.40m › ‹ @ 66.00 LC 2.05m › ‹ @ 67.00 LC 1.95m › ‹ @ 75.29 LC 2.55m › ‹ @ 82.00 LC 1.10m › ‹ @ 85.60 LC 0.30m › ‹ @ 88.10 LC 1.05m › ‹ @ 92.00 LC 0.55m › ‹ @ 94.50 LC 1.00m › ‹ @ 97.00 LC 1.85m › ‹ @ 102.00 LC 1.70m › ‹ @ 102.72 LC 1.85m › ‹ @ 108.81 LC 1.30m › ‹ @ 111.86 LC 1.40m › ‹ @ 114.00 LC 0.30m › ‹ @ 115.00 LC 1.55m ›	VA10102781	I089449	83.5	85	0.025
		Note: No sample for 72.24-75.29 « 56.00- 56.80 Greywacke » fg, could be sandstone, ground, blocks with preserved bedding ‹ @ 99.95 S0 35° › ‹ @ 100.10 S0 30° › ‹ @ 104.75 QV2 50° 2.2cm › ‹ @ 105.20 QV1 37° 0.8cm › ‹ @ 105.20 sph 1.0% › ‹ @ 106.20 QV2 40° 4.0cm ›	VA10102781	I089451	85	86.5	0.025
80			VA10102781	I089452	86.5	88	0.025
			VA10102781	I089453	88	90	0.05
85			VA10102781	I089454	90	91.5	0.09
			VA10102781	I089455	91.5	93.5	0.19
90			VA10102781	I089456	93.5	95.5	0.025
			VA10102781	I089458	95.5	97	0.1
95			VA10102781	I089459	97	100	0.025

10-DDH-913	North :5828780	East :604234	Elevation :912.7	Hole Length :300.84	Azimuth :197	Dip :-80	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Fault	Fault zone is comprized of rubbley/gougey/brecciated sections, lost core ‹ @ 56.25 S0 30° › ‹ @ 59.00 S0 25° › ‹ @ 58.00 LC 0.35m › ‹ @ 61.00 LC 1.40m › ‹ @ 66.00 LC 2.05m › ‹ @ 67.00 LC 1.95m › ‹ @ 75.29 LC 2.55m › ‹ @ 82.00 LC 1.10m › ‹ @ 85.60 LC 0.30m › ‹ @ 88.10 LC 1.05m › ‹ @ 92.00 LC 0.55m › ‹ @ 94.50 LC 1.00m › ‹ @ 97.00 LC 1.85m › ‹ @ 102.00 LC 1.70m › ‹ @ 102.72 LC 1.85m › ‹ @ 108.81 LC 1.30m › ‹ @ 111.86 LC 1.40m › ‹ @ 114.00 LC 0.30m › ‹ @ 115.00 LC 1.55m ›	VA10102781	I089459	97	100	0.025
		Note: No sample for 72.24-75.29 « 56.00- 56.80 Greywacke » fg, could be sandstone, ground, blocks with preserved bedding	VA10102781	I089460	100	105	0.025
105		‹ @ 99.95 S0 35° › ‹ @ 100.10 S0 30° › ‹ @ 104.75 QV2 50° 2.2cm › ‹ @ 105.20 QV1 37° 0.8cm › ‹ @ 105.20 sph 1.0% › ‹ @ 106.20 QV2 40° 4.0cm ›	VA10102781	I089461	105	106.5	0.025
			VA10102781	I089463	106.5	109	0.025
110			VA10102781	I089464	109	112	0.1
		Cataclastize argillite with minor siltstone beds and clasts wraped with graphitic folia, clasts have remnant truncated qz veins, locally foliation is weakly foled or contorted, mod broken section th/out, overal Py <1% as cubes an blebs of very fg pyrite, cut by anastomosing qz veins which are often broken and carry insignificant amout of sulphides Qz occurs as patches, qz veins, stringers and veins	VA10102781	I089465	112	113.5	0.025
115		‹ @ 117.10 S0 25° › ‹ @ 118.15 QV2 25° 0.6cm › ‹ @ 118.53 S0 55° ›	VA10102781	I089466	113.5	117	0.17
		« 120.35- 123.50 ank 3%» 1-5 mm rounded p/blasts					
		« 120.35- 123.70 Siltstone » med grey with weak ankerite overprint « stringers 1% 0.1cm» crenulated ‹ @ 121.60 fol 30° › ‹ @ 122.80 fol 45° ›	VA10102781	I089467	117	118.5	0.31
120		« 122.20- 123.30 qz veins » anastomosing, broken ‹ @ 122.80 sph 2.0% › ‹ @ 122.20 cpy 2.0% › ‹ @ 122.20 gal 0.5% › ‹ @ 123.12 gal 0.5% ›	VA10102781	I089469	118.5	120	0.09
		« 123.00- 124.40 bkn »	VA10102781	I089470	120	121.5	0.025
		Note: 124-127 argliite exhibit cataclastic texture (1st degree), siltstone clasts are pyritized and carry ‹ @ 125.65 minor sph 0.5% › « 126.00- 133.70 FZ 30-40°» ‹ @ 126.50 LC 0.25m › ‹ @ 126.90 gal 0.5% ›	VA10102781	I089471	121.5	123	0.025
		« 127.50- 133.70 FZ 55-40°» broken core, ‹ @ 128.00 gal 1.0% › in broken qz vein, gougey sects, ‹ @ 128.0 LC 0.30m ›, ‹ @ 133.25 sph 0.5% › ‹ @ 129.08 S0 30° › ‹ @ 134.52 S0 48° ›	VA10102781	I089472	123	124.5	0.05
		« 134.00- 142.00 py 1.0%» « 138.00- 140.00 wk bkn » ‹ @ 139.60 S0 60° ›					
125		‹ @ 140.50 fol 60° › defined by concentration of graphite into folia	VA10102781	I089473	124.5	126	0.08
		‹ @ 141.65 QV2 37° 1.0cm › ‹ @ 141.65 sph 0.1% › Note: 147.20-147.35 qz aligne into foliation	VA10102781	I089474	126	127.5	0.025
		‹ @ 148.85 QV2 40° 15.0cm › « 147.60- 148.80 FZ 50-45°» gougey	VA10102781	I089475	127.5	129	0.025
		« 149.33- 151.00 FZ 50-70°» gouge, broken qz veins « 151.49- 154.53 FZ 85-65°» broken 65 cm qz vein, ‹ @ 153.00 LC 0.90m ›, gougey sects	VA10102781	I089476	129	130.5	0.39
130		‹ @ 156.27 QV2 70° 2.3cm › ‹ @ 156.27 gal 0.5% › ‹ @ 156.27 sph 0.5% › ‹ @157.30 QV2 57° 1.5cm › anastomosing, ‹ @ 157.30 sph 0.5% ›					
		« 159.00- 159.27 bkn » ‹ @ 159.75 sph 0.2% › in ‹ @ 159.75 QV2 50° 0.4cm ›	VA10102781	I089478	130.5	134	0.35
	Cat.1 Argillite	‹ @ 160.10 fol 60° › ‹ @ 163.10 fol 50° › defined by concentration of carbonaceous matter into folia ‹ @ 163.38 sph 0.2% › ‹ @ 164.75 QV2 25° 0.5cm › folded, dismembered ‹ @ 164.75 sph 0.2% ›					
		Note: 167-195 competent core, mainly argillitewith cataclastic texture with pyritized subrounded siltstone clasts up to 3 cm « 167.00- 195.00 py 1.0%» ‹ @ 179.20 QV2 0° 10.0cm › broken					
135		« 179.00- 180.00 bkn » ‹ @ 179.50 LC 0.40m › « 179.00- 179.30 qz veins » with well evelope qz crysts « 185.40- 186.10 Greywacke » fg, me grey	VA10102781	I089479	134	135.5	0.18
		« 187.50- 187.90 FG Greywacke » with qz-crb stockwork toward the lower contact ‹ @ 190.00 fol 55° ›	VA10102781	I089480	135.5	137	0.27
		« 187.00- 187.50 bkn » broken core ‹ @ 187.00 LC 0.50m › « 190.30- 191.30 Siltstone » argillaceous , with « ank 1%», « stringers 3% 0.1cm» var oriented	VA10102781	I089481	137	138.5	0.17
		‹ @ 196.70 fol 45° › « 194.00- 195.00 Siltstone » contorte bedding	VA10102781	I089482	138.5	140	0.025
		« 195.30- 196.00 bkn » ‹ @ 195.30 LC 0.20m › Note: 196.5-212.30 blocky core, gougeu sections, ‹ @ 198.00 LC 0.40m ›	VA10102781	I089484	140	141.5	0.025
140		‹ @ 201.90 LC 0.55m › « 203.80- 205.20 Siltstone » ‹ @ 205.00 S0 40° ›	VA10102781	I089485	141.5	143	0.025
		« 205.20- 205.85 bkn » ‹ @ 205.30 LC 0.30m › ‹ @ 206.00 fol 40° › ‹ @ 207.10 S0 50° › ‹ @ 207.60 S0 35° ›	VA10102781	I089486	143	144.5	0.07
		‹ @ 208.20 QV3 0° 60.0cm › broken, Py, ‹ @ 208.20 gal 0.1% › ‹ @ 209.10 QV2 18° 1.0cm ›, Py, ‹ @ 210.05 fol 55° ›	VA10102781	I089487	144.5	146	0.07
		‹ @ 210.23 S0 75° › « 211.00- 214.730 Siltstone 40°» med grey, massive, « py 1.0%» cubes	VA10102781	I089489	146	147.5	0.07
145		‹ @ 211.60 S0 37° › ‹ @ 212.10 S0 40° › ‹ @ 216.50 fol 32° › ‹ @ 218.20 sph 0.2% › in 1 cm qz vein	VA10102781	I089490	147.5	149	0.08
		‹ @ 219.15 S0 40° › ‹ @ 219.53 QV3 42° 4.5cm › Py , ‹ @ 221.07 S0 45° › ‹ @ 225.50 fol 65° › ‹ @ 226.00 S0 25° › ‹ @ 227.30 S0 35° ›					
		‹ @ 227.50 QV2 0° 15.0cm › Py, ‹ @ 227.50 sph 1.0% › ‹ @ 227.90 fol 55° › ‹ @ 228.50 fol 50° ›					
		« 229.00- 232.50 bkn » ‹ @ 230.00 LC 0.45m › ‹ @ 232.00 LC 0.55m › ‹ @ 232.90 fol 42° ›					
		‹ @ 231.00 QV1 18° 1.0cm › « 236.80- 246.30 FZ 0°» broken core, rubble, gouge, ‹ @ 238.50 LC 0.95m ›, ‹ @ 292.00 LC 1.10m ›					
		Note: 237-242 massive texture, coul be mudstone, dark grey					

10-DDH-913	North :5828780	East :604234	Elevation :912.7	Hole Length :300.84	Azimuth :197	Dip :-80	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150		Cataclastize argillite with minor siltstone beds and clasts wraped with graphitic folia, clasts have remnant truncated qz veins, locally foliation is weakly foled or contorted, mod broken section th/out, overal Py <1% as cubes an blebs of very fg pyrite, cut by anastomosing qz veins which are often broken and carry insignificant amout of sulphides Qz occurs as patches, qz veins, stringers and veins	VA10102781	I089491	149	150.5	0.025
		‹ @ 117.10 S0 25° ›	VA10102781	I089492	150.5	151.6	0.05
		‹ @ 118.15 QV2 25° 0.6cm ›					
		‹ @ 118.53 S0 55° ›					
		« 120.35- 123.50 ank 3%» 1-5 mm rounded p/blasts	VA10102781	I089493	151.6	154	0.025
		« 120.35- 123.70 Siltstone » med grey with weak ankerite overprint « stringers 1% 0.1cm» crenulated					
155		‹ @ 121.60 fol 30° › ‹ @ 122.80 fol 45° ›	VA10102781	I089494	154	155.5	0.025
		« 122.20- 123.30 qz veins » anastomosing, broken ‹ @ 122.80 sph 2.0% › ‹ @ 122.20 cpy 2.0% › ‹ @ 122.20 gal 0.5% ›					
		‹ @ 123.12 gal 0.5% ›	VA10102781	I089495	155.5	157	0.07
		« 123.00- 124.40 bkn » Note: 124-127 argliite exhibit cataclastic texture (1st degree), siltstone clasts are pyritized and carry ‹ @ 125.65 minor sph 0.5% ›	VA10102781	I089497	157	158.5	0.15
		« 126.00- 133.70 FZ 30-40°» ‹ @ 126.50 LC 0.25m › ‹ @ 126.90 gal 0.5% › « 127.50- 133.70 FZ 55-40°» broken core, ‹ @ 128.00 gal 1.0% › in broken qz vein, gougey sects, ‹ @ 128.0 LC 0.30m ›, ‹ @ 133.25 sph 0.5% ›					
		‹ @ 129.08 S0 30° › ‹ @ 134.52 S0 48° ›	VA10102781	I089498	158.5	160	0.06
160		« 134.00- 142.00 py 1.0%» « 138.00- 140.00 wk bkn » ‹ @ 139.60 S0 60° ›	VA10102781	I089499	160	161.5	0.13
		‹ @ 140.50 fol 60° › defined by concentration of graphite into folia ‹ @ 141.65 QV2 37° 1.0cm › ‹ @ 141.65 sph 0.1% ›					
		Note: 147.20-147.35 qz aligne into foliation ‹ @ 148.85 QV2 40° 15.0cm ›	VA10102781	I089500	161.5	163	0.08
		« 147.60- 148.80 FZ 50-45°» gougey « 149.33- 151.00 FZ 50-70°» gouge, broken qz veins					
		« 151.49- 154.53 FZ 85-65°» broken 65 cm qz vein, ‹ @ 153.00 LC 0.90m ›, gougey sects ‹ @ 156.27 QV2 70° 2.3cm › ‹ @ 156.27 gal 0.5% › ‹ @ 156.27 sph 0.5% ›	VA10102781	I089502	163	164.5	0.025
165		‹ @157.30 QV2 57° 1.5cm › anastomosing, ‹ @ 157.30 sph 0.5% ›	VA10102781	I089503	164.5	166	0.025
		« 159.00- 159.27 bkn » ‹ @ 159.75 sph 0.2% › in ‹ @ 159.75 QV2 50° 0.4cm ›	VA10102781	I089504	166	167.5	0.06
		‹ @ 160.10 fol 60° › ‹ @ 163.10 fol 50° › defined by concentration of carbonaceous matter into folia ‹ @ 163.38 sph 0.2% ›					
		‹ @ 164.75 QV2 25° 0.5cm › folded, dismembered ‹ @ 164.75 sph 0.2% ›	VA10102781	I089505	167.5	169	0.06
		Note: 167-195 competent core, mainly argillitewith cataclastic texture with pyritized subrounded siltstone clasts up to 3 cm « 167.00- 195.00 py 1.0%»					
170		‹ @ 179.20 QV2 0° 10.0cm › broken « 179.00- 180.00 bkn » ‹ @ 179.50 LC 0.40m ›	VA10102781	I089507	169	170.5	0.025
		« 179.00- 179.30 qz veins » with well evelope qz crysts « 185.40- 186.10 Greywacke » fg, me grey					
		« 187.50- 187.90 FG Greywacke » with qz-crb stockwork toward the lower contact ‹ @ 190.00 fol 55° ›	VA10102781	I089508	170.5	172	0.1
		« 187.00- 187.50 bkn » broken core ‹ @ 187.00 LC 0.50m › « 190.30- 191.30 Siltstone » argillaceous , with « ank 1%», « stringers 3% 0.1cm» var oriented	VA10102781	I089509	172	173.5	0.025
	Cat.1 Argillite	‹ @ 196.70 fol 45° ›					
		« 194.00- 195.00 Siltstone » contorte bedding « 195.30- 196.00 bkn » ‹ @ 195.30 LC 0.20m ›	VA10102781	I089510	173.5	175	0.1
175		Note: 196.5-212.30 blocky core, gougeu sections, ‹ @ 198.00 LC 0.40m › ‹ @ 201.90 LC 0.55m ›	VA10102781	I089511	175	176.5	0.025
		« 203.80- 205.20 Siltstone » ‹ @ 205.00 S0 40° ›	VA10102781	I089512	176.5	178	0.08
		« 205.20- 205.85 bkn » ‹ @ 205.30 LC 0.30m › ‹ @ 206.00 fol 40° › ‹ @ 207.10 S0 50° › ‹ @ 207.60 S0 35° ›					
		‹ @ 208.20 QV3 0° 60.0cm › broken, Py, ‹ @ 208.20 gal 0.1% › ‹ @ 209.10 QV2 18° 1.0cm ›, Py, ‹ @ 210.05 fol 55° ›	VA10102781	I089513	178	179.5	0.05
		‹ @ 210.23 S0 75° › « 211.00- 214.730 Siltstone 40°» med grey, massive, « py 1.0%» cubes	VA10102781	I089514	179.5	181	0.2
180		‹ @ 211.60 S0 37° › ‹ @ 212.10 S0 40° › ‹ @ 216.50 fol 32° › ‹ @ 218.20 sph 0.2% › in 1 cm qz vein	VA10102781	I089515	181	182.5	0.2
		‹ @ 219.15 S0 40° › ‹ @ 219.53 QV3 42° 4.5cm › Py , ‹ @ 221.07 S0 45° › ‹ @ 225.50 fol 65° › ‹ @ 226.00 S0 25° › ‹ @ 227.30 S0 35° ›	VA10102781	I089516	182.5	184	0.025
		‹ @ 227.50 QV2 0° 15.0cm › Py, ‹ @ 227.50 sph 1.0% › ‹ @ 227.90 fol 55° › ‹ @ 228.50 fol 50° ›	VA10102781	I089518	184	185.5	0.025
		« 229.00- 232.50 bkn » ‹ @ 230.00 LC 0.45m › ‹ @ 232.00 LC 0.55m › ‹ @ 232.90 fol 42° ›	VA10102781	I089519	185.5	187.5	0.025
185		‹ @ 231.00 QV1 18° 1.0cm ›	VA10102781	I089520	187.5	189	0.06
		« 236.80- 246.30 FZ 0°» broken core, rubble, gouge, ‹ @ 238.50 LC 0.95m ›, ‹ @ 292.00 LC 1.10m › Note: 237-242 massive texture, coul be mudstone, dark grey	VA10102781	I089521	189	190.5	0.025
			VA10102781	I089522	190.5	192	0.025
190			VA10102781	I089524	192	193.5	0.025
			VA10102781	I089525	193.5	195	0.025
			VA10102781	I089526	195	196.5	0.11
195			VA10102781	I089527	196.5	198	0.025
			VA10102781	I089529	198	199.5	0.34



10-DDH-913	North :5828780	East :604234	Elevation :912.7	Hole Length :300.84	Azimuth :197	Dip :-80	Logged by :AA	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
200	Cat.1 Argillite	Cataclastize argillite with minor siltstone beds and clasts wraped with graphitic folia, clasts have remnant truncated qz veins, locally foliation is weakly foled or contorted, mod broken section th/out, overal Py <1% as cubes an blebs of very fg pyrite, cut by anastomosing qz veins which are often broken and carry insignificant amout of sulphides Qz occurs as patches, qz veins, stringers and veins	VA10102781	I089529	198	199.5	0.34
		‹ @ 117.10 S0 25° › ‹ @ 118.15 QV2 25° 0.6cm › ‹ @ 118.53 S0 55° ›	VA10102781	I089530	199.5	201	0.28
		« 120.35- 123.50 ank 3%» 1-5 mm rounded p/blasts	VA10102781	I089531	201	203	0.025
		« 120.35- 123.70 Siltstone » med grey with weak ankerite overprint « stringers 1% 0.1cm» crenulated ‹ @ 121.60 fol 30° › ‹ @ 122.80 fol 45° ›	VA10102781	I089532	203	204.5	0.05
205		« 122.20- 123.30 qz veins » anastomosing, broken ‹ @ 122.80 sph 2.0% › ‹ @ 122.20 cpy 2.0% › ‹ @ 122.20 gal 0.5% › ‹ @ 123.12 gal 0.5% ›	VA10102781	I089533	204.5	206	0.025
		« 123.00- 124.40 bkn » Note: 124-127 argliite exhibit cataclastic texture (1st degree), siltstone clasts are pyritized and carry ‹ @ 125.65 minor sph 0.5% ›	VA10102781	I089534	206	207.5	0.16
		« 126.00- 133.70 FZ 30-40°» ‹ @ 126.50 LC 0.25m › ‹ @ 126.90 gal 0.5% › « 127.50- 133.70 FZ 55-40°» broken core, ‹ @ 128.00 gal 1.0% › in broken qz vein, gougey sects, ‹ @ 128.0 LC 0.30m ›, ‹ @ 133.25 sph 0.5% › ‹ @ 129.08 S0 30° › ‹ @ 134.52 S0 48° ›	VA10102781	I089535	207.5	209	0.31
210		« 134.00- 142.00 py 1.0%» « 138.00- 140.00 wk bkn » ‹ @ 139.60 S0 60° ›	VA10102781	I089536	209	210.5	0.46
		‹ @ 140.50 fol 60° › defined by concentration of graphite into folia ‹ @ 141.65 QV2 37° 1.0cm › ‹ @ 141.65 sph 0.1% › Note: 147.20-147.35 qz aligne into foliation ‹ @ 148.85 QV2 40° 15.0cm ›	VA10102781	I089538	210.5	212	0.13
		« 147.60- 148.80 FZ 50-45°» gougey « 149.33- 151.00 FZ 50-70°» gouge, broken qz veins « 151.49- 154.53 FZ 85-65°» broken 65 cm qz vein, ‹ @ 153.00 LC 0.90m ›, gougey sects	VA10102781	I089539	212	213.5	0.09
215		‹ @ 156.27 QV2 70° 2.3cm › ‹ @ 156.27 gal 0.5% › ‹ @ 156.27 sph 0.5% › ‹ @157.30 QV2 57° 1.5cm › anastomosing, ‹ @ 157.30 sph 0.5% ›	VA10102781	I089540	213.5	215	0.44
		« 159.00- 159.27 bkn » ‹ @ 159.75 sph 0.2% › in ‹ @ 159.75 QV2 50° 0.4cm › ‹ @ 160.10 fol 60° › ‹ @ 163.10 fol 50° › defined by concentration of carbonaceous matter into folia ‹ @ 163.38 sph 0.2% ›	VA10102781	I089541	215	216.5	0.16
		‹ @ 164.75 QV2 25° 0.5cm › folded, dismembered ‹ @ 164.75 sph 0.2% › Note: 167-195 competent core, mainly argillitewith cataclastic texture with pyritized subrounded siltstone clasts up to 3 cm « 167.00- 195.00 py 1.0%»	VA10102781	I089543	216.5	218	0.67
		‹ @ 179.20 QV2 0° 10.0cm › broken « 179.00- 180.00 bkn » ‹ @ 179.50 LC 0.40m › « 179.00- 179.30 qz veins » with well evelope qz crysts	VA10102781	I089544	218	219.5	0.14
220		« 185.40- 186.10 Greywacke » fg, me grey « 187.50- 187.90 FG Greywacke » with qz-crb stockwork toward the lower contact ‹ @ 190.00 fol 55° ›	VA10102781	I089545	219.5	221	0.025
		« 187.00- 187.50 bkn » broken core ‹ @ 187.00 LC 0.50m › « 190.30- 191.30 Siltstone » argillaceous , with « ank 1%», « stringers 3% 0.1cm» var oriented ‹ @ 196.70 fol 45° ›	VA10102781	I089546	221	222.5	0.06
		« 194.00- 195.00 Siltstone » contorte bedding « 195.30- 196.00 bkn » ‹ @ 195.30 LC 0.20m › Note: 196.5-212.30 blocky core, gougeu sections, ‹ @ 198.00 LC 0.40m › ‹ @ 201.90 LC 0.55m ›	VA10102781	I089548	222.5	224	0.07
225		« 203.80- 205.20 Siltstone » ‹ @ 205.00 S0 40° › « 205.20- 205.85 bkn » ‹ @ 205.30 LC 0.30m ›	VA10102781	I089549	224	225.5	0.11
		‹ @ 206.00 fol 40° › ‹ @ 207.10 S0 50° › ‹ @ 207.60 S0 35° › ‹ @ 208.20 QV3 0° 60.0cm › broken, Py, ‹ @ 208.20 gal 0.1% › ‹ @ 209.10 QV2 18° 1.0cm ›, Py, ‹ @ 210.05 fol 55° › ‹ @ 210.23 S0 75° ›	VA10102781	I089550	225.5	227	0.12
		« 211.00- 214.730 Siltstone 40°» med grey, massive, « py 1.0%» cubes ‹ @ 211.60 S0 37° › ‹ @ 212.10 S0 40° › ‹ @ 216.50 fol 32° ›	VA10102781	I089551	227	228.5	0.55
230		‹ @ 218.20 sph 0.2% › in 1 cm qz vein ‹ @ 219.15 S0 40° › ‹ @ 219.53 QV3 42° 4.5cm › Py , ‹ @ 221.07 S0 45° › ‹ @ 225.50 fol 65° › ‹ @ 226.00 S0 25° › ‹ @ 227.30 S0 35° › ‹ @ 227.50 QV2 0° 15.0cm › Py, ‹ @ 227.50 sph 1.0% › ‹ @ 227.90 fol 55° › ‹ @ 228.50 fol 50° ›	VA10102781	I089552	228.5	230	0.025
		« 229.00- 232.50 bkn » ‹ @ 230.00 LC 0.45m › ‹ @ 232.00 LC 0.55m ›	VA10102781	I089553	230	232.5	0.19
		Black foliated argillite interbedded with dark grey siltstone(70-30%), competency varies from one subunit to another, with argillite being more sheared, siltstone is weakly foliated with alternating beds and folia of dark and pale grey, cut by var oriented qz stringers and veinlets cross cutting foliation, abundant qz stringers are common for siltstone. Weak carbonate alteration affects siltstone and occurs as 1% of feeble 5mm rounded p/blasts.Overal pyrite <1% with some increase in more carbonaceous intervals. No visible gold encountered. Negligible amount of galena and sphalerite.	VA10102781	I089554	232.5	234	0.025
235		« 246.30- 249.60 Siltstone » ‹ @ 247.00 fol 75° › ‹ @ 248.40 fol 60° › ‹ @ 248.55 fol 75° › Note: 249.6-256 blocky argillite, locally broken	VA10102781	I089556	234	235.5	0.025
		« 253.00- 254.00 bkn »	VA10102781	I089557	235.5	237	0.06
		« 258.17- 258.30 FZ 60°» gouge ‹ @ 258.80 fol 47° › « 258.30- 260.10 py 1.0%» ‹ @ 259.90 QV2 70° 0.6cm › ‹ @ 259.90 sph 0.2% › « 263.00- 264.00 py 1.0%»	VA10102781	I089558	237	238.5	0.05
240		‹ @ 264.60 fol 52° › ‹ @ 264.80 fol 53° › ‹ @ 265.39 fol 52° › « 270.10- 274.00 Siltstone 0°»med grey with minor mudstone beds, localy with abundant qz stringers, wk ankerite overprint as 5mm rounded p/blasts,	VA10102781	I089559	238.5	240.5	0.06
		« 270.10- 274.00 ank 1%» ‹ @ 271.00 S0 73° › ‹ @ 272.87 QV2 45° 2.0cm › ‹ @ 272.87 gal 0.2% › « 276.00- 276.90 Siltstone » med grey, « stringers 3% 0.1cm» ‹ @ 276.45 QV2 20° 0.6cm › ‹ @ 276.45 gal 1.0% › ‹ @ 275.63 S0 70° › deformed bedding	VA10102781	I089560	240.5	243	0.1
		« 276.90- 279.50 FZ 0°» broken core, brecciated/rubley/gougey sects ‹ @ 281.60 fol 43° › ‹ @ 281.10 S0 77° › ‹ @ 282.10 S0 65° › alternating dark and light grey beds	VA10102781	I089562	243	244.5	0.33
245		« 282.50- 283.90 bkn » rubble, ‹ @ 283.00 LC 0.45m › ‹ @ 283.97 fol 45° ›	VA10102781	I089563	244.5	246.3	0.025
	Argillite, Siltstone	« 284.08- 285.00 Siltstone 45-45°» « stringers 3% 0.1cm» « 285.60- 287.20 qz veins 35-85° 0.3-1.3cm» « 287.08- 289.57 Siltstone 35-77°» with qz-crb crackle breccia@ 288.65-288.80	VA10102781	I089564	246.3	248	0.025
		« 288.65- 289.53 qz veins » some vuggy with well developed qz crysts					

10-DDH-913	North :5828780	East :604234	Elevation :912.7	Hole Length :300.84	Azimuth :197	Dip :-80	Logged by :AA	Size :NQ	15 July 2011

Depth At	Geology		Geochemistry				
	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250		Black foliated argillite interbedded with dark grey siltstone(70-30%), competency varies from one subunit to another, with argillite being more sheared, siltstone is weakly foliated with alternating beds and folia of dark and pale grey, cut by var oriented qz stringers and veinlets cross cutting foliation, abundant qz stringers are common for siltstone. Weak carbonate alteration affects siltstone and occurs as 1% of feeble 5mm rounded p/blasts.Overal pyrite <1% with some increase in more carbonaceous intervals. No visible gold encountered. Negligible amount of galena and sphalerite. « 246.30- 249.60 Siltstone » ‹ @ 247.00 fol 75° › ‹ @ 248.40 fol 60° › ‹ @ 248.55 fol 75° › Note: 249.6-256 blocky argillite, locally broken « 253.00- 254.00 bkn » « 258.17- 258.30 FZ 60°» gouge ‹ @ 258.80 fol 47° › « 258.30- 260.10 py 1.0%» ‹ @ 259.90 QV2 70° 0.6cm › ‹ @ 259.90 sph 0.2% › « 263.00- 264.00 py 1.0%» ‹ @ 264.60 fol 52° › ‹ @ 264.80 fol 53° › ‹ @ 265.39 fol 52° › « 270.10- 274.00 Siltstone 0°»med grey with minor mudstone beds, localy with abundant qz stringers, wk ankerite overprint as 5mm rounded p/blasts, « 270.10- 274.00 ank 1%» ‹ @ 271.00 S0 73° › ‹ @ 272.87 QV2 45° 2.0cm › ‹ @ 272.87 gal 0.2% › « 276.00- 276.90 Siltstone » med grey, « stringers 3% 0.1cm» ‹ @ 276.45 QV2 20° 0.6cm › ‹ @ 276.45 gal 1.0% › ‹ @ 275.63 S0 70° › deformed bedding « 276.90- 279.50 FZ 0°» broken core, brecciated/rubley/gougey sects ‹ @ 281.60 fol 43° › ‹ @ 281.10 S0 77° › ‹ @ 282.10 S0 65° › alternating dark and light grey beds « 282.50- 283.90 bkn » rubble, ‹ @ 283.00 LC 0.45m › ‹ @ 283.97 fol 45° › « 284.08- 285.00 Siltstone 45-45°» « stringers 3% 0.1cm» « 285.60- 287.20 qz veins 35-85° 0.3-1.3cm» « 287.08- 289.57 Siltstone 35-77°» with qz-crb crackle breccia@ 288.65-288.80 « 288.65- 289.53 qz veins » some vuggy with well developed qz crysts « 290.57- 291.69 Siltstone 25°» ‹ @ 298.87 fol 82° › « 297.50- 300.84 py 1.5%» ‹ @ 299.90 fol 80° ›	VA10102781	I089565	248	249.5	0.025
			VA10102781	I089566	249.5	251	0.05
			VA10102781	I089567	251	252.5	0.025
			VA10102781	I089569	252.5	254	0.025
255			VA10102781	I089570	254	255.5	0.025
			VA10102781	I089571	255.5	257	0.05
			VA10102781	I089572	257	258.5	0.05
			VA10102781	I089573	258.5	260	0.025
260			VA10102781	I089574	260	261.5	0.025
			VA10102781	I089575	261.5	263	0.025
			VA10102781	I089577	263	264.5	0.025
			VA10102781	I089578	264.5	266	0.025
265			VA10102781	I089579	266	267.5	0.025
			VA10102781	I089580	267.5	269	0.025
			VA10102781	I089581	269	270.5	0.025
270			VA10102781	I089582	270.5	272	0.025
	Argillite, Siltstone		VA10102781	I089584	272	273.5	0.025
			VA10102781	I089585	273.5	275	0.18
275			VA10102781	I089586	275	276.73	0.025
			VA10102781	I089587	276.73	278	0.025
			VA10102781	I089588	278	279.5	0.025
280			VA10102781	I089590	279.5	281	0.025
			VA10102781	I089591	281	282.5	0.025
			VA10102781	I089592	282.5	284	0.025
285			VA10102781	I089593	284	285.5	0.025
			VA10102781	I089594	285.5	287	0.025
			VA10102781	I089596	287	288.5	0.025
			VA10102781	I089597	288.5	290	0.025
290			VA10102781	I089598	290	291.5	0.025
			VA10102781	I089599	291.5	293	0.07
			VA10102781	I089600	293	294.5	0.06
295			VA10102781	I089602	294.5	296	0.07
			VA10102781	I089603	296	297.5	0.09

10-DDH-913	North :5828780	East :604234	Elevation :912.7	Hole Length :300.84	Azimuth :197	Dip :-80	Logged by :AA	Size :NQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
300	Argillite, Siltstone	Black foliated argillite interbedded with dark grey siltstone(70-30%), competency varies from one subunit to another, with argillite being more sheared, siltstone is weakly foliated with alternating beds and folia of dark and pale grey, cut by var oriented qz stringers and veinlets cross cutting foliation, abundant qz stringers are common for siltstone. Weak carbonate alteration affects siltstone and occurs as 1% of feeble 5mm rounded p/blasts.Overal pyrite <1% with some increase in more carbonaceous intervals. No visible gold encountered. Negligible amount of galena and sphalerite. « 246.30- 249.60 Siltstone » ‹ @ 247.00 fol 75° › ‹ @ 248.40 fol 60° › ‹ @ 248.55 fol 75° › Note: 249.6-256 blocky argillite, locally broken « 253.00- 254.00 bkn » « 258.17- 258.30 FZ 60°» gouge ‹ @ 258.80 fol 47° › « 258.30- 260.10 py 1.0%» ‹ @ 259.90 QV2 70° 0.6cm › ‹ @ 259.90 sph 0.2% › « 263.00- 264.00 py 1.0%» ‹ @ 264.60 fol 52° › ‹ @ 264.80 fol 53° › ‹ @ 265.39 fol 52° ›	VA10102781	I089604	297.5	299	0.59	
			VA10102781	I089605	299	300.84	1.29	
305		« 270.10- 274.00 Siltstone 0°»med grey with minor mudstone beds, localy with abundant qz stringers, wk ankerite overprint as 5mm rounded p/blasts, « 270.10- 274.00 ank 1%» ‹ @ 271.00 S0 73° › ‹ @ 272.87 QV2 45° 2.0cm › ‹ @ 272.87 gal 0.2% › « 276.00- 276.90 Siltstone » med grey, « stringers 3% 0.1cm» ‹ @ 276.45 QV2 20° 0.6cm › ‹ @ 276.45 gal 1.0% › ‹ @ 275.63 S0 70° › deformed bedding « 276.90- 279.50 FZ 0°» broken core, brecciated/rubley/gougey sects ‹ @ 281.60 fol 43° › ‹ @ 281.10 S0 77° › ‹ @ 282.10 S0 65° › alternating dark and light grey beds						
310		« 282.50- 283.90 bkn » rubble, ‹ @ 283.00 LC 0.45m › ‹ @ 283.97 fol 45° › « 284.08- 285.00 Siltstone 45-45°» « stringers 3% 0.1cm» « 285.60- 287.20 qz veins 35-85° 0.3-1.3cm» « 287.08- 289.57 Siltstone 35-77°» with qz-crb crackle breccia@ 288.65-288.80 « 288.65- 289.53 qz veins » some vuggy with well developed qz crysts « 290.57- 291.69 Siltstone 25°» ‹ @ 298.87 fol 82° › « 297.50- 300.84 py 1.5%» ‹ @ 299.90 fol 80° ›						
315		Hole reached the target depth.						
320								
325								
330								
335								
340								
345								

Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
5	Casing	Casing					
10	Cat.2 Argillite	Cat 2 Argillite - mainly med to dk grey/black, fine to med grained, graphitic, with lighter felsic lenses, boudins and broken fragments showing the deformation that has taken place. Upper 11m has 15% lt to med grey, poorly banded siltstone layers. Unit is rubbly, especially where schistose. « py 1.5% 0.5-12.0mm» Note - pyrite forms cubes « ank 10.0%» ‹ @ 7.00 S0 30° › ‹ @ 34.30 S1 40.00° › ‹ @ 72.90 S0 45° › ‹ @ 81.80 S1 30.00° › ‹ @ 92.94 S1 35.00° › ‹ @ 117.40 S1 30.00° › ‹ @ 135.60 S0 65° › ‹ @ 147.50 S0 55° › Quartz ‹ @ 6.30 QV2 20° 1.5cm › ‹ @ 9.90 QV2 28° 0.3cm › ‹ @ 14.68 QV3 22° 77.0cm, chalcopyrite, galena, sphalerite › ‹ @ 14.68 sph 3% 0.5-15.0mm › ‹ @ 14.68 gal 1.0% › ‹ @ 16.07 QV3 20° 1.5cm › ‹ @ 58.36 QV2 30° 0.8cm › ‹ @ 78.60 QV3 65° 2.2cm, gal, sphal. › ‹ @ 78.60 gal 0.2% › ‹ @ 78.60 sph 0.2% › ‹ @ 83.40 QV3 48° 2.5cm › ‹ @ 83.40 gal 0.2% › ‹ @ 83.40 sph 0.2% › ‹ @ 91.66 QV3 35° 5.2cm › ‹ @ 91.66 gal 0.2% › ‹ @ 109.73 QV3 20° 3.5cm › ‹ @ 109.73 gal 1.0% › ‹ @ 109.73 cpy 0.2% › ‹ @ 124.78 QV3 30° 58.0cm › ‹ @ 124.78 sph 0.2% › ‹ @ 129.45 QV3 15° 0.6cm › ‹ @ 129.45 sph 0.2% › ‹ @ 132.00 QV3 30° 0.4cm › ‹ @ 132.00 sph 0.2% › Faults ‹ @ 20.25 FZ 68° 260.0cm, 2.3m lost core › ‹ @ 23.40 FZ 0° 250.0cm, 2.3m lost core again › ‹ @ 26.45 FZ 38° 8.0cm, clay, rock grind › ‹ @ 28.30 FZ 45° 70.0cm, clay, rock grind › ‹ @ 30.00 FZ 0° 150.0cm, no readable angle › ‹ @ 31.95 FZ 0° 10.0cm, clay, rock grind; no readable angle › ‹ @ 37.75 FZ 20° 75.0cm, clay, rock grind, schistose › ‹ @ 45.00 FZ 10° 130.0cm, gouge, rock grind, rubble › ‹ @ 63.35 FZ 20° 125.0cm, clay , rock grind, schistose rubble › ‹ @ 73.08 FZ 58° 3.5cm, gouge, grind › ‹ @ 77.85 FZ 30° 40.0cm, clay, rock grind, schistose › ‹ @ 80.40 FZ 0° 85.0cm, no readable angle, gouge, rock grind › ‹ @ 87.40 FZ 10° 130.0cm, low angle, clay and rock grind › ‹ @ 95.88 FZ 60° 28.0cm, gouge, rock grind ›	VA10102780	I089606	5.5	7	0.09
			VA10102780	I089607	7	8.5	0.11
			VA10102780	I089608	8.5	10	0.11
			VA10102780	I089609	10	11.5	0.32
			VA10102780	I089611	11.5	13	0.15
			VA10102780	I089612	13	14.25	0.025
			VA10102780	I089613	14.25	16	0.05
			VA10102780	I089614	16	17.5	0.59
			VA10102780	I089615	17.5	19	0.14
15							
20			VA10102780	I089617	19	23	0.025
25			VA10102780	I089618	23	26.5	0.06
			VA10102780	I089619	26.5	28	0.06
30			VA10102780	I089620	28	31.5	0.025
			VA10102780	I089621	31.5	33	0.14
35			VA10102780	I089623	33	34.5	0.1
			VA10102780	I089624	34.5	36	0.11
			VA10102780	I089625	36	38	0.05
40			VA10102780	I089626	38	39.5	0.28
			VA10102780	I089627	39.5	41	0.025
			VA10102780	I089629	41	42.5	0.025
			VA10102780	I089630	42.5	44	0.025
45			VA10102780	I089631	44	46	0.025
			VA10102780	I089632	46	47.5	0.025
			VA10102780	I089633	47.5	49	0.025
			VA10102780	I089634	49	50.5	0.025

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	Geochemistry				
55	Cat.2 Argillite	Cat 2 Argillite - mainly med to dk grey/black, fine to med grained, graphitic, with lighter felsic lenses, boudins and broken fragments showing the deformation that has taken place. Upper 11m has 15% lt to med grey, poorly banded siltstone layers. Unit is rubbly, especially where schistose. « py 1.5% 0.5-12.0mm» Note - pyrite forms cubes « ank 10.0%» ‹ @ 7.00 S0 30° › ‹ @ 34.30 S1 40.00° › ‹ @ 72.90 S0 45° › ‹ @ 81.80 S1 30.00° › ‹ @ 92.94 S1 35.00° › ‹ @ 117.40 S1 30.00° › ‹ @ 135.60 S0 65° › ‹ @ 147.50 S0 55° › Quartz ‹ @ 6.30 QV2 20° 1.5cm › ‹ @ 9.90 QV2 28° 0.3cm › ‹ @ 14.68 QV3 22° 77.0cm, chalcopyrite, galena, sphalerite › ‹ @ 14.68 sph 3% 0.5-15.0mm › ‹ @ 14.68 gal 1.0% › ‹ @ 16.07 QV3 20° 1.5cm › ‹ @ 58.36 QV2 30° 0.8cm › ‹ @ 78.60 QV3 65° 2.2cm, gal, sphal. › ‹ @ 78.60 gal 0.2% › ‹ @ 78.60 sph 0.2% › ‹ @ 83.40 QV3 48° 2.5cm › ‹ @ 83.40 gal 0.2% › ‹ @ 83.40 sph 0.2% › ‹ @ 91.66 QV3 35° 5.2cm › ‹ @ 91.66 gal 0.2% › ‹ @ 109.73 QV3 20° 3.5cm › ‹ @ 109.73 gal 1.0% › ‹ @ 109.73 cpy 0.2% › ‹ @ 124.78 QV3 30° 58.0cm › ‹ @ 124.78 sph 0.2% › ‹ @ 129.45 QV3 15° 0.6cm › ‹ @ 129.45 sph 0.2% › ‹ @ 132.00 QV3 30° 0.4cm › ‹ @ 132.00 sph 0.2% › Faults ‹ @ 20.25 FZ 68° 260.0cm, 2.3m lost core › ‹ @ 23.40 FZ 0° 250.0cm, 2.3m lost core again › ‹ @ 26.45 FZ 38° 8.0cm, clay, rock grind › ‹ @ 28.30 FZ 45° 70.0cm, clay, rock grind › ‹ @ 30.00 FZ 0° 150.0cm, no readable angle › ‹ @ 31.95 FZ 0° 10.0cm, clay, rock grind; no readable angle › ‹ @ 37.75 FZ 20° 75.0cm, clay, rock grind, schistose › ‹ @ 45.00 FZ 10° 130.0cm, gouge, rock grind, rubble › ‹ @ 63.35 FZ 20° 125.0cm, clay , rock grind, schistose rubble › ‹ @ 73.08 FZ 58° 3.5cm, gouge, grind › ‹ @ 77.85 FZ 30° 40.0cm, clay, rock grind, schistose › ‹ @ 80.40 FZ 0° 85.0cm, no readable angle, gouge, rock grind › ‹ @ 87.40 FZ 10° 130.0cm, low angle, clay and rock grind › ‹ @ 95.88 FZ 60° 28.0cm, gouge, rock grind ›	VA10102780	I089634	49	50.5	0.025
			VA10102780	I089635	50.5	52	0.025
			VA10102780	I089636	52	53.5	0.025
			VA10102780	I089638	53.5	55	0.025
			VA10102780	I089639	55	57	0.025
			VA10102780	I089640	57	58.5	0.025
			VA10102780	I089641	58.5	60	0.025
60			VA10102780	I089642	60	61.5	0.025
			VA10102780	I089643	61.5	63	0.025
			VA10102780	I089645	63	65.5	0.025
65			VA10102780	I089646	65.5	67	0.025
			VA10102780	I089647	67	69	0.025
			VA10102780	I089648	69	70.5	0.025
70			VA10102780	I089649	70.5	72	0.025
			VA10102780	I089651	72	73.5	0.025
75			VA10102780	I089652	73.5	76	0.16
			VA10102780	I089653	76	77.5	0.025
			VA10102780	I089654	77.5	79	0.07
80			VA10102780	I089655	79	81	0.05
			VA10102780	I089657	81	82.5	0.025
			VA10102780	I089658	82.5	84	0.05
85			VA10102780	I089659	84	85.5	0.025
			VA10102780	I089661	85.5	87	0.09
			VA10102780	I089662	87	88.5	0.025
			VA10102780	I089663	88.5	90	0.025
90			VA10102780	I089664	90	91.5	0.025
			VA10102780	I089665	91.5	93	0.11
			VA10102780	I089666	93	94.5	0.025
95			VA10102780	I089668	94.5	96	0.05
			VA10102780	I089669	96	97	0.06
	Fault	Fault Zone in Argillites - Shades of grey to black gouge and clay/rock grind with schistose sections and rubble (the more massive siltstone layers are the larger, more competent pieces). « py 4.5% 0.5-8.0mm» « ank 10.0%» ‹ @ 102.75 S1 50.00° › Quartz ‹ @ 109.73 QV3 20° 3.5cm › ‹ @ 109.73 gal 1.0% › ‹ @ 109.73 cpy 0.2% › ‹ @ 100.66 gal 0.2% › Faults ‹ @ 98.40 FZ 0° 200.0cm, clay, rock grind › ‹ @ 101.95 FZ 15° 50.0cm, clay, rock grind › ‹ @ 105.00 FZ 5° 250.0cm, subparallels CA, clay and rock grind › ‹ @ 107.25 FZ 60° 185.0cm, gouge, rock grind ›	VA10102780	I089670	97	99.5	0.23

Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Geology

Depth At | Rocktype | Description

Fault Zone in Argillites - Shades of grey to black gouge and clay/rock grind with schistose sections and rubble (the more massive siltstone layers are the larger, more competent pieces).

« py 4.5% 0.5-8.0mm» « ank 10.0%»
‹ @ 102.75 S1 50.00° ›

Quartz
‹ @ 109.73 QV3 20° 3.5cm › ‹ @ 109.73 gal 1.0% › ‹ @ 109.73 cpy 0.2% ›
‹ @ 100.66 gal 0.2% ›

Faults
‹ @ 98.40 FZ 0° 200.0cm, clay, rock grind ›
‹ @ 101.95 FZ 15° 50.0cm, clay, rock grind ›
‹ @ 105.00 FZ 5° 250.0cm, subparallels CA, clay and rock grind ›
‹ @ 107.25 FZ 60° 185.0cm, gouge, rock grind ›

Fault

Cat 2 Argillite with lesser siltstone interbeds, mainly as fragments, boudins, untraceable. Unit same as at beginning of hole.

Note about pyrite - Up until here this hole mainly had cubes but at 174 pyrite shows breakage, grinding out along fabric planes, as witnessed in the holes at the main zone.
« py 3.5% 0.5-14.0mm»
« ank 15.0%»
‹ @ 121.70 S0 30° › ‹ @ 131.85 S1 58.00° › ‹ @ 144.00 S1 40.00° › ‹ @ 159.00 S1 15.00° › ‹ @ 166.60 S0 35° › ‹ @ 182.50 S0 15° › ‹ @ 204.75 S0 25° ›

Quartz and minerals
‹ @ 124.78 QV3 30° 58.0cm › ‹ @ 124.78 sph 0.2% ›
‹ @ 129.45 QV3 15° 0.6cm › ‹ @ 129.45 sph 0.2% ›
‹ @ 132.00 QV3 30° 0.4cm › ‹ @ 132.00 sph 0.2% ›
‹ @ 136.28 QV3 30° 25.0cm, sph. › ‹ @ 136.28 sph 0.2% › ‹ @ 146.90 QV3 25° 18.0cm, gal. › ‹ @ 146.90 gal 0.2% ›
‹ @ 164.26 QV3 30° 3.0cm, sph, cpy. › ‹ @ 164.26 sph 2.0% 0.5-6.0mm › ‹ @ 164.26 cpy 0.2% ›
‹ @ 163.62 cpy 0.2% › ‹ @ 164.91 sph 0.2% › ‹ @ 175.48 QV3 20° 1.1cm, sph › ‹ @ 175.48 sph 0.2% ›
‹ @ 176.92 sph 0.2% › ‹ @ 178.95 sph 0.2% › ‹ @ 184.88 sph 0.2% ›
‹ @ 185.44 QV3 65° 1.4cm ›
‹ @ 193.56 QV3 70° 0.9cm › ‹ @ 206.03 QV3 30° 2.2cm, 2 veins, sph › ‹ @ 206.03 sph 0.2% ›

Faults
Rare schistose, rubbly section but no clayey/gouge.

Cat.2 Argillite

Geochemistry

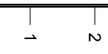
CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
VA10102780	I089670	97	99.5	0.23
VA10102780	I089671	99.5	101	0.11
VA10102780	I089672	101	102.5	0.23
VA10102780	I089673	102.5	104	0.15
VA10102780	I089674	104	106.5	0.08
VA10102780	I089675	106.5	108	0.025
VA10102780	I089676	108	109.5	0.08
VA10102780	I089678	109.5	112	0.17
VA10102780	I089679	112	113.5	0.1
VA10102780	I089680	113.5	115	0.025
VA10102780	I089681	115	116.5	0.025
VA10102780	I089683	116.5	118	0.025
VA10102780	I089684	118	119.5	0.33
VA10102780	I089685	119.5	121	0.025
VA10102780	I089686	121	122.5	0.05
VA10102780	I089687	122.5	124	0.82
VA10102780	I089689	124	125.5	2.57
VA10102780	I089690	125.5	127	0.35
VA10102780	I089691	127	128.5	0.07
VA10102780	I089692	128.5	130	0.17
VA10102780	I089693	130	131.5	0.35
VA10102780	I089694	131.5	133	0.23
VA10102780	I089695	133	134.5	0.26
VA10102780	I089697	134.5	136	0.12
VA10102780	I089698	136	137.5	0.54
VA10102780	I089699	137.5	139	0.025
VA10102780	I089700	139	140.5	0.025
VA10102780	I089701	140.5	142	0.025
VA10102780	I089703	142	143.5	0.025
VA10102780	I089704	143.5	145	0.025
VA10102780	I089705	145	146.5	0.025
VA10102780	I089706	146.5	148	0.08
VA10102780	I089708	148	149.5	0.025

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
150	Cat.2 Argillite	Cat 2 Argillite with lesser siltstone interbeds, mainly as fragments, boudins, untraceable. Unit same as at beginning of hole. Note about pyrite - Up until here this hole mainly had cubes but at 174 pyrite shows breakage, grinding out along fabric planes, as witnessed in the holes at the main zone. « py 3.5% 0.5-14.0mm» « ank 15.0%» ‹ @ 121.70 S0 30° › ‹ @ 131.85 S1 58.00° › ‹ @ 144.00 S1 40.00° › ‹ @ 159.00 S1 15.00° › ‹ @ 166.60 S0 35° › ‹ @ 182.50 S0 15° › ‹ @ 204.75 S0 25° › Quartz and minerals ‹ @ 124.78 QV3 30° 58.0cm › ‹ @ 124.78 sph 0.2% › ‹ @ 129.45 QV3 15° 0.6cm › ‹ @ 129.45 sph 0.2% › ‹ @ 132.00 QV3 30° 0.4cm › ‹ @ 132.00 sph 0.2% › ‹ @ 136.28 QV3 30° 25.0cm, sph. › ‹ @ 136.28 sph 0.2% › ‹ @ 146.90 QV3 25° 18.0cm, gal. › ‹ @ 146.90 gal 0.2% › ‹ @ 164.26 QV3 30° 3.0cm, sph, cpy. › ‹ @ 164.26 sph 2.0% 0.5-6.0mm › ‹ @ 164.26 cpy 0.2% › ‹ @ 163.62 cpy 0.2% › ‹ @ 164.91 sph 0.2% › ‹ @ 175.48 QV3 20° 1.1cm, sph › ‹ @ 175.48 sph 0.2% › ‹ @ 176.92 sph 0.2% › ‹ @ 178.95 sph 0.2% › ‹ @ 184.88 sph 0.2% › ‹ @ 185.44 QV3 65° 1.4cm › ‹ @ 193.56 QV3 70° 0.9cm › ‹ @ 206.03 QV3 30° 2.2cm, 2 veins, sph › ‹ @ 206.03 sph 0.2% › Faults Rare schistose, rubbly section but no clayey/gouge.	VA10102780	I089708	148	149.5	0.025
			VA10102780	I089709	149.5	151	0.025
			VA10102780	I089710	151	152.5	0.025
			VA10102780	I089711	152.5	154	0.025
155			VA10102780	I089712	154	155.5	0.025
			VA10102780	I089713	155.5	157	0.025
			VA10102780	I089714	157	158.5	0.025
			VA10102780	I089716	158.5	160	0.025
160			VA10102780	I089717	160	161.5	0.025
			VA10102780	I089718	161.5	163	0.025
			VA10102780	I089719	163	164.5	0.025
165			VA10102780	I089720	164.5	166	0.025
			VA10102780	I089721	166	167.5	0.025
			VA10102780	I089723	167.5	169	0.025
170			VA10102780	I089724	169	170.5	0.025
			VA10102780	I089725	170.5	172	0.025
			VA10102780	I089726	172	173.5	0.025
			VA10102780	I089727	173.5	175	0.025
175			VA10102780	I089728	175	176.5	0.12
			VA10102780	I089730	176.5	178	0.05
			VA10102780	I089731	178	179.5	0.08
180			VA10102780	I089732	179.5	181	0.05
			VA10102780	I089733	181	182.5	0.025
			VA10102780	I089734	182.5	184	0.025
185			VA10102780	I089735	184	185.5	0.05
			VA10102780	I089737	185.5	187	0.025
			VA10102780	I089738	187	188.5	0.025
190			VA10102780	I089739	188.5	190	0.47
			VA10102780	I089740	190	191.5	0.51
			VA10102780	I089741	191.5	193	0.13
			VA10102780	I089742	193	194.5	0.13
195			VA10102780	I089744	194.5	196	0.11
			VA10102780	I089745	196	197.5	0.18
			VA10102780	I089746	197.5	199	0.025

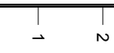
10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
200	Cat.2 Argillite	Cat 2 Argillite with lesser siltstone interbeds, mainly as fragments, boudins, untraceable. Unit same as at beginning of hole.	VA10102780	I089746	197.5	199	0.025
		Note about pyrite - Up until here this hole mainly had cubes but at 174 pyrite shows breakage, grinding out along fabric planes, as witnessed in the holes at the main zone. « py 3.5% 0.5-14.0mm» « ank 15.0%» ‹ @ 121.70 S0 30° › ‹ @ 131.85 S1 58.00° › ‹ @ 144.00 S1 40.00° › ‹ @ 159.00 S1 15.00° › ‹ @ 166.60 S0 35° › ‹ @ 182.50 S0 15° › ‹ @ 204.75 S0 25° ›	VA10102780	I089747	199	200.5	0.025
		Quartz and minerals ‹ @ 124.78 QV3 30° 58.0cm › ‹ @ 124.78 sph 0.2% › ‹ @ 129.45 QV3 15° 0.6cm › ‹ @ 129.45 sph 0.2% › ‹ @ 132.00 QV3 30° 0.4cm › ‹ @ 132.00 sph 0.2% › ‹ @ 136.28 QV3 30° 25.0cm, sph. › ‹ @ 136.28 sph 0.2% › ‹ @ 146.90 QV3 25° 18.0cm, gal. › ‹ @ 146.90 gal 0.2% › ‹ @ 164.26 QV3 30° 3.0cm, sph, cpy. › ‹ @ 164.26 sph 2.0% 0.5-6.0mm › ‹ @ 164.26 cpy 0.2% › ‹ @ 163.62 cpy 0.2% › ‹ @ 164.91 sph 0.2% › ‹ @ 175.48 QV3 20° 1.1cm, sph › ‹ @ 175.48 sph 0.2% › ‹ @ 176.92 sph 0.2% › ‹ @ 178.95 sph 0.2% › ‹ @ 184.88 sph 0.2% › ‹ @ 185.44 QV3 65° 1.4cm › ‹ @ 193.56 QV3 70° 0.9cm › ‹ @ 206.03 QV3 30° 2.2cm, 2 veins, sph › ‹ @ 206.03 sph 0.2% ›	VA10102780	I089748	200.5	202	0.025
205			VA10102780	I089750	202	203.5	0.025
			VA10101119	I089751	203.5	205	0.06
			VA10101119	I089752	205	206.5	0.025
		Faults Rare schistose, rubbly section but no clayey/gouge.	VA10101119	I089753	206.5	208	0.025
		Siltstone and Argillite, Cat 1 in places but retains a large percentage of original bedding and lamination. Rock is light to dk greys, fine to med grained, graphitic, with a fair amt of bedding close to CA. Bull quartz (and base metals) not present. Fault movement, rubble zones.	VA10101119	I089754	208	209.5	0.025
210		Thin, irregular calcite veins react to acid from 214 to 220m.	VA10101119	I089756	209.5	211	0.025
		« py 1.0% 0.5-3.0mm» pyrite still shows slight crush, elongation « ank 5.0%» ankerite only as rhombs, not the finer specks. Notable decrease in ankerite.	VA10101119	I089757	211	212.5	0.025
		‹ @ 211.40 S0 22° › ‹ @ 223.50 S0 30° › ‹ @ 229.85 S0 30° › ‹ @ 241.00 S0 15° › ‹ @ 248.68 S1 30.00° › ‹ @ 257.00 S0 8° ›	VA10101119	I089758	212.5	214	0.025
		Quartz ‹ @ 216.60 QV2 30° 0.4cm ›	VA10101119	I089759	214	215.5	0.025
215		Faults ‹ @ 218.35 FZ 18° 2.5cm, clay, rock grind, schistose › ‹ @ 239.00 FZ 8° 80.0cm, gouge, clay, rock grind › ‹ @ 244.00 FZ 20° 20.0cm, clay, rubble › ‹ @ 245.40 FZ 5° 20.0cm, clay, rock grind ›	VA10101119	I089760	215.5	217	0.025
			VA10101119	I089761	217	218.5	0.025
			VA10101119	I089763	218.5	220	0.025
220			VA10101119	I089764	220	221.5	0.025
			VA10101119	I089765	221.5	223	0.025
			VA10101119	I089766	223	224.5	0.025
225			VA10101119	I089767	224.5	226	0.025
	Siltstone, Argillite		VA10101119	I089768	226	227.5	0.025
			VA10101119	I089770	227.5	229	0.025
230			VA10101119	I089771	229	230.5	0.025
			VA10101119	I089772	230.5	232	0.025
			VA10101119	I089773	232	233.5	0.025
235			VA10101119	I089774	233.5	235	0.025
			VA10101119	I089775	235	236.5	0.025
			VA10101119	I089777	236.5	238	0.025
240			VA10101119	I089778	238	239.5	0.025
			VA10101119	I089779	239.5	241	0.025
			VA10101119	I089780	241	242.5	0.07
			VA10101119	I089781	242.5	244	0.025
245			VA10101119	I089782	244	245.5	0.05
			VA10101119	I089784	245.5	247	0.025
			VA10101119	I089785	247	248.5	0.025



10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250	Siltstone, Argillite	Siltstone and Argillite, Cat 1 in places but retains a large percentage of original bedding and lamination. Rock is light to dk greys, fine to med grained, graphitic, with a fair amt of bedding close to CA. Bull quartz (and base metals) not present. Fault movement, rubble zones. Thin, irregular calcite veins react to acid from 214 to 220m. « py 1.0% 0.5-3.0mm» pyrite still shows slight crush, elongation « ank 5.0%» ankerite only as rhombs, not the finer specks. Notable decrease in ankerite. ‹ @ 211.40 S0 22° › ‹ @ 223.50 S0 30° › ‹ @ 229.85 S0 30° › ‹ @ 241.00 S0 15° › ‹ @ 248.68 S1 30.00° › ‹ @ 257.00 S0 8° › Quartz ‹ @ 216.60 QV2 30° 0.4cm › Faults ‹ @ 218.35 FZ 18° 2.5cm, clay, rock grind, schistose › ‹ @ 239.00 FZ 8° 80.0cm, gouge, clay, rock grind › ‹ @ 244.00 FZ 20° 20.0cm, clay, rubble › ‹ @ 245.40 FZ 5° 20.0cm, clay, rock grind ›	VA10101119	I089785	247	248.5	0.025
			VA10101119	I089786	248.5	250	0.025
			VA10101119	I089787	250	251.5	0.025
			VA10101119	I089789	251.5	253	0.025
			VA10101119	I089790	253	254.5	0.025
255			VA10101119	I089791	254.5	256	0.025
			VA10101119	I089792	256	257.5	0.025
			VA10101119	I089793	257.5	259	0.025
260	Cat.2 Argillite	Cat 2 Argillite - dark grey to black, fine grained with lighter grey irregular thin bands, lenses and rolled boudins. The proportion of lighter component has decreased from the usual, with darker mudstone more dominant. Irregular, thin fracture filling felsic veinlets thruout, minor amt react to acid. « py 6.0% 0.5-3.0mm» pyrite is still crushed, elongated along fabric. « ank 3.0%» ankerite as infrequent rhombs in muds - appears to be missing the finer grained ankerite collections. Also of note is the rare thin calcite veinlet here. ‹ @ 271.75 S1 10.00° › ‹ @ 264.72 QV3 30° 9.0cm, angle est, ptygmatic › ‹ @ 265.58 QV3 50° 4.0cm, 3 to 4 veins, diffuse, milky white, diff from regular bull, sph, cpy, 2 possible VG's but just ghosts on core surface › ‹ @ 265.58 sph 0.2% › ‹ @ 265.58 cpy 0.2% › ‹ @ 265.84 QV3 0° 3.0cm, no angle taken, ptygmatic, 2 to 3 veins , sph › ‹ @ 265.84 sph 0.2% › ‹ @ 275.48 QV3 72° 7.5cm ›	VA10101119	I089794	259	260.5	0.08
			VA10101119	I089795	260.5	262	0.05
			VA10101119	I089797	262	263.5	0.08
265			VA10101119	I089798	263.5	265	0.19
			VA10101119	I089799	265	266.5	0.13
			VA10101119	I089800	266.5	268	0.025
			VA10101119	I089801	268	269.5	0.025
270			VA10101119	I089803	269.5	271	0.22
			VA10101119	I089804	271	272.5	0.05
			VA10101119	I089805	272.5	274	0.11
275			VA10101119	I089806	274	276	0.06
			VA10101119	I089807	276	277	0.05
			VA10101119	I089808	277	278	0.06
	Cat.2 Coarse Crystal Tuff, Argillite	Interbanded coarse crystal tuff and argillite (60/40) - Argillite is as in unit before. Contacts between the two are irregular, possibly low angle. Tuff appears to be more competent so the argillite has reworked around these blocks or beds. Tuff is med grey, fine to med grained with coarser plag, lesser quartz, some rounding of edges. Minor black frags but not enough to label "lithic". A very minor sericite alteration, possibly attacking the ankerite however acid reaction rare. « py 2.0% 0.5-3.0mm» « ank 5.0%» « ser 3%» ‹ @ 281.62 QV3 60° 1.2cm › ‹ @ 281.88 QV3 65° 0.8cm › ‹ @ 282.05 QV3 45° 0.9cm ›	VA10101119	I089809	278	279.5	0.025
280			VA10101119	I089811	279.5	281	0.09
			VA10101119	I089812	281	282	0.08
			VA10101119	I089813	282	283.5	0.025
	Cat.2 Argillite	Cat 2 Argillite - same unit as 259m to 278m. 297.45m - green tinged chrome mica band 9cm. 327.88 - as above, 8cm. « py 3.0% 0.5-5.0mm» « ank 7.0%» ‹ @ 287.00 S1 40.00° › ‹ @ 293.70 S1 30.00° › ‹ @ 304.30 S1 7.00° › ‹ @ 316.70 S1 60.00° › ‹ @ 330.80 S1 35.00° › ‹ @ 338.40 S1 45.00° › Along of cataclastic movement - next "possibly" trustworthy one: ‹ @ 357.00 S1 60.00° › Then get into the more massive volcanics, no definitive banding. Quartz ‹ @ 321.28 QV3 72° 7.5cm › ‹ @ 344.50 QV2 22° 0.3cm, cpy › ‹ @ 344.50 cpy 0.2% › ‹ @ 345.60 QV2 60° 0.6cm › ‹ @ 349.53 QV2 30° 0.8cm › ‹ @ 350.56 QV3 58° 0.6cm › ‹ @ 351.92 QV2 55° 0.4cm › Faults ‹ @ 289.50 FZ 65° 12.0cm, gouge, rock grind › ‹ @ 299.33 FZ 40° 7.0cm, clay, rock grind, schistose › ‹ @ 310.00 FZ 0° 70.0cm, clay, rock grind, rubble, no angle › ‹ @ 325.65 FZ 5° 45.0cm, clay, rock grind, schistose › ‹ @ 337.00 FZ 45° 20.0cm, clay, rock grind, rubble › ‹ @ 344.42 FZ 65° 50.0cm, clay, rock grind, rubble ›	VA10101119	I089814	283.5	285	0.025
285			VA10101119	I089815	285	286.5	0.06
			VA10101119	I089817	286.5	288	0.08
			VA10101119	I089818	288	289.5	0.1
290			VA10101119	I089819	289.5	291	0.025
			VA10101119	I089820	291	292.5	0.09
			VA10101119	I089822	292.5	294	0.025
295			VA10101119	I089823	294	295.5	0.025
			VA10101119	I089824	295.5	297	0.025
			VA10101119	I089825	297	298.5	0.025



10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Geology

Depth At | Rocktype | Description

Cat 2 Argillite - same unit as 259m to 278m.
297.45m - green tinged chrome mica band 9cm.
327.88 - as above, 8cm.

« py 3.0% 0.5-5.0mm» « ank 7.0%»
‹ @ 287.00 S1 40.00° › ‹ @ 293.70 S1 30.00° › ‹ @ 304.30 S1 7.00° ›
‹ @ 316.70 S1 60.00° › ‹ @ 330.80 S1 35.00° › ‹ @ 338.40 S1 45.00° ›
Along of cataclastic movement - next "possibly" trustworthy one:
‹ @ 357.00 S1 60.00° ›
Then get into the more massive volcanics, no definitive banding.

Quartz
‹ @ 321.28 QV3 72° 7.5cm › ‹ @ 344.50 QV2 22° 0.3cm, cpy › ‹ @ 344.50 cpy 0.2% › ‹ @ 345.60 QV2 60° 0.6cm › ‹ @ 349.53 QV2 30° 0.8cm › ‹ @ 350.56 QV3 58° 0.6cm › ‹ @ 351.92 QV2 55° 0.4cm ›

Faults
‹ @ 289.50 FZ 65° 12.0cm, gouge, rock grind ›
‹ @ 299.33 FZ 40° 7.0cm, clay, rock grind, schistose ›
‹ @ 310.00 FZ 0° 70.0cm, clay, rock grind, rubble, no angle ›
‹ @ 325.65 FZ 5° 45.0cm, clay, rock grind, schistose ›
‹ @ 337.00 FZ 45° 20.0cm, clay, rock grind, rubble ›
‹ @ 344.42 FZ 65° 50.0cm, clay, rock grind, rubble ›

300
305
310
315
320
325
330
335
340
345

Cat.2 Argillite

Geochemistry

CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
VA10101119	I089825	297	298.5	0.025
VA10101119	I089826	298.5	300	0.025
VA10101119	I089827	300	301.5	0.025
VA10101119	I089829	301.5	303	0.025
VA10101119	I089830	303	304.5	0.025
VA10101119	I089831	304.5	306	0.025
VA10101119	I089832	306	307.5	0.07
VA10101119	I089833	307.5	308.5	0.11
VA10101119	I089834	308.5	310.5	0.025
VA10101119	I089835	310.5	312	0.08
VA10101119	I089836	312	313.5	0.1
VA10101119	I089837	313.5	315	0.23
VA10101119	I089839	315	316.5	0.27
VA10101119	I089840	316.5	318	0.38
VA10101119	I089841	318	319.5	0.25
VA10101119	I089842	319.5	321	0.53
VA10101119	I089844	321	322.5	0.22
VA10101119	I089845	322.5	324	0.08
VA10104298	I089846	324	325.5	0.1
VA10104298	I089848	325.5	327	0.34
VA10104298	I089849	327	328.5	0.11
VA10104298	I089850	328.5	330	0.22
VA10104298	I089851	330	331.5	0.16
VA10104298	I089852	331.5	333	0.09
VA10104298	I089853	333	334.5	0.19
VA10104298	I089854	334.5	336	0.21
VA10104298	I089855	336	337.5	0.19
VA10104298	I089857	337.5	339	0.13
VA10104298	I089858	339	340.5	0.025
VA10104298	I089859	340.5	342	0.025
VA10104298	I089860	342	343.5	0.025
VA10104298	I089862	343.5	345	0.05
VA10104298	I089863	345	346.5	0.18
VA10104298	I089864	346.5	348	0.07

1 2

Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
350	Cat.2 Argillite	Cat 2 Argillite - same unit as 259m to 278m. 297.45m - green tinged chrome mica band 9cm. 327.88 - as above, 8cm. « py 3.0% 0.5-5.0mm» « ank 7.0%» ‹ @ 287.00 S1 40.00° › ‹ @ 293.70 S1 30.00° › ‹ @ 304.30 S1 7.00° › ‹ @ 316.70 S1 60.00° › ‹ @ 330.80 S1 35.00° › ‹ @ 338.40 S1 45.00° › Along of cataclastic movement - next "possibly" trustworthy one: ‹ @ 357.00 S1 60.00° › Then get into the more massive volcanics, no definitive banding. Quartz ‹ @ 321.28 QV3 72° 7.5cm › ‹ @ 344.50 QV2 22° 0.3cm, cpy › ‹ @ 344.50 cpy 0.2% › ‹ @ 345.60 QV2 60° 0.6cm › ‹ @ 349.53 QV2 30° 0.8cm › ‹ @ 350.56 QV3 58° 0.6cm › ‹ @ 351.92 QV2 55° 0.4cm ›	VA10104298	I089864	346.5	348	0.07
			VA10104298	I089865	348	349.5	0.025
			VA10104298	I089866	349.5	351	0.025
			VA10104298	I089867	351	352.5	0.025
			VA10104298	I089869	352.5	353.7	0.025
355	Cat.2 Coarse Crystal Tuff	Faults ‹ @ 289.50 FZ 65° 12.0cm, gouge, rock grind › ‹ @ 299.33 FZ 40° 7.0cm, clay, rock grind, schistose › ‹ @ 310.00 FZ 0° 70.0cm, clay, rock grind, rubble, no angle › ‹ @ 325.65 FZ 5° 45.0cm, clay, rock grind, schistose › ‹ @ 337.00 FZ 45° 20.0cm, clay, rock grind, rubble › ‹ @ 344.42 FZ 65° 50.0cm, clay, rock grind, rubble ›	VA10104298	I089870	353.7	355	0.025
			VA10104298	I089871	355	356.5	0.025
			VA10104298	I089872	356.5	358	0.025
		Cat 2 Coarse Crystal Tuffs - minor interbeds and slicks of graphitic argillite - this tends to reveal the cataclastic movement although the tuff does have a jigsaw effect itself. Very minor sericite effect to the rhombs but not enough to affect label. « ank 10.0%» rhombs, minor specks « py 1.5% 0.5-4.0mm» Quartz ‹ @ 356.70 QV2 57° 2.7cm › ‹ @ 357.38 QV2 75° 0.9cm › Fault‹ @ 357.64 FZ 50° 40.0cm, clay, rock grind, rubble, angle approx ›	VA10104298	I089873	358	359.5	0.06
360			VA10104298	I089874	359.5	361	0.025
			VA10104298	I089875	361	362.5	0.025
		Altered volcanic rock - andesite - mainly massive, fine to med grained, light cream-green with zones of more chlorite rich but these are minor with only up to 3 to 5% chlorite. Irreg felsic veinlets shoot thru and form 2 to 3% of unit. Only the rare one will react to acid. Even though this unit is massive there doesn't appear to be deformation to any extent. « py 0.3% 0.5-2.0mm» « ank 10.0%» « chl 2%» « ser 40%»	VA10104298	I089877	362.5	364	0.025
365			VA10104298	I089878	364	365.5	0.025
		Quartz ‹ @ 358.95 QV2 40° 0.7cm › ‹ @ 367.52 QV2 20° 0.5cm › ‹ @ 370.90 QV2 12° 0.7cm › ‹ @ 371.72 QV2 18° 2.2cm › ‹ @ 374.14 QV2 60° 1.8cm › ‹ @ 374.40 QV2 50° 4.1cm › ‹ @ 378.05 QV3 32° 9.5cm › ‹ @ 378.78 QV3 20° 3.2cm › ‹ @ 381.79 QV2 62° 1.2cm › ‹ @ 383.84 QV2 30° 1.2cm › ‹ @ 285.10 QV2 60° 4.0cm › Fault ‹ @ 372.35 FZ 50° 2.0cm, clay , rock grind ›	VA10104298	I089879	365.5	367	0.025
			VA10104298	I089880	367	368.5	0.025
370			VA10104298	I089881	368.5	370	0.05
			VA10104298	I089882	370	371.5	0.025
			VA10104298	I089884	371.5	373	0.025
			VA10104298	I089885	373	374.5	0.025
375			VA10104298	I089886	374.5	376	0.12
			VA10104298	I089888	376	377.5	0.11
			VA10104298	I089889	377.5	379	0.11
380			VA10104298	I089890	379	380.5	0.025
			VA10104298	I089891	380.5	382	0.025
			VA10104298	I089892	382	383.5	0.29
			VA10104298	I089893	383.5	385.1	0.025
385		Jigsaw Volcanics - could be labelled Cat 2 Crystal Tuff. Unit is fine to med grained, med grey, highly deformed with small blocks/lenses of original rock averaging 3cm x 4cm, with a thin envelope of darker (chlorite?) coating each deformed piece. There is rare graphite on some slicks but not the norm. The last 2m altered 40%sericite - possible boudin. « py 2.0% 0.5-1.5mm» « ank 12.0%» ‹ @ 387.51 QV2 62° 0.6cm › ‹ @ 391.69 QV2 30° 1.0cm › ‹ @ 393.40 QV3 50° 20.0cm ›	VA10104298	I089894	385.1	386.5	0.025
			VA10104298	I089895	386.5	388	0.05
			VA10104298	I089897	388	389.5	0.025
390	Jigsaw Volcanics		VA10104298	I089898	389.5	391	0.025
		Cat 2 Argillite, Siltstone - this rock is more siliceous in composition, grading into the quartzites. Uniformly med to dk grey, fine to med grained, deformed with lenses/boudins of the more felsic to silica rich component with envelopes or matrix of the muddy, graphitic argillite. Rubble sections. I could see this originally as a finely interbedded quartzites and clay/mudstones. « py 2.0% 0.5-6.0mm» fractured but still cubes « ank 12.0%»	VA10104298	I089899	391	392.5	0.025
			VA10104298	I089900	392.5	394	0.025
395			VA10104298	I089902	394	396	0.025
	Cat.2 Argillite, Siltstone	Quartz ‹ @ 396.18 QV2 65° 4.7cm › ‹ @ 402.60 QV3 50° 3.7cm, sph › ‹ @ 402.60 sph 0.2% › ‹ @ 408.26 QV2 80° 1.2cm ›	VA10104298	I089903	396	397.5	0.025

Scale 1:200	Start Depth :347.17	End Depth :396.77	Page No.: 8

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
400	Cat.2 Argillite, Siltstone	Cat 2 Argillite, Siltstone - this rock is more siliceous in composition, grading into the quartzites. Uniformly med to dk grey, fine to med grained, deformed with lenses/boudins of the more felsic to silica rich component with envelopes or matrix of the muddy, graphitic argillite. Rubble sections. I could see this originally as a finely interbedded quartzites and clay/mudstones. « py 2.0% 0.5-6.0mm» fractured but still cubes « ank 12.0%» Quartz ‹ @ 396.18 QV2 65° 4.7cm › ‹ @ 402.60 QV3 50° 3.7cm, sph › ‹ @ 402.60 sph 0.2% › ‹ @ 408.26 QV2 80° 1.2cm ›	VA10104298	I089903	396	397.5	0.025
			VA10104298	I089904	397.5	399	0.07
			VA10104298	I089905	399	400.5	0.025
			VA10104298	I089906	400.5	402	0.16
			VA10104298	I089908	402	403.5	0.1
405			VA10104298	I089909	403.5	405	0.025
			VA10104298	I089910	405	406.5	0.025
			VA10104298	I089911	406.5	408	0.025
			VA10104298	I089912	408	409.5	0.025
410			VA10104298	I089913	409.5	411	0.025
	Fault	Fault zone in sed rocks as in prev unit. Mainly dk grey to black, rubble to schistose rock to gouge sections. « py 3.5% 0.5-3.0mm» ankerite not determined Faults ‹ @ 412.00 FZ 10° 10.0cm, clay, rock grind › ‹ @ 415.15 FZ 25° 15.0cm › gouge, rock grind	VA10104298	I089914	411	413	0.025
415			VA10104298	I089915	413	415.67	0.025
	Quartzite, Crystal Tuffs, Argillite	Mixed argillaceous (muddy) quartzites with lesser crystal tuffs - est. less than 20%. Rock is fine to med grained, lt to dark grey with olive green/black thin argillaceous interbeds. Hard to label cat 1 or 2 but appears to have suffered some movement. Chrome mica-bearing lenses and thin bands present but not more than 3% of unit. « py 0.3% 0.5-1.0mm» « ank 15.0%» « chl 3%» « ser 5%» sericite affects rock to a minor degree, mainly the ankerite. ‹ @ 417.70 S1 58.00° › ‹ @ 425.20 S1 58.00° › ‹ @ 434.55 S1 50.00° › Quartz ‹ @ 428.65 QV3 50° 1.5cm › ‹ @ 431.55 QV3 45° 2.4cm › ‹ @ 431.93 QV3 60° 6.5cm ›	VA10104298	I089916	415.67	417	0.025
			VA10104298	I089918	417	418.5	0.025
420			VA10104298	I089919	418.5	420	0.025
			VA10104298	I089920	420	421.5	0.025
			VA10104298	I089921	421.5	423	0.025
			VA10104298	I089922	423	424.5	0.025
425			VA10104298	I089924	424.5	426	0.025
			VA10104298	I089925	426	427.5	0.025
			VA10104298	I089926	427.5	429	0.06
430			VA10104298	I089927	429	430.5	0.025
			VA10104298	I089928	430.5	432	0.025
			VA10104298	I089930	432	433.5	0.025
			VA10104298	I089931	433.5	435	0.025
435			VA10104298	I089932	435	436	0.025
	Crystal Tuff	Crystal Tuff (quartz feldspar porphyry) - Slightly sericitic altered (10%), lt to med grey with cream to lt green overtones, massive appearance with no fabric or banding. Any possible fabric is faint and questionable if primary? secondary? Lower part of unit is fractured, rubbly. « py 0.2% 0.2-0.5mm» « ank 20.0%» « ser 10%» Quartz Lower metre has massive quartz but contains chlorite and more resembles a band of quartzite.	VA10104298	I089933	436	437.5	0.025
			VA10104298	I089934	437.5	439	0.025
440			VA10104298	I089935	439	440.5	0.025
			VA10104298	I089937	440.5	442	0.025
			VA10104298	I089938	442	443.5	0.025
			VA10104298	I089939	443.5	445	0.025
445			VA10104298	I089940	445	446.5	0.025

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	**Geochemistry**				
450	Crystal Tuff	Crystal Tuff (quartz feldspar porphyry) - Slightly sericitic altered (10%), lt to med grey with cream to lt green overtones, massive appearance with no fabric or banding. Any possible fabric is faint and questionable if primary? secondary? Lower part of unit is fractured, rubbly. « py 0.2% 0.2-0.5mm» « ank 20.0%» « ser 10%» Quartz Lower metre has massive quartz but contains chlorite and more resembles a band of quartzite.	VA10104298	I089941	446.5	448	0.025
			VA10104298	I089943	448	449.86	0.025
	Quartzite	Quartzite - Unit is light to med grey (cloudy in appearance) with wisps and irregular wavy lines of dk grey to black to green mica rich fabric. The effect makes the rock look like marble (doesn't react to acid). Zones of the rock are more schistose, rubbly, with an increase in sericite and chlorite. These zones can also have an increase in pyrite cubes. Chrome- mica rich slips and lenses present but not significant. One at 475m is 70cm - the largest "mafic dike". The first 6m is mixed quartzite and tuffs. « py 0.5% 0.2-1.0mm» « ank 8.0%» « ser 5%» « chl 2%» ‹ @ 453.82 S1 40.00° › ‹ @ 462.66 S1 20.00° › ‹ @ 467.50 S1 5.00° › ‹ @ 473.00 S1 40.00° › ‹ @ 485.20 S1 42.00° › ‹ @ 497.75 S1 20.00° › Faults ‹ @ 451.22 FZ 15° 8.0cm, clay, rock grind › ‹ @ 452.00 FZ 25° 65.0cm, angle est, clay, rock grind › ‹ @ 464.60 FZ 10° 70.0cm, angle est, clay, rock grind, rubble › ‹ @ 465.30 FZ 12° 55.0cm, angle est, clay, rock grind › ‹ @ 475.40 FZ 8° 30.0cm, clay, rock grind ›	VA10104298	I089944	449.86	451	0.025
			VA10104298	I089945	451	452.5	0.025
			VA10104298	I089946	452.5	454	0.025
455			VA10104298	I089947	454	455.5	0.025
			VA10104298	I089949	455.5	457	0.025
			VA10104298	I089950	457	458.5	0.025
460			VA10104298	I089951	458.5	460	0.025
			VA10104298	I089952	460	461.5	0.025
			VA10104298	I089953	461.5	463	0.025
465			VA10104298	I089954	463	465	0.025
			VA10104298	I089955	465	466.5	0.025
			VA10104298	I089956	466.5	468	0.025
470			VA10104298	I089958	468	469.5	0.025
			VA10104298	I089959	469.5	471	0.025
			VA10104298	I089960	471	472.5	0.025
475			VA10104298	I089961	472.5	474	0.025
			VA10104298	I089962	474	475.5	0.025
			VA10104298	I089964	475.5	477	0.025
	Fault	Fault zone in sericitized, altered quartzite. This may have been a more "dirty" quartzite with a higher percentage of muds, clay minerals. Graphite also present, minor amt. « py 0.2% 0.2-0.2mm» « ank 12.0%» « ser 30%» ‹ @ 478.60 FZ 53° 200.0cm, gouge, clay, rock grind › ‹ @ 482.00 FZ 30° 15.0cm, clay, rock grind ›	VA10104298	I089965	477	478.5	0.025
480			VA10104298	I089966	478.5	480	0.025
			VA10104298	I089967	480	481.5	0.025
			VA10104298	I089968	481.5	483	0.025
			VA10104298	I089970	483	484.5	0.025
485	Quartzite	Quartzite - Med greys, wavy schistose due to sericite alteration of the clay lamination interbeds. Quartz rich sections tend to be more competent blocks. One chrome mica rich dike 25cm wide at 490.30m. « py 0.3% 0.2-10.0mm» « ank 12.0%» « ser 5%» ‹ @ 486.29 QV2 35° 2.0cm › ‹ @ 492.70 QV2 85° 2.0cm › ‹ @ 293.39 QV2 23° 0.6cm › ‹ @ 488.80 FZ 50° 160.0cm, gouge, clay, rock grind, rubble ›	VA10104298	I089971	484.5	486	0.025
			VA10104298	I089972	486	487.5	0.025
			VA10104298	I089973	487.5	489.5	0.025
490			VA10104298	I089974	489.5	491	0.025
			VA10104298	I089975	491	492.5	0.025
			VA10104298	I089977	492.5	494	0.025
			VA10104298	I089978	494	495.5	0.025
495			VA10104298	I089979	495.5	497	0.025

10-DDH-914	North :5828417	East :604829	Elevation :937.1	Hole Length :498.35	Azimuth :209	Dip :-46	Logged by :JAS	Size :NQ	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
	Quartzite	Quartzite - Med greys, wavy schistose due to sericite alteration of the clay lamination interbeds. Quartz rich sections tend to be more competent blocks. One chrome mica rich dike 25cm wide at 490.30m. « py 0.3% 0.2-10.0mm» « ank 12.0%» « ser 5%» ‹ @ 486.29 QV2 35° 2.0cm › ‹ @ 492.70 QV2 85° 2.0cm › ‹ @ 293.39 QV2 23° 0.6cm › ‹ @ 488.80 FZ 50° 160.0cm, gouge, clay, rock grind, rubble › End of Hole - target depth reached.	VA10104298	I089979	495.5	497	0.025	
	EOH		VA10104298	I089980	497	498.35	0.025	
500								
505								
510								
515								
520								
525								
530								
535								
540								
545								

Scale 1:200	Start Depth :495.96	End Depth :545.56	Page No.: 11

10-DDH-915	North :5828085	East :604551	Elevation :1040	Hole Length :300.50	Azimuth :207	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Casing	Casing, no core recovery					
5	Crystal Tuff (Weathered)	Crystal Tuff: Highly weathered brown stained fg grey crystal tuff. Ankerite shows as rusty blebs 5-8mm is size. Green cr-mica stained altered areas 5-10cm in length can also be see but no clear contacts with surrounding rock is seen. « ank 8%» « py » Bedding not clear ‹ @ 7.80 CL 0.25m › ‹ @ 5.22 CL 0.40m › ‹ @ 4.30 CL 0.40m › ‹ @ 4.80 CL 0.30m ›	VA10104299	I005090	3.66	6	0.025
			VA10104299	I005091	6	7	0.025
	Fault (Xl Tuff / sed)	Fault Zone: in crystal tuff/sediment. Areas of gouge and grind. Also contains 10cm visible of highly silicifed v.fg grey rock which has a brecciated texture but which is still competent- chert. « ank 5%» « py » ‹ @ 8.37 FZ 20° 44.0cm, gouge › ‹ @ 9.35 FZ 0° 23.0cm, no alpha, grind ›	VA10104299	I005092	7	8.15	0.025
			VA10104299	I005093	8.15	9.45	0.31
10	Crystal Tuff w/ mafic dyke	‹ @ 9.00 CL 0.20m › Crystal Tuff: Same tuff as before fault, but contains 2 green coloured porphyritic dyke beds with clear contacts to the fg grey tuff. dykes have a speckled appearance with black euhedral crystals in 5-7% abundance.	VA10104299	I005094	9.45	11.45	0.025
	Fault (Cat.1 A / S)	« 9.73- 10.06 Mafic-dyke » ‹ @ 9.73 LCT 42.00°, Mafic dyke › ‹ @ 10.06 UCT 76.00° › « 10.45- 10.81 Mafic-dyke » ‹ @ 10.45 LCT 43°, mafic dyke › ‹ @ 10.81 UCT 62° › « 9.45- 11.47 ank 4%» « py 0.5% 4.0-8.0mm» Pyrite heavily weathered. Fault (Cat.1 A/S): Highly fractured and broken up fault zone in cat1 argillite siltstone. Py shows as disseminated particles along fractures in more competent areas. Large areas of gouge _grind.	VA10104299	I005095	11.45	13	0.11
			VA10104299	I005097	13	14.5	0.025
15		« ank 2%» « py 4.8% 0.5-1.0mm» ‹ @ 12.80 QV1 61° 1mm › ‹ @ 12.15 FZ 20° 100.0cm, gouge grind, slicks › ‹ @ 13.74 FZ 0° 45.0cm, gouge grind, no alpha › ‹ @ 16.15 FZ 54° 59.0cm, gouge _slicsk › ‹ @ 17.00 FZ 40° 16.0cm ›	VA10104299	I005098	14.5	15.15	0.05
			VA10104299	I005099	15.15	17.07	0.14
	Cat.1 Argillite / Siltstone	Cat.1 Argillite/Siltstone: Deformed interbedded argillite _siltstone, almost to boudins. Py shows as disseminated xls within deformation. SOme highly deformed qz veins also entrained in the deformation but other cut through S1 surface. « ank 3%» « py 4.8% 0.5-1.0mm» ‹ @ 17.78 S1 30° › ‹ @ 16.70 S1 50° ›	VA10104299	I005100	17.07	19	0.11
20		‹ @ 17.60 QVbull 72° 0.5cm › ‹ @ 19.70 FZ 0° 5.0cm, gouge, no alpha ›	VA10104299	I005102	19	20.1	0.025
			VA10104299	I005103	20.1	21.5	0.025
	Tuff _minor seds w/ mafic dykes	Interbedded fg grey tuff with minor sediment beds and green coloured mafic dykes. Also contains v.fg pale grey highly silicic chert which shows as a ribbon texture with black fg beds. « 23.00- 24.00 Ribbon Chert » « 21.30- 21.54 Mafic-dyke » « 27.90- 28.10 Mafic-dyke 37°» « ank 7%» « py 1.0% 3.0-10.0mm» ‹ @ 23.15 S0 45°, ribbon chert › ‹ @ 30.70 S0 40-75°, beta to bottom › ‹ @ 34.40 S0 30° › ‹ @ 20.20 QVbull 38° 12.0cm › ‹ @ 21.18 QVbull 33° 1.7cm › ‹ @ 21.58 QVbull 18° 0.4cm › ‹ @ 22.12 QVbull 16° 0.5cm › ‹ @ 22.65 QVbull 45° 1.3cm › ‹ @ 25.50 QVbull 45° 0.5cm › ‹ @ 25.75 QVbull 44° 2.1cm › ‹ @ 25.85 QVbull 50° 1.1cm › ‹ @ 31.75 QVbull 20° 17.0cm › ‹ @ 32.33 QVbull 19° 0.2cm › ‹ @ 28.32 FZ 55° 2.4cm ›	VA10104299	I005104	21.5	23	0.025
			VA10104299	I005105	23	24.5	0.025
25			VA10104299	I005107	24.5	26	0.1
			VA10104299	I005108	26	27.5	0.025
			VA10104299	I005109	27.5	29.5	0.07
30			VA10104299	I005110	29.5	31	0.025
			VA10104299	I005111	31	32.5	0.025
			VA10104299	I005112	32.5	34.5	0.025
35	Cat.1 Argillite / Siltstone	Cat.1 Argillite/Siltstone: Cataclasite siltstone _argillite with some large gouge areas persistently throughout. « ank 1%» « py 4.3% 0.5-1.0mm» ‹ @ 35.00 S1 50° › ‹ @ 36.90 S1 54° › ‹ @ 39.50 S1 35° › ‹ @ 44.10 S1 60-190°, beta to bottom › ‹ @ 47.75 S1 50° ›	VA10104299	I005113	34.5	36	0.15
			VA10104299	I005115	36	37.5	0.2
		‹ @ 34.65 QV2 60° 0.4cm › ‹ @ 35.20 QVbull 38° 2.2cm › ‹ @ 37.30 QVbull 20° 0.4cm › ‹ @ 42.65 QVbull 22° 0.3cm › ‹ @ 47.32 QVbull 70° 0.9cm › ‹ @ 48.80 QVbull 22° 0.9cm › ‹ @ 49.44 QVbull 64° 0.3cm › ‹ @ 50.26 QVbull 42° 40.0cm, sph xl 1.6cm › ‹ @ 50.26 sph 0.2% 16mm, 1x xl in qvbull › ‹ @ 50.23 FZ 34° 3.5cm, gouge › ‹ @ 47.00 FZ 0° 7.0cm, gouge grind › ‹ @ 43.30 FZ 62° 2.5cm › ‹ @ 41.45 FZ 30° 12.0cm, gouge › ‹ @ 38.97 FZ 50° 9.0cm, gouge slicks › ‹ @ 36.26 FZ 60° 60.0cm, slicks, gouge _grind ›	VA10104299	I005116	37.5	39.5	0.19
40			VA10104299	I005117	39.5	41	0.17
			VA10104299	I005118	41	42.5	0.14
			VA10104299	I005120	42.5	44	0.22
45			VA10104299	I005121	44	45.5	0.31
			VA10104299	I005122	45.5	47	0.27
			VA10104299	I005124	47	48.5	0.72
			VA10104299	I005125	48.5	50	0.98

10-DDH-915	North :5828085	East :604551	Elevation :1040	Hole Length :300.50	Azimuth :207	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	**Geochemistry**				
	Cat.1 Argillite / Siltstone	Cat.1 Argillite/Siltstone: Cataclasite siltstone _argillite with some large gouge areas persistently throughout.	VA10104299	I005125	48.5	50	0.98
		« ank 1%» « py 4.3% 0.5-1.0mm»	VA10104299	I005126	50	51.5	0.42
	Crystal Lithic Tuff / Poss Cong.	‹ @ 35.00 S1 50° › ‹ @ 36.90 S1 54° › ‹ @ 39.50 S1 35° › ‹ @ 44.10 S1 60-190°, beta to bottom › ‹ @ 47.75 S1 50° ›	VA10104299	I005127	51.5	53	0.23
		‹ @ 34.65 QV2 60° 0.4cm › ‹ @ 35.20 QVbull 38° 2.2cm › ‹ @ 37.30 QVbull 20° 0.4cm › ‹ @ 42.65 QVbull 22° 0.3cm › ‹ @ 47.32 QVbull 70° 0.9cm › ‹ @ 48.80 QVbull 22° 0.9cm › ‹ @ 49.44 QVbull 64° 0.3cm › ‹ @ 50.26 QVbull 42° 40.0cm, sph xl 1.6cm ›	VA10104299	I005128	53	54.5	0.28
		‹ @ 50.26 sph 0.2% 16mm, 1x xl in qvbull ›	VA10104299	I005129	54.5	56	1.14
55		‹ @ 50.23 FZ 34° 3.5cm, gouge › ‹ @ 47.00 FZ 0° 7.0cm, gouge grind › ‹ @ 43.30 FZ 62° 2.5cm › ‹ @ 41.45 FZ 30° 12.0cm, gouge › ‹ @ 38.97 FZ 50° 9.0cm, gouge slicks › ‹ @ 36.26 FZ 60° 60.0cm, slicks, gouge _grind ›					
	Fault (S / A Cat.1)	Crystal Lithic Tuff/Poss conglomerate: Mg-cg grey rock containing flattened crystals and clasts. Clasts consist of black angular fragments 3-40mm in size and pale cream silicic rods/discs 32:3mm in ratio. Bedding is clear and pyrite shows as euhedral cubes and as disseminated xls stretched along the bedding.	VA10104299	I005130	56	57.5	0.77
		« ank 6%» « py 2.1% 0.5-4.0mm»	VA10104299	I005131	57.5	58.5	0.3
		‹ @ 51.80 S0 54° › ‹ @ 52.40 S0 48° › ‹ @ 52.95 S0 46° ›	VA10104299	I005132	58.5	59.75	0.98
		‹ @ 54.15 QVbull 40° 6.5cm, poss vg ›	VA10104299	I005133	59.75	61	0.26
		‹ @ 54.15 VG 0.5% 2.0mm, small poss bleb in QVbull ›	VA10104299	I005134	61	62.5	0.57
60		Fault (S/A Cat.1): Large area of fractured rock with areas of gouge. Lowest 1m has some areas of highly siliicic chert rock displaying micro fracturing.					
	Interbedded. Chert / Seds	« ank 12%» « py 2.3% 1.0-8.0mm»	VA10104299	I005136	62.5	64	1.26
		‹ @ 59.20 S0 45° ›	VA10104299	I005137	64	65.5	1.5
		‹ @ 55.90 QVbull 35° 0.9cm › ‹ @ 59.20 QVbull 15° 1.0cm ›	VA10104299	I005138	65.5	67.5	2.01
	Siltstone	‹ @ 54.25 FZ 40° 9.0cm, gouge › ‹ @ 55.36 FZ 55° 11.0cm › ‹ @ 58.33 FZ 0° 30.0cm, no alpha ›					
65		Intrbd. Chert/Seds: V.fg silicic grey hard chert thickly laminated to thinly bedded with fg dark grey siltstone. Chert has a fractured texture although competent. Pyrite shows mostly as cubic euhedral xls.					
		« ank 9%» « py 2.3% 3.0-9.0mm»	VA10104299	I005139	67.5	69	1.23
	Fault (siltstone)	‹ @ 60.13 S0 62° › ‹ @ 62.00 S0 75° ›	VA10104299	I005140	69	70.5	0.22
		‹ @ 61.40 QVbull 27° 2.6cm ›	VA10104299	I005142	70.5	72	1.63
	Siltstone / Argillite	Siltstone: SIltstone with some minor argillite component. Almost cataclasite texture when bedding is visible. Pyrite deformed and disseminated along bedding and foliation.	VA10104299	I005143	72	73.75	1.59
		« ank 3%» « py 3.3% 0.5-10.0mm»	VA10104299	I005144	73.75	74.2	3.27
70		‹ @ 63.70 QVbull 30° 0.8cm ›	VA10104299	I005145	74.2	75.5	3.43
		Fault (siltstone): Fault in same rock type as previous.	VA10104299	I005146	75.5	77	2.05
		« ank 3%» « py 2.0% 0.5-2.0mm»	VA10104299	I005148	77	78	1.97
	Fault (A / S)	‹ @ 65.30 FZ 62° 10.0cm › ‹ @ 65.80 FZ 0° 10.0cm, gouge , no alpha › ‹ @ 66.10 FZ 0° 22.0cm, no alpha, gouge › ‹ @ 67.05 FZ 80° 18.0cm, gouge ›	VA10104299	I005149	78	79.5	1.37
		Siltstone/Argillite: Interbedded dark grey fg siltstone with v.fg black argillite on a thinly-med size bedding. Lowest 40cm is thinly laminated and almost deformed to Cat.1 structure.	VA10104299	I005150	79.5	81	0.72
		« ank 4%» « py 3.7% 3.0-6.0mm»	VA10104299	I005151	81	82.5	4.69
75		‹ @ 69.10 S0 41° › ‹ @ 71.30 S1 40° ›	VA10104299	I005153	82.5	84	0.28
	Cat.1 Siltstone / Argillite	‹ @ 71.12 QVbull 60° 0.9cm ›	VA10104299	I005154	84	85	0.025
		Fault (A/S): Fault in same rock as before.	VA10104299	I005155	85	86.15	0.93
		« ank 4%» « py 4.0% 0.5-2.0mm»	VA10104299	I005156	86.15	87.5	0.025
		‹ @ 71.53 FZ 50° 30.0cm › ‹ @ 72.00 FZ 0° 25.0cm, no alpha › ‹ @ 73.00 FZ 0° 30.0cm, gouge,no alpha ›	VA10104299	I005157	87.5	89	0.17
		Cat. 1 Siltstone/Argillite: Contains v.fn beds of disseminated pyrite which cross the core, all mostly aligned in the asme direction.	VA10104299	I005158	89	91	0.08
		« ank 6%» « py 5.1% 0.5-1.0mm»	VA10104299	I005159	91	92.5	0.025
80		‹ @ 77.50 S1 58°, pyrite bed alignment ›	VA10104299	I005160	92.5	94	0.025
		‹ @ 73.80 QVbull 70° 25.0cm › ‹ @ 74.25 QVbull 65° 3.3cm, gal _sph › ‹ @ 74.44 QVbull 70° 0.5cm ›	VA10104299	I005161	94	95.5	0.24
	Siltstone / Greywacke	‹ @ 74.25 ga 0.3% 2.0mm, 1x xl in qvbull › ‹ @ 74.25 sph 0.3% 2mm, 1x xl in qvbull ›	VA10104299	I005163	95.5	97	0.11
		Siltstone/Greywacke: Fg dark grey siltstone med-thickly bedded with mg-cg dark grey greywacke. Unit contains only euhedral pyrite on larger scale than previous and lower units.	VA10104299	I005164	97	98.5	0.09
		« ank 3%» « py 3.0% 4.0-12.0mm»	VA10104299	I005165	98.5	100	0.025
85		‹ @ 80.08 S0 45° › ‹ @ 83.93 S0 60° ›					
		‹ @ 79.28 QVbull 30° 0.6cm › ‹ @ 82.05 QVbull 40° 2.3cm › ‹ @ 82.62 QVbull 64° 1.2cm › ‹ @ 83.81 QVbull 61° 0.8cm › ‹ @ 85.30 QVbull 38° 6.7cm ›					
		‹ @ 79.15 FZ 30° 3.5cm, slicks _gouge ›					
		Crystal Tuff: Fg-mg grey crystal tuff with minor silty component. Generally pyrite in euhedral and rock shows little deformation. Bedding is not obvious but some slight compositional changes are visible and also alignment of lithics within sporadic beds.					
		Ankerite shows as pale cream slightly altered rhombs in higher abundance than previous sediments « ank 13%»					
90		« py 0.6% 4.0-10.0mm»					
		‹ @ 90.17 S0 35° › ‹ @ 98.00 S0 34-10°, beta to bottom ›					
		‹ @ 99.40 QVbull 60° 1.0cm › ‹ @ 100.11 QVbull 49° 0.8cm › ‹ @ 97.64 QVbull 40° 2.7cm › ‹ @ 94.30 QVbull 17° 0.8cm ›					
		Slight sericite alteration in areas: « 88.00- 90.20 ser 5%»					
	Crystal Tuff						
95							

Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-915	North :5828085	East :604551	Elevation :1040	Hole Length :300.50	Azimuth :207	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
100	Crystal Tuff	Crystal Tuff: Fg-mg grey crystal tuff with minor silty component. Generally pyrite in euhedral and rock shows little deformation. Bedding is not obvious but some slight compositional changes are visible and also alignment of lithics within sporadic beds.	VA10104299	I005165	98.5	100	0.025
		Ankerite shows as pale cream slightly altered rhombs in higher abundance than previous sediments « ank 13%»	VA10104299	I005167	100	101.5	0.06
		« py 0.6% 4.0-10.0mm»	VA10104299	I005168	101.5	103	0.025
		‹ @ 90.17 S0 35° › ‹ @ 98.00 S0 34-10°, beta to bottom ›	VA10104299	I005169	103	104.5	0.025
		‹ @ 99.40 QVbull 60° 1.0cm › ‹ @ 100.11 QVbull 49° 0.8cm › ‹ @ 97.64 QVbull 40° 2.7cm › ‹ @ 94.30 QVbull 17° 0.8cm ›	VA10104299	I005170	104.5	105.5	0.025
105		Slight sericite alteration in areas: « 88.00- 90.20 ser 5%»	VA10104299	I005171	105.5	106.2	0.47
	Tuff / Sediment	Interbedded Tuff/Sediment: thinly bedded fg dark grey siltstone with grey fg crystal tuff. Unit is distinguished by large euhedral pyrite in moderate abundance showing no deformation. Bedding is slightly deformed.	VA10104299	I005172	106.2	108	0.54
		« ank 10%» « py 2.3% 0.7-20.0mm»	VA10104299	I005174	108	109	0.22
		‹ @ 107.75 S0 30° ›	VA10104299	I005175	109	110.28	1.47
110		‹ @ 107.23 QVbull 50° 0.4cm › ‹ @ 108.80 QVbull 50-130° 0.4cm, beta to bottom › ‹ @ 110.25 QVbull 50° 4.7cm ›	VA10104299	I005176	110.28	112	0.73
	Crystal Tuff w/ min. siltst, 5% ser	Crystal Tuff w/ min. siltstone: Fg-mg grey crystal tuff with minor siltstone component showing as thin beds 3-10cm and usually quite deformed. Unit contains some sporadic fault gouge throughout. In deformed areas tuff picks up brecciated jigsaw appearance shown by fine black crosshatched veinlets, but unit is competent throughout.	VA10104299	I005177	112	113.5	0.025
		« ank 16%» « py 0.4% 4.0-9.0mm»	VA10104299	I005178	113.5	115	0.025
		‹ @ 126.00 S0 44-330°, beta to bottom › ‹ @ 117.90 S0 50-240°, beta to bottom › ‹ @ 132.90 S0 48-210°, beta to bottom ›	VA10104299	I005179	115	116	0.025
		‹ @ 111.00 QVbull 0° 19.0cm, no alpha › ‹ @ 112.74 QVbull 16-215° 0.5cm, beta to bottom › ‹ @ 114.35 QVbull 46° 1.3cm › ‹ @ 119.90 QVbull 50-30° 4.2cm, beta to bottom › ‹ @ 121.61 QVbull 45° 1.6cm › ‹ @ 124.33 QVbull 50-160° 0.3cm, beta to bottom › ‹ @ 129.90 QVbull 40-230° 1.7cm, beta to bottom › ‹ @ 133.61 QVbull 40-137° 3.4cm, beta to bottom › ‹ @ 135.50 QVbull 46-120° 0.9cm, beta to bottom ›	VA10104299	I005180	116	117.5	0.025
115		‹ @ 111.00 FZ 53° 63.0cm, gouge, contains fault gouge ,large qvbull › ‹ @ 133.57 FZ 54-145° 6.0cm, gouge ›	VA10104299	I005182	117.5	119	0.025
		« ser 5%»	VA10104299	I005183	119	120.5	0.11
			VA10104299	I005185	120.5	122	0.41
120			VA10104299	I005186	122	123.5	0.025
			VA10104299	I005187	123.5	125	0.025
			VA10104299	I005188	125	126.5	0.025
125			VA10104299	I005189	126.5	128	0.025
			VA10104299	I005190	128	129.5	0.05
			VA10104299	I005191	129.5	131	0.58
130			VA10104299	I005192	131	132.5	0.025
			VA10104299	I005194	132.5	134	0.1
			VA10104299	I005195	134	135.5	0.08
135			VA10104299	I005196	135.5	136.9	0.025
	Fault (crystal tuff 5% alt.)	Fault zone in same rock type as previous.	VA10104299	I005197	136.9	138.5	0.025
		« ank 15%» « py 0.3%»	VA10105030	I005198	138.5	140	0.5
		‹ @ 137.40 FZ 16° 50.0cm › ‹ @ 141.90 FZ 32° 20.0cm, gouge ,slicks ›	VA10105030	I005199	140	142	0.8
140	Crystal Lithic Tuff (ser 3%)	Crystal Lithic Tuff: Same crystal tuff but with abundance up to 2% of thin flattened black lithics 2-4mm in length. Bedding is seen from alignment of the lithics and unit only has a slight sericitic alteration.	VA10105030	I005200	142	143	0.025
		« ank 9%» « py 0.3% 3.0-6.0mm»	VA10105030	I005201	143	144.5	0.025
		‹ @ 142.70 S0 30°, lithic alignment ›	VA10105030	I005203	144.5	146	0.025
		« ser 3%»	VA10105030	I005204	146	147	0.14
145	Argillite and min. Tuff	Argillite/Tuff: V.fg black argillite with minor fg dark grey siltstone/tuff beds. Texture is covered with fine felsic anastomising veinlets with concentrations of pyrite in. Pyrite shows quite deformed anhedral shapes as well as disseminated xls. Bottom of unit dominated by large quartz vein.	VA10105030	I005205	147	149	0.11
		« ank 3%» « py 0.7% 3.0-5.0mm»					
		‹ @ 146.50 S0 47-227°, beta to bottom ›					
		‹ @ 149.90 QVbull 40° 46.0cm ›					
		‹ @ 150.52 FZ 34° 5.0cm, grind ›					

10-DDH-915	North :5828085	East :604551	Elevation :1040	Hole Length :300.50	Azimuth :207	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150	Argillite and min. Tuff	Argillite/Tuff: V.fg black argillite with minor fg dark grey siltstone/tuff beds. Texture is covered with fine felsic anastomising veinlets with concentrations of pyrite in. Pyrite shows quite deformed anhedral shapes as well as disseminated xls. Bottom of unit dominated by large quartz vein.	VA10105030	I005206	149	150.6	0.61
		« ank 3%» « py 0.7% 3.0-5.0mm»	VA10105030	I005207	150.6	152	0.16
		‹ @ 146.50 S0 47-227°, beta to bottom ›	VA10105030	I005208	152	153.5	0.025
		‹ @ 149.90 QVbull 40° 46.0cm ›	VA10105030	I005210	153.5	154.5	0.025
	Crystal Tuff (15% Alt)	‹ @ 150.52 FZ 34° 5.0cm, grind ›	VA10105030	I005211	154.5	155.66	0.26
155		Crystal Tuff (15% Alt): Fg pale grey-cream crystal tuff. Jigsaw texture created by fine black veinlets. Bedding is not obvious.	VA10105030	I005212	155.66	157	0.14
		« ank 12%» « py 0.3% 2.0-4.0mm»	VA10105030	I005213	157	158	0.28
		‹ @ 151.90 QVbull 20° 0.7cm › ‹ @ 154.20 QVbull 29-78° 0.5cm, beta to bottom › ‹ @ 154.65 QVbull 41-103° 1.9cm, beta to bottom, 10% py › ‹ @ 155.55 QVbull 30° 0.8cm ›	VA10105030	I005214	158	159.36	0.21
		« ser 15%»	VA10105030	I005215	159.36	161	0.09
	Crystal Tuff (30% Alt.)	Crystal Tuff (30% Alt.): Same rock type as previous with higher alteration. Colour is pale cream.	VA10105030	I005217	161	162.5	0.09
		« ank 14%» « py 0.2% 2.0-8.0mm»	VA10105030	I005218	162.5	164	0.06
		‹ @ 156.25 QVbull 40° 18.0cm › ‹ @ 157.15 QVbull 28° 20.0cm › ‹ @ 157.70 QVbull 30° 22.0cm ›	VA10105030	I005219	164	165.5	0.06
160		« ser 30%»	VA10105030	I005221	165.5	167	0.025
		Crystal Tuff w/ intrusive: Pale grey fg-mg crystal tuff. Bedded occasionally with thin sediment rich beds but overall massive in texture with very little bedding visible. Some lithic richer beds are seen in 10-20cm size units sporadically throughout.	VA10105030	I005222	167	169	0.07
		Intrusive seen @184m: fg crystalline rock dark to pale green in colour- darker at ends showing chilled margin. « 183.88- 184.46 Intrusive »	VA10105030	I005223	169	170.5	0.025
		« ank 10%» « py 0.2% 3.0-6.0mm»	VA10105030	I005224	170.5	172	0.05
		‹ @ 165.13 S0 41° › ‹ @ 170.00 S0 32° ›	VA10105030	I005226	172	173.5	0.06
165		‹ @ 162.57 QVbull 44° 1.2cm › ‹ @ 164.00 QVbull 40° 0.4cm › ‹ @ 164.90 QVbull 25° 0.5cm › ‹ @ 165.37 QVbull 31° 0.9cm › ‹ @ 165.60 QVbull 30° 0.8cm › ‹ @ 167.05 QVbull 28° 2.9cm › ‹ @ 168.44 QVbull 30° 0.7cm › ‹ @ 169.40 QVbull 44° 21.0cm › ‹ @ 170.21 QVbull 80° 5.5cm › ‹ @ 170.64 QVbull 46° 3.1cm › ‹ @ 172.20 QVbull 30° 1.5cm › ‹ @ 181.93 QVbull 50° 1.2cm › ‹ @ 183.25 QVbull 50° 13.0cm › ‹ @ 186.45 QVbull 54° 18.0cm ›	VA10105030	I005227	173.5	175	0.025
		« ser 10%»	VA10105030	I005228	175	176.5	0.025
			VA10105030	I005229	176.5	178	0.025
			VA10105030	I005230	178	179	0.025
170			VA10105030	I005231	179	180.5	0.025
			VA10105030	I005232	180.5	182	0.025
			VA10105030	I005234	182	183.5	0.025
			VA10105030	I005235	183.5	185	0.025
	Crystal Tuff (10% alt.) w/ intrusive		VA10105030	I005236	185	186.5	0.025
175			VA10105030	I005237	186.5	188	0.025
			VA10105030	I005238	188	189.7	0.025
			VA10105030	I005239	189.7	191	0.025
			VA10105030	I005240	191	192.5	0.025
180			VA10105030	I005242	192.5	194	0.025
			VA10105030	I005243	194	195.03	0.025
			VA10105030	I005244	195.03	196.5	0.025
			VA10105030	I005245	196.5	198	0.025
185			VA10105030	I005246	198	199.5	0.025
190	Conglomerate (5% Alt.)	Conglomerate (5% Alt.): Cg-v.cg subangular conglomerate formed of clasts 5-30mm in size. Clasts are bimodal consisting of dark grey fg argillite/siltstone and pale cream fg-mg crystal tuff. Matrix supported conglomerate with matrix formed of fg grey rock. Unit contains some planar sediment beds 2-3cm in size in the lower 1m.					
		« ank 9%» « py 0.2% 5.0-12.0mm» ‹ @ 194.61 S0 60° ›					
		‹ @ 190.30 S0 70-213°, beta to bottom ›					
		« ser 5%»					
195	Conglomerate (15% Alt.)	Same conglomerate- 15% alt. Clast sizes vary throughout from average of 3-5mm to the largest 40mm.					
		« ank 9%» « py 0.1% 3.0-12.0mm»					
		‹ @ 195.60 S0 39-250°, beta to bottom › ‹ @ 218.00 S0 33-10°, beta to bottom ›					
		‹ @ 195.40 QVbull 40° 0.7cm › ‹ @ 196.00 QVbull 47° 7.5cm › ‹ @ 198.10 QVbull 60° 1.6cm › ‹ @ 202.64 QVbull 43° 0.7cm › ‹ @ 205.00 QVbull 30° 0.8cm › ‹ @ 207.24 QVbull 62° 0.9cm › ‹ @ 208.60 QVbull 50° 8.0cm › ‹ @ 214.00 QVbull 32° 1.5cm › ‹ @ 214.75 QVbull 32° 2.2cm › ‹ @ 215.42 QVbull 35° 9.0cm › ‹ @ 215.62 QVbull 40° 12.0cm › ‹ @ 218.60 QVbull 40° 3.6cm ›					

Scale 1:200	Start Depth :148.79	End Depth :198.38	Page No.: 4

10-DDH-915	North :5828085	East :604551	Elevation :1040	Hole Length :300.50	Azimuth :207	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
200	Conglomerate (15% Alt.)	Same conglomerate- 15% alt. Clast sizes vary throughout from average of 3-5mm to the largest 40mm. « ank 9%» « py 0.1% 3.0-12.0mm» ‹ @ 195.60 S0 39-250°, beta to bottom › ‹ @ 218.00 S0 33-10°, beta to bottom ›	VA10105030	I005246	198	199.5	0.025
			VA10105030	I005248	199.5	201	0.025
		‹ @ 195.40 QVbull 40° 0.7cm › ‹ @ 196.00 QVbull 47° 7.5cm › ‹ @ 198.10 QVbull 60° 1.6cm › ‹ @ 202.64 QVbull 43° 0.7cm › ‹ @ 205.00 QVbull 30° 0.8cm › ‹ @ 207.24 QVbull 62° 0.9cm › ‹ @ 208.60 QVbull 50° 8.0cm › ‹ @ 214.00 QVbull 32° 1.5cm › ‹ @ 214.75 QVbull 32° 2.2cm › ‹ @ 215.42 QVbull 35° 9.0cm › ‹ @ 215.62 QVbull 40° 12.0cm › ‹ @ 218.60 QVbull 40° 3.6cm ›	VA10105030	I005249	201	202.5	0.025
205			VA10105030	I005250	202.5	204	0.025
			VA10105030	I005251	204	205.5	0.025
			VA10105030	I005252	205.5	207	0.025
			VA10105030	I005254	207	208.5	0.025
210			VA10105030	I005255	208.5	210	1.3
			VA10105030	I005256	210	211.5	0.025
			VA10105030	I005257	211.5	213	0.025
			VA10105030	I005258	213	214.5	0.025
215			VA10105030	I005259	214.5	216	0.025
			VA10105030	I005261	216	217.5	0.025
		Siltstone/Tuff: fg dark grey siltstone very thinly bedded with fg grey crystal tuff. Bedding is planar and undeformed. Pyrite is eudedral cubic.	VA10105030	I005262	217.5	218.65	0.025
220	Siltstone / Tuff	« ank 14%» « py 0.4% 4.0-8.0mm» ‹ @ 219.00 S0 35° › « ser 2%»	VA10105030	I005263	218.65	220.57	0.025
	Crystal Lithic Tuff (3% Alt.)	Crystal Lithic Tuff: cg-v.cg crystal lithic tuff. Consists of sub-rounded xls of qz _fspar 1-2mm in size and flattened black lithics 1-2mm in length. ALignment of lithics gives bedding orientation although not obvious. Ankerite shows as large 5-10mm sericitised blebs. « ank 17%» « py 0.1% 2.0-3.0mm» ‹ @ 223.50 S0 37° › ‹ @ 220.95 QVbull 30° 4.8cm › ‹ @ 223.14 QVbull 20° 0.3cm › « ser 3%»	VA10105030	I005264	220.57	222	0.025
			VA10105030	I005266	222	223.5	0.025
225			VA10105030	I005267	223.5	225.32	0.025
		Siltstone/Argillite (Cat.1): Cataclasite texture interbedded fg grey siltstone with v.fg black argillite. Beds are deformed and some boudinage is visible in the unit but not total cataclasite texture. « ank 7%» « py 0.9% 1.0-15.0mm» pyrite shows predominantly as euhedral cubic with some disseminated pyrite cubes stretched out along bedding. ‹ @ 233.35 S0 62° › ‹ @ 235.20 S1 30° › ‹ @ 230.25 QVbull 20° 12.0cm, 30% py › ‹ @ 230.10 FZ 50° 3.0cm, slicks _gouge ›	VA10105030	I005268	225.32	227	0.025
			VA10105030	I005269	227	228.5	0.025
			VA10105030	I005270	228.5	230	0.08
230			VA10105030	I005272	230	231.5	1.36
			VA10105030	I005273	231.5	233	0.15
			VA10105030	I005274	233	234.5	0.19
235	Siltstone / Argillite (Cat.1)		VA10105030	I005275	234.5	236	0.13
			VA10105030	I005276	236	237.5	0.025
			VA10105030	I005277	237.5	239	0.07
240			VA10105030	I005278	239	240.35	0.77
		Cat. 2 Siltstone/Argillite: cataclasite texture more pronounced with regular boudins 3-10cm in size of siltstone held in argillite. Very few quartz veins in this unit and pyrte again is mostly large cubic euhedral crystals. « ank 6%» « py 0.5% 1.0-8.0mm» ‹ @ 242.46 QVbull 23-125° 12.0cm, beta to bottom › ‹ @ 247.00 QVbull 25° 0.7cm › ‹ @ 250.50 QVbull 40° 45.0cm, 10% py ›	VA10105030	I005279	240.35	242	0.17
			VA10105030	I005281	242	243.5	0.36
245	Cat. 2 Siltstone / Argillite		VA10105030	I005282	243.5	245	0.05
			VA10105030	I005283	245	246.5	0.025
			VA10105030	I005284	246.5	248	0.15

10-DDH-915	North :5828085	East :604551	Elevation :1040	Hole Length :300.50	Azimuth :207	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
250	Cat. 2 Siltstone / Argillite	Cat. 2 Siltstone/Argillite: cataclasite texture more pronounced with regular boudins 3-10cm in size of siltstone held in argillite. Very few quartz veins in this unit and pyrte again is mostly large cubic euhedral crystals. « ank 6%» « py 0.5% 1.0-8.0mm» ‹ @ 242.46 QVbull 23-125° 12.0cm, beta to bottom › ‹ @ 247.00 QVbull 25° 0.7cm › ‹ @ 250.50 QVbull 40° 45.0cm, 10% py ›	VA10105030	I005285	248	249.5	0.025
			VA10105030	I005287	249.5	251	3.83
			VA10105030	I005288	251	252.5	1.03
			VA10105030	I005289	252.5	254	1.06
255			VA10108251	I005290	254	255.5	0.12
			VA10108251	I005291	255.5	257	0.07
			VA10108251	I005292	257	258.5	0.28
260			VA10108251	I005294	258.5	260	0.08
			VA10108251	I005295	260	261.5	0.1
			VA10108251	I005296	261.5	263	0.28
265			VA10108251	I005297	263	264.5	0.6
			VA10108251	I005298	264.5	266	0.12
270	Cat.1 Siltstone / Argillite	Cat.1 Siltstone/Argillite: Lesser deformed interbedded siltstone/argillite. « ank 4%» « py 0.3% 3.0-7.0mm» ‹ @ 271.00 S1 60° › ‹ @ 267.40 QV2 27° 0.2cm › ‹ @ 274.08 FZ 48° 2.6cm, gouge _slicks ›	VA10108251	I005299	266	267.5	0.13
			VA10108251	I005301	267.5	269	0.22
			VA10108251	I005302	269	270.5	0.05
			VA10108251	I005303	270.5	272	0.27
			VA10108251	I005304	272	273.5	0.06
275	Siltstone / Argillite	Siltstone/Argillite: Interbedded siltstone _argillite on a thin-medium size scale. Some deformation is visible but mostly planar surfaces. Fine white anastomising felsic veinlets cover the unit and quartz veins are deformed and quite rare. « ank 5%» « py 0.6% 3.0-12.0mm» ‹ @ 281.20 S0 50-160°, beta to bottom › ‹ @ 286.80 S0 50° › ‹ @ 277.93 QV2 80° 0.6cm › ‹ @ 287.94 FZ 60° 2.5cm, gouge _slicks ›	VA10108251	I005305	273.5	275	0.07
			VA10108251	I005306	275	276.5	0.025
			VA10108251	I005308	276.5	278	0.025
			VA10108251	I005309	278	279.5	0.09
280			VA10108251	I005310	279.5	281	0.025
			VA10108251	I005311	281	282.5	0.025
			VA10108251	I005312	282.5	284	0.025
285			VA10108251	I005313	284	285.5	0.025
			VA10108251	I005315	285.5	287	0.025
			VA10108251	I005316	287	288.5	0.025
290			VA10108251	I005317	288.5	290	0.025
			VA10108251	I005318	290	291.5	0.14
			VA10108251	I005320	291.5	293	0.025
			VA10108251	I005321	293	294.5	0.05
295	Fault (Siltstone / Argillite)	Fault zone in same rock as previous. « ank 5%» « py 0.5% 2.0-6.0mm» ‹ @ 293.86 FZ 60° 24.0cm, slicks gouge › ‹ @ 296.27 FZ 57° 34.0cm, gouge _slicks ›	VA10108251	I005322	294.5	296	0.11
			VA10108251	I005323	296	297.5	0.025

10-DDH-915	North :5828085	East :604551	Elevation :1040	Hole Length :300.50	Azimuth :207	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
300	Fault (Siltstone / Argillite)	Fault zone in same rock as previous. « ank 5%» « py 0.5% 2.0-6.0mm» ‹ @ 293.86 FZ 60° 24.0cm, slicks gouge › ‹ @ 296.27 FZ 57° 34.0cm, gouge slicks ›	VA10108251	I005324	297.5	299	0.025	
	EOH	End of hole.	VA10108251	I005326	299	300.5	0.025	

305 310 315 320 325 330 335 340 345

Scale 1:200	Start Depth :297.58	End Depth :347.17	Page No.: 7

10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
5	Casing	Casing					
10	Cat.2 Argillite	Cat 2 Argillite - Med to dk greys to black, fine to med grained, schistose (graphitic) with a secondary fabric defined by the orientation of the lighter more felsic layers, lenses, boudins, etc. This shows high level of contortion and deformation - original fabric not readable. Unit is mainly blocky, rubbly reflecting nearby fault zones. One 20cm band of possible crystal tuff at 22.0m. « py 6.0% 0.5-4.0mm» pyrite cubes hae been fractured/crushed and stretched along fabric « ank 10.0%» ‹ @ 18.90 S1 55.00° › this is the general anglefor the first half of the unit however the latter half varies from 0 to 90 degrees. Quartz ‹ @ 20.54 QV3 75° 3.6cm › ‹ @ 32.78 QV3 23° 18.0cm › Faults ‹ @ 12.82 FZ 60° 45.0cm, gouge, rock grind, rubble › ‹ @ 16.22 FZ 5° 3.0cm, clay, rock grind › ‹ @ 21.30 FZ 45° 100.0cm, angle est, gouge rock grind, rubble › ‹ @ 22.69 FZ 28° 6.0cm, gouge, good angle surface › ‹ @ 28.40 FZ 35° 80.0cm, gouge, clay, rock grind ›	VA10108250	I089981	10.67	12	0.48
			VA10108250	I089982	12	13.5	0.26
15			VA10108250	I089984	13.5	15	0.34
			VA10108250	I089985	15	17	0.32
			VA10108250	I089986	17	18.5	0.19
20			VA10108250	I089987	18.5	20	0.19
			VA10108250	I089988	20	22	0.36
			VA10108250	I089990	22	24.5	0.15
25			VA10108250	I089991	24.5	26	0.27
			VA10108250	I089992	26	27.5	0.26
			VA10108250	I089993	27.5	29	0.18
30			VA10108250	I089994	29	30.5	0.25
			VA10108250	I089995	30.5	32	0.27
			VA10108250	I089996	32	33.5	0.27
35			VA10108250	I089998	33.5	35.42	0.27
	Fault	Fault zone in argillite - Unit is mainly black gouge, clay and ground rock with portions of rubble. Overall trend of fault appears to be about 30 degrees to CA. « py 3.0% 0.5-2.0mm» « ank 15.0%» Quartz ‹ @ 44.10 QV3 45° 3.3cm › ‹ @ 42.86 QV2 58° 0.4cm › ‹ @ 42.00 FZ 30° 40.0cm, gouge, average angle of faulting in zone ›	VA10108250	I089999	35.42	37.5	0.22
40			VA10108250	I090000	37.5	41	0.13
			VA10108250	I095001	41	42.5	0.13
45			VA10108250	I095003	42.5	46	0.07
	Cat.2 Argillite, Siltstone	Cat 2 Argillite and Siltstone - argillite is mainly a black, fine grained, massive mudstone with very little siltstone interbeds and 2-3% irregular, fine white injected lines. The top 1m and bottom 1.5m are more siltstone (crystal tuff?) rich, lt grey and competent. « py 3.5% 0.5-2.0mm» « ank 10.0%» ‹ @ 49.70 S1 43.00° › ‹ @ 57.56 S1 20.00° › ‹ @ 48.70 FZ 38° 140.0cm, gouge, clay, rock grind › ‹ @ 55.50 FZ 15° 120.0cm, gouge, clay, rock grind ›	VA10108250	I095004	46	47.5	0.34
			VA10108250	I095005	47.5	49.5	1.04
			VA10108250	[illegible]	49.5	51	0.02

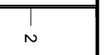
10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
55	Cat.2 Argillite, Siltstone	Cat 2 Argillite and Siltstone - argillite is mainly a black, fine grained, massive mudstone with very little siltstone interbeds and 2-3% irregular, fine white injected lines. The top 1m and bottom 1.5m are more siltstone (crystal tuff?) rich, lt grey and competent. « py 3.5% 0.5-2.0mm» « ank 10.0%» ‹ @ 49.70 S1 43.00° › ‹ @ 57.56 S1 20.00° › ‹ @ 48.70 FZ 38° 140.0cm, gouge, clay, rock grind › ‹ @ 55.50 FZ 15° 120.0cm, gouge, clay, rock grind ›	VA10108250	I095006	49.5	51	0.62
			VA10108250	I095008	51	52.5	0.45
			VA10108250	I095009	52.5	54.5	0.84
			VA10108250	I095010	54.5	56.5	0.34
			VA10108250	I095011	56.5	57.5	0.025
			VA10108250	I095012	57.5	58.8	0.025
60	Fault	Fault Zone - in argillite with minor siltstone and chrome mica mafic dike material, all rocks crushed and ground to various stages. Can't detrmine pyrite or ankerite.	VA10108250	I095013	58.8	62	0.09
65			VA10108250	I095014	62	65	0.12
			VA10108250	I095015	65	66.5	0.43
			VA10108250	I095016	66.5	68	0.39
70			VA10108250	I095018	68	70.5	0.47
			VA10108250	I095019	70.5	74	0.17
75			VA10108250	I095020	74	77.74	0.12
	Cat.1 Argillite	Cat 1 Argillite - could possibly be called Cat 2 in places but a large percentage of the felsic layering can be traced. Approx 3% massive, more siliceous tuff bands up to 15cm, otherwise unit fairly uniform. Large part of unit rubbly, schistose. « py 3.0% 0.5-2.0mm» « ank 10.0%» ‹ @ 81.64 S0 43° › this is only a possible "S0" the contact of a band of tuff but it could be a floating boudin. Other cataci fabric irregular. ‹ @ 85.90 QV3 60° 11.0cm › Faults ‹ @ 80.48 FZ 60° 10.0cm, clay, rock grind › ‹ @ 81.34 FZ 47° 10.0cm, clay, rock grind ›	VA10108250	I095021	77.74	79	0.08
80			VA10108250	I095022	79	80.5	0.08
			VA10108250	I095024	80.5	82	0.05
			VA10108250	I095025	82	83.5	0.025
			VA10108250	I095026	83.5	84.5	0.025
85			VA10108250	I095027	84.5	86	0.025
	Quartzite, Argillite	Interbedded dirty quartzites and argillite (20%). Quartzite is med to dk grey with up to 20% thin wavy interbeds of micaceous, graphitic, pyritic argillite, so not a clean quartzite. Appro 20% of unit is bands of argillite. No significant sericite alteration. « py 2.5% 0.5-4.0mm» pyrite still pulverized, stretched along fabric. « ank 20.0%» ‹ @ 88.70 S1 57° › ‹ @ 93.50 S1 25.00° › ‹ @ 89.39 QV2 30° 0.5cm › ‹ @ 92.71 QV3 88° 3.0cm › ‹ @ 97.20 QV3 35° 15.0cm › Faults ‹ @ 92.92 FZ 45° 24.0cm, gouge, rock grind, 25% crushed quartz › ‹ @ 94.60 FZ 25° 65.0cm, clay, rock grind › ‹ @ 95.85 FZ 38° 100.0cm, gouge, rock grind, rubble ›	VA10108250	I095028	86	87.5	0.025
			VA10108250	I095030	87.5	89	0.025
90			VA10108250	I095031	89	90.5	0.025
			VA10108250	I095032	90.5	92	0.27
			VA10108250	I095033	92	93.5	0.55
			VA10108250	I095034	93.5	95	0.43
95			VA10108250	I095035	95	97	0.64
			VA10108250	I095036	97	98.5	1.12
			VA10108250	I095038	98.5	100	0.025

Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Quartzite, Argillite	Interbedded dirty quartzites and argillite (20%). Quartzite is med to dk grey with up to 20% thin wavy interbeds of micaceous, graphitic, pyritic argillite, so not a clean quartzite. Appro 20% of unit is bands of argillite. No significant sericite alteration.	VA10108250	I095038	98.5	100	0.025
		« py 2.5% 0.5-4.0mm» pyrite still pulverized, stretched along fabric. « ank 20.0%»	VA10108250	I095039	100	101.5	0.025
	Conglomerate	‹ @ 88.70 S1 57° › ‹ @ 93.50 S1 25.00° ›	VA10108250	I095040	101.5	103	0.05
	Quartzite	‹ @ 89.39 QV2 30° 0.5cm › ‹ @ 92.71 QV3 88° 3.0cm › ‹ @ 97.20 QV3 35° 15.0cm ›	VA10108250	I095041	103	104.5	0.025
105		Faults ‹ @ 92.92 FZ 45° 24.0cm, gouge, rock grind, 25% crushed quartz › ‹ @ 94.60 FZ 25° 65.0cm, clay, rock grind › ‹ @ 95.85 FZ 38° 100.0cm, gouge, rock grind, rubble ›	VA10108250	I095043	104.5	106	0.025
		Conglomerate - One metre interval - a possible conglomerate at 102.85m but these "quartz pebbles" may just be pieces of qtzite rotated. Otherwise rock appears just like the next unit. « py 0.5% 0.5-4.0mm» « ank 25.0%» The ankerite rhombs are 30-40% sericitized so over gives about a 5% altered look to unit « ser 5%»	VA10108250	I095044	106	107.5	0.025
		Quartzite - could be referred to as a cat 2 deformed rock as quartzite appears to have been brecciated and suffered movement. Quartz vein flooding is common especially in upper 3m and lower 1m, both QV2+3. Rock is highly siliceous, med to dk grey with brittle fracturing. Resistant to scratching with minor bands and lenses having increased arkosic content as they are less resistant - these portions also tend to be either darker with more graphite or cream colored, the feldspars attacked by sericite to a greater degree. White to clear quartz injections thruout but some of this quartz, espec the clear, may be part of orig rock. Three small probable dikes of green mafics all less than 15cm, have suffered movement also.	VA10108250	I095045	107.5	109	0.025
110		« py 0.2% 0.5-2.0mm» « ank 25.0%»	VA10108250	I095046	109	110.5	0.025
		Quartz ‹ @ 103.46 QV3 55° 20.0cm › ‹ @ 103.74 QV3 70° 1.6cm › ‹ @ 104.34 QV2 70° 3.0cm › ‹ @ 111.38 QV3 25° 2.8cm › ‹ @ 109.03 QV2 40° 1.1cm ›	VA10108250	I095047	110.5	111.87	0.025
		Faults ‹ @ 106.14 FZ 70° 5.0cm, clay rock grind ›	VA10108250	I095048	111.87	113	0.025
	Mafic Dike	Mafic Dike Rock - chrome mica green, massive, fine to med grained with lt beige colored ankerite rhombs to 2mm evenly distributed. Unit is rubbly, fractured throughout. In the upper 3m it's 50/50 mafics and qtzite. In this area the mafics have a blackline crackle breccia effect (chlorite?).	VA10108250	I095050	113	114.5	0.025
115		« py 0.2% 0.5-1.0mm» « ank 30.0%»	VA10108250	I095051	114.5	116	0.025
		‹ @ 113.38 QV2 15° 1.4cm, cream colored › ‹ @ 118.22 QV3 35° 15.0cm ›	VA10108250	I095052	116	117	0.025
		Faults ‹ @ 115.22 FZ 15° 24.0cm, partially healed, clay, rock grind › ‹ @ 116.60 FZ 20° 50.0cm, partially healed, clay, rock grind ›	VA10108250	I095053	117	118.66	0.025
		Quartzite - as at 103m to 111m. Lacks the significant quartz flooding although it does host veins. Zones of the unit can have up to 30 affected by sericite but overall average put around 10. 10% of unit is the more uniform fine grained quartzite that is logged next. Mafic dike material from 127.3m to 133.7.	VA10108250	I095054	118.66	120	0.025
120		« py 0.2% 0.5-2.0mm» « ank 10.0%» « ser 10%, variable»	VA10108250	I095055	120	121.5	0.025
		‹ @ 123.50 S0 68° › compositional bands in the fine grained, more uniform sections. ‹ @ 136.80 S1 30.00° › graphitic, mica slips in the dirty (argillaceous) quartzite ‹ @ 141.50 S0 40° › comp banding	VA10108250	I095057	121.5	123	0.025
		Quartz ‹ @ 127.25 QV1 20° 1.3cm, along mafic dike contact › ‹ @ 127.48 QV2 60° 1.2cm › ‹ @ 128.34 QV3 52° 16.0cm › ‹ @ 131.38 QV3 40° 11.0cm › ‹ @ 133.12 QV3 15° 28.0cm › ‹ @ 133.40 QV2 35° 0.6cm ›	VA10108250	I095058	123	124.5	0.025
125		Faults ‹ @ 135.25 FZ 18° 50.0cm, clay, rock grind › ‹ @ 142.45 FZ 35° 45.0cm, Clay, rock grind, schistose, chloritic ›	VA10108250	I095059	124.5	126	0.025
			VA10108250	I095060	126	127.5	0.025
			VA10108250	I095061	127.5	129	0.025
130			VA10108250	I095062	129	130.5	0.025
	Quartzite		VA10108250	I095064	130.5	132	0.025
			VA10108250	I095065	132	133.5	0.025
			VA10108250	I095066	133.5	135	0.025
135			VA10108250	I095068	135	137	0.025
			VA10108250	I095069	137	138.5	0.07
			VA10108250	I095070	138.5	140	0.025
140			VA10108250	I095071	140	141.5	0.025
			VA10108250	I095072	141.5	143	0.025
		Altered Quartzite - fine grained, cream-lt green, high percentage quartz. Sericite alteration varies 30-45% with the ankerite rhombs being more highly affected and a lighter cream colored.	VA10108250	I095073	143	144.5	0.025
		Sections of more highly sericitized (plus chlorite) cleavage planes that give the rock a schistose fabric, but for the most part the unit is massive and competent.					
145		Mafic dike material from 151m to 154m and in the last metre. Minor black line fracs thruout.	VA10108250	I095074	144.5	146	0.025
		« py 0.2% 0.5-0.5mm» « ank 10.0%» « ser 40%»	VA10108250	I095075	146	147.5	0.025
	Altered Quartzite	‹ @ 154.80 S1 25.00° ›					
		Quartz ‹ @ 148.78 QV2 20° 1.4cm › ‹ @ 153.60 QV2 58° 0.8cm › ‹ @ 157.21 QV3 43° 4.8cm › ‹ @ 160.18 QV2 65° 0.8cm › ‹ @ 155.37 QV3 50° 1.9cm ›	VA10108250	I095077	147.5	149	0.025



10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
150	Altered Quartzite	Altered Quartzite - fine grained, cream-lt green, high percentage quartz. Sericite alteration varies 30-45% with the ankerite rhombs being more highly affected and a lighter cream colored. Sections of more highly sericitized (plus chlorite) cleavage planes that give the rock a schistose fabric, but for the most part the unit is massive and competent. Mafic dike material from 151m to 154m and in the last metre. Minor black line fracs thruout. « py 0.2% 0.5-0.5mm» « ank 10.0%» « ser 40%» ‹ @ 154.80 S1 25.00° › Quartz ‹ @ 148.78 QV2 20° 1.4cm › ‹ @ 153.60 QV2 58° 0.8cm › ‹ @ 157.21 QV3 43° 4.8cm › ‹ @ 160.18 QV2 65° 0.8cm › ‹ @ 155.37 QV3 50° 1.9cm ›	VA10108250	I095077	147.5	149	0.025
			VA10108250	I095078	149	150.5	0.025
			VA10108250	I095079	150.5	152	0.025
			VA10108250	I095080	152	153.5	0.025
			VA10108250	I095082	153.5	155	0.025
155			VA10108250	I095083	155	156.5	1.53
			VA10108250	I095084	156.5	158	0.025
			VA10108250	I095085	158	159.5	0.025
160			VA10108250	I095086	159.5	161	0.025
			VA10108250	I095088	161	162.7	0.025
	Andesite	Andesite - coarsely layered to massive, fine to med grained, grey to shades of green rock. Coarse layering defined by appearance of either chrome green (sharp contacts) or olive green speckling (not assoc with ankerite). Overall impression of interlayered mafic rocks - possibly flows with dike interbeds(?) « py 0.2%» « ank 10.0%» « ser 5%» No bedding trusated to measure. Quartz ‹ @ 164.32 QV3 23° 2.0cm, sph, gal. › ‹ @ 164.32 sph 5.0% 2.0-16.0mm › ‹ @ 164.32 gal 2.0% ›	VA10108250	I095089	162.7	164	0.025
165			VA10108250	I095090	164	165.5	1.45
			VA10108250	I095091	165.5	167	0.025
			VA10108250	I095092	167	168.5	0.025
			VA10108250	I095093	168.5	169.5	0.025
170			VA10108250	I095094	169.5	170.7	0.025
	Argillite, Siltstone	Argillite and siltstone (50-50) with minor mafic dike material and quartz rich interbeds. Large pyrite cubes, graphitic. Some sections show destruction of lighter felsic beds but not strong, and not everywhere. « py 7.0% 0.5-20.0mm» alot of cubes not fractured. « ank 20.0%» ‹ @ 173.30 S1 40.00° › Faults ‹ @ 171.30 FZ 30° 20.0cm, clay, rock grind › ‹ @ 172.88 FZ 27° 14.0cm, clay, rock grind ›	VA10108250	I095095	170.7	172.5	0.08
			VA10108250	I095096	172.5	174	0.21
175			VA10108250	I095098	174	175	1.02
			VA10108250	I095099	175	176	0.27
	Andesite	Andesite - as at 162m to 170m. Mixed mafic flows and dyke material. Minor grey fine grained tuff horizons with possibly quartz-rich sections. Sericitic alteration in places, averages 10% overall. « py 0.5% 0.5-15.0mm» cubes exist but show fracturing « ank 25.0%» « ser 10%» No consistent, trustworthy angle to either S1, or S0. Quartz ‹ @ 179.37 QV2 43° 1.7cm › Faults‹ @ 176.35 FZ 25° 4.0cm, clay, rock grind › ‹ @ 181.70 FZ 47° 22.0cm, clay, rock grind › ‹ @ 188.92 FZ 25° 24.0cm, clay, rock grind, rubble ›	VA10108250	I095100	176	177.5	0.025
			VA10108250	I095101	177.5	179	0.05
180			VA10108250	I095103	179	180.5	0.025
			VA10108250	I095104	180.5	182	0.025
			VA10108250	I095105	182	183.5	0.025
185			VA10108250	I095107	183.5	185	0.025
			VA10108250	I095108	185	186.5	0.025
			VA10108250	I095109	186.5	188	0.025
			VA10108250	I095110	188	189.7	0.025
190	Siltstone, Greywacke	Interbedded siltstones and greywackes - medium greys, fine to med grained, mainly fairly uniform and massive with poor coarse banded effect in places, sometimes a fabric suggested by chlorite seams and blebs (this may represent a mafic volcanic component - not common). « py 1.5% 0.5-12.0mm» cubes are fractured but not stretched « ank 15.0%» ‹ @ 193.78 S0 55° › possible bed contact Quartz ‹ @ 190.43 QV2 75° 1.1cm › ‹ @ 192.74 QV2 70° 0.8cm › ‹ @ 194.91 QV3 55° 1.2cm › ‹ @ 194.91 sph 2.0% › ‹ @ 197.19 QV3 50° 3.2cm, gal › ‹ @ 197.19 gal 0.5% › Faults ‹ @ 191.70 FZ 45° 130.0cm, clay, rock grind, rubble ›	VA10108250	I095111	189.7	191	0.025
			VA10108250	I095112	191	192.5	0.025
			VA10108250	I095113	192.5	194	0.025
195			VA10108250	I095114	194	195.5	0.025
			VA10108250	I095115	195.5	197	0.15
			VA10108250	I095116	197	198.5	0.025

10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Siltstone, Greywacke	Interbedded siltstones and greywackes - medium greys, fine to med grained, mainly fairly uniform and massive with poor coarse banded effect in places, sometimes a fabric suggested by chlorite seams and blebs (this may represent a mafic volcanic component - not common).	VA10108250	I095118	198.5	199.59	0.025
200		« py 1.5% 0.5-12.0mm» cubes are fractured but not stretched « ank 15.0%»	VA10108250	I095119	199.59	201	0.3
		‹ @ 193.78 S0 55° › possible bed contact	VA10108250	I095120	201	202.5	0.39
		Quartz ‹ @ 190.43 QV2 75° 1.1cm › ‹ @ 192.74 QV2 70° 0.8cm › ‹ @ 194.91 QV3 55° 1.2cm › ‹ @ 194.91 sph 2.0% › ‹ @ 197.19 QV3 50° 3.2cm, gal › ‹ @ 197.19 gal 0.5% ›	VA10108250	I095121	202.5	204	0.27
205		Faults ‹ @ 191.70 FZ 45° 130.0cm, clay, rock grind, rubble ›	VA10108250	I095122	204	205.5	0.07
	Cat.1 Argillite	Cat 1 Argillite - fine grained, mainly dark grey-black with few lighter felsic layers. The minor thin ones present suggest some deformation so put Cat 1 but could just as well be Cat 2.	VA10108250	I095124	205.5	207	0.08
		« py 2.5% 0.5-2.0mm» pyrites are fractured and elongated along fabric « ank 15.0%»	VA10108250	I095125	207	208.5	0.09
		‹ @ 207.44 S1 65.00° › ‹ @ 210.15 S1 32.00° ›	VA10108250	I095126	208.5	210	0.14
210		Quartz ‹ @ 200.86 QV3 35° 11.0cm › ‹ @ 200.86 gal 0.2% › ‹ @ 200.86 VG 2 1.0mm, 1mm grain with small bleb of galena › ‹ @ 202.42 QV3 43° 8.3cm › ‹ @ 208.12 QV2 70° 3.2cm ›	VA10108250	I095127	210	211.5	0.05
		Fault ‹ @ 202.30 FZ 50° 5.0cm, clay, rock grind, angle est › ‹ @ 205.70 FZ 60° 9.0cm, clay, rock grind ›	VA10108250	I095128	211.5	212.15	0.025
		‹ @ 208.68 FZ 10° 70.0cm, clay, rock grind approx 4cm wide subparallels for 70cm ›	VA10108250	I095129	212.15	214	0.025
		Mixed crystal tuffs, siltstone/argillite and minor layers or boudins of mafic dike material. Unit is fine to med grained, light to dark grey, with black lenses and thin lines of graphitic argillite, as well as interlayers of siltstone intermixing with the tuffaceous horizons. Breakages and discontinuities suggest this intermixed unit could be classified as Cat 1. Less than 5% green chrome mica mafic material forms irregular and partly assimilated lenses to 8cm wide.	VA10108250	I095130	214	215.5	0.025
215	Crystal Tuffs, Sediments	« py 1.5% 0.5-16.0mm» cubes have disintegrated but most are still in shape, not stretched along fabric. « ank 12.0%»	VA10108250	I095132	215.5	217	0.025
		‹ @ 216.50 S1 30.00° ›	VA10108250	I095133	217	218.5	0.07
		Quartz ‹ @ 213.09 QV2 40° 1.0cm › ‹ @ 214.06 QV2 30° 0.8cm › ‹ @ 215.04 QV2 20° 0.7cm › ‹ @ 219.37 QV3 42° 8.5cm, highly fractured, total of 4 to 5 veins ›	VA10108249	I095134	218.5	219.73	0.42
220		Some minor shears Cat 1 argillite, siltstone - could have arguments for Cat 2, but unit has definitely suffered deformation. Unit is more uniform in appearance, darker grey to black, the felsic interlayers thinner and less abundant - the black graphitic mudstone is a more significant component. From 241m to end of unit (lower 7 to 8m) unit is highly fractured, faulted, rubbled.	VA10108249	I095135	219.73	221.5	1.18
		« py 2.5% 0.5-4.0mm» cubes fractured, stretched along fractures in most areas. « ank 20.0%»	VA10108249	I095136	221.5	223	0.27
		‹ @ 229.70 S1 72.00° › ‹ @ 238.30 S1 45.00° › these are average examples	VA10108249	I095138	223	224.5	0.25
225		Quartz ‹ @ 236.49 QV3 30° 5.0cm › ‹ @ 240.77 QV3 47° 3.7cm › ‹ @ 245.40 QV3 45° 32.0cm, angle est, vein in a fault zone, crushed ›	VA10108249	I095139	224.5	226.5	0.28
		Fault ‹ @ 220.35 FZ 40° 28.0cm, clay, rock grind › ‹ @ 224.35 FZ 38° 75.0cm, clay, rock grind › ‹ @ 225.75 FZ 45° 120.0cm, clay, rock grind › ‹ @ 241.80 FZ 80° 40.0cm, gouge, rubble › ‹ @ 242.65 FZ 35° 20.0cm, clay, schistose › ‹ @ 243.55 FZ 75° 4.0cm, gouge, angle est › ‹ @ 245.36 FZ 48° 120.0cm, clay, rock grind, rubble, angle est › ‹ @ 248.00 FZ 10° 135.0cm, clay and rock grind 3 to 5cm subparallel to CA ›	VA10108249	I095140	226.5	228	0.23
			VA10108249	I095142	228	229.5	0.08
230			VA10108249	I095143	229.5	231	0.09
			VA10108249	I095144	231	232.5	0.16
			VA10108249	I095145	232.5	234	0.23
	Cat.1 Argillite, Siltstone		VA10108249	I095146	234	235.5	0.14
235			VA10108249	I095148	235.5	237	0.22
			VA10108249	I095149	237	238.5	0.08
			VA10108249	I095150	238.5	240	0.27
240			VA10108249	I095151	240	241.5	0.86
			VA10108249	I095152	241.5	243	0.73
			VA10108249	I095153	243	244.5	0.34
245			VA10108249	I095154	244.5	246	0.06
			VA10108249	I095155	246	247.5	0.025
			VA10108249	I095156	247.5	249	0.15

10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	**Geochemistry**				
	Cat 1 Argillite, Siltstone	Cat 1 argillite, siltstone - could have arguments for Cat 2, but unit has definitely suffered deformation. Unit is more uniform in appearance, darker grey to black, the felsic interlayers thinner and less abundant - the black graphitic mudstone is a more significant component. From 241m to end of unit (lower 7 to 8m) unit is highly fractured, faulted, rubbled.	VA10108249	I095156	247.5	249	0.15
250		« py 2.5% 0.5-4.0mm» cubes fractured, stretched along fractures in most areas. « ank 20.0%»	VA10108249	I095158	249	250.5	0.14
		‹ @ 229.70 S1 72.00° › ‹ @ 238.30 S1 45.00° › these are average examples	VA10108249	I095159	250.5	252	0.025
		Quartz ‹ @ 236.49 QV3 30° 5.0cm › ‹ @ 240.77 QV3 47° 3.7cm › ‹ @ 245.40 QV3 45° 32.0cm, angle est, vein in a fault zone, crushed ›	VA10108249	I095160	252	253.5	0.025
		Fault ‹ @ 220.35 FZ 40° 28.0cm, clay, rock grind › ‹ @ 224.35 FZ 38° 75.0cm, clay, rock grind › ‹ @ 225.75 FZ 45° 120.0cm, clay, rock grind › ‹ @ 241.80 FZ 80° 40.0cm, gouge, rubble › ‹ @ 242.65 FZ 35° 20.0cm, clay, schistose › ‹ @ 243.55 FZ 75° 4.0cm, gouge, angle est › ‹ @ 245.36 FZ 48° 120.0cm, clay, rock grind, rubble, angle est › ‹ @ 248.00 FZ 10° 135.0cm, clay and rock grind 3 to 5cm subparallel to CA ›	VA10108249	I095161	253.5	255	0.08
255		Siltstone and crystal tuff (60-40, the latter more prominent in lower half) - fine grained, lt to med greys, with faint layering in places caused by more muddy or schistose partings. The crystal (lithic in places) tuff sections are more finer grained and appear to have more quartz component. Some of this siltstone could possibly be called greywacke. Laminated sections present in siltstone.	VA10108249	I095163	255	256.5	0.97
		« py 1.5% 0.5-10.0mm» good cubes « ank 10.0%»	VA10108249	I095164	256.5	258	0.11
		‹ @ 255.62 S1 38.00° › ‹ @ 263.10 S0 30° › laminations in silt This seems to be the rough bedding for the unit.	VA10108249	I095165	258	259.5	0.06
260	Siltstone, Crystal Tuff	Quartz ‹ @ 249.86 QV2 35° 0.6cm › ‹ @ 255.70 QV3 30° 2.0cm › ‹ @ 268.88 QV3 58° 3.6cm ›	VA10108249	I095166	259.5	261	0.025
		Faults ‹ @ 255.65 FZ 38° 4.0cm, clay, rock grind › ‹ @ 259.88 FZ 20° 35.0cm, clay, rock grind › ‹ @ 261.45 FZ 50° 5.0cm, clay, rock grind › ‹ @ 261.90 FZ 40° 50.0cm, clay, rock grind, rubble › ‹ @ 266.20 FZ 25° 165.0cm, clay, rock grind, rubble ›	VA10108249	I095167	261	262.5	0.025
			VA10108249	I095169	262.5	264	0.09
265			VA10108249	I095170	264	265.5	0.025
			VA10108249	I095171	265.5	267	0.025
			VA10108249	I095172	267	268.5	0.025
270			VA10108249	I095173	268.5	270.5	0.08
			VA10108249	I095174	270.5	271.5	0.025
	Siltstone	Siltstone - med to dk grey, close to mudstone but not fissile or black enough. Has cleavage/fabric but massive in appearance. Layering, lamination flows subparallel to CA so going down beds.	VA10108249	I095175	271.5	273	0.21
		« py 4.0% 0.5-14.0mm» cubes still intact « ank 15.0%»	VA10108249	I095176	273	274.5	0.16
275		‹ @ 273.10 S0 10° › bedding within the seds ‹ @ 276.70 S0 5° › bedding subparallels CA	VA10108249	I095178	274.5	276	0.65
		Quartz ‹ @ 271.52 QV2 65° 1.2cm › ‹ @ 271.86 QV2 70° 1.8cm ›	VA10108249	I095179	276	277.12	0.06
	Crystal Tuff	Crystal Tuff - med grey, fine grained with a fabric defined by alignment of darker elongated collections of blebs, here subparalleling the CA - these possibly are lithic frags. Blue dustings on fractures.	VA10108249	I095180	277.12	279	0.025
280		« py 0.5% 0.5-10.0mm» cubes intact « ank 15.0%»	VA10108249	I095181	279	280.5	0.025
		‹ @ 278.00 S0 5° › stretched lithis fragmnts subparallel to CA	VA10108249	I095183	280.5	282	0.025
		Interbedded siltstones and greywackes - Siltstones are darker grey,fine grained while the greywackes are med grained, med grey and fine to med grained with a recognizable mix of rounded grains. Lacks fabric, has gritty feel. Unit is blocky, rubble. Minor interbedded tuff at top.	VA10108249	I095184	282	283.5	0.025
		« py 0.7% 0.5-13.0mm» « ank 12.0%»	VA10108249	I095185	283.5	285	0.25
285		‹ @ 283.90 S1 45.00° ›	VA10108249	I095186	285	286.5	0.025
	Siltstone, Greywacke	‹ @ 282.94 QV2 45° 0.8cm ›	VA10111297	I095187	286.5	288	0.025
		Faults ‹ @ 285.25 FZ 40° 60.0cm, clay, rock grind › ‹ @ 286.50 FZ 20° 100.0cm, clay, rock grind, rubble › ‹ @ 288.75 FZ 25° 80.0cm, clay, rock grind, rubble ›	VA10111297	I095188	288	289.9	0.27
		Conglomerate - med grey, fine to med grained with coarse grained , coarse sand to very coarse sand sized granules, sub angular to rounded. Compositions are feldspars and quartz, varying colors, with rare lithic granules and even rarer pebbles to 6cm by 2cm usually cream, grey or black. These form less than 3% of unit. There is a slight cream-green tinge to the granules, possibly seeing sericitic alteration.	VA10111297	I095189	289.9	291	0.025
290		« py 0.2% 0.5-5.0mm» cubes, not fractured « ank 10.0%»	VA10111297	I095191	291	292.12	0.025
	Conglomerate	Any fabric measurement tenuous at best, no bedding, no distinct elongation. No significant quartz or faults.					
		Fault zone - the first 1 to 2 metres is conglomerate, then into siltstones and more schistose, graphitic argillites.	VA10111297	I095192	292.12	294.5	0.025
		« py 2.0% 0.5-12.0mm» cubes present - appear to have grown after deformation. « ank 15.0%» Quartz veining crushed, rolled.	VA10111297	I095193	294.5	296	0.025
295	Fault	Faults ‹ @ 294.30 FZ 75° 130.0cm, gouge, clay, rock grind, rubble › ‹ @ 296.00 FZ 55° 110.0cm, gouge, clay, rock grind, rubble › ‹ @ 297.50 FZ 20° 20.0cm, clay, schistose rock grind › ‹ @ 298.45 FZ 8° 30.0cm, clay, rock grind › ‹ @ 299.50 FZ 25° 100.0cm, clay, rock grind ›	VA10111297	I095194	296	297.5	0.21

10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
		Geology	**Geochemistry**				
300	Fault	Fault zone - the first 1 to 2 metres is conglomerate, then into siltstones and more schistose, graphitic argillites. « py 2.0% 0.5-12.0mm» cubes present - appear to have grown after deformation. « ank 15.0%» Quartz veining crushed, rolled. Faults ‹ @ 294.30 FZ 75° 130.0cm, gouge, clay, rock grind, rubble › ‹ @ 296.00 FZ 55° 110.0cm, gouge, clay, rock grind, rubble › ‹ @ 297.50 FZ 20° 20.0cm, clay, schistose rock grind › ‹ @ 298.45 FZ 8° 30.0cm, clay, rock grind › ‹ @ 299.50 FZ 25° 100.0cm, clay, rock grind ›	VA10111297	I095195	297.5	299	0.025
			VA10111297	I095196	299	301.45	0.025
			VA10111297	I095197	301.45	303	0.025
	Siltstone	Siltstone - fine grained, med to dk grey, with 5% fine spider-like felsic lines. Schistose, graphitic sections and partings give rise to a rubble effect over whole unit. « py 1.0% 0.5-8.0mm» cubes, plus alot of smaller cubes in the felsic lines « ank 25.0%» ‹ @ 301.55 S1 30.00° › ‹ @ 309.15 S1 45.00° › ‹ @ 308.00 QV3 30° 18.0cm › ‹ @ 304.75 FZ 40° 25.0cm, gouge, clay, rock grind › ‹ @ 307.30 FZ 35° 90.0cm, gouge, clay rock grind ›	VA10111297	I095198	303	304.5	0.025
305			VA10111297	I095200	304.5	306.5	0.025
			VA10111297	I095201	306.5	308.5	0.19
			VA10111297	I095203	308.5	310	0.025
310		Mixed siltstone, greywacke and crystal (lithic) tuffs - very minor thin lenses possibly conglomerate. Unit is light to medium grey, fine to med grained with sedimentary sections showing banding to lesser fine bedding. Less than 3% of unit has incr graphitic schistosity to possibly be labelled argillite. The tuffs are finer grained and have a glassy look to them with variable amts of qtz grains and/or feldspar laths and dk grey lithic subangular fragments. Tuffs also have the blue dusting on the fractures. Sediments either have graphite slicks or just grey breakages. Some calcite frac coatings 350m to end of unit. « py 1.5% 0.5-13.0mm» good cubes « ank 12.0%» ‹ @ 327.23 QV3 45° 7.2cm › ‹ @ 330.70 QV3 0° 14.0cm, no readable angle, fault crush › ‹ @ 346.98 QV2 35° 2.7cm › ‹ @ 347.74 QV2 48° 1.8cm › ‹ @ 348.57 QV2 40° 3.5cm › Faults ‹ @ 334.90 FZ 15° 50.0cm, 6cm clay and rock grind subparallel to CA › ‹ @ 341.50 FZ 10° 60.0cm, 3cm clay and rock grind subparallel to CA ›	VA10111297	I095204	310	311.5	0.025
			VA10111297	I095205	311.5	313	0.025
			VA10111297	I095206	313	314.5	0.025
315			VA10111297	I095208	314.5	316	0.025
			VA10111297	I095209	316	317.5	0.025
			VA10111297	I095210	317.5	319	0.025
320			VA10111297	I095211	319	320.5	0.025
			VA10111297	I095212	320.5	322	0.025
			VA10111297	I095213	322	323.5	0.07
325			VA10111297	I095214	323.5	325	0.06
			VA10111297	I095216	325	326.5	0.025
	Siltstone, Greywacke, Crystal Tuff		VA10111297	I095217	326.5	328	0.95
330			VA10111297	I095218	328	329.5	0.025
			VA10111297	I095220	329.5	331	0.025
			VA10111297	I095221	331	332.5	0.025
			VA10111297	I095222	332.5	334	0.025
335			VA10111297	I095223	334	335.5	0.025
			VA10111297	I095224	335.5	337	0.025
			VA10111297	I095225	337	338.5	0.16
			VA10111297	I095226	338.5	340	0.08
340			VA10111297	I095227	340	341.5	0.025
			VA10111297	I095228	341.5	343	0.025
			VA10111297	I095230	343	344.5	0.025
345			VA10111297	I095231	344.5	346	0.025
			VA10111297	I095232	346	347.5	0.13

10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
350	Siltstone, Greywacke, Crystal Tuff	Mixed siltstone, greywacke and crystal (lithic) tuffs - very minor thin lenses possibly conglomerate. Unit is light to medium grey, fine to med grained with sedimentary sections showing banding to lesser fine bedding. Less than 3% of unit has incr graphitic schistosity to possibly be labelled argillite. The tuffs are finer grained and have a glassy look to them with variable amts of qtz grains and/or feldspar laths and dk grey lithic subangular fragments. Tuffs also have the blue dusting on the fractures. Sediments either have graphite slicks or just grey breakages. Some calcite frac coatings 350m to end of unit. « py 1.5% 0.5-13.0mm» good cubes « ank 12.0%» ‹ @ 327.23 QV3 45° 7.2cm › ‹ @ 330.70 QV3 0° 14.0cm, no readable angle, fault crush › ‹ @ 346.98 QV2 35° 2.7cm › ‹ @ 347.74 QV2 48° 1.8cm › ‹ @ 348.57 QV2 40° 3.5cm › Faults ‹ @ 334.90 FZ 15° 50.0cm, 6cm clay and rock grind subparallel to CA › ‹ @ 341.50 FZ 10° 60.0cm, 3cm clay and rock grind subparallel to CA ›	VA10111297	I095232	346	347.5	0.13
			VA10111297	I095233	347.5	349	0.025
			VA10111297	I095234	349	350.5	0.025
			VA10111297	I095235	350.5	352	0.025
			VA10111297	I095237	352	353.5	0.025
355			VA10111297	I095238	353.5	355	0.025
			VA10111297	I095239	355	356.5	0.025
			VA10111297	I095240	356.5	358	0.025
360	Altered Andesite (Ser 45%)	Altered andesite - massive, fine grained, lt cream with tinge of olive green - lower metre has the olive green speckled effect as haloes around a coarse grained mineral. Again as at the bottom of the last unit there are calcium rich fractures that fizz with acid thruout the unit. Distinct lack of the usual thin qtz veining. « py 0.2%» « ank 15.0%» « ser 45%» No real shearing but rock fractures easily at the weak calcite coated jointing.	VA10111297	I095241	358	359.5	0.025
			VA10111297	I095242	359.5	361	0.025
			VA10111297	I095244	361	362.5	0.025
			VA10111297	I095245	362.5	364	0.025
365			VA10111297	I095246	364	365.5	0.025
			VA10111297	I095247	365.5	367.28	0.025
370	Siltstone	Siltstone: fg, med to dk grey, with fine spider-like felsic veinlets. Graphitic rich areas are seen along fractures giving the rock an almost shistose foliation in localised places. Bedding not clear. « ank 18.0%» « py 0.3% 2.0-5.0mm» cubic ‹ @ 369.20 QV2 22° 0.2cm ›	VA10111297	I095248	367.28	368.5	0.025
			VA10111297	I095250	368.5	370	0.025
			VA10111297	I095251	370	371.5	0.025
			VA10111297	I095252	371.5	372.7	0.025
375	Greywacke Alt. 10%	Greywacke Alt. 10%: Pale grey fg slightly altered greywacke with brecciated texture. Texture given by fine black graphitic anastomising veinlets giving the jigsaw texture. « ank 20.0%» « py 0.3% 1.0-2.0mm» ‹ @ 381.00 S0 30° › ‹ @ 372.85 QV3 20° 2.5cm › ‹ @ 374.95 QV3 32° 1.7cm › ‹ @ 375.50 QV2 60° 0.2cm › ‹ @ 375.03 QV3 70° 1.0cm › ‹ @ 376.00 QV3 60° 8.0cm, 30% py › ‹ @ 376.43 QV3 60° 2.5cm › ‹ @ 376.53 QVpy 50° 13.0mm › ‹ @ 382.20 QV3 60° 2.8cm ›	VA10111297	I095253	372.7	374	0.16
			VA10111297	I095254	374	375.5	0.14
			VA10111297	I095255	375.5	377	0.94
			VA10111297	I095257	377	378.5	0.025
380			VA10111297	I095258	378.5	380	0.025
			VA10111297	I095259	380	381.5	0.025
			VA10111297	I095260	381.5	383	0.025
385	Siltstone / Greywacke	Siltstone/Greywacke: Mixed dk grey fg siltstone with grey fg-mg greywacke. Bedding is not obvious and in places has brecciated texture. Minor amount of graphite seen along fractures. « ank 21.0%» « py 0.3%» ‹ @ 387.22 S0 32° › ‹ @ 385.90 QV2 40° 0.2cm › ‹ @ 388.95 QV2 30° 0.2cm › ‹ @ 389.90 QV3 55° 0.5cm › ‹ @ 393.10 QV3 40° 0.4cm ›	VA10111297	I095261	383	384.5	0.025
			VA10111297	I095263	384.5	386	0.025
			VA10111297	I095264	386	387.5	0.025
			VA10111297	I095265	387.5	389	0.13
390			VA10111297	I095266	389	390.5	0.025
			VA10111297	I095267	390.5	392	0.05
			VA10111297	I095268	392	393.5	0.025
395	Crystal Tuff (25% Alt.)	Crystal Tuff (25% Alt.): V.fg to fg altered crystal tuff. Massive in texture but with some thin black spider veinlets throughout. Patches of ankerite rhombs with dark green chlorite rimming are seen and pyrite shown as euhedral cubic xls. Mild acid reaction to white powder filling fractures. « ank 12.0%» « py 0.3%» « ser 25%»	VA10111297	I095270	393.5	395	0.025
			VA10111297	I095271	395	396.5	0.025
			VA10111297	I095272	396.5	398	0.025

10-DDH-916	North :5828307	East :604635	Elevation :968.9	Hole Length :437.39	Azimuth :185	Dip :-45	Logged by :JAS	Size :NQ	15 July 2011

Geology			Geochemistry				
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
400	Crystal Tuff (25% Alt.)	Crystal Tuff (25% Alt.): V.fg to fg altered crystal tuff. Massive in texture but with some thin black spider veinlets throughout. Patches of ankerite rhombs with dark green chlorite rimming are seen and pyrite shown as euhedral cubic xls. Mild acid reaction to white powder filling fractures. « ank 12.0%» « py 0.3%» « ser 25%»	VA10111297	I095272	396.5	398	0.025
			VA10111297	I095273	398	399.5	0.025
	Siltstone / Tuff	Siltstone/Tuff: Thinly laminated to medium bedded dark grey siltstone (60%) with variably altered crystal tuff (40%). Laminations are planar, undisturbed, with clear contacts with the altered tuff beds. Little qz veining. « ank 8.0%» « py 0.3%» ‹ @ 400.35 S0 22° › ‹ @ 402.50 S0 28° ›	VA10111297	I095274	399.5	401	0.025
			VA10111297	I095275	401	402.5	0.025
			VA10111297	I095277	402.5	404	0.025
405	Tuff (30% Alt.)	Tuff (30% Alt.): V.fg pale cream massive tuff. No bedding visible and lacks the dark thin veinlets or brecciated texture. Contains large pervasive ankerite blebs (3-4mm) with a 30cm patch of chlorite rimmed darker blebs. Acid reaction to fracture filling. « ank 25.0%» « py » « 406.00- 406.30 chl 3%»	VA10111297	I095278	404	405.5	0.025
			VA10111297	I095279	405.5	407	0.025
			VA10111297	I095280	407	408.36	0.025
410	Siltstone / Tuff (5% Alt.)	Siltstone/Tuff (5% Alt.): Thinly laminated to medium bedded dark grey fg siltstone (65%) with fg pale grey to pale cream tuff (35%). Unit is variably altered throughout up about 5%. Bedding can be planar in areas and quite contorted in others giving the unit a mixed appearance. Areas of fault gouge ,grind in the middle of the unit. « ank 18.0%» « py 0.4% 3.0-12.0mm» ‹ @ 412.00 S0 40° › ‹ @ 421.85 S0 50° › ‹ @ 414.07 QV3 26° 0.8cm › ‹ @ 413.28 FZ 60° 12.0cm, grind, breccia slicks › ‹ @ 414.35 FZ 0° 10.0cm, alpha not measurable, grind › ‹ @ 415.00 FZ 43° 40.0cm, gouge, grind ,slicks ›	VA10111297	I095281	408.36	410	0.025
			VA10111297	I095283	410	411.5	0.025
			VA10111297	I095284	411.5	413	0.025
			VA10111297	I095285	413	414.5	0.025
415			VA10111297	I095286	414.5	416	0.06
			VA10111297	I095287	416	417.5	0.025
			VA10111297	I095288	417.5	419	0.025
420			VA10111297	I095289	419	420.5	0.025
			VA10111297	I095291	420.5	422	0.025
			VA10111297	I095292	422	423.13	0.025
	Tuff / Siltstone (30% Alt.)	Tuff/Siltstone (30% Alt.): Similar mixed/interbedded tuff/siltstone (60/40) but showing higher alteration. Lower 3m of the unit has a jigsaw texture with fine black graphitic veinlets anastomising across the surface giving the brecciated appearance. « ank 16.0%» « py 0.1%» ‹ @ 424.00 S0 49° › ‹ @ 433.50 S0 42° › ‹ @ 434.38 QV2 70° 2.1cm › ‹ @ 429.75 FZ 0° 12.0cm, alpha not measurable ›‹ @ 434.50 FZ 70° 0.4cm, gouge ›	VA10111297	I095293	423.13	424.5	0.025
425			VA10111297	I095294	424.5	426	0.025
			VA10111297	I095295	426	427.5	0.025
			VA10111297	I095296	427.5	429	0.025
430			VA10111297	I095298	429	430.5	0.025
			VA10111297	I095299	430.5	432	0.025
			VA10111297	I095300	432	433.5	0.025
435			VA10111297	I095301	433.5	435	0.025
			VA10111297	I095303	435	436	0.025
	EOH	End of hole.	VA10111297	I095304	436	437.39	0.025
440							
445							

Scale 1:200	Start Depth :396.77	End Depth :446.36	Page No.: 9

10-DDH-917	North :5828509	East :604092	Elevation :983	Hole Length :240.63	Azimuth :208	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Geology Rocktype		Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
5		Casing	No core recovered					
10		Tuff w/ siltstone _ mafic dykes	Crystal Tuff w/ siltstone, mfc dyke: Mixed interbedded fg pale grey to grey crystal tuff (70%) with thin beds of fg dark grey-black siltstone (5-10cm), thickly laminated ribbon chert (siliceous, hard pale and mg green cr-mica bearing mafic dyke rocks. 9.14-16m highly weathered and stained brown. Py shows as euhedral cubes throughout with a few Py stringers containing cubic py. Very little quartz veining. Occasional lithic rich patches- 5-10 cm in size. Lithics are black small and angular, <2mm in size. « 14.90- 15.65 Mafic-dyke » « 19.23- 20.20 Mafic-dyke » « 20.81- 22.30 Mafic-dyke » « 38.00- 38.40 Ribbon Chert » « ank 3%» « py 0.2% 3.0-8.0mm» ‹ @ 23.40 S0 53° › ‹ @ 44.15 S0 60° › ‹ @ 32.08 QVbull 30° 0.4cm › ‹ @ 240.63 QVpy 50° 3mm ›	VA10108248	I005327	9.14	11	0.025
				VA10108248	I005328	11	12.5	0.025
				VA10108248	I005329	12.5	14	0.025
15				VA10108248	I005330	14	16	0.025
				VA10108248	I005331	16	17.5	0.025
				VA10108248	I005332	17.5	19	0.025
20				VA10108248	I005334	19	20.81	0.025
				VA10108248	I005335	20.81	22.3	0.025
				VA10108248	I005336	22.3	24	0.025
25				VA10108248	I005337	24	25.5	0.025
				VA10108248	I005338	25.5	27	0.025
				VA10108248	I005339	27	28.5	0.025
30				VA10108248	I005341	28.5	30	0.025
				VA10108248	I005342	30	31.5	0.025
				VA10108248	I005343	31.5	33	0.025
35				VA10108248	I005344	33	34.5	0.025
				VA10108248	I005346	34.5	36	0.025
				VA10108248	I005347	36	37.5	0.025
				VA10108248	I005348	37.5	39	0.025
40				VA10108248	I005349	39	40.5	0.025
				VA10108248	I005350	40.5	42	0.025
				VA10108248	I005351	42	43.5	0.025
				VA10108248	I005353	43.5	45	0.025
45				VA10108248	I005354	45	46.5	0.025
				VA10108248	I005355	46.5	48	0.025
		Fault Zone (Tuff)	Fault zone in the same rock as previous unit. « ank 4%» « py 0.2% 4.0-6.0mm» ‹ @ 54.13 QV2 50° 0.5cm › ‹ @ 50.30 FZ 32° 38.0cm, gouge, grind slicks › ‹ @ 53.80 FZ 60° 25.0cm, grind slicks › ‹ @ 56.20 FZ 65° 37.0cm, gouge _slicks › ‹ @ 56.80 FZ 25° 33.0cm, gouge › ‹ @ 58.80 FZ 0° 14.0cm, not measurable, gouge › ‹ @ 61.70 FZ 0° 18.0cm, not measurable, gouge ›	VA10108248	I005356	48	49.5	0.025
				VA10108248	I005357	49.5	51	0.025

Scale 1:200	Start Depth :0.00	End Depth :49.60	Page No.: 1

10-DDH-917	North :5828509	East :604092	Elevation :983	Hole Length :240.63	Azimuth :208	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
55	Fault Zone (Tuff)	Fault zone in the same rock as previous unit. « ank 4%» « py 0.2% 4.0-6.0mm» ‹ @ 54.13 QV2 50° 0.5cm › ‹ @ 50.30 FZ 32° 38.0cm, gouge, grind slicks › ‹ @ 53.80 FZ 60° 25.0cm, grind slicks › ‹ @ 56.20 FZ 65° 37.0cm, gouge _slicks › ‹ @ 56.80 FZ 25° 33.0cm, gouge › ‹ @ 58.80 FZ 0° 14.0cm, not measurable, gouge › ‹ @ 61.70 FZ 0° 18.0cm, not measurable, gouge ›	VA10108248	I005357	49.5	51	0.025
			VA10108248	I005358	51	52.5	0.025
			VA10108248	I005359	52.5	54	0.025
			VA10108248	I005361	54	55.5	0.025
			VA10108248	I005362	55.5	57.5	0.025
60			VA10108248	I005363	57.5	59	0.025
			VA10108248	I005364	59	60.5	0.025
			VA10108248	I005365	60.5	62.25	0.025
	Tuff / Siltstone (70 / 30%)	Tuff/Siltstone (70/30%): Interbedded/mixed fg grey tuff with fg dark grey/black siltstone. Unit also contains some v.fg pale grey hard siliceous rock (tuff?) which displays jigsaw texture. Pyrite abundance increases slightly with sediment content- displays as large euhedral xls. « ank 8%» « py 0.2% 3.0-5.0mm» ‹ @ 68.14 S0 43° › No qz veins	VA10108248	I005366	62.25	64	0.025
65			VA10111296	I005367	64	65.5	0.025
			VA10111296	I005368	65.5	67	0.025
			VA10111296	I005370	67	68.5	0.025
			VA10111296	I005371	68.5	70	0.025
70			VA10111296	I005372	70	71.5	0.025
			VA10111296	I005374	71.5	73	0.025
			VA10111296	I005375	73	74.5	0.025
75	Fault (Siltstone / Tuff)	Fault (Siltstone/Tuff): Fault zone in mixed siltstone/tuff. « ank 6%» « py 0.2% 3.0-8.0mm» « 82.70- 82.80 Mafic-dyke 0°» ‹ @ 74.13 FZ 32° 1.5cm, gouge, slicks › ‹ @ 75.59 FZ 50° 58.0cm, grind slicks › ‹ @ 77.65 FZ 62° 46.0cm, gouge _slicks › ‹ @ 80.00 FZ 63° 526.0cm › ‹ @ 84.12 FZ 26° 21.0cm, slicks, gouge ›	VA10111296	I005376	74.5	77	0.025
			VA10111296	I005377	77	78.5	0.025
80			VA10111296	I005378	78.5	81	0.025
			VA10111296	I005379	81	82.5	0.025
			VA10111296	I005381	82.5	84.24	0.025
85	Siltstone	Slltstone: fg dark grey siltstone with pervasive anastomising felsic veinlets throughout. Unit appears highly deformed- fine laminate bedding @88.8m has a convoluted appearance and no other bedding is clear in the unit. However, pyrite still shows as euhedral cubic crystals. « ank 3%» « py 0.4% 2.0-3.0mm» ‹ @ 87.78 S0 14°, highly convoluted › ‹ @ 86.86 QV2 50° 0.3cm › ‹ @ 91.49 QV2 55° 0.2cm › ‹ @ 91.66 QVbull 30° 1.0cm ›	VA10111296	I005382	84.24	86	0.025
			VA10111296	I005383	86	87.5	0.025
			VA10111296	I005384	87.5	89.5	0.025
90			VA10111296	I005385	89.5	91	0.025
			VA10111296	I005387	91	92.26	0.025
	Fault (Siltstone)	Fault zone in same rock as previous. « ank 3%» « py 0.2% 1.0-2.0mm» ‹ @ 92.36 FZ 40° 20.0cm, slicks gouge › ‹ @ 94.00 FZ 45° 150.0cm, slicks, gouge _grind ›	VA10111296	I005388	92.26	94.75	0.025
95	Tuff / Siltstone (80 / 20%) w/ mafic dyke	Tuff/Siltstone (80/20%) w/ mfc dykes: Very similar to previous tuff/siltstone interbedded unit. Ankerite slightly more pronounced but still with very little quartz veining and very little sericitic alteration. Siltstone beds also show some graphitic rich laminae- seen along fractures. Mafic dykes show as massive crystalline green fg-mg rock. « 101.66- 101.28 Mafic-dyke » « ank 9%» « py 0.2% 2.0-3.0mm» ‹ @ 103.60 S0 60° › ‹ @ 98.76 QVbull 69° 0.2cm › ‹ @ 104.45 QVbull 40° 0.2cm › ‹ @ 106.63 QVbull 60-80° 0.5cm, beta to bottom ›	VA10111296	I005389	94.75	96.5	0.025
			VA10111296	I005390	96.5	98	0.025
			VA10111296	I005391	98	99.5	0.025

10-DDH-917	North :5828509	East :604092	Elevation :983	Hole Length :240.63	Azimuth :208	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Tuff / Siltstone (80 / 20%) w/ mafic dyke	Tuff/Siltstone (80/20%) w/ mfc dykes: Very similar to previous tuff/siltstone interbedded unit. Ankerite slightly more pronounced but still with very little quartz veining and very little sericitic alteration. Siltstone beds also show some graphitic rich laminae- seen along fractures. Mafic dykes show as massive crystalline green fg-mg rock. « 101.66- 101.28 Mafic-dyke » « ank 9%» « py 0.2% 2.0-3.0mm» ‹ @ 103.60 S0 60° › ‹ @ 98.76 QVbull 69° 0.2cm › ‹ @ 104.45 QVbull 40° 0.2cm › ‹ @ 106.63 QVbull 60-80° 0.5cm, beta to bottom ›	VA10111296	I005391	98	99.5	0.025
			VA10111296	I005392	99.5	101	0.025
			VA10111296	I005394	101	102.5	0.025
			VA10111296	I005395	102.5	104	0.025
105			VA10111296	I005396	104	105.5	0.025
			VA10111296	I005397	105.5	107	0.025
	Siltstone / Tuff (60 / 40%) w/ mafic dyke	Siltstone/Tuff (60/40%) w/ mfc dyke: Similar to previous- sediment rich areas do show increase in fine white felsic anastomising veinlets- contorted quartz veins. Bedding not clear. « 107.00- 108.00 Mafic-dyke » « 112.94- 113.12 Mafic-dyke » « 113.18- 113.91 Mafic-dyke » « ank 5%» « py 0.3% 2.0-4.0mm» Pyrite is mostly cubic but some deformed crystals are seen. ‹ @ 112.06 S0 50° › ‹ @ 117.10 S0 52° › ‹ @ 107.24 QVbull 20° 0.8cm › ‹ @ 107.90 QVbull 14° 1.5cm › ‹ @ 109.00 QVbull 5° 0.7cm › ‹ @ 112.63 QVbull 40° 0.9cm › ‹ @ 113.70 QVbull 30° 1.2cm › ‹ @ 115.95 QVbull 40° 1.3cm ›	VA10111296	I005398	107	107.84	0.025
			VA10111296	I005399	107.84	109	0.025
110			VA10111296	I005400	109	110.5	0.025
			VA10111296	I005401	110.5	111.5	0.025
			VA10111296	I005402	111.5	113	0.025
			VA10111296	I005404	113	114.5	0.025
115			VA10111296	I005405	114.5	116	0.025
			VA10111296	I005406	116	117	0.025
			VA10111296	I005408	117	118	0.025
	Mafic-dyke w/ Tuff / Siltstone intrbd	Mafic-dyke w/ Tuff/Siltstone intrbd: Green cr-mica stained mg-cg mafic dyke rock interbedded with thin tuff/siltstone beds. Beds are quite siliceous and hard with 1 bed @120m 30cm thick containing ripply quartz and hard pale cream coloured matrix which has a high abundance of large 8-10mm rhombic ankerite overprinting. « ank 13%» « py 0.1% 2.0-2.0mm» ‹ @ 120.25 QVbull 50° 2.1cm › ‹ @ 124.67 QVbull 31-140° 0.5cm, beta to bottom ›	VA10111296	I005409	118	119.35	0.025
120			VA10111296	I005410	119.35	121.2	0.025
			VA10111296	I005411	121.2	122	0.025
			VA10111296	I005413	122	123.9	0.025
			VA10111296	I005414	123.9	125	0.025
125		Siltstone/Tuff (70/30%) w/ mfc dykes: Similar to previous siltstone/tuff units. Similarly contains thin sections of highly silicified pale rock (<5%). Baked margin contacts are seen in places with the mafic dyke rocks. Show as fg pale grey hard rock grading into the surrounding country rock.	VA10111296	I005415	125	126.5	0.025
		« ank 11%» « py 0.3% 4.0-14.0mm» Py shows as large euhedral cubic xls.	VA10111296	I005416	126.5	128	0.025
		‹ @ 127.30 S1 65° › ‹ @ 143.10 S0 35-17°, beta to bottom ›	VA10111296	I005417	128	129.5	0.025
		« 129.00- 130.06 Mafic-dyke 0°» « 135.64- 136.14 Mafic-dyke 0°» « 138.13- 138.34 Mafic-dyke 0°» « 139.95- 140.71 Mafic-dyke 0°» « 141.25- 141.40 Mafic-dyke 0°» « 142.61- 143.08 Mafic-dyke 0°» « 144.00- 145.75 Mafic-dyke 0°»	VA10111296	I005418	129.5	131	0.025
130			VA10111296	I005420	131	132.5	0.025
		‹ @ 127.00 QVbull 15° 1.6cm › ‹ @ 127.44 QVbull 50° 1.6cm › ‹ @ 129.00 QVbull 13° 1.2cm › ‹ @ 131.50 QVbull 50° 0.5cm › ‹ @ 131.96 QVbull 50° 0.5cm › ‹ @ 134.70 QVbull 12° 1.5cm › ‹ @ 135.75 QVbull 28° 3.2cm › ‹ @ 139.65 QVbull 25° 1.0cm › ‹ @ 141.00 QVbull 15° 0.5cm › ‹ @ 145.39 QVbull 15° 4.0cm › ‹ @ 146.58 QVbull 14° 24.0cm ›	VA10111296	I005421	132.5	134	0.025
			VA10111296	I005422	134	135.5	0.025
135	Siltstone / Tuff (70 / 30%) w/ mafic dyke	‹ @ 146.58 ga 0.1% 2.0mm, 1x 2mm xl ›	VA10111296	I005423	135.5	137	0.025
			VA10111296	I005424	137	138.5	0.025
			VA10111296	I005426	138.5	140	0.025
140			VA10111296	I005427	140	141.5	0.05
			VA10111296	I005428	141.5	143	0.08
			VA10111296	I005429	143	144.5	0.025
			VA10111296	I005430	144.5	146	0.05
145			VA10111296	I005432	146	147	0.025
	Mafic-dyke	Mafic-dyke: Same green cr-mica stained mafic dyke rock. Patches contain higher abundance of dark green mineral with slight alignment- chlorite with possible flow alignment? « ank 3%» « py » ‹ @ 147.80 QVbull 10° 1.3cm › ‹ @ 148.63 QVbull 45° 0.5cm › ‹ @ 151.49 QVbull 30° 12.0cm ›	VA10111296	I005433	147	148.5	0.025
			VA10111296	I005434	148.5	150	0.025

10-DDH-917	North :5828509	East :604092	Elevation :983	Hole Length :240.63	Azimuth :208	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
150	Mafic-dyke	Mafic-dyke: Same green cr-mica stained mafic dyke rock. Patches contain higher abundance of dark green mineral with slight alignment- chlorite with possible flow alignment?	VA10111296	I005434	148.5	150	0.025
		« ank 3%» « py »	VA10111296	I005435	150	151.7	0.05
		‹ @ 147.80 QVbull 10° 1.3cm › ‹ @ 148.63 QVbull 45° 0.5cm › ‹ @ 151.49 QVbull 30° 12.0cm ›	VA10111296	I005436	151.7	153	0.025
	Siltstone w/ mafic dykes	Siltstone unit with minor mafic dyke component (<5%). Dark grey unaltered fg siltstone with minor mg green mafic-dyke beds 5-6cm in size and quite contorted with the siltstone, with larger dyke at the bottom of the unit. Py abundance higher in areas and shows as euhedral xls.	VA10111296	I005437	153	154.5	0.025
		« ank 13% « py 0.4% 3.0-15.0mm»	VA10111296	I005438	154.5	156	0.025
155		‹ @ 152.65 S0 44° ›	VA10111296	I005439	156	157.5	0.025
		‹ @ 153.80 QVbull 35-330° 1.3cm, beta to bottom › ‹ @ 157.58 QVbull 14° 0.3cm › ‹ @ 158.48 QVbull 70° 1.2cm ›	VA10111296	I005441	157.5	159	0.025
		« 161.20- 162.63 Mafic-dyke »	VA10111296	I005442	159	160.5	0.025
160			VA10111296	I005443	160.5	162	0.025
			VA10111296	I005444	162	163.5	0.025
		Siltstone/Greywack w/ mfc dykes: Dark grey fg sitstone interbedded with grey to pale grey greywacke on a thin to thickly bedded scale although bedding angles are not clear. Unit is cross cut by mafic dyke units ranging fro 10-50cm in size. Show as the typical green cr-mica stained fg-cg rock. Areas in the greywacke show some sericitic alteration up to 10%.	VA10111296	I005445	163.5	165	0.025
		« ank 6%» « py 0.5% 3.0-13.0mm»	VA10111296	I005447	165	166.5	0.025
165		‹ @ 168.00 S0 62-300°, beta to bottom ›	VA10111296	I005448	166.5	168	0.025
		‹ @ 170.60 QVbull 20° 1.4cm › ‹ @ 171.85 QVbull 12° 1.2cm, cpy 1x 7mm xl › ‹ @ 173.40 QVbull 40° 1.1cm › ‹ @ 176.20 QVbull 13-288° 1.3cm, beta to bottom › ‹ @ 190.30 QVbull 6-272° 1.6cm, beta to bottom › ‹ @ 192.20 QVbull 7-255° 1.7cm, beta to bottom ›	VA10111296	I005449	168	169.5	0.025
		‹ @ 171.85 cpy 0.2% 7.0mm, 1x 7mm deformed xl ›	VA10111296	I005450	169.5	170.5	0.025
		« 175.00- 178.00 ser 10%»	VA10111296	I005451	170.5	171.5	0.025
170		« 185.20- 188.80 ser 10%»	VA10111296	I005452	171.5	172.25	0.06
			VA10111296	I005454	172.25	173.5	0.025
			VA10111296	I005455	173.5	175	0.025
175			VA10111296	I005456	175	176.5	0.025
	Siltstone / Greywacke w/ mafic dykes		VA10111296	I005457	176.5	178	0.025
			VA10111296	I005458	178	179.5	0.025
180			VA10111296	I005459	179.5	181	0.025
			VA10111296	I005461	181	182.5	0.025
			VA10111296	I005462	182.5	184	0.025
185			VA10111296	I005463	184	185.5	0.025
			VA10111296	I005464	185.5	187	0.025
			VA10111296	I005465	187	188.5	0.025
			VA10111296	I005467	188.5	190	0.025
190			VA10111296	I005468	190	191.5	0.025
			VA10111296	I005469	191.5	193	0.025
		Cat.1 Siltstone/Argillite: Interbedded siltstone and argillite with a Cat.1 texture. Pyrite is all small disseminated and stretched crystals.	VA10111296	I005470	193	194.5	0.025
		« ank 4%» « py 3.5% 1.0-2.0mm»	VA10111296	I005471	194.5	196	0.06
195	Cat.1 Siltstone / Argillite	‹ @ 194.50 S0 40-340°, beta to bottom ›	VA10111296	I005472	196	197.5	0.14
		‹ @ 198.33 QVbull 22-153° 2.0cm, beta to bottom ›	VA10111296	I005474	197.5	199	0.2

10-DDH-917	North :5828509	East :604092	Elevation :983	Hole Length :240.63	Azimuth :208	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

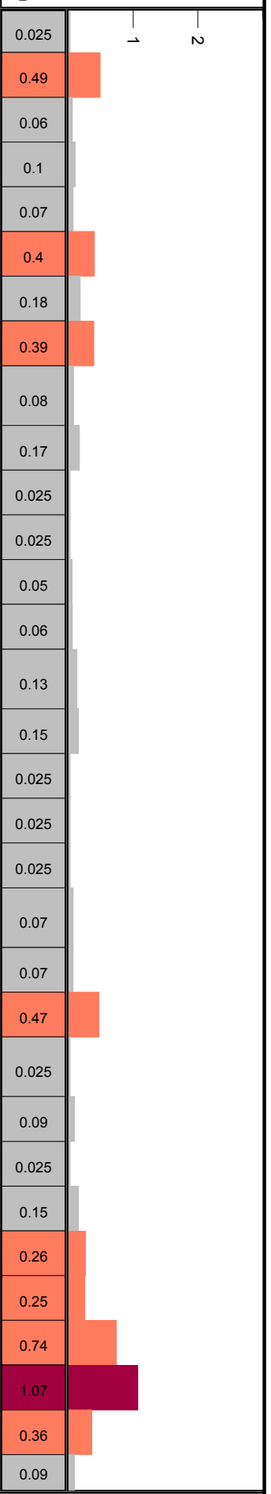
Geology			Geochemistry					
Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL	
200	Cat.1 Siltstone / Argillite	Cat.1 Siltstone/Argillite: Interbedded siltstone and argillite with a Cat.1 texture. Pyrite is all small disseminated and stretched crystals.	VA10111296	I005474	197.5	199	0.2	
		« ank 4%» « py 3.5% 1.0-2.0mm»	VA10111296	I005475	199	200.25	0.12	
		‹ @ 194.50 S0 40-340°, beta to bottom ›						
		‹ @ 198.33 QVbull 22-153° 2.0cm, beta to bottom ›						
	EOH	End of the hole.						
205								
210								
215								
220								
225								
230								
235								
240								
245								

10-DDH-918	North :5828457	East :604592	Elevation :943.1	Hole Length :175.87	Azimuth :200	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Geology Rocktype	Description	Geochemistry CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Casing	Casing- no core recovered.					
5	Siltstone / Argillite	Siltstone/Argillite: Interbedded finely laminated to med bedded fg grey siltstone (70%) and argillite (30%). Bedding is planar but healed fractures show offset crosscutting the bedding. Unit contains pervasive contorted felsic anastomising veinlets also crosscutting the bedding and the smaller qz veins within the unit are all contorted. Few small sections of gouge _grind in the middle. « ank 4%» « py 2.0% 3.0-6.0mm» as cubic euhedral xls ‹ @ 7.40 S0 35° › ‹ @ 10.20 QVbull 0° 55.0cm, alpha not measurable › ‹ @ 8.00 FZ 0° 10.0cm, grind, no alpha › ‹ @ 8.71 FZ 60° 6.0cm ›	VA10123356	I005476	5.18	6.5	0.06
			VA10123356	I005477	6.5	8	0.025
10			VA10123356	I005478	8	10	0.07
			VA10123356	I005479	10	11.5	0.07
15	Argillite / Siltstone (Cat.2)	Argillite/Siltstone (Cat.2): Same argillite (60%) siltstone (40%) interbedded rock but displaying strong cataclasite texture. Cat texture is not consistent and varies throughout from planar bedded sections (20-30cm) and some Cat.1 also. However, it can transition from planar to Cat.2 immeditately without grading in. Pyrite is seen as large euhedral cubic xls (90%) but also as some flattened slightly disseminated xls along bedding. Larger pyrite also show qz growth rimming the xls in a cubic infilling appearance. « ank 5%» « py 1.7% 3.0-16.0mm» ‹ @ 22.70 S1 46-145°, beta to bottom › ‹ @ 13.95 QVbull 41° 3.1cm › ‹ @ 24.06 QV2 32° 0.6cm ›	VA10123356	I005481	11.5	13	0.1
			VA10123356	I005482	13	14.5	0.21
			VA10123356	I005483	14.5	16	0.36
			VA10123356	I005484	16	17.5	0.05
			VA10123356	I005486	17.5	19	0.025
20			VA10123356	I005487	19	20.5	0.025
			VA10123356	I005488	20.5	22	0.21
			VA10123356	I005489	22	23.5	0.025
25			VA10123356	I005490	23.5	25	0.05
	Argillite / Siltstone	Argillite/Siltstone: Planar interbedded argillite (60%) _siltstone (40%) on a finely laminated to thinly bedded scale. « ank 7%» « py 2.6% 2.0-20.0mm» Large euhedral cubic pyrite xls ‹ @ 30.30 S0 45° › ‹ @ 31.27 QV2 25° 0.2cm, contorted › ‹ @ 31.90 QV2 40° 2.5cm, contorted, 10% py › ‹ @ 34.00 FZ 60° 40.0cm, gouge _slicks ›	VA10123356	I005492	25	26.5	0.05
			VA10123356	I005493	26.5	28	0.025
30			VA10123356	I005494	28	29.5	0.025
			VA10123356	I005495	29.5	31	0.14
			VA10123356	I005496	31	32.5	0.07
			VA10123356	I005497	32.5	34.5	0.8
35	Cat.2 Siltstone / Argillite	Cat.2 Siltstone/Argillite: Highly deformed interbedded siltstone (60%) and argillite (40%) unit into cat.2 boudinaged texture. Py shows as disseminted xls along deformation planes. « ank 4%» « py 4.2% 1.0-2.0mm» ‹ @ 45.00 S1 30° › ‹ @ 35.90 QVbull 40° 2.3cm › ‹ @ 37.56 QV2 40° 0.6cm › ‹ @ 49.13 QVbull 50° 4.5cm › ‹ @ 49.60 QVbull 35° 5.6cm › ‹ @ 48.80 FZ 44° 42.0cm, gouge _slicks ›	VA10123356	I005498	34.5	36	2.88
			VA10123356	I005500	36	37.5	5.22
			VA10123356	I095501	37.5	39	1.38
40			VA10123356	I095502	39	40.5	2.07
			VA10123356	I095503	40.5	43	2.15
			VA10123356	I095504	43	44.5	1.27
45			VA10123356	I095506	44.5	46	1.33
			VA10123356	I095507	46	47.5	1.73
			VA10123356	I095508	47.5	49.5	0.91
			VA10123356	I095509	49.5	51	0.025

10-DDH-918	North :5828457	East :604592	Elevation :943.1	Hole Length :175.87	Azimuth :200	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
55	Cat.2 Siltstone / Argillite	Cat.2 Siltstone/Argillite: Highly deformed interbedded siltstone (60%) and argillite (40%) unit into cat.2 boudinaged texture. Py shows as disseminted xls along deformation planes. « ank 4%» « py 4.2% 1.0-2.0mm» ‹ @ 45.00 S1 30° › ‹ @ 35.90 QVbull 40° 2.3cm › ‹ @ 37.56 QV2 40° 0.6cm › ‹ @ 49.13 QVbull 50° 4.5cm › ‹ @ 49.60 QVbull 35° 5.6cm › ‹ @ 48.80 FZ 44° 42.0cm, gouge _slicks ›	VA10123356	I095509	49.5	51	0.025
			VA10123356	I095510	51	52.5	0.49
			VA10123356	I095512	52.5	54	0.06
			VA10123356	I095513	54	55.5	0.1
60	Fault (Cat.2 A / S)	Fault (Cat.2 A/S): Fault zone in same Cat.2 A/S. « ank 4%» « py 2.3% 2.0-5.0mm» ‹ @ 61.00 S1 50° › ‹ @ 61.90 Qvbull 20° 2.2cm › ‹ @ 55.67 FZ 0° 40.0cm, grind, no alpha › ‹ @ 58.70 FZ 0° 33.0cm, gouge, no alpha › ‹ @ 61.50 FZ 30° 28.0cm, gouge slicks › ‹ @ 62.85 FZ 75° 40.0cm, slicks _grind › ‹ @ 64.20 FZ 0° 35.0cm, grind, no alpha ›	VA10123356	I095514	55.5	57	0.07
			VA10123356	I095515	57	58.5	0.4
			VA10123356	I095516	58.5	60	0.18
			VA10123356	I095517	60	61.5	0.39
			VA10123356	I095518	61.5	63.5	0.08
65			VA10123356	I095519	63.5	65	0.17
70		Cat. 1 Argillite/Siltstone: In places moves down to planar bedding for lengths of 30-60cm but mostly contorted Cat. 1 bedding in interbedded argillite (65%) and argillite (35%). Some fractures show blue luiminescence- fine pale blue shiny coating along fractures. « ank 6%» « py 2.8% 0.5-2.0mm» Py shows as disseminated xls and small xls along deformed bedding planes. ‹ @ 81.48 S1 60° › ‹ @ 93.57 S1 32° › ‹ @ 91.85 QVbull 15° 1.1cm, ga, sph cpy › ‹ @ 67.85 QV2 70° 0.6cm › ‹ @ 91.85 cpy 2.0% 4.0mm, 2x 4mm xls in QVbull › ‹ @ 91.85 ga 0.5% 1.0mm, 4x 1mm xls in QVbull › ‹ @ 91.85 sph 0.2% 3mm, 1x 3mm xl in QVbull › ‹ @ 70.49 FZ 30° 25.0cm, gouge slicks › ‹ @ 78.80 FZ 20° 18.0cm, gouge _slicks ›	VA10123356	I095521	65	66.5	0.025
			VA10123356	I095522	66.5	68	0.025
			VA10123356	I095523	68	69.5	0.05
			VA10123356	I095524	69.5	71	0.06
			VA10123356	I095526	71	73	0.13
			VA10123356	I095527	73	74.5	0.15
75			VA10123356	I095528	74.5	76	0.025
			VA10123356	I095529	76	77.5	0.025
			VA10123356	I095530	77.5	79	0.025
80	Cat.1 Argillite / Siltstone		VA10123356	I095532	79	81	0.07
			VA10123356	I095533	81	82.5	0.07
			VA10123356	I095534	82.5	84	0.47
85			VA10123356	I095535	84	86	0.025
			VA10123356	I095536	86	87.5	0.09
			VA10123356	I095537	87.5	89	0.025
90			VA10123356	I095538	89	90.5	0.15
			VA10123356	I095539	90.5	92	0.26
			VA10123356	I095541	92	93.5	0.25
			VA10123356	I095542	93.5	95	0.74
95	Cat.2 Argillite / Siltstone	Cat.2 Argillite/Siltstone: Highly deformed cat.2 interbedded argillite (60%) and siltstone (40%). Very little quartz veining. « ank 5%» « py 3.9% 0.5-2.0mm» Disseminated py. ‹ @ 108.20 QVbull 64° 6.3cm › ‹ @ 110.10 QVbull 30° 6.5cm › ‹ @ 108.00 FZ 50° 14.0cm, grind _slicks ›	VA10123356	I095543	95	96.5	1.07
			VA10123356	I095544	96.5	98	0.36
			VA10123356	I095545	98	99.5	0.09



Scale 1:200	Start Depth :49.60	End Depth :99.19	Page No.: 2

10-DDH-918	North :5828457	East :604592	Elevation :943.1	Hole Length :175.87	Azimuth :200	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description	CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
	Geology		Geochemistry				
100	Cat.2 Argillite / Siltstone	Cat.2 Argillite/Siltstone: Highly deformed cat.2 interbedded argillite (60%) and siltstone (40%). Very little quartz veining. « ank 5%» « py 3.9% 0.5-2.0mm» Disseminated py. ‹ @ 108.20 QVbull 64° 6.3cm › ‹ @ 110.10 QVbull 30° 6.5cm › ‹ @ 108.00 FZ 50° 14.0cm, grind _slicks ›	VA10123356	I095545	98	99.5	0.09
			VA10123356	I095546	99.5	101	0.06
			VA10123356	I095548	101	102.5	0.025
			VA10123356	I095549	102.5	104	0.025
105			VA10123356	I095550	104	105.5	0.025
			VA10123356	I095551	105.5	107	0.06
			VA10123356	I095553	107	108.5	0.2
110			VA10123356	I095554	108.5	110	0.47
	Jigsaw Volcanic	Jigsaw Volcanic: Healed brecciated texture fg-mg pale brown to pale grey volcanic rock. Jigsaw texture given by anastomising black veinlets. Thin unit (120cm) of the unit below (see next description) @114m. Ankerite alteration is NOT seen as with other volcanic/tuff units (large pale cream blebs). Pyrite shows as small 2-4mm euhedral cubic xls. « ank 3%» « py 1.8% 2.0-10.0mm» ‹ @ 116.17 S0 60° › ‹ @ 113.17 QVbull 30° 4.0cm › ‹ @ 115.20 QVbull 80° 4.0cm › ‹ @ 116.83 QVbull 20° 1.0cm › ‹ @ 118.00 QVbull 25° 1.6cm › ‹ @ 118.59 QVbull 34° 1.4cm › ‹ @ 119.50 QVbull 16° 0.9cm › ‹ @ 119.20 QVbull 50-45° 7.0cm, beta to bottom, cpy, ga, sph › ‹ @ 119.20 cpy 2.0% 3.0-10.0mm, >5x xls › ‹ @ 119.20 ga 4.0% 2.0-15.0mm, >10x xls in QVbull › ‹ @ 119.20 sph 3.0% 4-12mm, 4x xls in QVbull ›	VA10123356	I095555	110	111.5	0.06
			VA10123356	I095556	111.5	113	0.025
			VA10123356	I095557	113	114.5	0.08
115			VA10123356	I095558	114.5	116.17	0.08
			VA10123356	I095559	116.17	117.5	0.11
			VA10123356	I095560	117.5	119	0.14
			VA10123356	I095561	119	119.75	0.12
120			VA10123356	I095563	119.75	121	0.06
			VA10123356	I095564	121	122.5	0.1
			VA10123356	I095565	122.5	123.85	0.16
	Cat.1 Quartzite / Argillite	Cat.1 Quartzite/Argillite: Interbedded crystalline light grey fg v.hard (scratches steel) quartzite with v.fg dark grey argillite. Graphite is seen along fractures. Beds are highly contorted but no boudinage is visible. Almost schistose fabric to the rock. « ank 3%» « py 0.5% 6.0-15.0mm» ‹ @ 131.67 S1 70° › ‹ @ 135.60 S1 72° › ‹ @ 124.00 QV2 50° 0.3cm › ‹ @ 126.80 QVbull 23° 13.0cm › ‹ @ 128.60 QVbull 50° 1.2cm › ‹ @ 129.35 QVbull 90° 1.2cm › ‹ @ 132.13 QVbull 60° 1.4cm ›	VA10123356	I095567	123.85	125	0.49
125			VA10123356	I095568	125	126.5	0.19
			VA10123356	I095569	126.5	128	0.025
			VA10123356	I095570	128	129.5	0.025
130			VA10123356	I095572	129.5	131	0.05
			VA10123356	I095573	131	132.5	0.12
			VA10123356	I095574	132.5	134	0.025
135			VA10123356	I095575	134	135.5	0.025
	Fault (Cat.1 Quartzite / Argillite)	Fault (Cat.1 Quartzite/Argillite): Fault zone in same rock as previous. « ank 3%» « py 0.9% 2.0-15.0mm» ‹ @ 141.10 QV2 62° 2.2cm › ‹ @ 36.25 FZ 70° 35.0cm, grind slicks › ‹ @ 137.20 FZ 60° 30.0cm, grind gouge › ‹ @ 138.92 FZ 44° 130.0cm, gouge, grind slicks › ‹ @ 144.80 FZ 60° 23.0cm, slicks _grind ›	VA10123356	I095576	135.5	137	0.07
			VA10123356	I095577	137	138.5	0.08
			VA10123356	I095578	138.5	140	0.09
140			VA10123356	I095580	140	141.5	0.06
			VA10123356	I095581	141.5	144	0.025
		Cat.1 Quartzite/Argillite: Same as previous. « ank 4%» « py 0.8% 3.0-12.0mm» ‹ @ 152.30 S1 17° › ‹ @ 156.80 S1 52° › ‹ @ 174.60 S1 60° › ‹ @ 150.08 QV2 40° 0.3cm › ‹ @ 155.14 QVbull 42° 4.6cm › ‹ @ 158.15 QVbull 50° 6.0cm › ‹ @ 159.72 QVbull 52° 1.3cm › ‹ @ 163.30 QVbull 30° 0.5cm › ‹ @ 170.40 QVbull 27° 5.5cm › ‹ @ 174.40 QVbull 40° 3.2cm › ‹ @ 169.10 FZ 0° 16.0cm, gouge, no alpha ›	VA10123356	I095582	144	146	0.025
145			VA10123356	I095583	146	147.5	0.23
	Cat.1 Quartzite / Argillite		VA10123356	I095585	147.5	149	0.07

Scale 1:200	Start Depth :99.19	End Depth :148.79	Page No.: 3

10-DDH-918	North :5828457	East :604592	Elevation :943.1	Hole Length :175.87	Azimuth :200	Dip :-65	Logged by :EAG	Size :HQ3	15 July 2011

Depth At	Rocktype	Description
150	Cat.1 Quartzite / Argillite	Cat.1 Quartzite/Argillite: Same as previous. « ank 4%» « py 0.8% 3.0-12.0mm» ‹ @ 152.30 S1 17° › ‹ @ 156.80 S1 52° › ‹ @ 174.60 S1 60° › ‹ @ 150.08 QV2 40° 0.3cm › ‹ @ 155.14 QVbull 42° 4.6cm › ‹ @ 158.15 QVbull 50° 6.0cm › ‹ @ 159.72 QVbull 52° 1.3cm › ‹ @ 163.30 QVbull 30° 0.5cm › ‹ @ 170.40 QVbull 27° 5.5cm › ‹ @ 174.40 QVbull 40° 3.2cm › ‹ @ 169.10 FZ 0° 16.0cm, gouge, no alpha ›
155		
160		
165		
170		
175	EOH	End of the hole... end of the season!
180		
185		
190		
195		

Geochemistry				
CERT_NO	SAMPLE	S_FROM	S_TO	AU_VAL
VA10123356	I095585	147.5	149	0.07
VA10123356	I095586	149	150.5	0.025
VA10123356	I095587	150.5	152	0.025
VA10123356	I095588	152	153.5	0.025
VA10123356	I095589	153.5	155	0.025
VA10123356	I095590	155	156.5	0.025
VA10123356	I095591	156.5	158	0.025
VA10123356	I095593	158	159.5	0.025
VA10123356	I095594	159.5	161	0.025
VA10123356	I095595	161	162.5	0.025
VA10123356	I095596	162.5	164	0.025
VA10123356	I095597	164	165.5	0.025
VA10123356	I095598	165.5	167	0.06
VA10123356	I095599	167	168.5	0.025
VA10123356	I095601	168.5	170	0.025
VA10123356	I095602	170	171.5	0.025
VA10123356	I095603	171.5	173	0.025
VA10123356	I095605	173	174.5	0.025
VA10123356	I095606	174.5	175.87	0.06